EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination

<u>Town of St. Pauls Flood Improvements Project</u> EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination

Infrastructure Recovery Program

July 17, 2023

Introduction & Overview

The purpose of Executive Order (EO) 11988 Floodplain Management is "to avoid to the extent possible the long- and short-term adverse impacts associated with occupancy and modification of floodplains and to avoid direct or indirect support of floodplain development wherever there is a practicable alternative." The purpose of EO 11990 Protection of Wetlands is "to avoid to the extent possible the long- and short-term adverse impacts associated with the destruction or modification of wetlands and to avoid direct or indirect support of new construction in wetlands wherever there is a practicable alternative." This determination contains the analysis prescribed by 24 CFR Part 55.

The North Carolina Office of Recovery and Resiliency (NCORR) has received an application from the Town of St. Pauls to use U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant – Mitigation (CDBG-MIT) funding under 24 CFR 58 from the Infrastructure Recovery Program to implement the Town of St. Pauls Flood Improvements Project ("proposed action") located at South Johnson Street, East Clark Street, East Ross Street and South Elizabeth Street; and Calvary Cornerstone Holiness Church; 400 East Ross Street; 401 East Clark Street; and Town of St. Pauls' Waste Water Treatment Plant (WWTP) parcel in St. Pauls, Robeson County, NC 28384. The analysis that follows focuses on floodplain and wetland impacts, as there are direct wetland and floodplain impacts associated with this proposed action. Based on the type of land use and improvements, necessity, and other case characteristics described herein, it is concluded that there is a reasonable basis to proceed with funding for this proposed action within a floodplain and wetland. The CDBG-MIT funding is administered through the NCORR Infrastructure Recovery Program which is developing sustainable and resilient communities. Thus, alternatives preventing or impeding the development of sustainable and resilient communities are not considered reasonable alternatives.

Description of Proposed Action & Land Use

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). The proposed action is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The proposed action entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in mostly previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street. As conceived and designed, through a system of underground culverts, this project aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. As proposed in design plans, the proposed project will be capable of draining an area of 2,101 acres every 24 hours. According to the Project Information Form dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during storm events.

The proposed action will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The proposed action will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of National Wetland Inventory (NWI) mapped and U.S. Army Corps of Engineers (USACE) verified delineated wetlands. These impacts to 100-year floodplain and wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. The proposed permanent wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. The proposed action was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp a 177.62-acre Freshwater Forested/ Shrub Wetland (PFO1C).

Applicable Regulatory Procedure Per EO 11988 and EO 11990

The proposed action corresponds with a noncritical action not excluded under 24 CFR §55.12. Funding is permissible for use in the floodplain and wetland if the proposed action is processed under §55.20 and the findings of the determination are affirmative to suggest that the project may proceed.

In accordance with 24 CFR 55, the proposed action involves installation of stormwater improvements in Robeson County which is a participating community in good standing in the regular program of the National Flood Insurance Program (NFIP). Substantial Improvement/ Substantial Damage calculations do not apply to this proposed action. However, this proposed action involves "modification" of floodplain. As such, the full eight-step floodplain determination process in §55.20 is required, and the following analysis examines each step in an EO 11988 Floodplain Management Determination process.

Based on information from the USACE Nationwide Permit (NWP) 18 Permit Verification and Jurisdictional Determination (JD) (see **Appendix 1**), the proposed action involves "new construction" in wetlands for the installation of stormwater improvements as described above. Due to the use of HUD funds, compliance with EO 11990 through completion of the eight-step process under 24 CFR 55.20 is required for projects with wetland impacts. Thus, in accordance with the decision-making process set forth in 24 CFR Part 55, the following analysis examines each step in an EO 11990 Protection of Wetlands Determination process.

Step 1. Determine Whether the Proposed Action is Located in the 100-year Floodplain (500-year for Critical Actions) or results in New Construction in Wetlands.

Based on the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Map (FIRM) panel 3720030800J, effective on 1/19/2005, the Subject Property is mostly located in Zone X (**Appendix 1**). A Preliminary FIRM (PFIRM) is not available for the vicinity of the Subject Property according to the FEMA Map Service Center. The Subject Property is not located within a FEMA-designated regulatory floodway. The proposed action does not include an insurable structure according to the National Flood Insurance Program (NFIP) Flood Insurance Manual effective October 1, 2022. The St. Paul's WWTP parcel is the only proposed location with portions in 100-year floodplain and wetlands, approximately 49.37 acres and 62.2 acres respectively. As such, the full eight-step floodplain determination process in §55.20 is required,

and the following analysis examines each step in an EO 11988 Floodplain Management Determination process.

Based on the USACE NWP 18 Permit Verification and JD, the proposed action has activities located in Waters of the United States including wetlands that are subject to the Clean Water Act's (CWA) Section 404, as shown in **Appendix 1**. The Big Marsh Swamp, a 177.62-acre Freshwater Forested/Shrub Wetland habitat classified as a PFO1C, is located partially on the Town of St. Pauls' WWTP property with Parcel ID# 030890981900. According to the USFWS National Wetland Inventory Map, there is a former 0.40-acre Freshwater Pond habitat classified as PUBFh located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID# 381404009, 34°48'11.9"N 78°58'05.9"W). However, according to the USFWS NWI Coordinator, "[a]fter reviewing current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present." Therefore, the EO 11990 Protection of Wetlands Determination focuses only on the Big Marsh Swamp wetland. The full eight-step wetlands determination process in §55.20 is required, and the following analysis examines each step in an EO 11990 Protection of Wetlands Determination process.

The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC Division of Water Resources (DWR) CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. The project is located in the Lumber River Basin which is not subject to Riparian Buffer Protection Rules. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies.

Step 2. Initiate Public Notice for Early Review of Proposal.

Because the proposed action is located in floodplain and wetlands, NCORR published an early notice and posted supporting documentation that allowed for public and agency input on the decision to provide funding for construction and development activities. Supporting documentation incorporated into the early notice was posted for public review to the NCORR ReBuild NC website and included proposed project location maps with boundaries shown, USFWS NWI Maps (showing Big Marsh Swamp and USFWS confirmation no PUBFh wetland present at Parcel 1 - Calvary Cornerstone Holiness Church), FEMA FIRMettes with parcel boundaries shown, USACE NWP 18 Permit Verification and Jurisdictional Determination with Site Plans showing Wetland Impacts' Areas and Acreage. The early public notice and 15-day comment period is complete. No new, substantive public comments were received.

The early notice and corresponding 15-day public comment period started on June 10, 2023 with the "*Early Notice and Public Review of a Proposed Activity in a 100-Year Floodplain and Wetland*" being published in The Robesonian newspaper, with the 15-day period expiring on June 26, 2023. The notice targeted local residents within the community. The notice was also posted at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews and sent via Federal Express and email to the following federal and state agencies on June 9, 2023: HUD NC Field Office; Federal Emergency Management Agency (FEMA); U.S. Environmental Protection Agency (EPA); U.S Fish and Wildlife Service (USFWS); USACE; and NC State Environmental Clearinghouse. The notice was also sent to Robeson County and the Town of St. Pauls. Project information was sent to the NC State Historic Preservation Office (SHPO) and Catawba Indian Nation for review and comment under Section 106 of the National Historic Preservation Act of 1966 (NHPA) and a project notification letter was sent to the Lumbee Tribe of North Carolina (See *Town of St. Pauls Flood Improvements Project EA ERR*). (See **Appendix 2** for the early notice distributed to these agencies, the newspaper publication affidavit, and distribution documentation).

Step 3. Identify and Evaluate Practicable Alternatives to Locating the Proposed Action in a 100-year Floodplain or Wetland.

The North Carolina Infrastructure Recovery Program empowers the State's most impacted communities with the technical expertise needed to develop thorough and implementable reconstruction plans to build physically, socially, and economically resilient and sustainable communities.

This proposed action involves stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative routes and designs were considered during the design phase; however, the proposed action utilizes the most economical and direct route to convey stormwater to the larger drainage area of Big Marsh Swamp. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (*see* Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed action was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain

The main alternative is the "No Action" Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This proposed action is critically necessary to protect the residents and community from future storm events. The "No Action" Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating area resiliency to future flooding events and the proposed action is still practicable in light of potential adverse impacts on the floodplain and wetlands.

The above-identified alternatives will be re-evaluated in response to public comments received.

Step 4. Identify and Evaluate Potential Direct and Indirect Impacts Associated with the Occupancy or Modification of 100-year Floodplain and Wetland and the Potential Direct and Indirect Support of Floodplain and Wetland Development that Could Result from Proposed Action.

The focus of floodplain evaluation should be on adverse impacts to lives and property, and on natural and beneficial floodplain values. Natural and beneficial values include consideration of potential for adverse impacts on water resources such as natural moderation of floods, water quality maintenance, and groundwater recharge.

According to the FEMA Report - A Unified National Program for Floodplain Management, the two definitions commonly used in evaluating actions in floodplain are "structural" and "non-structural" activities. Per the report, structural activity is usually intended to mean adjustments that modify the behavior of floodwaters through the use of measures such as public works dams, levees, and channel work. Non-structural is usually intended to include all other adjustments (e.g., regulations, insurance, etc.) in the way society acts when occupying or modifying a floodplain. These definitions are used in describing impacts that may arise in association with potential advancement of this case.

Natural Moderation of Floods, Water Quality Maintenance, and Groundwater Recharge

According to the FEMA FIRMs, the proposed action occurs in areas classified as Zone X and 100-year floodplain (Zone AE, Special Flood Hazard Area [SFHA]) (**Appendix 1**). The proposed action will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The impacts to 100-year floodplain include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. A Floodplain Development Permit and, if required, NC DEMLR Erosion and Sediment Control Permit and NPDES Construction Stormwater Permit (NCG010000), will be obtained before commencing work. Mitigation measures for the proposed action includes best management practices (BMPs) for erosion and sedimentation control such as silt fencing which will be utilized during construction.

Natural floodplains and wetlands provide flood risk reduction benefits by slowing runoff and storing flood water. Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the proposed action will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. To mitigate risk of erosion from allowing the stormwater to directly discharge into Big March Swamp, riprap aprons are proposed at the outlets to dissipate energy. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Big Marsh Swamp is heavily vegetated and contains areas of standing water which should prevent significant erosion. The stormwater discharge is not anticipated to negatively impact natural wetland hydrology and should aid in recharging downstream wetland hydrology. The proposed action is not anticipated to exceed 1.5 acres of disturbance.

Natural floodplains and wetlands provide important functions for water quality maintenance and groundwater recharge. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the Town of St. Pauls Flood Improvements Project EA ERR when received from the permitting agencies. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Thus, measures will be implemented to ensure the proposed action will have no significant direct or indirect impacts to floodplain and wetlands during construction and operation as a stormwater infrastructure system. This will ensure that water quality and the ability to maintain water quality and allow for groundwater recharge are not impacted by the proposed action.

This proposed action involves stormwater infrastructure improvements to an existing deficient system. The project designs have been completed in accordance with agency input to minimize impacts to the

environment and community. The proposed action will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. Thus, while the proposed action would directly affect the floodplain, it is not anticipated to have an adverse effect on the floodplain for the surrounding communities or environment.

Living Resources such as Flora and Fauna

For this proposed action, the USFWS Raleigh Ecological Services' online 10-step project review process was completed. The proposed action was determined to have "no effect" on proposed, threatened, endangered, or candidate species and proposed or designated critical habitat under USFWS jurisdiction, and a "no Eagle Act permit required" determination for the Bald Eagle. A Self-certification Letter and 10step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on March 21, 2023. According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. (See Attachment 8 in the Town of St. Pauls Flood Improvements Project EA ERR for full details.) Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species.

The project designs have been completed in accordance with agency input to minimize impacts to the environment and community. The proposed action activities will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. BMPs for erosion and sedimentation control such as silt fencing will be utilized during construction. The proposed action has been determined to have "no effect" on proposed, threatened, endangered, or candidate species and proposed or designated critical habitat. Thus, as designed and with mitigation measures implemented, the proposed action will have no or minimal impacts to living resources, such as flora and fauna, during construction and operation as a stormwater infrastructure system.

Impacts to Property and Lives

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. According to the Project Information Form (PIF) dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The PIF also states that "[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards." The proposed action is intended to sustain and build resiliency of this area during future flooding events while not detracting from visual quality. Additionally, the proposed action will further protect the residents' public health and safety by safeguarding infrastructure and enhancing emergency response operations during and after severe storm events. The mitigation of future flooding is essential for the safety of residents in the Town of St. Pauls. Therefore, the proposed action is not anticipated to have adverse impacts to property and lives, but rather aims to provide critically necessary protection of property and lives in the surrounding area during storm events.

Cultural Resources such as Archaeological, Historic and Recreational Aspects

The majority of the proposed action activities will take place in and along residential streets and at existing culverts. As part of this review, the SHPO, Chief and Tribal Historic Preservation Offices (THPO) of all applicable Tribes, Nations, and Communities were consulted regarding any historic properties of religious and cultural significance in the area that could be affected by the proposed actions. The SHPO responded on June 2, 2022 and July 3, 2023 that "[w]e have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed." According to the HUD Tribal Directory Assessment Tool (TDAT), the Catawba Indian Nation is the only federally-recognized tribes with interests in Robeson County, North Carolina. NCORR consulted with the Catawba Indian Nation for discussion of historic properties in the proposed action area that may have religious and cultural significance. On May 13, 2022, the Catawba Indian Nation's Tribal Historic Preservation Office (THPO) responded that "[t]he Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project." On July 12, 2023, NCORR Director Ms. Laura Hogshead sent a notification letter for the proposed project to the Lumbee Tribe of North Carolina Chairman John Lowery. A response has not been received but will be included in the Town of St. Pauls Flood Improvements Project EA ERR when received. The SHPO and Catawba Indian Nation Section 106 review and consultation documentation is included in the Town of St. Pauls Flood Improvements Project EA ERR along with the Lumbee Tribe of NC project notification letter.

There are several parks and recreational facilities located in St. Pauls according to the Town website (https://www.stpaulsnc.gov/parks). The Town has Sugar Park located near the Boy Scout Hut on North 4th Street and Hooks Community Building on North 3rd Street and West Armfield Street. The St. Pauls Regional Park at 625 East Blue Street is owned by the Town but leased by Robeson County to operate it and has two baseball/ softball fields, a dog park, and the only public swimming pool in Robeson County. The ML Bob Everett Park/North 5th Street Park has basketball courts. The proposed action will not introduce new development that would generate demand for parks, open spaces or recreational areas or impede their access. Instead, the proposed action aims to reduce flooding in the area, safeguard

infrastructure, and public and private properties, and reduce the vulnerability of assets by increasing the resiliency of the community during future flooding events. As such, the proposed action would not have an adverse effect on existing parks, open spaces or recreational areas.

Agricultural, Aquacultural, and Forestry Resources

The majority of the proposed project activities will take place in and along residential streets and at existing culverts. The United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) Web Soil Survey Soil groups for the Subject Property included from north to south: NoA - Norfolk loamy sand, 0 to 2 percent slopes (Church parcel - All areas are prime farmland), WaB - Wagram loamy sand, 0 to 6 percent slopes (north of E. Clark St. - Farmland of statewide importance), WkB - Wakulla sand, 0 to 6 percent slopes (E. Clark St. to E. Ross St. - Not prime farmland), and JT - Johnston soils (St. Pauls' WWTP parcel - Not prime farmland). Thus, the proposed action areas located from approximately E. Clark Street to the St. Pauls' WWTP parcel are not considered "important farmlands" subject to FPPA according to the FPPA Manual, Subpart B - Program Activities and Requirements, Section 523.10(A) -Lands Subject to Provisions of FPPA. The proposed action areas containing Farmland of statewide importance and All areas are prime farmland are identified as "Land with a 'tint overprint' on the USGS topographical map" and, thus, not subject to provisions of the Farmland Protection Policy Act (FPPA) according to the FPPA Manual, Subpart B – Program Activities and Requirements, Section 523.10(B)(3) -Lands Not Subject to Provisions of FPPA. The Subject property consists of a church, residential neighborhood, and WWTP parcel which are not ideal for agricultural and forestry resources. It is anticipated that due to the proposed project site conditions a limited number of trees will be removed. Thus, the proposed action is not expected to have an adverse impact on agricultural or forestry resources.

According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be reseeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. (See Attachment 8 in the Town of St. Pauls Flood Improvements Project EA ERR for full details.) Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the Town of St. Pauls Flood Improvements Project EA ERR when received from the permitting agencies. Therefore, the proposed action is not expected to have an adverse impact on aquacultural resources. Overall, the Subject Property consists of a church, residential neighborhood, and WWTP parcel and is not used for agriculture, aquaculture or forestry and, thus, the proposed action is not expected to have an adverse impact on agricultural, aquacultural or forestry resources.

Wetland Evaluation

The purpose of wetland evaluation is to consider factors relevant to a proposed action's effect on the survival and quality of any wetlands to be disturbed. These factors should include public health (including water supply and water quality), maintenance of natural systems, cost increases attributed to construction in wetland, and other uses of wetland in the public interest. Based on the USACE CWA Section 404 NWP 18 Permit Verification and JD, the proposed action has activities located in Waters of the United States including wetlands that are subject to the Clean Water Act's Section 404. The Big Marsh Swamp, a 177.62-acre Freshwater Forested/Shrub Wetland classified as a PFO1C, is located partially on the Town of St. Pauls' WWTP property with Parcel ID# 030890981900. According to the USFWS NWI Map, there is a former 0.40-acre Freshwater Pond habitat classified as PUBFh located on the Calvary Cornerstone Holiness Church owned parcel (County Parcel ID# 381404009, 34°48'11.9"N 78°58'05.9"W). However, according to the USFWS NWI Coordinator, "[a]fter reviewing current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present." The St. Paul's WWTP parcel is the only proposed location with portions in wetlands, approximately 62.2 acres. Thus, the EO 11990 Protection of Wetlands Determination focuses only on the Big Marsh Swamp wetland.

The proposed action will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of NWI-mapped and USACE verified delineated wetlands. These impacts to wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. The contractor shall provide adequate pump around or diversion to keep the work area dry. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions postconstruction. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The proposed action was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. Further, mitigation measures are incorporated into the design plans, and permit requirements and conditions will be complied with during construction. The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the Town of St. Pauls *Flood Improvements Project EA ERR* when received from the permitting agencies. Thus, measures will be implemented to ensure the proposed action will have no further impacts to wetlands during construction.

Public Health, Safety, and Welfare, Including Water Supply, Quality, Recharge, and Discharge; Pollution; Flood and Storm Hazards and Hazard Protection; and Sediment and Erosion

Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. The natural and beneficial functions and values related to hydrology and water quality include slowing down stormwater runoff, providing surface and subsurface retention, and filtering out pollutants. Currently, the Big Marsh Swamp wetland functions as a collection point for stormwater from the surrounding properties. However, the existing stormwater infrastructure was insufficient during storms and Hurricane Matthew. The Town is experiencing frequent flooding problems in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. This area also experienced substantial flooding during Hurricane Matthew in 2016, resulting in damages to at least seven homes and the Calvary Cornerstone Holiness Church. The area has two small private pump stations that currently remove water during small rain events, but are not adequately sized for larger events and do not have backup power.

Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the proposed action will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. To mitigate risk of erosion from allowing the stormwater to directly discharge into Big March Swamp, riprap aprons are proposed at the outlets to dissipate energy. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Big Marsh Swamp is heavily vegetated and contains areas of standing water which should prevent significant erosion. The stormwater discharge is not anticipated to negatively impact natural wetland hydrology and should aid in recharging downstream wetland hydrology. The proposed action is not anticipated to exceed 1.5 acres of disturbance. The proposed project will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the ERR when received from the permitting agencies. Therefore, the proposed action is not anticipated to have an adverse impact on water quality, recharge, and discharge; pollution; flood and storm hazards and hazard protection; and sediment and erosion.

The proposed action is necessary to prevent future storm events from flooding the affected areas of the Town of St. Pauls which is a threat to public safety. According to the PIF dated September 28, 2020, this improvement will address flooding in the area to prevent property damage to homes, churches and businesses, and reduce roadway flooding allowing better transportation accessibility during and after storm events. The PIF also states that "[t]he Community wants to remain intact and not fear every future significant storm as the residents see storm water rise into their yards." The proposed action will further protect the residents' public health and safety by safeguarding infrastructure and enhancing emergency

response operations during and after severe storm events. Therefore, the proposed action should lessen impacts to *public health, safety, and welfare* in the surrounding area during and after future storm events.

The Town of St. Pauls provides the water to the community according to the Town website. The proposed action will not increase demand for water. Thus, the proposed action will not have an impact on local water supplies. According to the NC DEQ comment, plans and specifications for the construction, expansion, or alteration of a public water system must be approved by the DWR/ Public Water Supply Section prior to the award of a contract or the initiation of construction as per 15A NCAC 18C .0300 et. seq. If new water lines will be installed or existing water lines relocated as part of this project, plans, specifications, and other reports will need to be submitted to the Public Water Supply Section before construction begins. In addition, all public water supply systems must comply with State and federal drinking water monitoring requirements. If any wells are discovered on the proposed project site, then abandonment of wells must be in accordance with Title 15A. Subchapter 2C.0100. Further, NC DEQ notes that any relocation of existing water lines will require plans to be submitted to the DWR/ Public Water Supply Section prior to construction. All applicable federal, State and local permits will be obtained for the proposed action prior to construction and activities will comply with their requirements and conditions. Therefore, the proposed action is not anticipated to have an adverse impact on water supply onsite and in the surrounding area. The Town of St. Pauls provides sewer services to the community according to the Town website. The proposed action will not introduce any new development that would generate waste water. Mitigative measures such as BMPs will be utilized during construction to prevent soil and/ or debris from being washed offsite. The proposed action is not anticipated to cause the discharge of sewage to surfaces of the Subject Property or surrounding properties. The proposed action will not create waste water or affect waste water service in the area. Any additional waste water generated during construction activities would be temporary. A permit to construct and operate waste water treatment facilities, non-standard sewer system extensions and sewer systems that do not discharge into state surface waters and a permit to construct and operate, sewer extensions involving gravity sewers, pump stations and force mains discharging into a sewer collection system might be required according to the NC DEQ comments (See Attachment 20 in the Town of St. Pauls Flood Improvements Project EA ERR for full details). All applicable federal, State and local permits will be identified and obtained for the proposed action prior to construction and activities will comply with their requirements and conditions. Permits will be appended to the Town of St. Pauls Flood Improvements Project EA ERR when received from the permitting agencies. Therefore, the proposed action is not anticipated to have an adverse impact on waste water/ sanitary sewers and capacity onsite and in the surrounding area.

Maintenance of Natural Systems, Including Conservation and Long-Term Productivity of Existing Flora and Fauna; Species and Habitat Diversity and Stability; Natural Hydrologic Function; Wetland Type; Fish; Wildlife; Timber; and Food and Fiber Resources

Construction for the proposed action will result in approximately 0.07 acres of wooded habitat loss. However, the flood reduction benefits of the proposed action will outweigh this loss of wooded area. Native plants are recommended to be utilized during site restoration at the Subject Property. The proposed action is not anticipated to exceed 1.5 acres of disturbance. The proposed action has been designed and redesigned, and mitigation measures incorporated to have the minimal impacts on these features.

The USFWS Information for Planning and Consultation (IPaC) Official Species List identified a total of five threatened, endangered, or candidate species and three migratory Birds of Conservation Concern (BCC) as species with the potential to occur within the vicinity of the proposed project site. The five proposed, threatened, endangered, or candidate species include the: 1) Tricolored Bat (Perimyotis subflavus), 2) Red-cockaded Woodpecker (Picoides borealis), 3) American Alligator (Alligator mississippiensis), 4) Monarch Butterfly (Danaus plexippus), and 5) Michaux's Sumac (Rhus michauxii).

The three migratory BCC include the 1) Chimney Swift (Chaetura pelagica), 2) Prothonotary Warbler (Protonotaria citrea), and 3) Red-headed Woodpecker (Melanerpes erythrocephalus).

The NC Natural Heritage Program (NHP) database query report identified one State-listed species (Blackbanded Sunfish, Enneacanthus chaetodon) within the proposed project area, and five State-listed species within one-mile of the proposed project area including two dragonfly or damselfly species, one freshwater fish and two vascular plants (Coppery Emerald, Somatochlora georgiana; Phantom Darner, Triacanthagyna trifida; Blackbanded Sunfish, Enneacanthus chaetodon; Georgia Indigo-bush, Amorpha georgiana; and Carolina Sunrose, Crocanthemum Carolinianum). However, based on the USFWS IPaC and USFWS and NMFS Critical Habitat Mappers results, there are no critical habitats identified within one mile of the proposed project area.

The NC NHP was consulted for additional information on the Tricolored Bat which is proposed for listing and uses culverts year-round for habitat. According to Ms. Judith Ratcliffe, Zoologist at the NC NHP, "[t]here are no documented Tricolored Bat maternity roost trees within 150 feet of this project boundary. There are no documented Tricolored Bat hibernacula within 0.25 mile of this project boundary. Individuals of this species have been mist-net captured approximately *20 miles* to the southeast of this project boundary (emphasis added)." Since the Tricolored Bat is estimated to be present approximately 20 miles from the proposed project site, a determination of "No Effect" has been made for this proposed species.

None of the above-listed species or potential habitat were observed during the site visits. According to McGill Associates, PA (McGill), Threatened and Endangered (T&E) Species surveys to observe biological habitats and determine the likely occurrence of protected (threatened/ endangered), candidate, and proposed species within the proposed project area and site visits were completed. There was no suitable habitat found within the Limits of Disturbance (LOD). The majority of the proposed project activities (disturbance) will take place in and along residential streets and at existing culverts. It is anticipated that due to the proposed project site conditions a limited number of trees will be removed and any migratory birds in the area will temporarily leave the area during construction. Therefore, a No Effect determination has been made for all of the above-listed species and a "no Eagle Act permit required" determination for eagles. A Self-certification Letter and 10-step Project Review Package were prepared and submitted to the USFWS Raleigh Ecological Services Field Office (FO) on March 21, 2023.

Aquatic resources are highly susceptible to sedimentation. According to the NCWRC comments, it is recommended to minimize impacts to aquatic and terrestrial wildlife resources that the Town of St. Pauls: 1) Maintain a minimum 100-foot undisturbed, native forested buffer along perennial streams and minimum 50-foot buffer along intermittent streams and wetlands. In addition, lay down and staging areas should be located outside wetland areas and at least 100 feet from stream banks.; 2) The project footprint should be surveyed for wetlands and streams where impacts are anticipated to ensure there are no impacts to surface waters. Clean Water Act Temporarily disturbed wetland areas should be returned to original soils and contours, reseeded with annual small grains appropriate for the season (e.g., oats, millet, rye, wheat, or rye grass) and allowed to revert to natural wetland vegetation.; 3) Avoid the removal of large trees at the edges of construction corridors. Disturbed areas should be re-seeded with seed mixtures that are beneficial to wildlife such as season appropriate native, annual small grains and pollinator mixes but fescue-based mixtures are to be avoided.; and 4) Sediment and erosion control measures should be installed prior to any land-disturbing activity. The use of biodegradable and wildlife-friendly sediment and erosion control devices is strongly recommended. Preference is given to silt fencing, fiber rolls and/or other products with loose-weave netting that is made of natural fiber materials with movable joints between the vertical and horizontal twines, but not products reinforced with plastic or metal mesh. (See Attachment 8 in the Town of St. Pauls Flood Improvements Project EA ERR for full details.) Also, the NCWRC has developed the Guidance Memorandum to Address and Mitigate Secondary and Cumulative Impacts to Aquatic and Terrestrial Wildlife Resources and Water Quality. NCWRC recommends consideration of additional measures in this document to protect aquatic and terrestrial wildlife species.

The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. The proposed action has been determined to have "no effect" on proposed, threatened, endangered, or candidate species and proposed or designated critical habitat. In addition, the Subject property consists of a church, residential neighborhood, and WWTP parcel which are not ideal and not used for timber or agriculture and, thus, is not expected to have an adverse impact on timber and food and fiber resources. Thus, there will be minimal to no effect on living resources such as natural systems such as flora and fauna, timber, and food and fiber resources. (Natural hydrologic function and wetland type are discussed further in previous sections.)

Cost Increases Attributed to Wetland-Required New Construction and Mitigation Measures to Minimize Harm to Wetlands that May Result from Such Use

The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (*see* Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed action was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain. The additional costs for impacts to wetlands include the wetland delineation for \$7,200 and permit costs of \$8,600. Since the impacts to wetlands are less than one acre, no compensatory mitigation is required. There are additional mitigation measures to minimize harm to wetlands built into existing plans. BMPs for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. Thus, measures will be implemented to ensure the proposed action will have no further impacts to wetlands during construction and any additional costs that will be incurred during implementation cannot be fully enumerated at this time.

Other Uses of Wetland in the Public Interest, Including Recreational, Scientific, and Cultural Uses

The portion of the wetland located on the Town's WWTP parcel has no identifiable recreational, scientific, or cultural uses that will be impacted by the proposed action. The site is currently used as a municipal waste water treatment facility. As part of the 24 CFR 58 environmental review, the SHPO and Chief Bill Harris and the THPO of the Catawba Indian Nation were consulted regarding any historic or tribal resources in the area that could be affected by the proposed action. On June 2, 2022 and July 3, 2023, the SHPO responded that the project will have no effect on historic resources. On May 13, 2022, the Catawba Indian Nation's THPO responded that "[t]he Catawba have no immediate concerns with regard to traditional cultural properties, sacred sites or Native American archaeological sites within the boundaries of the proposed project areas. However, the Catawba are to be notified if Native American artifacts and / or human remains are located during the ground disturbance phase of this project." On July 12, 2023, NCORR Director Ms. Laura Hogshead sent a notification letter for the proposed project to the Lumbee Tribe of

North Carolina Chairman John Lowery. A response has not been received but will be included in the *Town* of St. Pauls Flood Improvements Project EA ERR when received. The SHPO, Catawba Indian Nation, and Lumbee Tribe of NC documentation is included in the *Town of St. Pauls Flood Improvements Project EA* ERR.

Step 5. Where Practicable, Design or Modify the Proposed Action to Minimize the Potential Adverse Impacts to and from the 100-Year Floodplain and the Wetland and to Restore and Preserve its Natural and Beneficial Functions and Values.

The proposed project design dated March 2022 originally involved a much larger area of impact to wetlands and no impacts to 100-year floodplain (*see* Draft EA submitted to the State Environmental Clearinghouse). In February 2023, the proposed action was redesigned to minimize impacts to wetlands and avoid compensatory mitigation. However, this new design does involve impacts to a small portion of floodplain. The original design proposed approximately 584 LF of RCP through the wetland ending under the WWTP Access Road with a rip rap apron and armoring. The revised 2023 proposed project design involves the installation of two 24-inch RCPs approximately 26 linear feet in length in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts.

All temporary wetland impacts will result from construction access and will be stabilized and allowed to return to natural conditions post-construction. The contractor shall provide adequate pump around or diversion to keep the work area dry. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The proposed action was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. Further, the Town has full time staff in charge of inspecting and maintaining the system post installation to ensure proper performance and address routine repairs as needed. With proper maintenance, any eroded area(s) can be repaired and stabilized. Big Marsh Swamp is heavily vegetated and contains areas of standing water which should prevent significant erosion. The stormwater discharge is not anticipated to negatively impact natural wetland hydrology and should aid in recharging downstream wetland hydrology.

The proposed action will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, if applicable, prior to commencing work: USACE CWA Section 404 NWP 18 Minor Discharges, NC DWR CWA Section 401 Water Quality Certification, NC DEMLR Erosion and Sediment Control Permit, NPDES Construction Stormwater Permit (NCG010000), and Floodplain Development Permit. All necessary permits will be identified and obtained prior to commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA ERR* when received from the permitting agencies. Thus, measures will be implemented to ensure the proposed action will have no significant direct or indirect impacts to floodplain and wetlands during construction and operation as a stormwater infrastructure system.

Step 6. Reevaluate the Alternatives and Proposed Action.

The proposed action will benefit surrounding residential areas by alleviating flooding and preventing private and public property damage. As conceived and designed, through a system of underground culverts, this proposed action aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The proposed action is not anticipated to exceed 1.5 acres of disturbance.

The proposed action location has been determined to be the most ideal for effective improvement of the existing stormwater infrastructure and only a small portion of the proposed activities will take place in 100-year floodplain and wetland. This proposed action involves stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative routes and designs were considered during the design phase; however, the proposed action utilizes the most economical and direct route to convey stormwater to the larger drainage area of Big Marsh Swamp. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The proposed action has been redesigned with agency input to minimize impacts to wetlands and have minimal impacts on floodplain.

The main alternative is the "No Action" Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This proposed action is critically necessary to protect the residents, property and community from future storm events. The "No Action" Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. The "No Action" Alternative would not address the purpose and need of the proposed action, and leave the surrounding community vulnerable to future flood damage. Thus, the "No Action" Alternative is not feasible in relation to the desired objective of creating area resiliency to future flooding events and the proposed action is still practicable in light of potential adverse impacts on the floodplain and wetlands.

Implementation of the proposed action will abide by all applicable federal, State and local laws, regulations, and permit requirements and conditions. Permits required for this proposed action shall be obtained before commencing work and appended to the *Town of St. Pauls Flood Improvements Project EA environmental review record (ERR)* when received from the permitting agencies. The impacts of these alternatives will be re-evaluated in response to any public comments received.

Step 7. Issue Findings and Public Explanation.

It is the finding of this report that there is no better alternative than to provide funding for the Town of St. Pauls Flood Improvements Project. This proposed action is critically necessary to protect the residents, property and community from future storm events.

A final notice, formally known as "*Final Notice and Public Explanation of a Proposed Activity in a 100-Year Floodplain and Wetland*" is being published in accordance with 24 CFR 55. However, this notice was combined with the *Notice of Finding of No Significant Impact (FONSI) and Notice of Intent to Request Release of Funds (NOI-RROF)* for a 15-day comment period. The 15-day comment period starts with the combined notice publishing in The Robesonian newspaper on July 19, 2023 and ends on August 3, 2023. The notice will be posted at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-newspaper

<u>reviews</u> and sent via Federal Express and email to the following state and federal agencies on July 19, 2023: HUD NC Field Office; FEMA; EPA; USFWS; USACE; and NC State Environmental Clearinghouse. The notice was also sent to Robeson County and the Town of St. Pauls. Project information was sent to the NC SHPO and Catawba Indian Nation for review and comment under Section 106 of the NHPA and a project notification letter was sent to the Lumbee Tribe of North Carolina (See *Town of St. Pauls Flood Improvements Project EA ERR*). (See **Appendix 3** for the final notice distributed to these agencies).

Supporting documentation, including this EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination, incorporated into the Final Notice was posted for public review to the NCORR ReBuild NC website and included the Early Notice documentation (proposed project location maps with boundaries shown, USFWS NWI Maps [showing Big Marsh Swamp and USFWS confirmation no PUBFh wetland present at Parcel 1 - Calvary Cornerstone Holiness Church], FEMA FIRMettes with parcel boundaries shown, USACE NWP 18 Permit Verification and Jurisdictional Determination with Site Plans showing Wetland Impacts' Areas and Acreage) and additional appendices noted herein. The EA was also posted to the NCORR ReBuild NC website allowing for public and agency input on the decision to provide funding for construction and development activities. Any substantive comments received will be addressed, and incorporated into the EA prior to proceeding with the submission of a request for release of funds..

Step 8. Implementation and Continuing Responsibility of the Responsible Entity and Recipient.

NCORR is the responsible entity and will provide educational materials, when available. It is acknowledged there is a continuing responsibility by the responsible entity to ensure, to the extent feasible and necessary, compliance with the Steps herein.

APPENDIX 1

TOWN OF ST. PAULS FLOOD IMPROVEMENTS

EARLY NOTICE FLOODPLAIN AND WETLANDS MAPS

- Proposed Project Location Maps
- USFWS National Wetlands Inventory Maps (showing Big Marsh Swamp and USFWS confirmation no PUBFh wetland present at Parcel 1 - Calvary Cornerstone Holiness Church)
- FEMA FIRMettes and NFIP Community Status
- Book
- USACE NWP 18 Permit Verification and Jurisdictional Determination with Site Plans showing Wetland Impacts, Pre-Construction Notification (PCN) Form, and JD Request

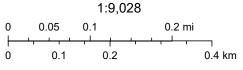
Proposed Project Location Maps

St. Pauls Flood Improvements - Aerial Map



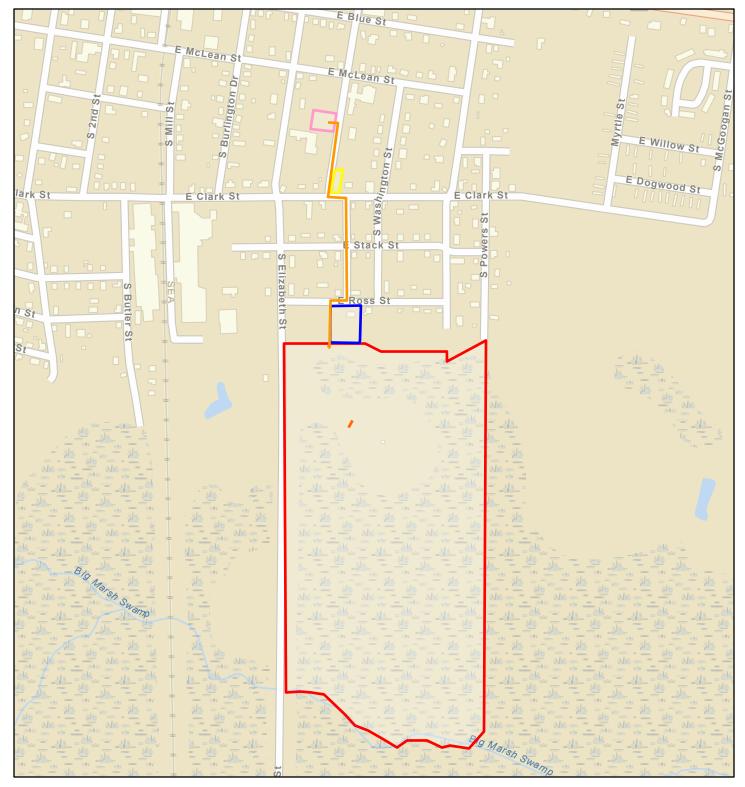


- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
 - St. Pauls' WWTP



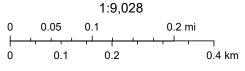
NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

St. Pauls Flood Improvements - Street Map





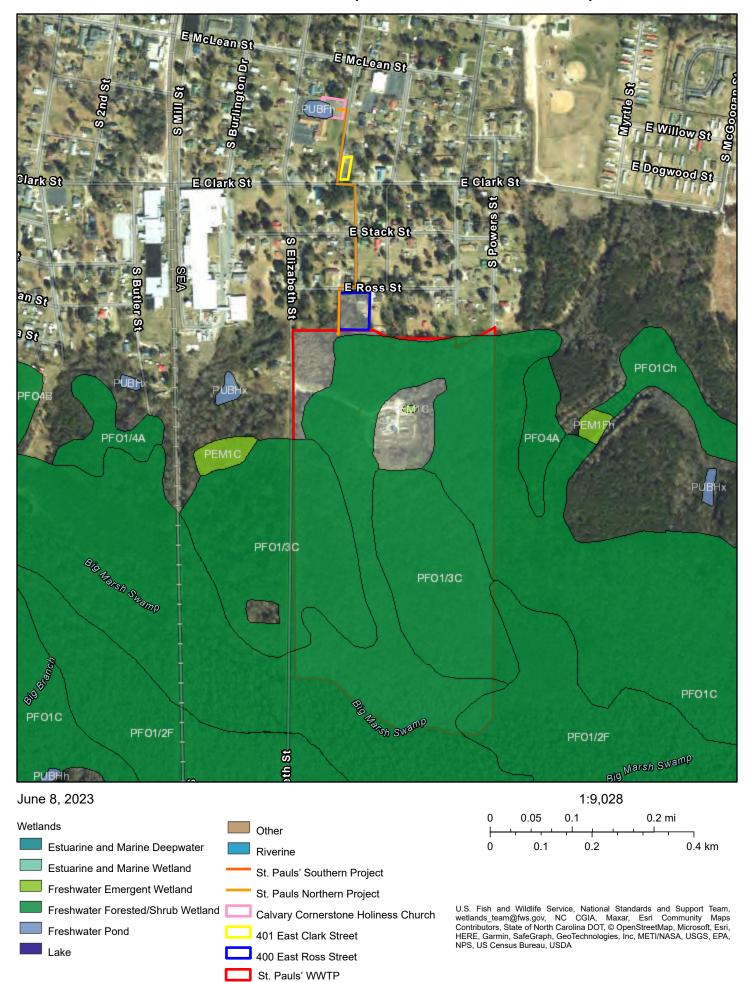
- St. Pauls' Southern Project
- St. Pauls Northern Project
- Calvary Cornerstone Holiness Church
- 401 East Clark Street
- 400 East Ross Street
 - St. Pauls' WWTP



Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

USFWS National Wetlands Inventory Maps (showing Big Marsh Swamp and USFWS confirmation no PUBFh wetland present at Parcel 1 - Calvary Cornerstone Holiness Church)

St. Pauls Flood Improvements - NWI Map





U.S. Fish and Wildlife Service **National Wetlands Inventory**

St. Pauls Flood Imp. - Parcel 1



July 18, 2022

Wetlands

Estuarine and Marine Wetland

Estuarine and Marine Deepwater

Freshwater Pond

Freshwater Emergent Wetland

Freshwater Forested/Shrub Wetland

Lake Other Riverine This map is for general reference only. The US Fish and Wildlife Service is not responsible for the accuracy or currentness of the base data shown on this map. All wetlands related data should be used in accordance with the layer metadata found on the Wetlands Mapper web site.

Gievers, Andrea

From:	Hunt, Gary <gary_hunt@fws.gov></gary_hunt@fws.gov>
Sent:	Thursday, March 23, 2023 11:27 AM
То:	Gievers, Andrea
Subject:	Re: [EXTERNAL] St. Pauls Flood Improvement - NWI Map inconsistency

CAUTION: External email. Do not click links or open attachments unless you verify. Send all suspicious email as an attachment to <u>Report Spam.</u>

TO: Andrea Gievers, JD, MSEL, ERM Environmental SME Community Development NC Office of Recovery and Resiliency 845/682-1700

RE: Analysis of wetland features at South Johnson Street, East Clark Street, Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009.

After reviewing current available aerial imagery and your investigation of the above-mentioned parcel, it is clear that the wetland feature (Coded PUBFh) is no longer present.

The U.S. Fish & Wildlife Service National Wetlands Inventory has been collecting and maintaining wetlands data for more then forty years. Due to budget and manpower limitations, some areas originally mapped in the 1970's and 1980's never got updated. Therefore, as in this case, features that once existed when the original data was collected may be altered or in some cases gone all together. This is a common issue with the database, especially in areas of rapid growth or change.

The data for this area was collected in 1983, and has not been updated.

It should also be noted that the National Wetlands Inventory (NWI) is an inventorying and classifying agency, which *only* provides reconnaissance-level wetland maps and information. The National Wetlands Inventory is not a regulatory agency. Federal, State and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. Entities should not rely solely on this inventory for current wetland status. Modern aerial imagery and on-the-ground investigations may supersede data appearing on the online NWI Wetlands Mapper. For Federally-based jurisdictional determinations, the U.S. Army Corps of Engineers should be consulted.

Feel free to call or email if you have any further questions or concerns.

Sincerely,

Gary H Hunt National Wetlands Inventory Coordinator Ecological Services U.S. Fish & Wildlife Service 500 Gold Ave. SW Room 6056 Albuquerque, NM 87102 505-248-6776 (office) 505-248-6922 (fax) gary hunt@fws.gov From: Gievers, Andrea <andrea.l.gievers@rebuild.nc.gov>
Sent: Tuesday, March 21, 2023 11:25 AM
To: Hunt, Gary <Gary_Hunt@fws.gov>
Subject: [EXTERNAL] St. Pauls Flood Improvement - NWI Map inconsistency

This email has been received from outside of DOI - Use caution before clicking on links, opening attachments, or responding.

Hello:

The North Carolina Office of Recovery and Resiliency (NCORR), as a recipient of Community Development Block Grant – Disaster Recovery (CDBG-DR) funds from the United States Department of Housing and Urban Development (HUD), is considering funding this Infrastructure Recovery Program project, St. Pauls Flood Improvement. The proposed project location is at South Johnson Street, East Clark Street, Elizabeth Street; and Calvary Cornerstone Holiness Church, Johnson Street, Parcel ID 381404009; 400 East Ross Street, St. Pauls, NC 28384, Parcel ID 38160204101; 401 East Clark Street, St. Pauls, NC 28384, Parcel ID 38140401401; and Town of St. Pauls, Elizabeth Street, Parcel ID 30890981900, Robeson County, NC 28364. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure.

Per HUD regulations at 24 CFR 55.2(b)(11), I am reaching out to you regarding an NWI-mapped wetland that is no longer wetland. The project starts at one parcel with NWI-mapped wetland which is currently a church parking lot and lawn with a catch basin, see attached and below. I have asked USACE Gary Beecher who sent me the Lidar map if he could confirm for me that it is no longer a wetland. Mr. Beecher is working on the PCN submittal for the Big Marsh Swamp portion of the project. *Is it possible to get a sign-off from USFWS that this is no longer a wetland?* Please feel free to contact me if you have any questions. Thank you so much!

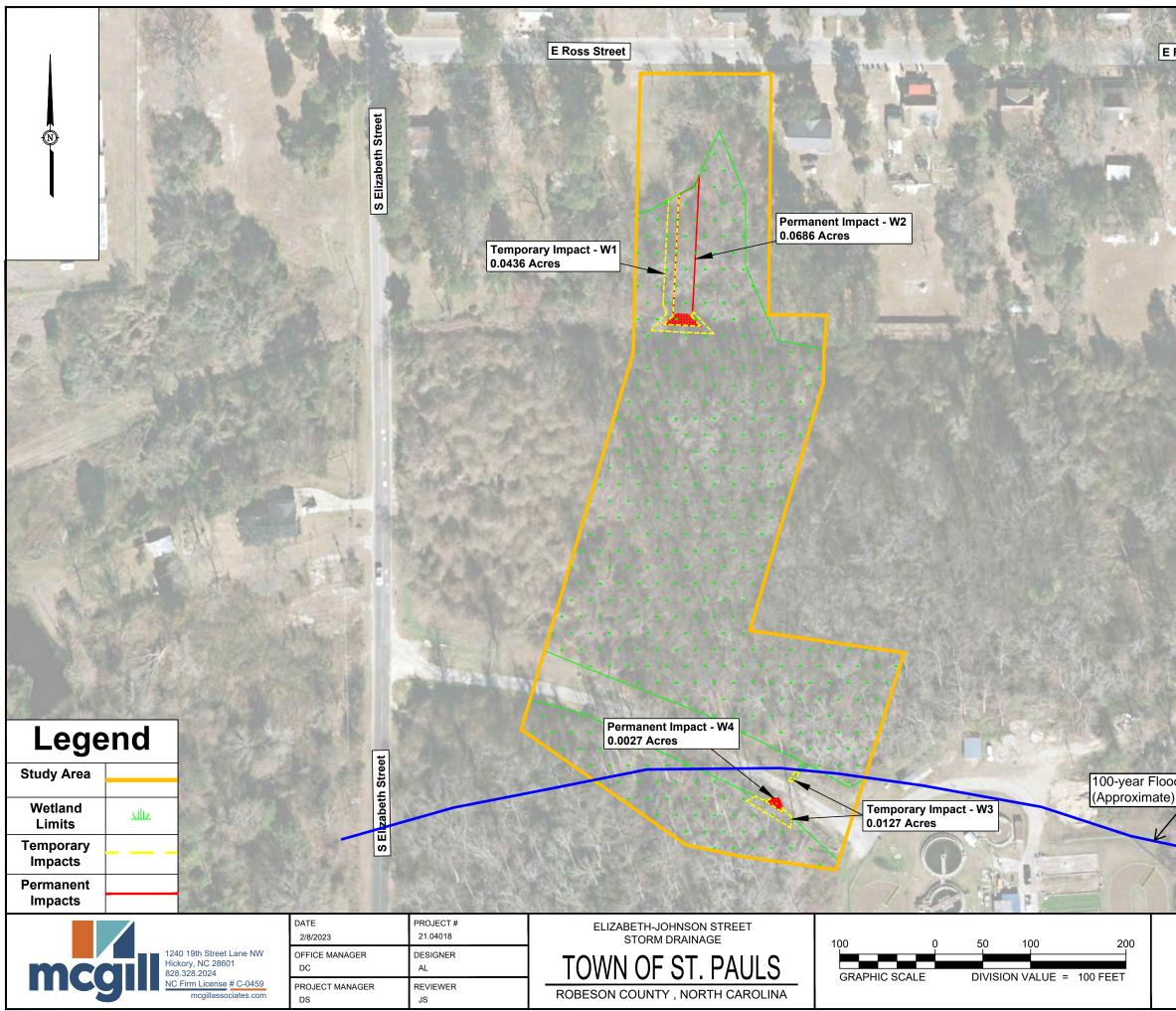


Sincerely,

Andrea

Andrea Gievers, JD, MSEL, ERM Environmental SME Community Development NC Office of Recovery and Resiliency <u>Andrea.L.Gievers@Rebuild.NC.Gov</u> (845) 682-1700

FEMA FIRMettes and NFIP Community Status Book



E Ross Street	Impacts Table				
	Temporary Impact - W1 (Wetland A)	0.0436 Acres			
	Permanent Impact - W2 (Wetland A)	0.0686 Acres			
	Temporary Impact - W3 (Wetland A)	0.0127 Acres			
	Permanent Impact - W4 (Wetland A)	0.0027 Acres			
	-				

100-year Floodplian

FIGURE

IMPACTS MAP

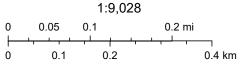
St. Pauls Flood Improvements - FEMA FIRM



June 8, 2023

Flood Hazard Zones

- 1% Annual Chance Flood Hazard
- Regulatory Floodway
- 🔊 Special Floodway
 - Area of Undetermined Flood Hazard
 - 0.2% Annual Chance Flood Hazard
- Future Conditions 1% Annual Chance Flood Hazard

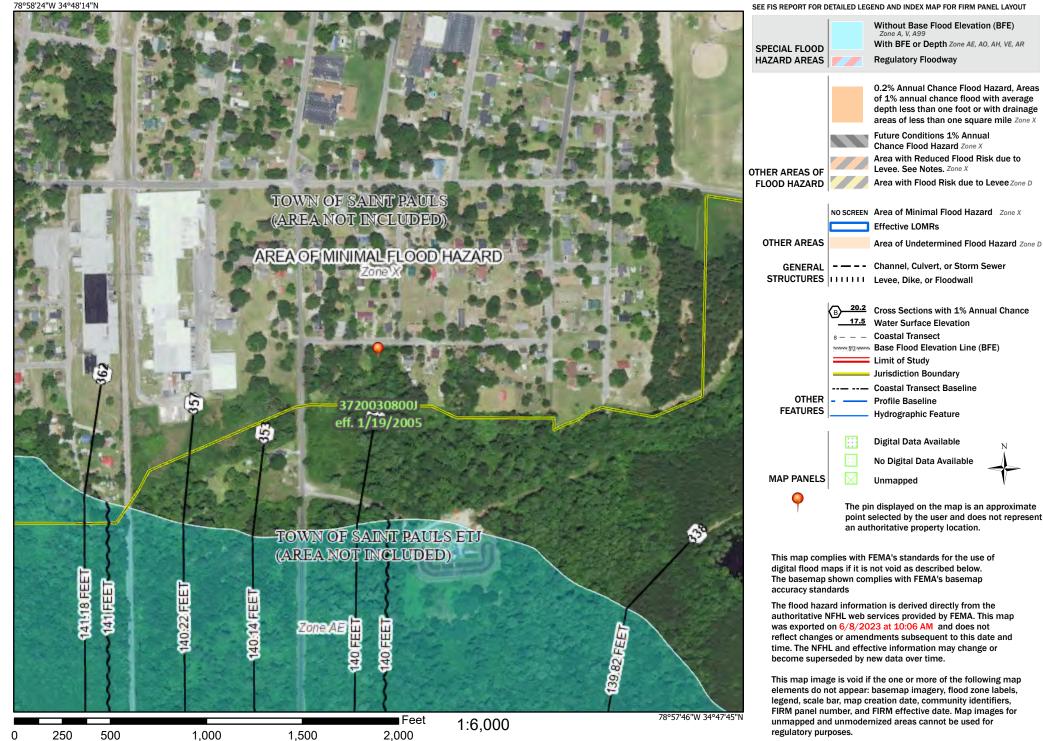


NC CGIA, Maxar, Esri Community Maps Contributors, State of North Carolina DOT, © OpenStreetMap, Microsoft, Esri, HERE, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, EPA, NPS, US Census Bureau, USDA

National Flood Hazard Layer FIRMette



Legend

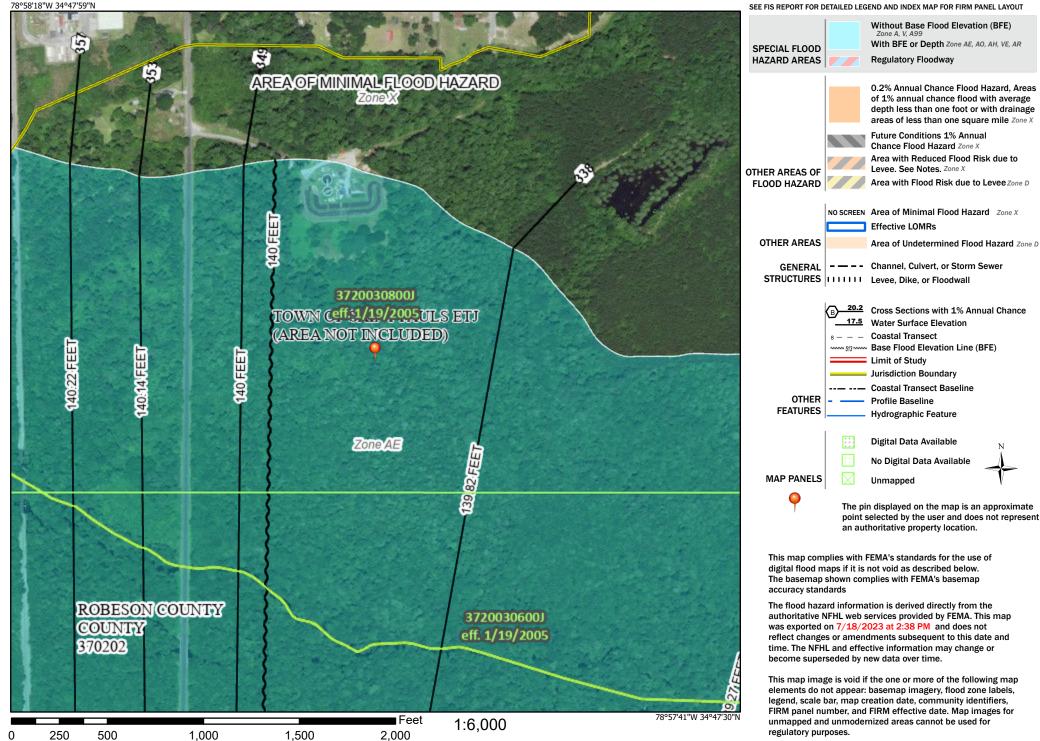


Basemap Imagery Source: USGS National Map 2023

National Flood Hazard Layer FIRMette



Legend



Basemap Imagery Source: USGS National Map 2023



Community Status Book Report



NORTH CAROLINA

Communities Participating in the National Flood Program

CID	Community Name	County	Init FHBM Identified	Init FIRM Identified		Reg-Emer Date	Tribal	CRS Entry Date	Curr Eff Date	Curr Class		% Disc Nor SFHA
370091K	PINETOPS, TOWN OF	EDGECOMBE COUNTY	01/09/74	03/28/80	06/02/15	03/28/80	No					
370160F	PINEVILLE, TOWN OF	MECKLENBURG COUNTY	06/21/74	03/18/87	09/02/15	03/18/87	No	10/01/91	10/01/20	5	25%	10%
370599#	PINK HILL, TOWN OF	LENOIR COUNTY		07/02/04	(NSFHA)	01/26/12	No					
370372L	PITT COUNTY *	PITT COUNTY	06/30/78	01/06/83	06/19/20	01/06/83	No	10/01/02	10/01/18	В	10%	05%
370420K	PITTSBORO, TOWN OF	CHATHAM COUNTY	10/20/78	02/02/07	11/17/17	02/02/07	No					
370618#	PLEASANT GARDEN, TOWN OF	GUILFORD COUNTY		06/18/07	03/16/09	03/17/09	No					
370249#	PLYMOUTH, TOWN OF	WASHINGTON COUNTY	05/20/77	08/19/85	02/04/09	08/19/85	No	10/01/94	10/01/99	В	10%	05%
370194#	POLK COUNTY*	POLK COUNTY	11/29/74	01/01/87	10/02/08	01/01/87	No					
370286#	POLKTON, TOWN OF	ANSON COUNTY	02/10/78	09/03/08	10/16/08	08/20/08	No					
370634#	POLKVILLE, TOWN OF	CLEVELAND COUNTY		02/20/08	02/20/08	03/22/12	No					
370142K	POLLOCKSVILLE, TOWN OF	JONES COUNTY	03/15/74	09/04/86	06/15/22	09/04/86	No					
370485J	PRINCETON, TOWN OF	JOHNSTON COUNTY		10/20/00	06/20/18	02/14/97	No					
370318K	PRINCEVILLE, TOWN OF	EDGECOMBE COUNTY	07/25/75	04/15/80	06/02/15	04/15/80	No					
370635#	PROCTORVILLE, TOWN OF	ROBESON COUNTY		01/19/05	01/05/07	10/24/12	No					
370132#	RAEFORD, CITY OF	HOKE COUNTY	12/20/74	06/03/86	12/18/07	06/03/86	No					
370243N	RALEIGH, CITY OF	WAKE COUNTY	06/28/74	08/15/78	07/19/22	08/15/78	No	10/01/91	10/01/14	10		0%
370198#	RAMSEUR, TOWN OF	RANDOLPH COUNTY	02/15/74	03/01/87	03/16/09	03/01/87	No					
370199#	RANDLEMAN, CITY OF	RANDOLPH COUNTY	11/22/74	07/01/87	03/16/09	07/01/87	No					
370195C	RANDOLPH COUNTY *	RANDOLPH COUNTY	01/03/75	07/16/81	11/17/17	07/16/81	No					
370324#	RANLO, TOWN OF	GASTON COUNTY	06/27/75	03/03/03	11/04/09	03/03/03	No					
370079#	RED CROSS, TOWN OF	STANLY COUNTY		09/03/08	06/16/09	07/29/10	No					
370516#	RED OAK, TOWN OF	NASH COUNTY		01/20/82	06/18/13	01/22/99	No					
370204#	RED SPRINGS, TOWN OF	ROBESON COUNTY	04/01/77	05/01/87	01/05/07	05/01/87	No					
370209#	REIDSVILLE, CITY OF	ROCKINGHAM COUNTY	08/01/75	09/29/78	09/28/07	09/29/78	No					
370643#	RENNERT, TOWN OF	ROBESON COUNTY		01/19/05	01/05/07	06/23/11	No					
370041#	RHODHISS, TOWN OF	BURKE COUNTY/CALDWELL COUNTY	06/21/74	07/03/86	07/07/09	07/03/86	No					
370176#	RICH SQUARE, TOWN OF	NORTHAMPTON COUNTY		02/04/09	(NSFHA)	04/25/19	No					
370511#	RICHFIELD, TOWN OF	STANLY COUNTY		09/21/00	06/16/09(M)	01/31/12	No					
370341K	RICHLANDS, TOWN OF	ONSLOW COUNTY	07/11/75	07/03/86	06/19/20	07/03/86	No					
370348#	RICHMOND COUNTY*	RICHMOND COUNTY	07/28/78	09/06/89	07/07/14	09/06/89	No					
370432K	RIVER BEND, TOWN OF	CRAVEN COUNTY	05/14/82	08/19/86	06/15/22	08/19/86	No	05/01/10	05/01/10	В	10%	05%
370117#	ROANOKE RAPIDS, CITY OF	HALIFAX COUNTY	03/08/74	04/17/78	02/04/09	04/17/78	No					
370166#	ROBBINS, TOWN OF	MOORE COUNTY	11/22/74	07/03/86	01/02/08	07/03/86	No					
370106#	ROBBINSVILLE, TOWN OF	GRAHAM COUNTY	06/14/74	12/01/89	04/19/10	12/01/89	No					
370156#	ROBERSONVILLE, TOWN OF	MARTIN COUNTY	06/07/74	07/01/87	02/04/09	07/01/87	No					
370202K	ROBESON COUNTY *	ROBESON COUNTY	07/28/78	02/17/89	12/06/19	02/17/89	No					
370350#	ROCKINGHAM COUNTY*	ROCKINGHAM COUNTY	06/16/78	05/15/91	01/02/09	05/15/91	No					
370201#	ROCKINGHAM, CITY OF	RICHMOND COUNTY	06/11/76	09/06/89	09/03/08	09/06/89	No					
370214#	ROCKWELL, TOWN OF	ROWAN COUNTY	03/08/74	05/15/78	06/16/09	05/15/78	No					
370092#	ROCKY MOUNT, CITY OF	EDGECOMBE COUNTY/NASH COUNTY	03/01/74	05/01/78	06/18/13	05/01/78	No	10/01/92	10/01/19	7	15%	05%
	THE TOWN OF BATTLEBORO (370088) EDGECOMBE COUNTY, WAS MERGED INTO THE CITY OF ROCKY MOUNT EFFECTIVE 7-1-96.											
370468K	ROLESVILLE, TOWN OF	WAKE COUNTY		03/03/92	07/19/22	07/31/01	No					
370258#	RONDA, TOWN OF	WILKES COUNTY	09/06/74	07/03/86	12/03/09(M)		No					
370421#	ROPER, TOWN OF	WASHINGTON COUNTY	06/21/74	08/05/85	02/04/09	08/05/85	No	10/01/94	10/01/99	в	10%	05%
	FORMERLY UNDER WASHINGTON COUNTY											
370375#	ROSE HILL, TOWN OF	DUPLIN COUNTY		02/16/06	02/16/07	07/17/06	No					
375358#	ROSMAN, TOWN OF	TRANSYLVANIA COUNTY	06/03/72	06/02/72	04/19/10	06/02/72	No					
370351B	ROWAN COUNTY *	ROWAN COUNTY	07/28/78	11/01/79	11/16/18	11/01/79	No					
370347K	ROXBORO, CITY OF	PERSON COUNTY	01/13/78	09/14/90	12/06/19	03/25/91	No					
370605#	ROXOBEL, TOWN OF	BERTIE COUNTY	21110110	02/04/09	08/03/09	02/04/09	No					
				52.01.00	00,00,00	52,01,00						

USACE NWP 18 Permit Verification and Jurisdictional Determination with Site Plans showing Wetland Impacts, Pre-Construction Notification (PCN) Form, and JD Request

U.S. ARMY CORPS OF ENGINEERS WILMINGTON DISTRICT

Action Id. SAW-2023-00404 County: Robeson County U.S.G.S. Quad: Saint Pauls

GENERAL PERMIT (REGIONAL AND NATIONWIDE) VERIFICATION

- Permittee: Town of St. Pauls Attn: Mayor Elbert Gibson
- Address: <u>210 West Blue Street</u> <u>St. Pauls, NC</u>

Telephone Number: (910) 865-5165

E-mail Address: debra@stpaulsnc.gov

Size (acres)	4.03	Nearest Town	<u>St. Pauls, NC</u>
Nearest Waterway	Big Branch	River Basin	Lower Pee Dee
USGS HUC	03040203	Coordinates La	atitude: <u>34.7989</u>
		Lc	ongitude: -78.9681

Location description: <u>This project will take place in the vicinity of South Johnson Street, East</u> <u>Clark Street and East Ross Street in the Town of St. Pauls, Robeson County, NC (Parcel ID:</u> 030890981900).

Description of projects area and activity: <u>A NWP 18 will be used to permanently impact 0.072-acres of 404 wetlands for the use in flood and drainage improvements for the Town of St.</u> Pauls.

Applicable Law: Section 404 (Clean Water Act, 33 USC 1344); Section 10 (Rivers and Harbors Act, 33 USC 403)

Authorization: Regional General Permit Number and/or Nationwide Permit Number: <u>18</u> SEE ATTACHED RGP or NWP GENERAL, REGIONAL AND/OR SPECIAL CONDITIONS

Your work is authorized by the above referenced permit provided it is accomplished in strict accordance with the attached conditions and your submitted application and attached information dated <u>February 13, 2023 & March 17, 2023</u> Any violation of the attached conditions or deviation from your submitted plans may subject the permittee to a stop work order, a restoration order, a Class I administrative penalty, and/or appropriate legal action.

This verification will remain valid until the expiration date identified below unless the nationwide and/or regional general permit authorization is modified, suspended or revoked. If, prior to the expiration date identified below, the nationwide and/or regional general permit authorization is reissued and/or modified, this verification will remain valid until the expiration date identified below, provided it complies with all requirements of the modified nationwide permit. If the nationwide and/or regional general permit authorization expires or is suspended, revoked, or is modified, such that the activity would no longer comply with the terms and conditions of the nationwide permit, activities which have commenced (i.e., are under construction) or are under contract to commence in reliance upon the nationwide and/or regional general permit, will remain authorized provided the activity is completed within twelve months of the date of the nationwide and/or regional general permit's

SAW-2023-00404

expiration, modification or revocation, unless discretionary authority has been exercised on a caseby-case basis to modify, suspend or revoke the authorization.

Activities subject to Section 404 (as indicated above) may also require an individual Section 401 Water Quality Certification. You should contact the NC Division of Water Resources (telephone 919-807-6300) to determine Section 401 requirements.

For activities occurring within the twenty coastal counties subject to regulation under the Coastal Area Management Act (CAMA), prior to beginning work you must contact the N.C. Division of Coastal Management in Morehead City, NC, at (252) 808-2808.

This Department of the Army verification does not relieve the permittee of the responsibility to obtain any other required Federal, State or local approvals/permits.

If there are any questions regarding this verification, any of the conditions of the Permit, or the Corps of Engineers regulatory program, please contact <u>Gary Beecher at (910) 251-4694 or</u> <u>Gary.H.Beecher@usace.army.mil</u>.

Corps Regulatory Official: _____ Date: <u>April 11, 2023</u> Expiration Date of Verification: <u>NWP 18 expires on March 14, 2026</u>

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at https://regulatory.ops.usace.army.mil/customer-service-survey/

Copy furnished via e-mail to:

Consultant:

Jon Swaim McGill Associates, PA (828) 328-2024 Jon.swaim@mcgillassociates.com

U.S. ARMY CORPS OF ENGINEERS

WILMINGTON DISTRICT

Action Id. SAW-2023-00404

County: Robeson County

NOTIFICATION OF JURISDICTIONAL DETERMINATION

- Permittee: <u>Town of St. Pauls</u> Attn: Mayor Elbert Gibson
- Address: <u>210 West Blue Street</u> <u>St. Pauls, NC</u>

Telephone Number: (910) 865-5165

E-mail Address: debra@stpaulsnc.gov

Size (acres)	4.03	Nearest Town St. Pauls	s, NC
Nearest Waterway	Big Branch	River Basin Lower P	ee Dee
USGS HUC	03040203	Coordinates Latitude:	<u>34.7989</u>
		Longitude:	-78.9681

Indicate Which of the Following Apply:

A. Preliminary Determination

- X There appear to be waters, including wetlands, on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.
- There appear to be waters, including wetlands, on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). The waters, including wetlands, have been delineated, and the delineation has been verified by the Corps to be sufficiently accurate and reliable. Therefore this preliminary jurisdiction determination may be used in the permit evaluation process, including determining compensatory mitigation. For purposes of computation of impacts, compensatory mitigation requirements, and other resource protection measures, a permit decision made on the basis of a preliminary JD will treat all waters and wetlands that would be affected in any way by the permitted activity on the site as if they are jurisdictional waters of the U.S. This Page 3 of 2

preliminary determination is not an appealable action under the Regulatory Program Administrative Appeal Process (Reference 33 CFR Part 331). However, you may request an approved JD, which is an appealable action, by contacting the Corps district for further instruction.

_ There appear to be waters, including wetlands, on the above described property, that may be subject to Section 404 of the Clean Water Act (CWA)(33 USC § 1344) and/or Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403). However, since thewaters, including wetlands, have not been properly delineated, this preliminary jurisdiction determination may not be used in the permit evaluation process. Without a verified wetland delineation, this preliminary determination is merely an effective presumption of CWA/RHA jurisdiction over all of the waters, including wetlands, at the project area, which is not sufficiently accurate and reliable to support an enforceable permit decision. We recommend that you have the waters of the U.S., including wetlands, on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

B. Approved Determination

- There are Navigable Waters of the United States within the above described property subject to the permit requirements of Section 10 of the Rivers and Harbors Act (RHA) (33 USC § 403) and Section 404 of the Clean Water Act (CWA)(33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.
- There are waters of the U.S., including wetlands, on the above described property subject to the permit requirements of Section 404 of the Clean Water Act (CWA) (33 USC § 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

We recommend you have the waters of the U.S., including wetlands, on your property delineated. As the Corps may not be able to accomplish this wetland delineation in a timely manner, you may wish to obtain a consultant to conduct a delineation that can be verified by the Corps.

_ The waters of the U.S., including wetlands, on your property have been delineated and the delineation has been verified by the Corps. We strongly suggest you have this delineation surveyed. Upon completion, this survey should be reviewed and verified by the Corps. Once verified, this survey will provide an accurate depiction of all areas subject to CWA jurisdiction on your property which, unless there is a change in law or our published regulations, may be relied upon for a period not to exceed five years from the date of this notification.

_ The waters of the U.S., including wetlands, have been delineated and surveyed and are accurately depicted on the plat signed by the Corps Regulatory Official identified below on ______. Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

There are no waters of the U.S., to include wetlands, present on the above described property which are subject to the permit requirements of Section 404 of the Clean Water Act (33 USC 1344). Unless there is a change in law or our published regulations, this determination may be relied upon for a period not to exceed five years from the date of this notification.

The property is located in one of the 20 Coastal Counties subject to regulation under the Coastal Area Management Act (CAMA). You should contact the Division of Coastal Management in Morehead City, NC, at (252) 808-2808 to determine their requirements.

Placement of dredged or fill material within waters of the US, including wetlands, without a Department of the Army permit may constitute a violation of Section 301 of the Clean Water Act (33 USC § 1311). Placement of dredged or fill material, construction or placement of structures, or work within navigable waters of the United States without a Department of the Army permit may constitute a violation of Sections 9 and/or 10 of the Rivers and Harbors Act (33 USC § 401 and/or 403). If you have any questions regarding this determination and/or the Corps regulatory program, please contact **Gary Beecher at (910) 251-4694 or Gary.H.Beecher@usace.army.mil**.

C. Basis For Determination: N/A. An Approved JD has not been completed.

D. Remarks: <u>A desk top review was conducted on this application using information obtained</u> <u>from the consultant (McGill Associates, P.A.) and from Corps generated Lidar and soils Maps.</u>

E. Attention USDA Program Participants

The delineation included herein has been conducted to identify the location and extent of the aquatic resource boundaries and/or the jurisdictional status of aquatic resources for purposes of the Clean Water Act for the particular site identified in this request. This delineation and/or jurisdictional determination may not be valid for the Wetland Conservation Provisions of the Food Security Act of 1985, as amended. If you or your tenant are USDA program participants, or anticipate participation in USDA programs, you should discuss the applicability of a certified wetland determination with the local USDA service center, prior to starting work.

F. Appeals Information for Approved Jurisdiction Determinations (as indicated in Section B. above)

If you object to this determination, you may request an administrative appeal under Corps regulations at 33 CFR Part 331. Enclosed you will find a Notification of Appeal Process (NAP) fact sheet and Request for Appeal (RFA) form. If you request to appeal this determination you must submit a completed RFA form to the following address:

US Army Corps of Engineers South Atlantic Division Attn: Mr. Philip A. Shannin Administrative Appeal Review Officer 60 Forsyth Street SW, Floor M9 Atlanta, Georgia 30303-8803 <u>AND</u> PHILIP.A.SHANNIN@USACE.ARMY.MIL

In order for an RFA to be accepted by the Corps, the Corps must determine that it is complete, that it meets the criteria for appeal under 33 CFR part 331.5, and that it has been received by the Division Office within 60 days of the date of the NAP. Should you decide to submit an RFA form, it must be received at the above address by N/A.

It is not necessary to submit an RFA form to the Division Office if you do not object to the determination in this correspondence.

Corps Regulatory Official:

Date of JD: April 11, 2023 Expiration Date: PJD does not expire

The Wilmington District is committed to providing the highest level of support to the public. To help us ensure we continue to do so, please complete our Customer Satisfaction Survey, located online at https://regulatory.ops.usace.army.mil/customer-service-survey/.

Copy Furnished via email to:

Consultant:

<u>Jon Swaim</u> <u>McGill Associates, PA</u> (828) 328-2024 <u>Jon.swaim@mcgillassociates.com</u>

SAW-2023-00404

SPECIAL CONDITIONS

<u>1. Erosion Control:</u> The permittee shall employ all sedimentation and erosion control measures necessary to prevent an increase in sedimentation or turbidity within waters and wetlands outside the permit area. This shall include, but is not limited to, the immediate installation of silt fencing or similar appropriate devices around all areas subject to soil disturbance or the movement of earthen fill, and the immediate stabilization of all disturbed areas. Additionally, the project must remain in full compliance with all aspects of the Sedimentation Pollution Control Act of 1973 (North Carolina General Statutes Chapter 113A Article 4).

<u>2. Work Limits:</u> All work authorized by this permit shall be performed in strict compliance with the attached permit plans dated <u>February 13, 2023 & March 17, 2023</u>, which are a part of this permit. The Permittee shall ensure that the construction design plans for this project do not deviate from the permit plans attached to this authorization. Any modification to the attached permit plans must be approved by the U.S. Army Corps of Engineers (Corps) prior to any active construction in waters or wetlands.

<u>3. Temporary Impacts Restoration Measures:</u> Within thirty (30) days of the date of completing the authorized work, the Permittee shall remove all temporary fills in waters of the United States and restore the affected areas to pre-construction contours and elevations. The affected areas shall be re-vegetated with native, non-invasive vegetation as necessary to minimize erosion and ensure site stability.

Action ID Number: <u>SAW-2</u>	2023-00404	County: <u>Robeson County</u>
Permittee:	<u>Town of St. Pauls, A</u>	Attn: Mayor Elbert Gibson
Project Name:	Elizabeth-Johnson	St Storm Drainage Improvements
Date Verification Issued:	<u>April 11, 2023</u>	
Project Manager:	<u>Gary Beecher</u>	

Upon completion of the activity authorized by this permit and any mitigation required by the permit, sign this certification and return it to the following address:

US ARMY CORPS OF ENGINEERS WILMINGTON DISTRICT Attn: Gary Beecher

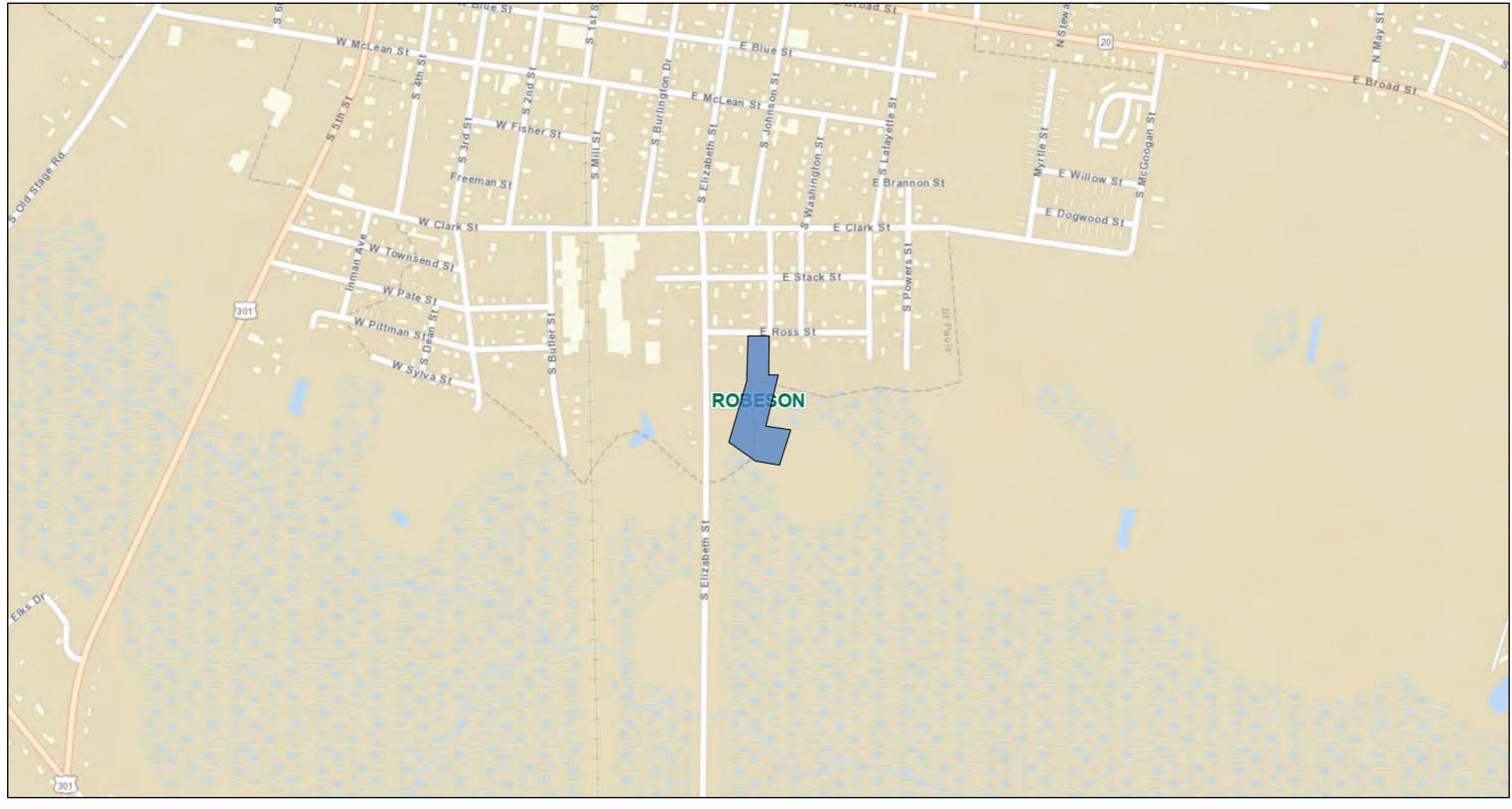
Please note that your permitted activity is subject to a compliance inspection by a U. S. Army Corps of Engineers representative. Failure to comply with any terms or conditions of this authorization may result in the Corps suspending, modifying or revoking the authorization and/or issuing a Class I administrative penalty, or initiating other appropriate legal action.

I hereby certify that the work authorized by the above referenced permit has been completed in accordance with the terms and condition of the said permit, and required mitigation was completed in accordance with the permit conditions.

Signature of Permittee

Date

NCHPO HPOWEB Map

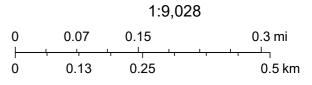


2/7/2023, 11:43:49 AM

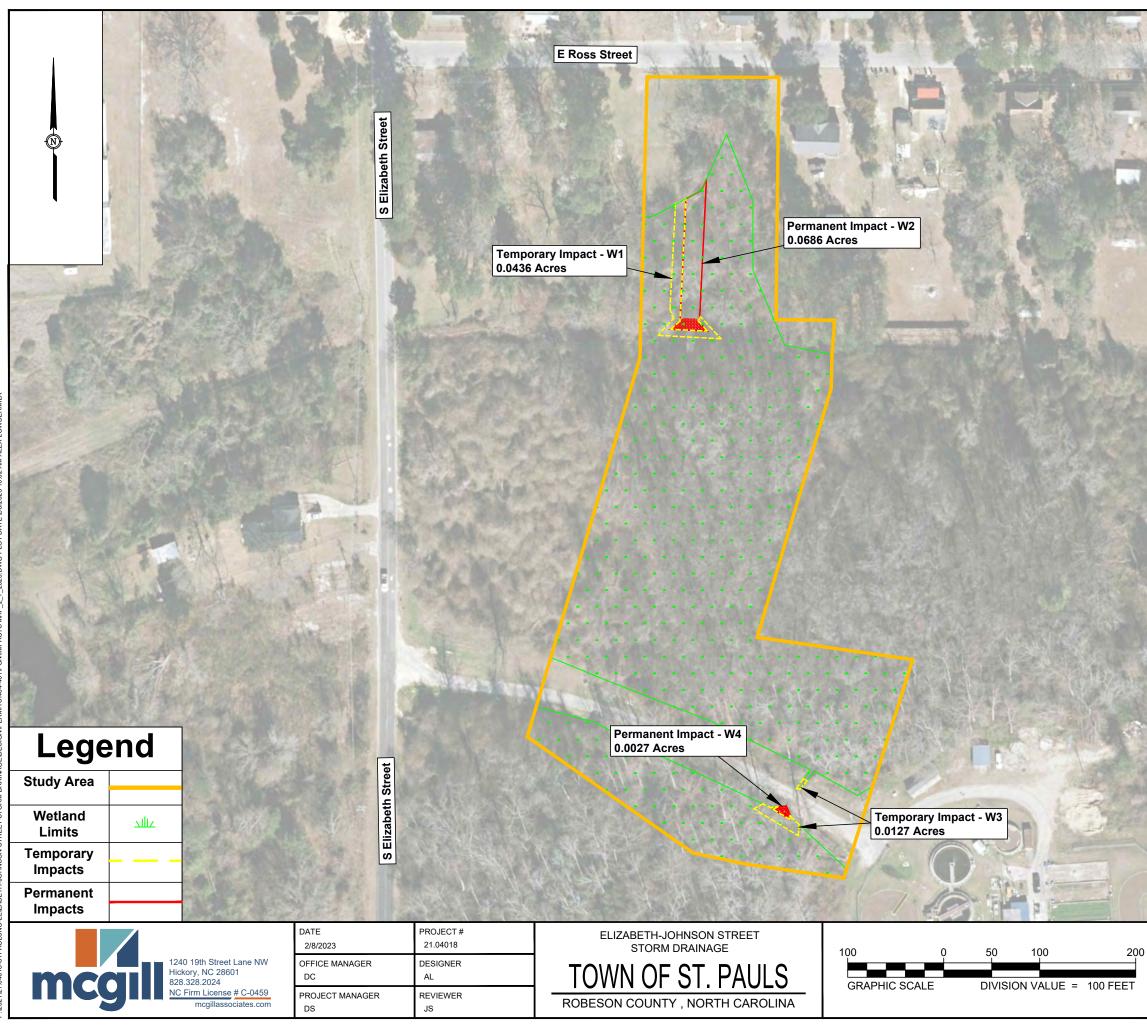


Study Area_2_6_2023

Counties (outline)

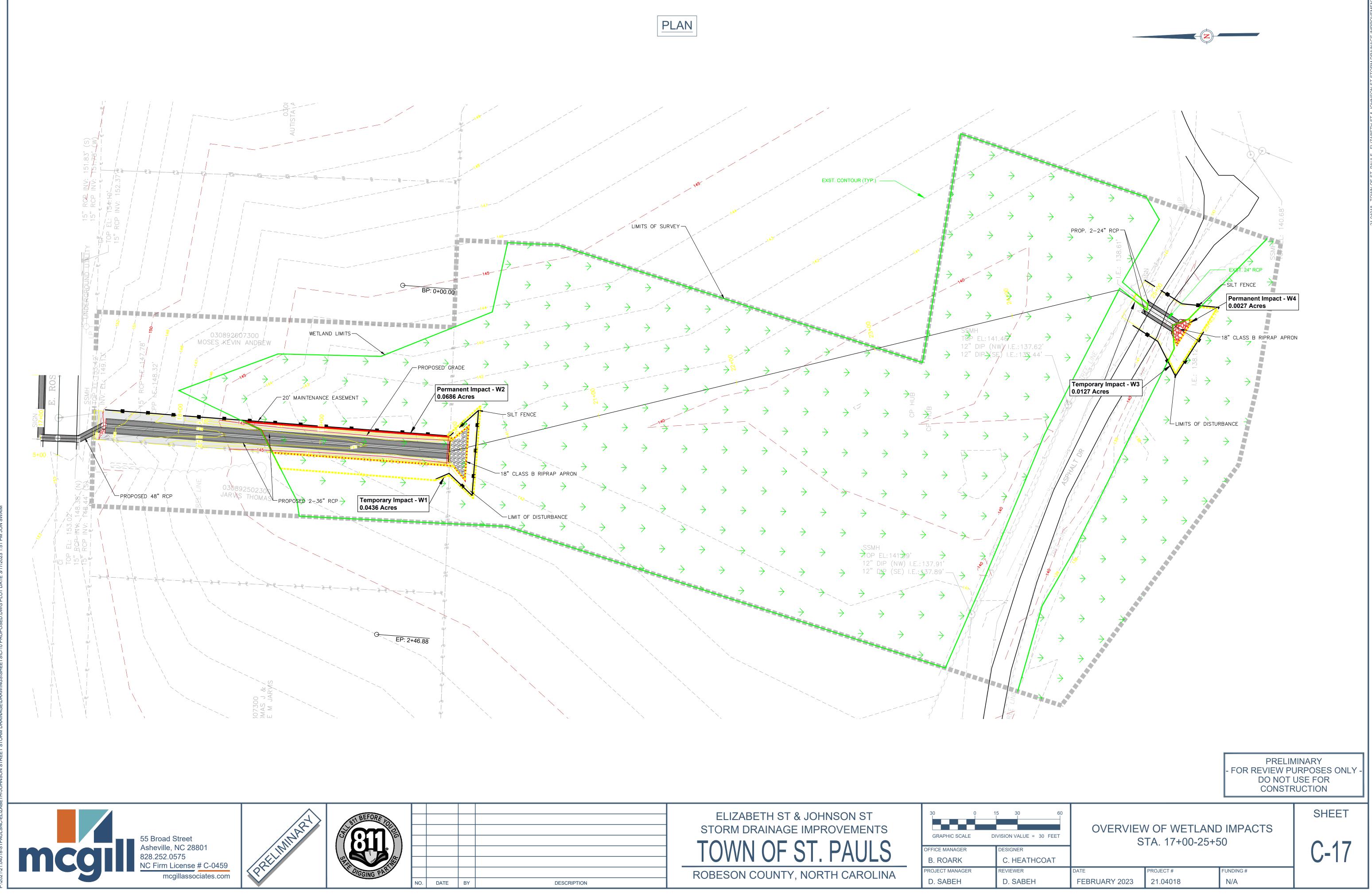


State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, Intermap, NGA, USGS



Impacts TableTemporary Impact - W1 (Wetland A)0.0436 AcresPermanent Impact - W2 (Wetland A)0.0686 AcresTemporary Impact - W3 (Wetland A)0.0127 AcresPermanent Impact - W4 (Wetland A)0.0027 Acres			
Impact - W1 (Wetland A)0.0436 AcresPermanent Impact - W2 (Wetland A)0.0686 AcresTemporary Impact - W3 (Wetland A)0.0127 AcresPermanent Impact - W40.0027 Acres	E Ross Street	Impacts Ta	ıble
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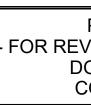
IMPACTS MAP

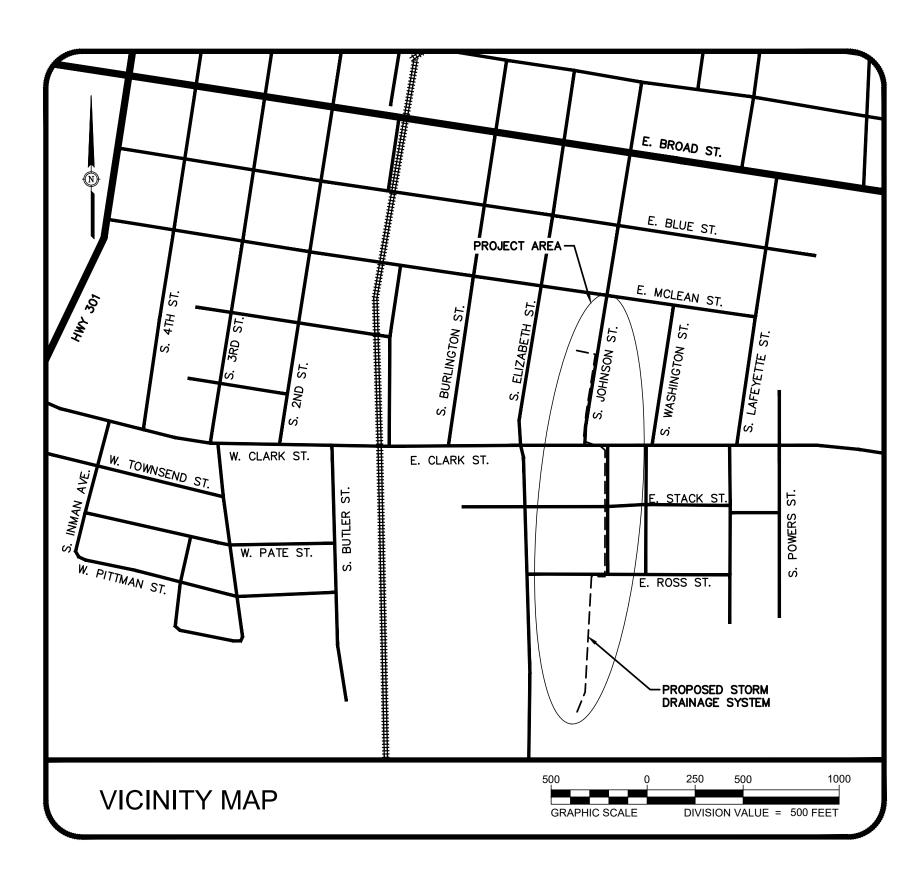


ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS TOWN OF ST. PAULS **ROBESON COUNTY, NORTH CAROLINA**

Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com

55 Broad Street





G-01	Cover
G-02	Notes &
G-03	NCDEQ
G-04	NCDEQ
CE-01	Existing
CE-02	Existing
CE-03	Existing
CE-04	Existing
C-10	Propose
C-11	Propose
C-12	Propose
C-13	Propose
C-14	Propose
C-15	Propose
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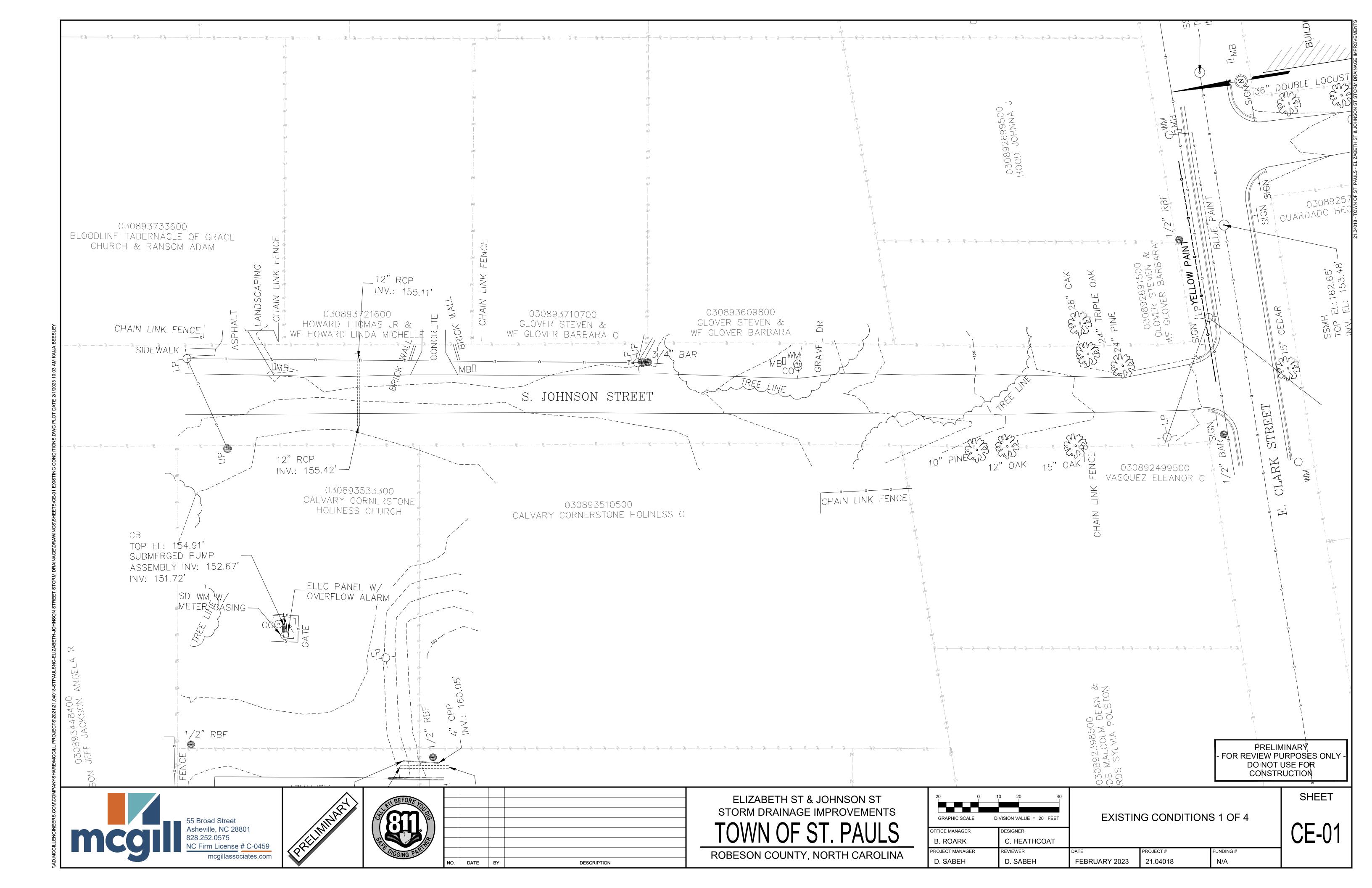
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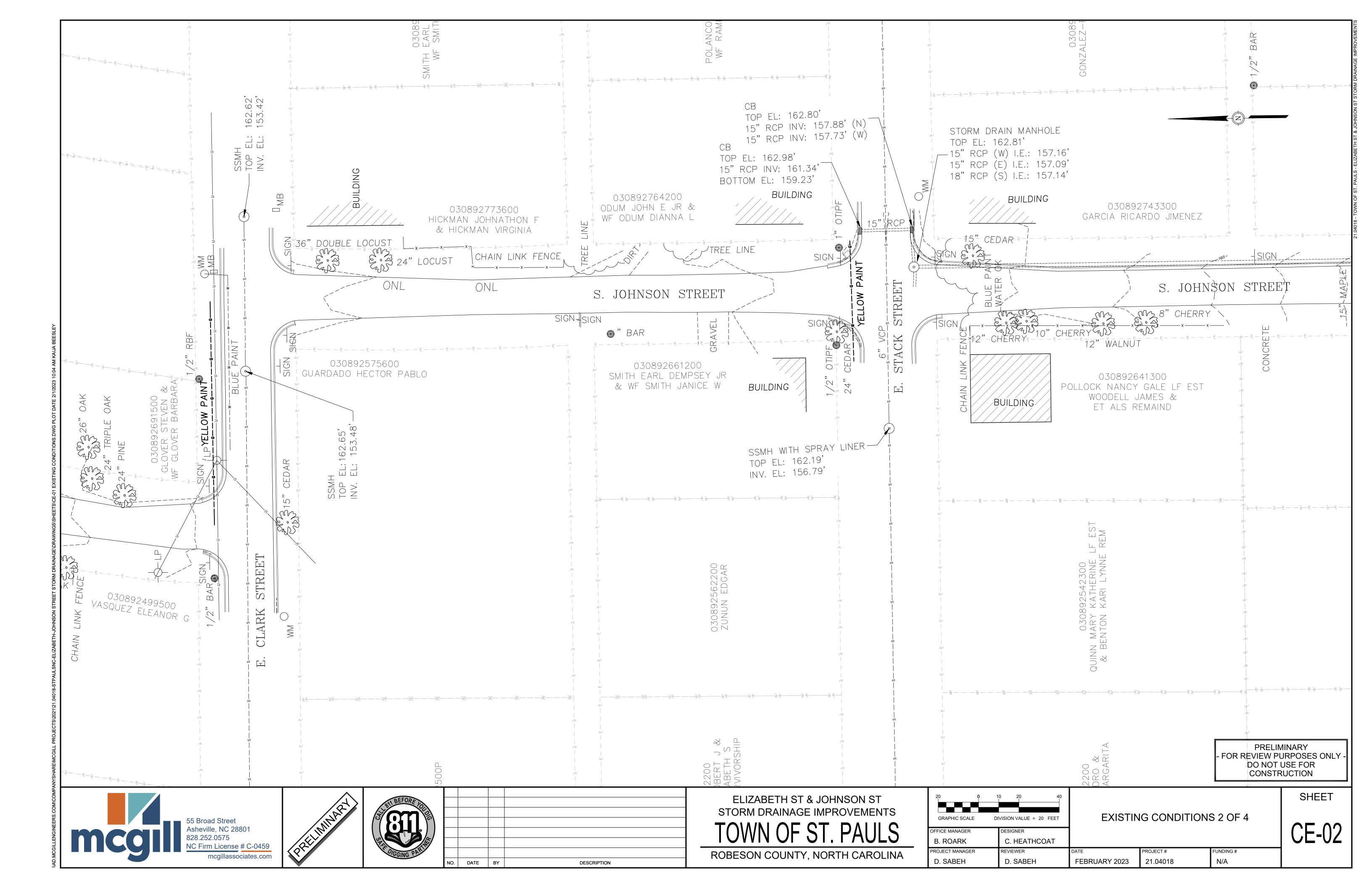


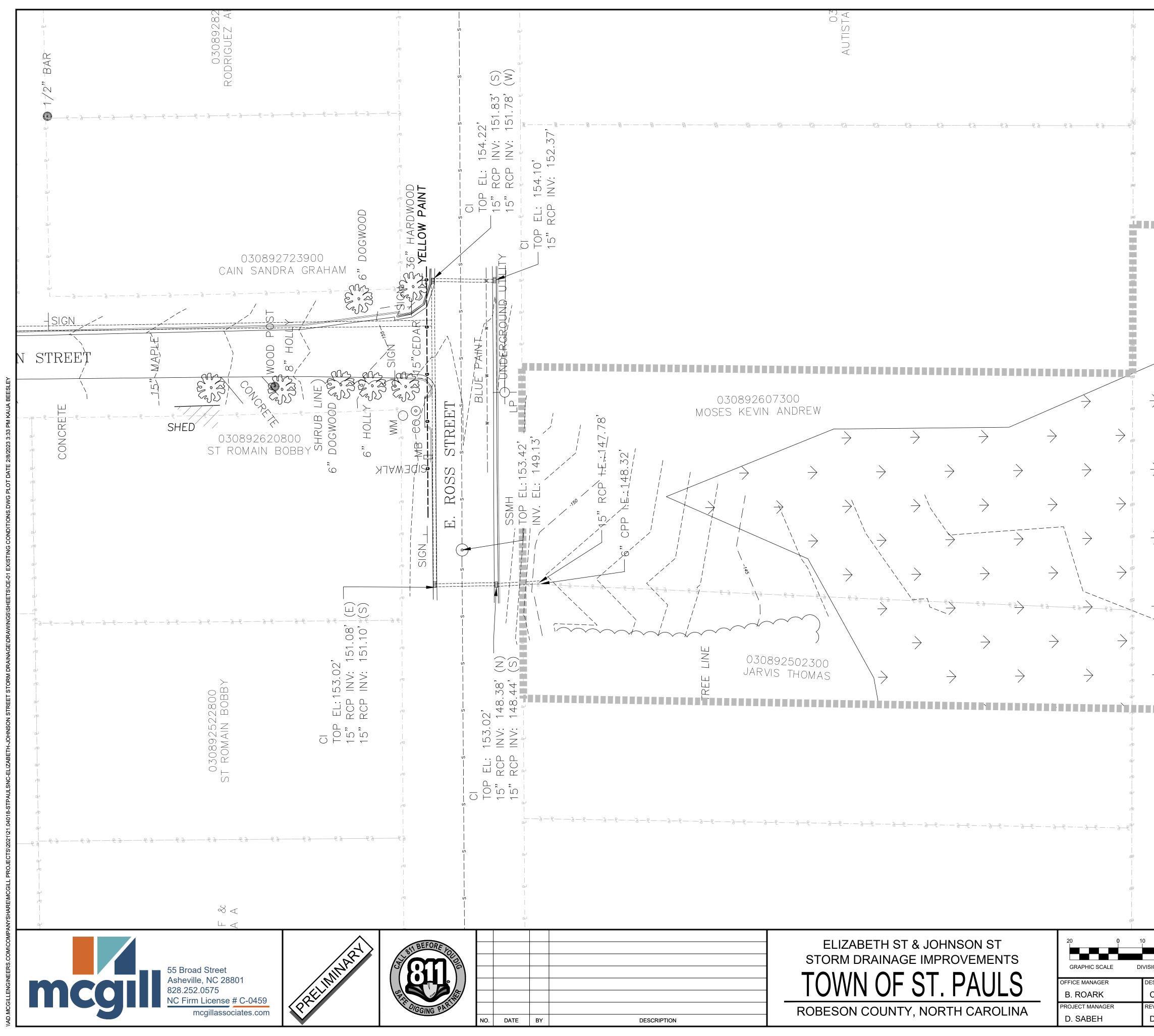
FEBRUARY 2023

SCHEDULE OF DRAWINGS

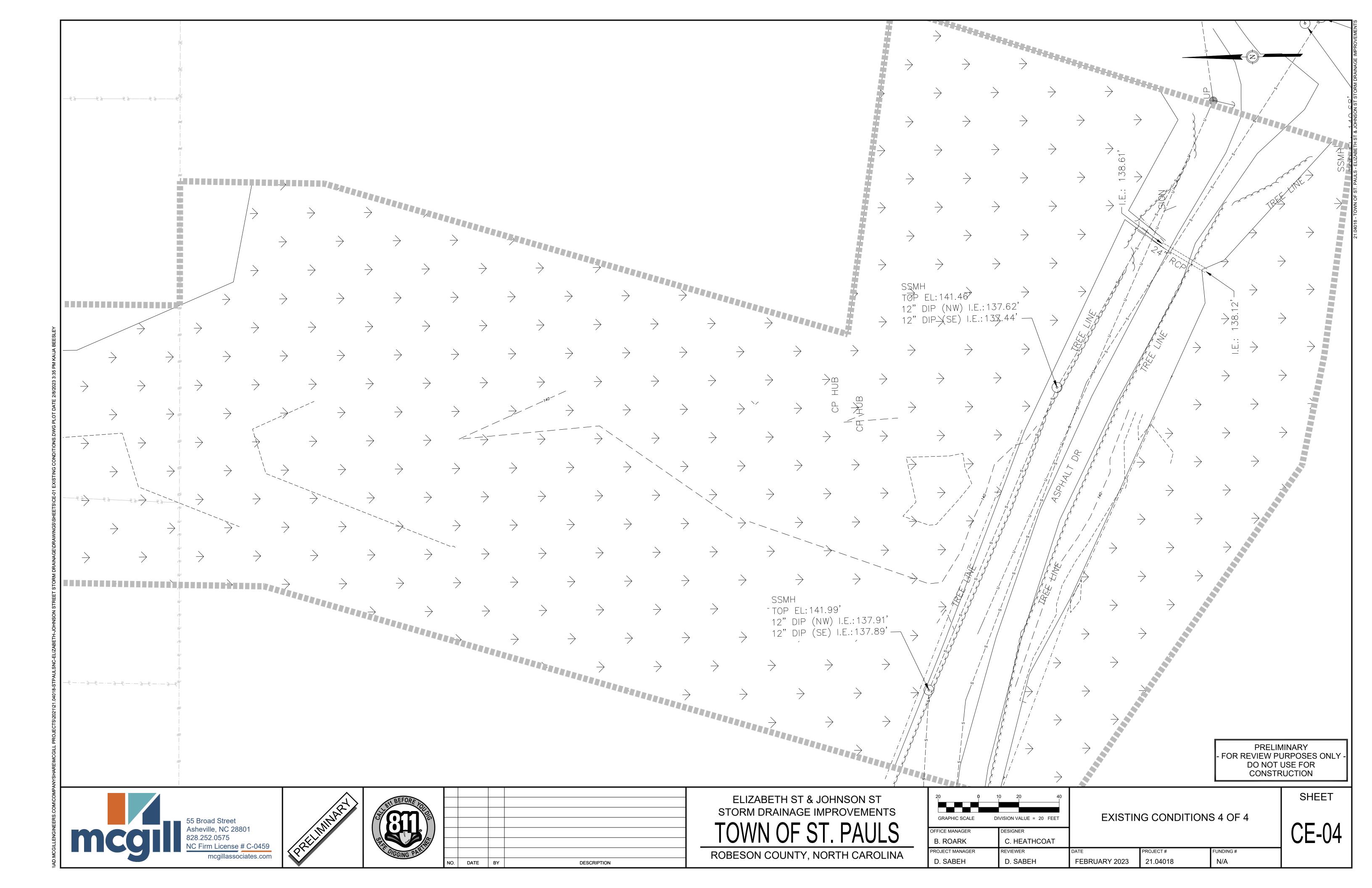
Legend General Permit Notes General Permit Note Conditions 1 of 4 Conditions 2 of 4 Conditions 3 of 4 Conditions 4 of 4 ed Plan and Profile S. Johnson St. Sta. 0+00-5+50 ed Plan and Profile E. Clark St. Sta. 6+00-7+50 ed Plan and Profile S. Johnson St. Sta. 8+00-12+00 ed Plan and Profile S. Johnson St. Sta. 12+00-15+00 ed Plan and Profile E. Ross St. Sta. 15+00-16+50 ed Plan and Profile Sta. 17+00-22+00 ed Plan and Profile Sta. 22+00-25+50 ew of Wetland Impacts Sta. 17+00-25+50 Sections Sta. 17+50-20+00 Control Details 1 of 2 Control Detail 2 of 2 aneous Details 1 of 2 aneous Details 2 of 2

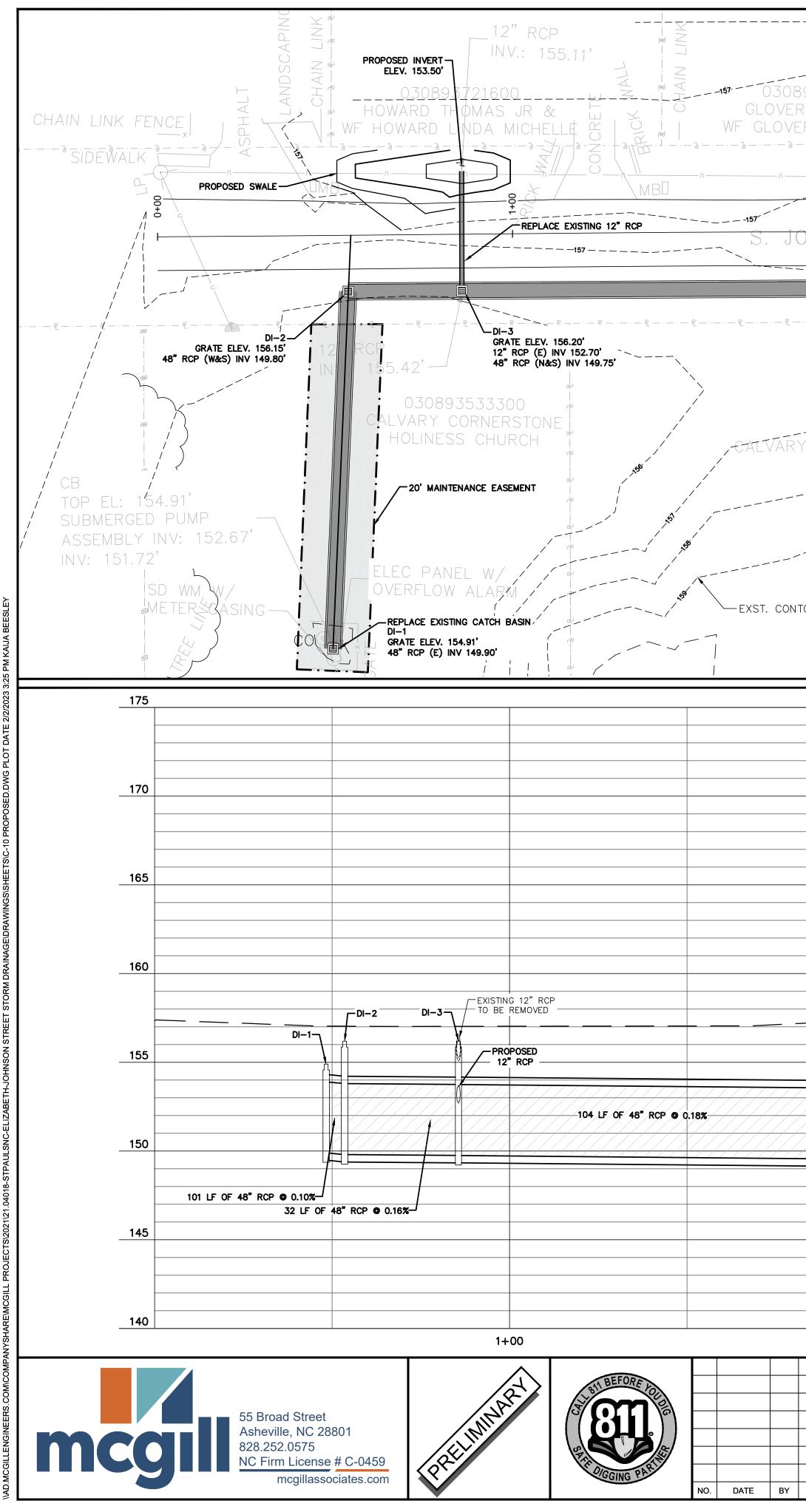




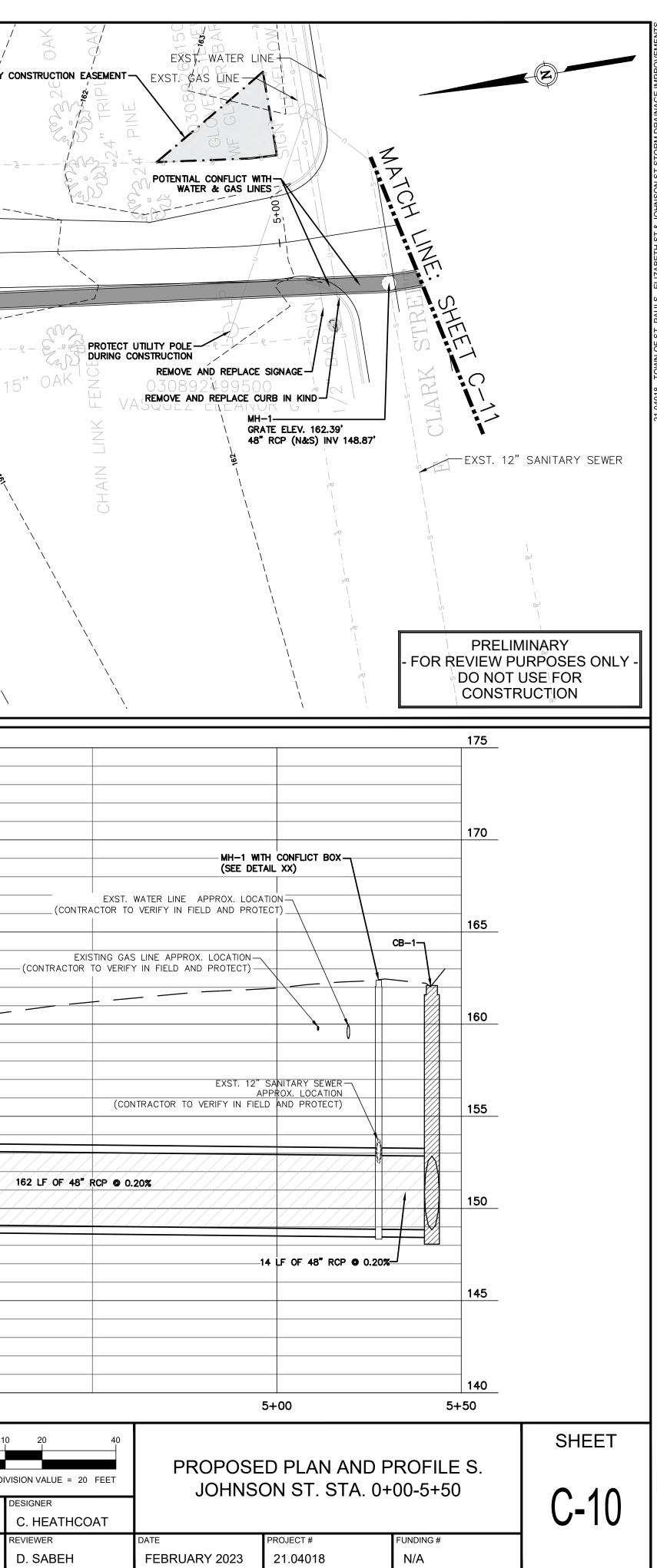


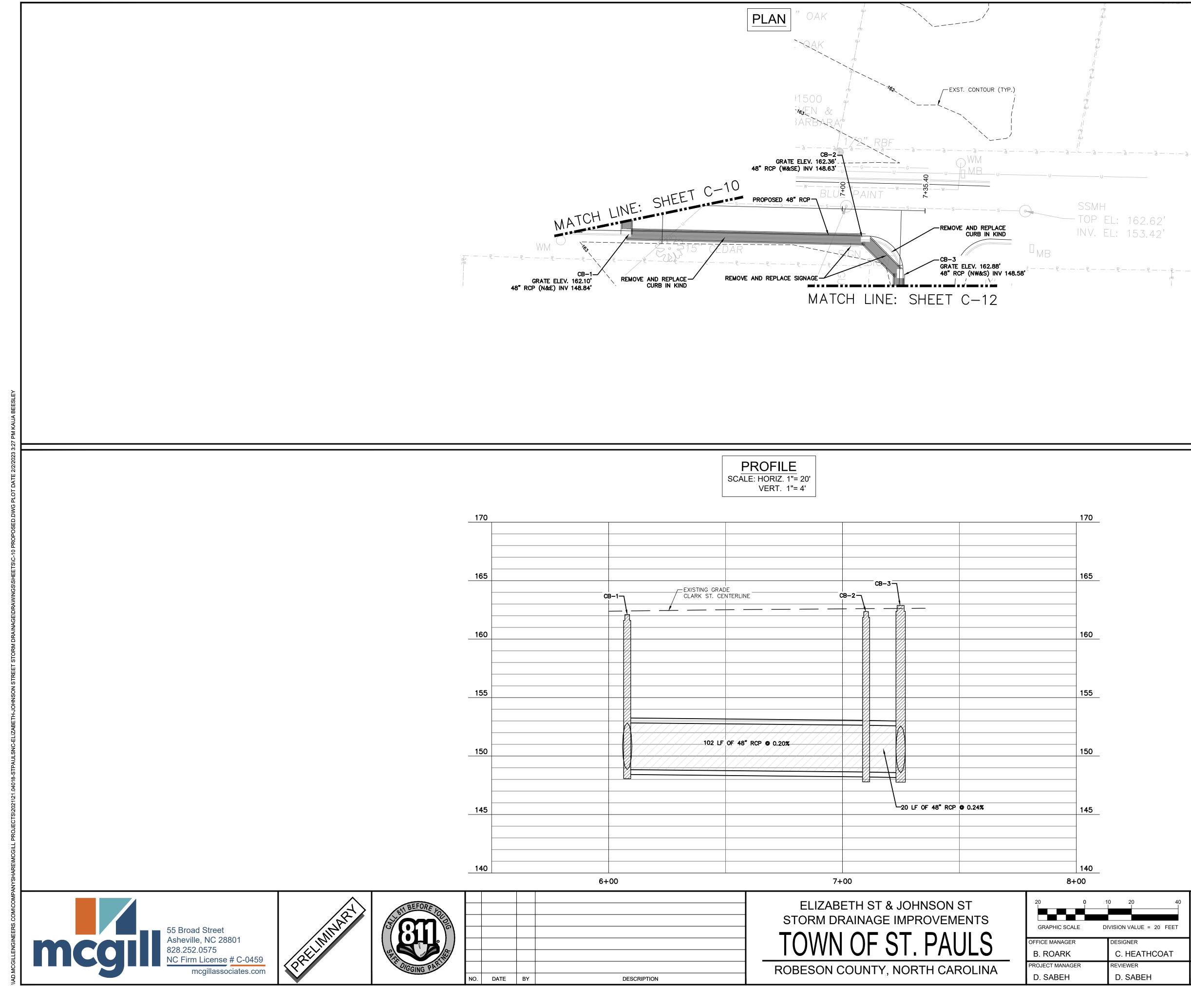
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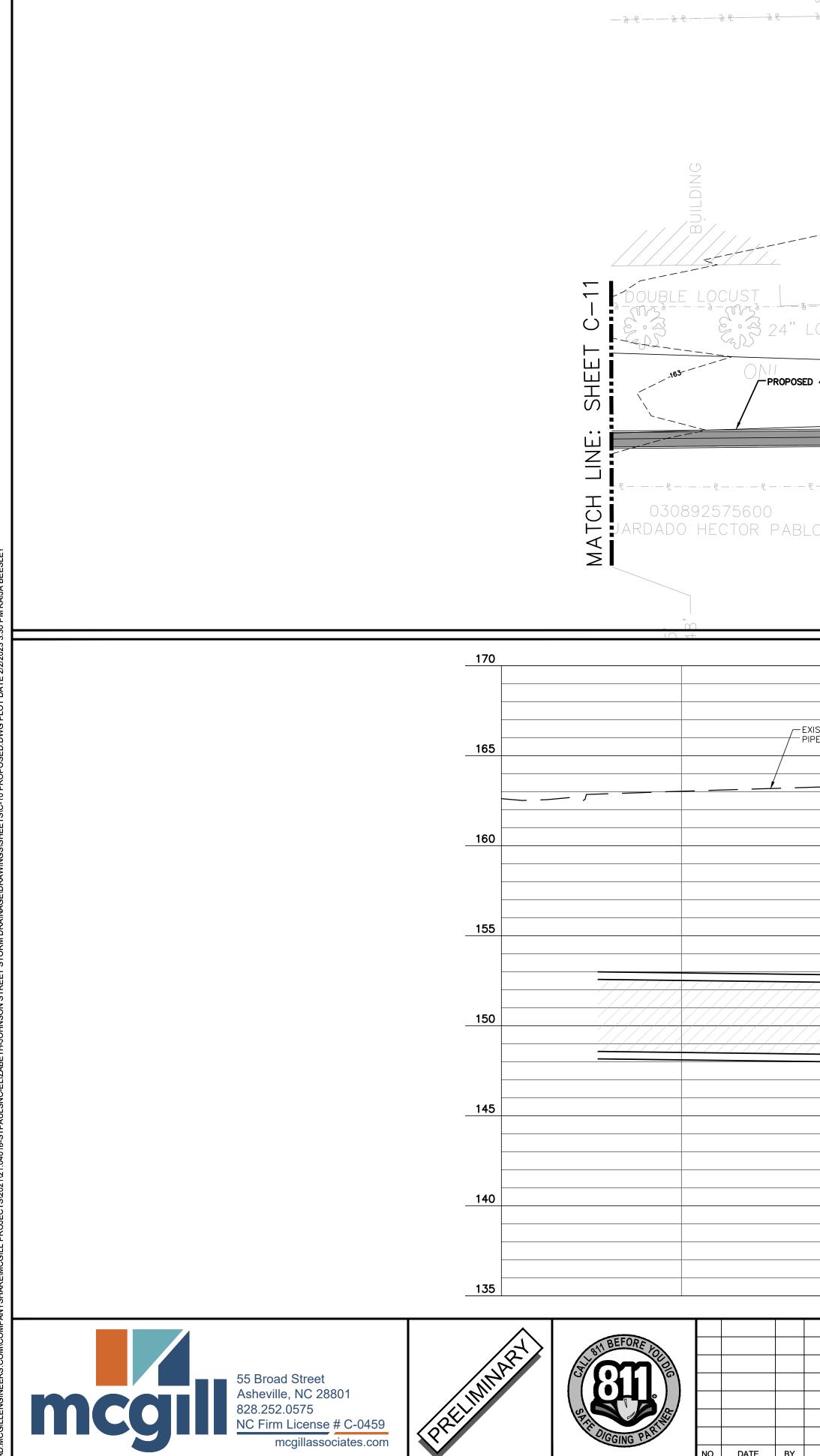


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DI-5 GRATE ELEV. 156.55' 15" RCP (E) INV 152.27' 48" RCP (N&S) INV 149.56' 			E ELEV. 158.69' RCP (N&S) INV 149.20'
	PROFILE SCALE: HORIZ. 1"= 20' VERT. 1"= 4'		
DI-5 PROPOSED 15" RCP	ROAD CENTERLINE EXISTING GRADE		
2+00	STORM DRAIN	I ST & JOHNSON ST NAGE IMPROVEMENTS OF ST. PAULS NTY, NORTH CAROLINA	4+00 20 0 10 GRAPHIC SCALE DIVISION OFFICE MANAGER DES B. ROARK CO PROJECT MANAGER RES D. SABEH E



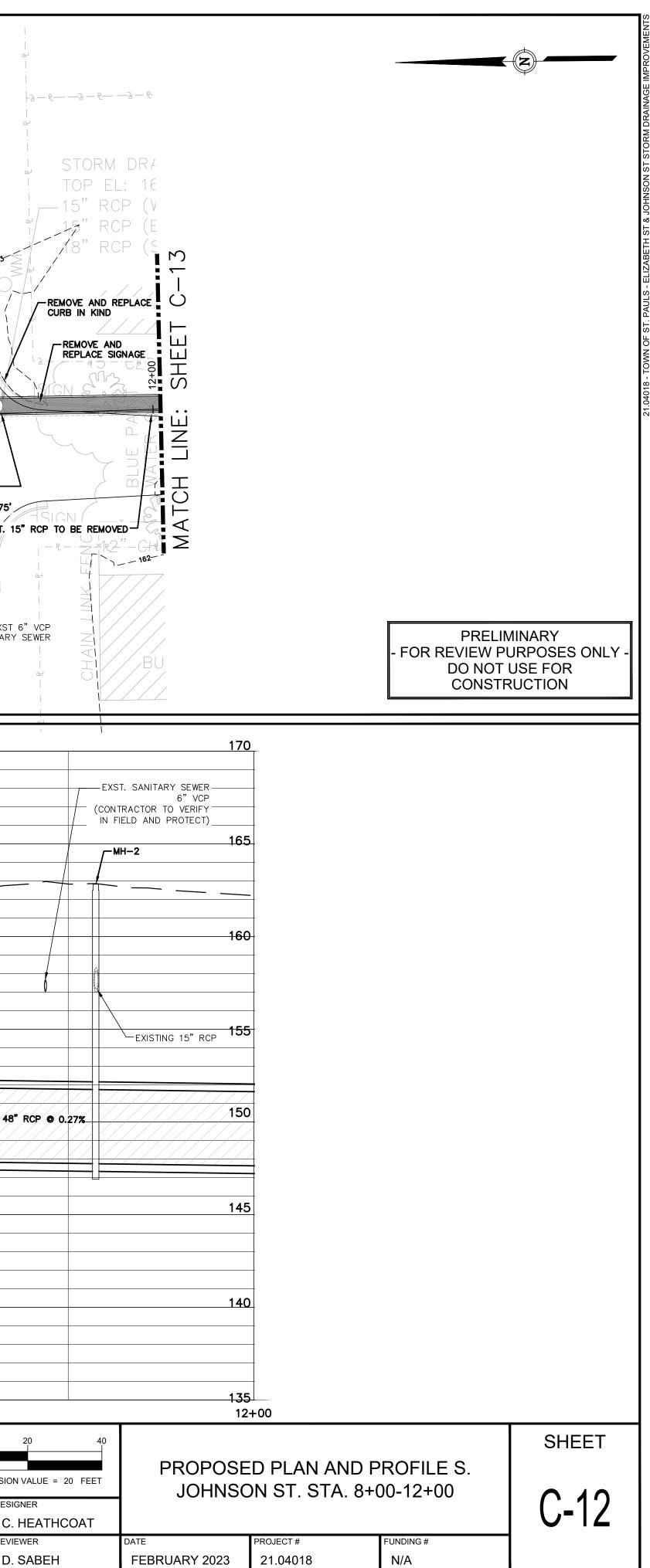


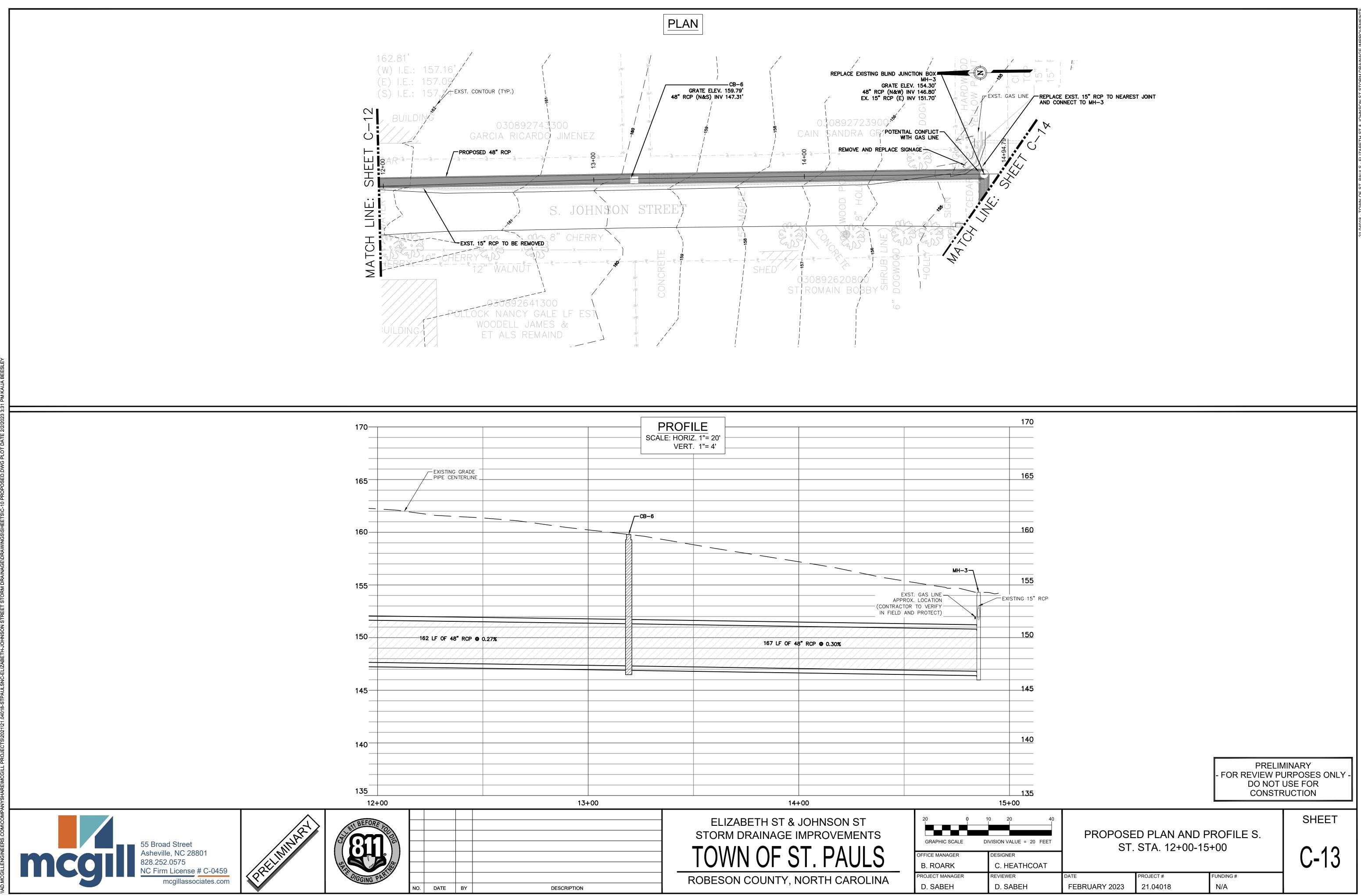
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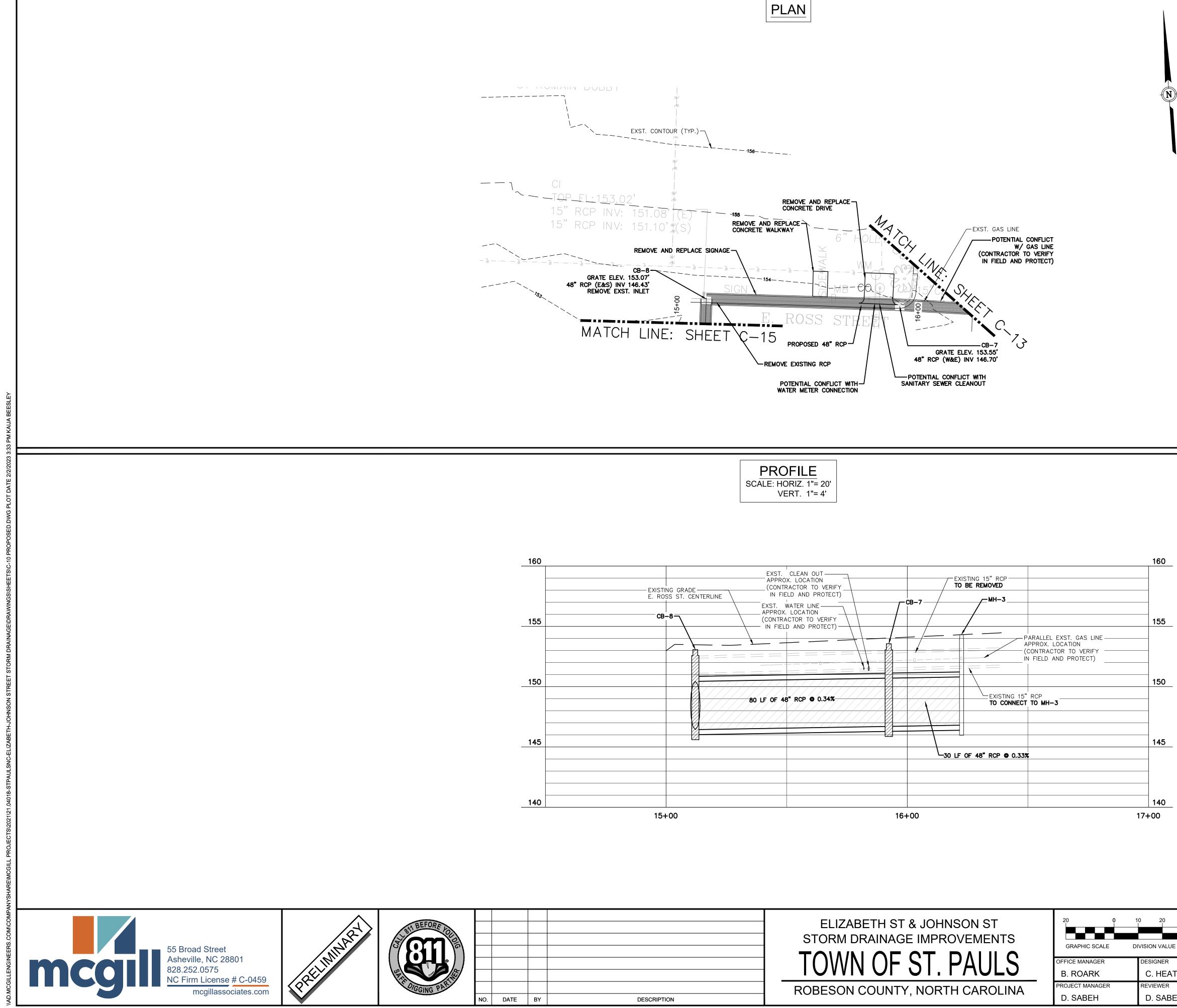
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D 48" RCP ONL	SIGNASICM © "BAR		11+00 - REPLA GRATE	ENTIAL CONFLICT WTH GAS LINE CE MH-2 ELEV. 162.83' CP (N&S) INV 147.75' EXST.
REMOVE AND SIGNAGE	REPLACE - SMITH EARL DEM & WF SMITH JA	GRATE ELEV. 16 48" RCP (N&E) INV 14 REMOVE AND REPLACE SIG REMOVE AND REPLACE CURB NICE W BUILDING	47.93' GNAGE IN KIND	EXST EXST. GAS LINE
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263 LF 0	DF 48" RCP			41 LF OF 48
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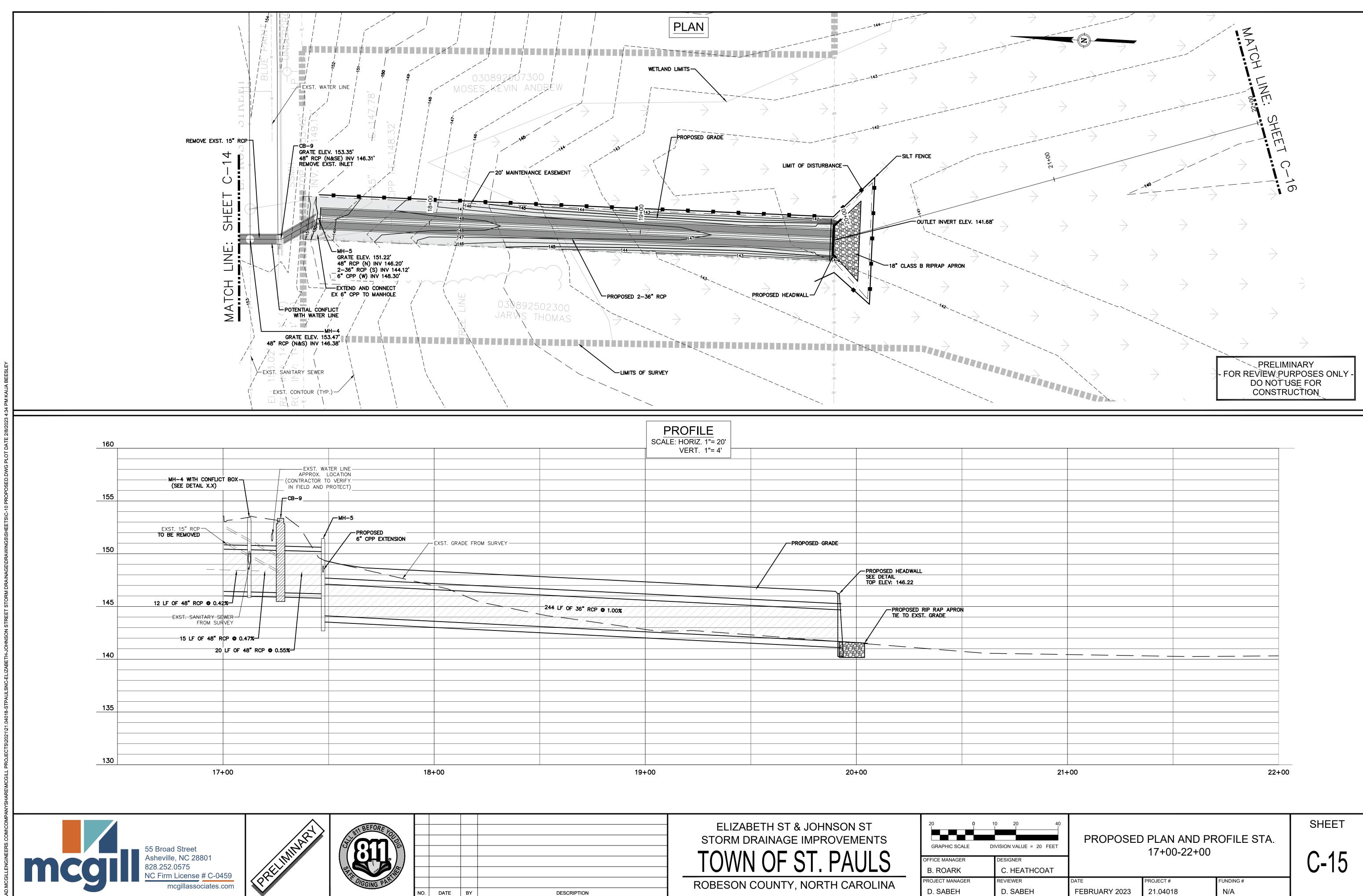


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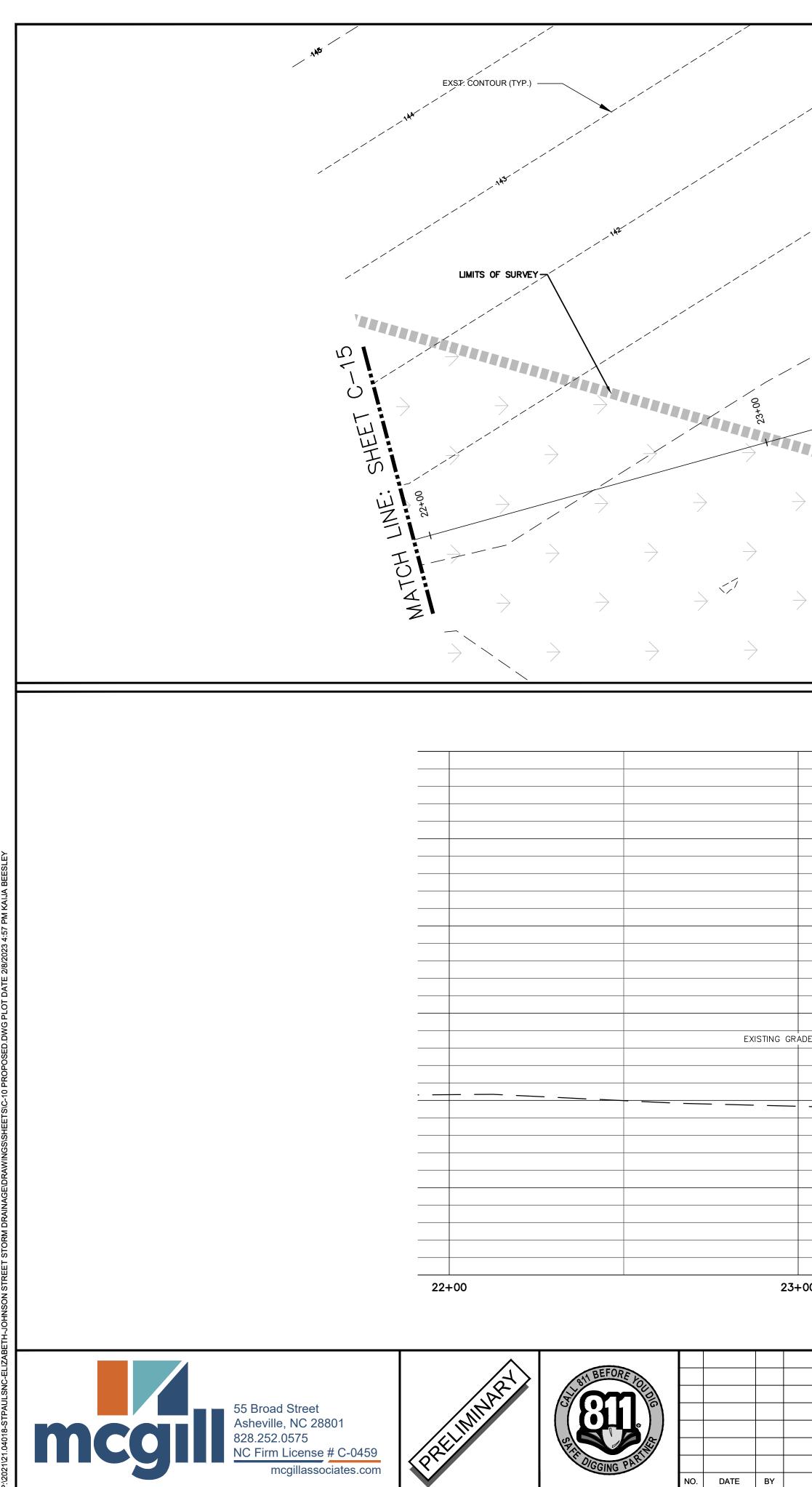
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	PROFILE SCALE: HORIZ. 1"= 20' VERT. 1"= 4'			
DM SURVEY		-PROPOSED GRADE		
244 LF OF 36" RCP @ 1.00%			PROPOSED HEADWALL SEE DETAIL TOP ELEV: 146.22 PROPOSED RIP RAP APRON TIE TO EXST. GRADE	

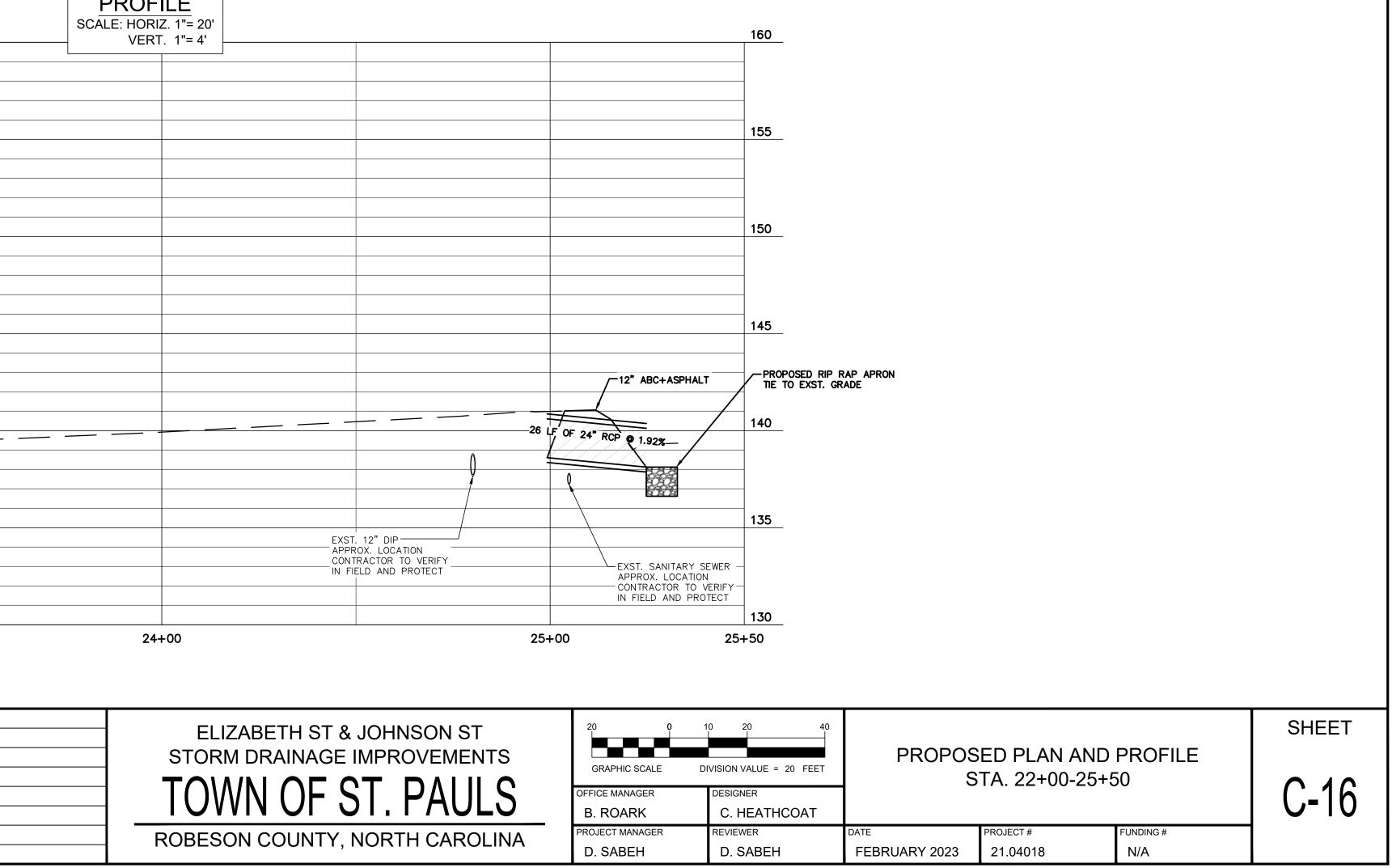
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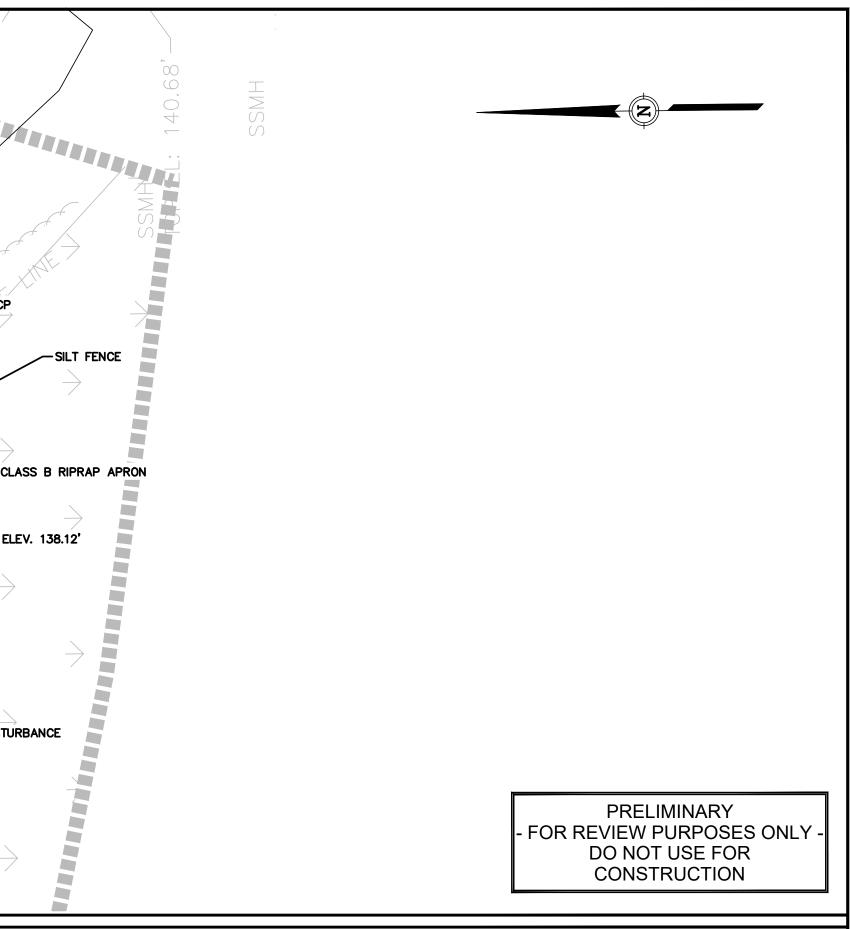


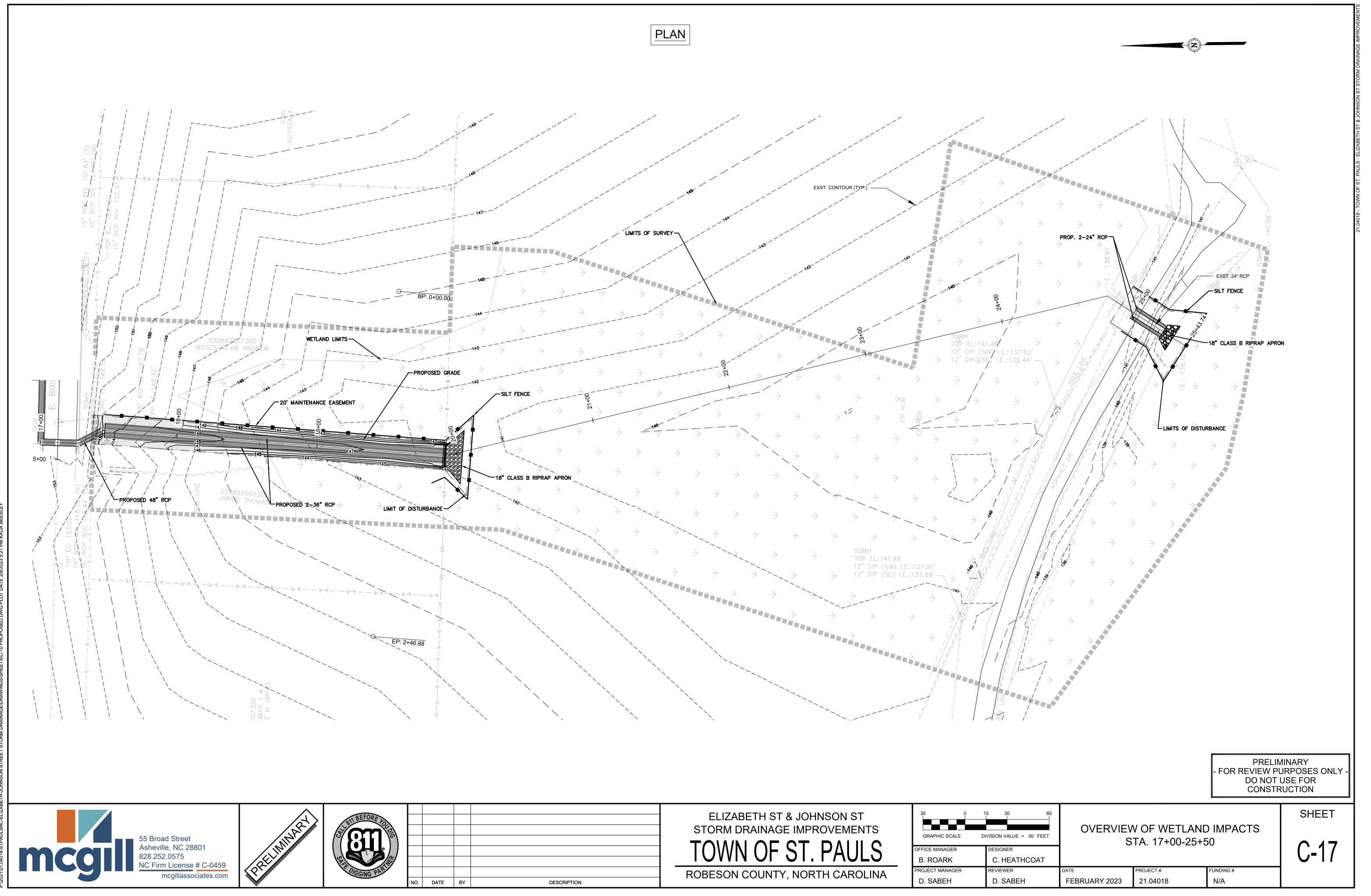
			PLAN	\rightarrow	\rightarrow			
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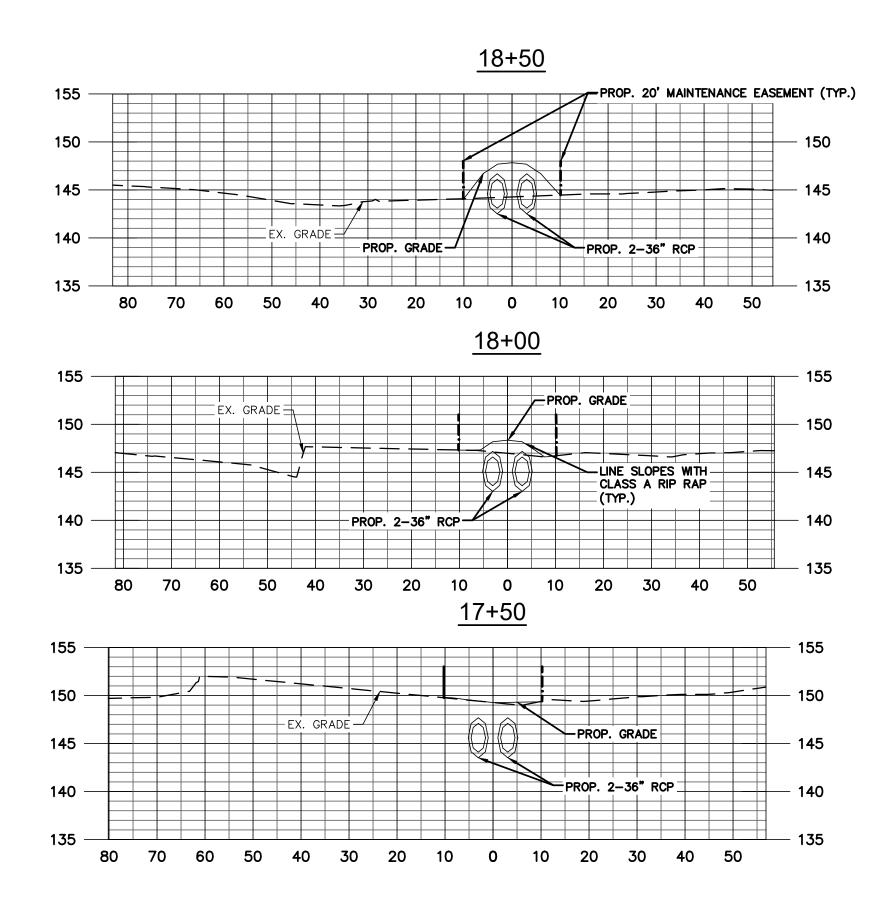
DESCRIPTION







ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS	30 0 GRAPHIC SCALE	15 DIVISION
TOWN OF ST. PAULS	OFFICE MANAGER B. ROARK	DESIG C.
ROBESON COUNTY, NORTH CAROLINA	PROJECT MANAGER D. SABEH	REVIE D.





55 Broad Street Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com

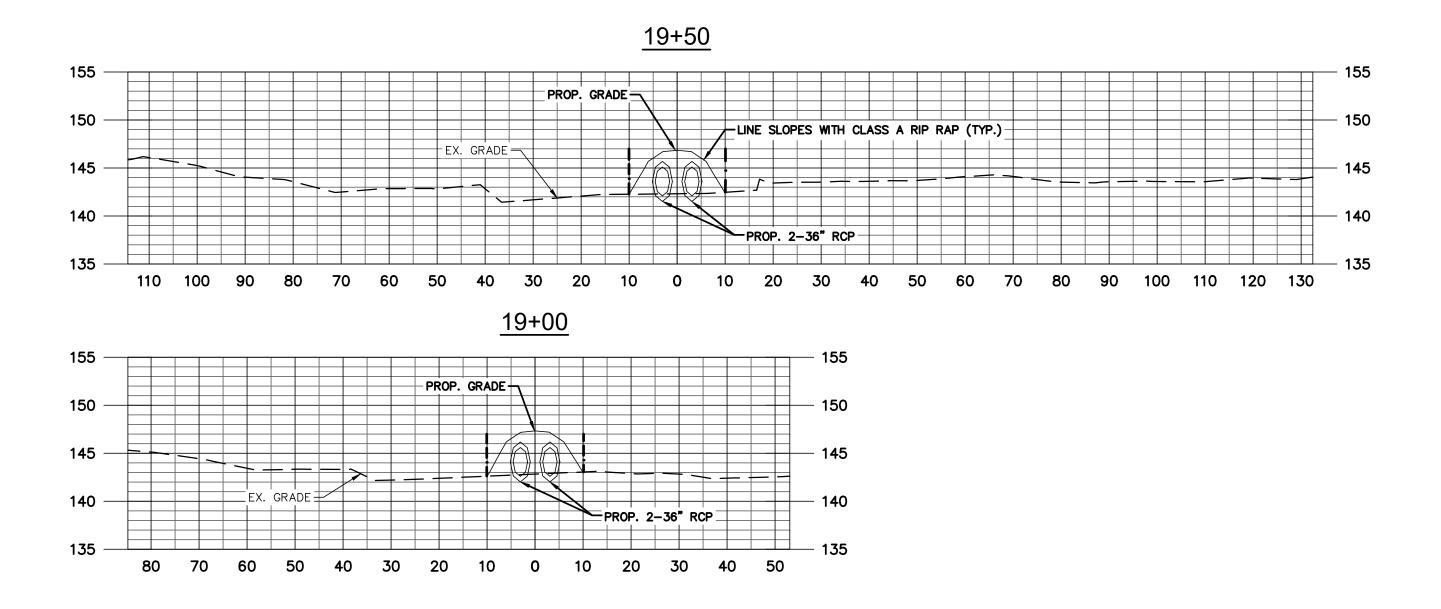




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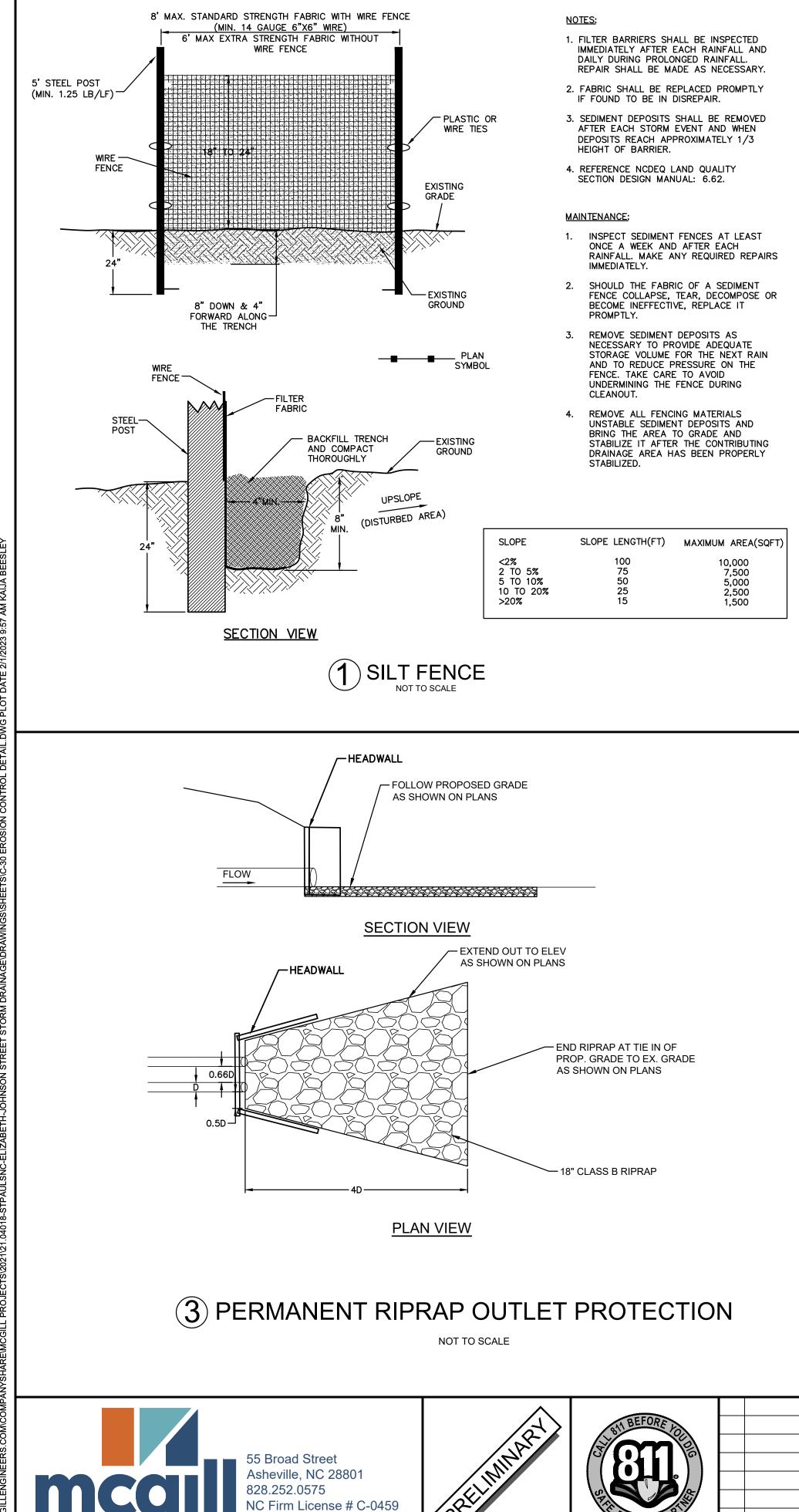






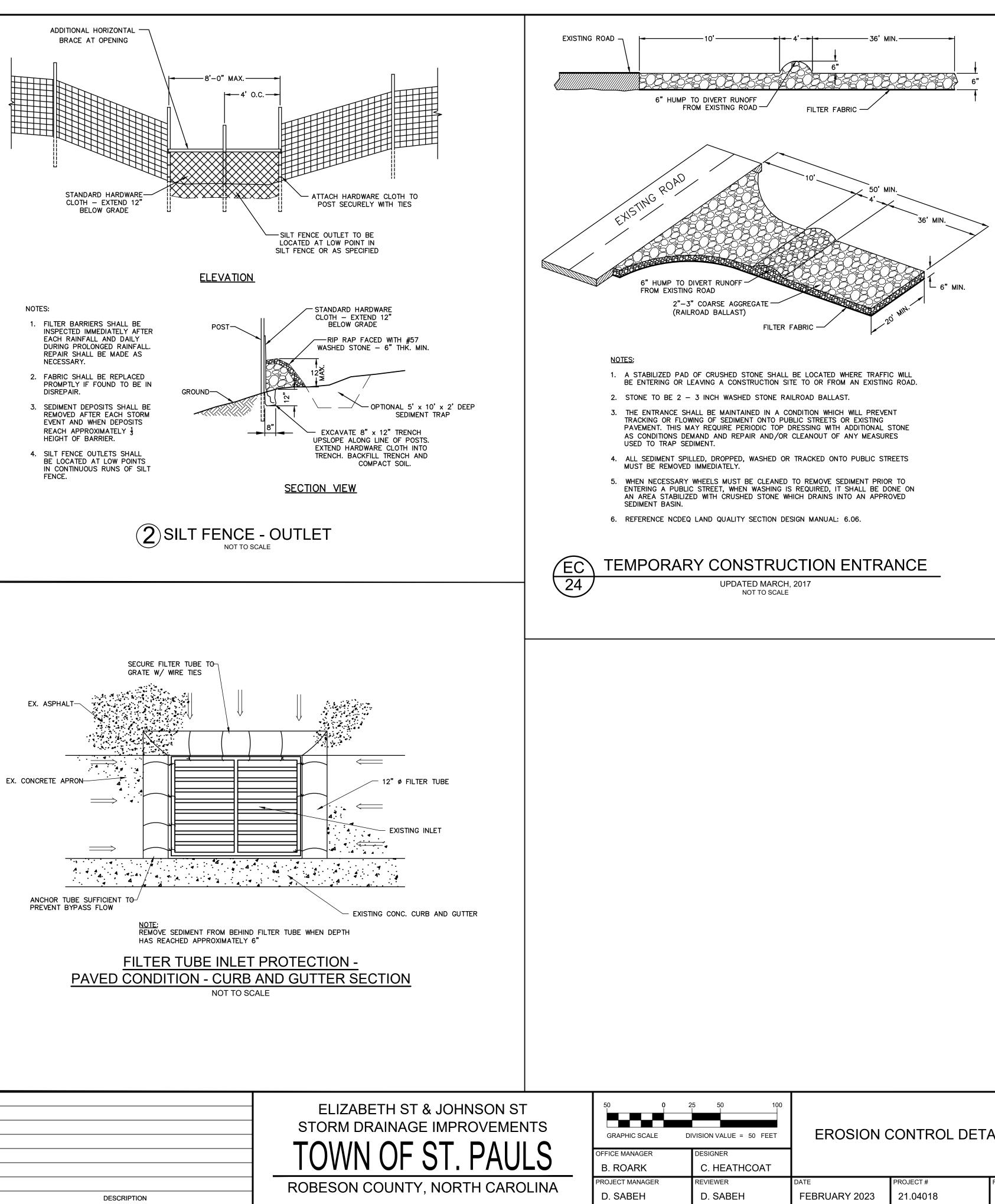
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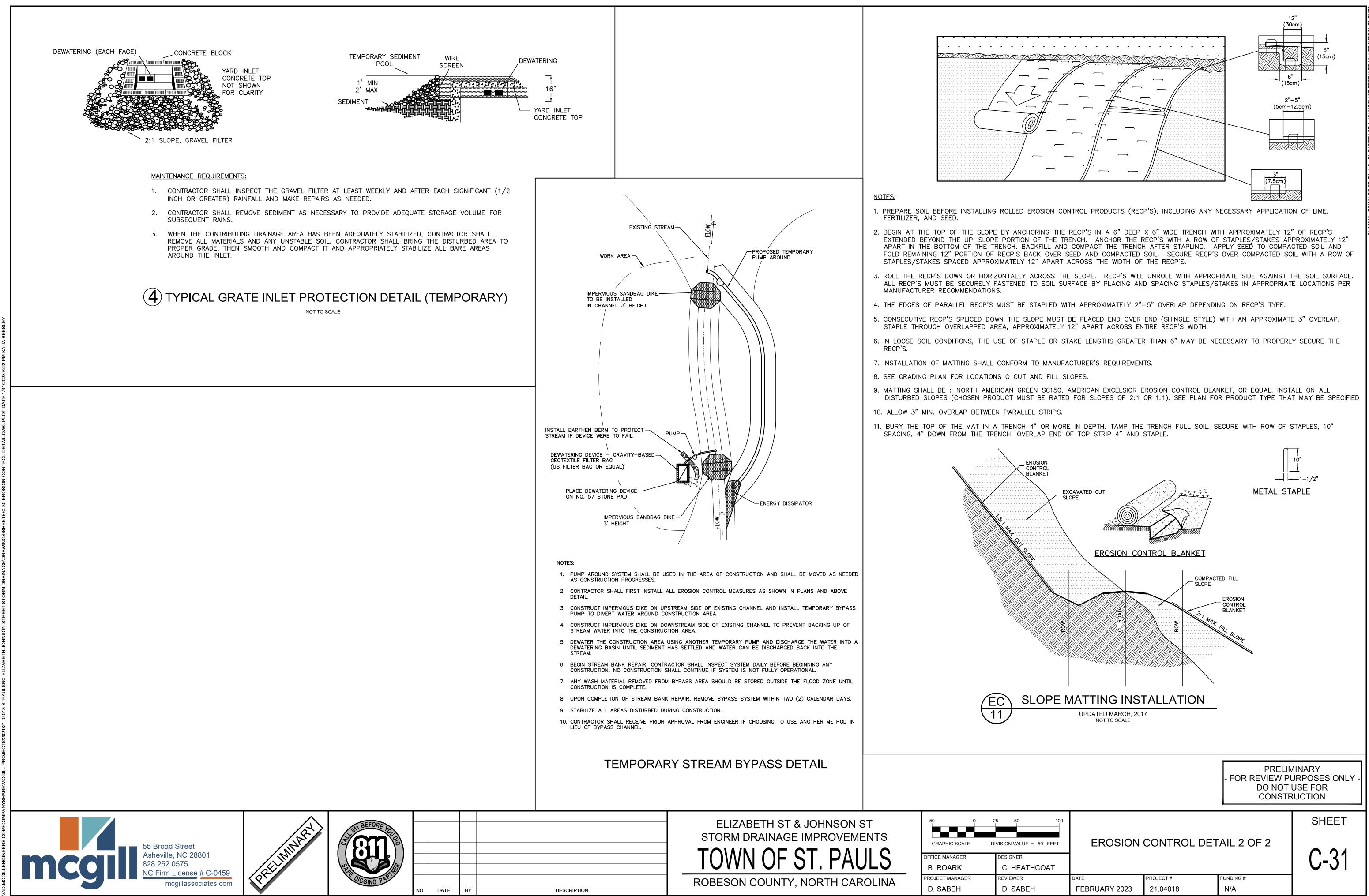


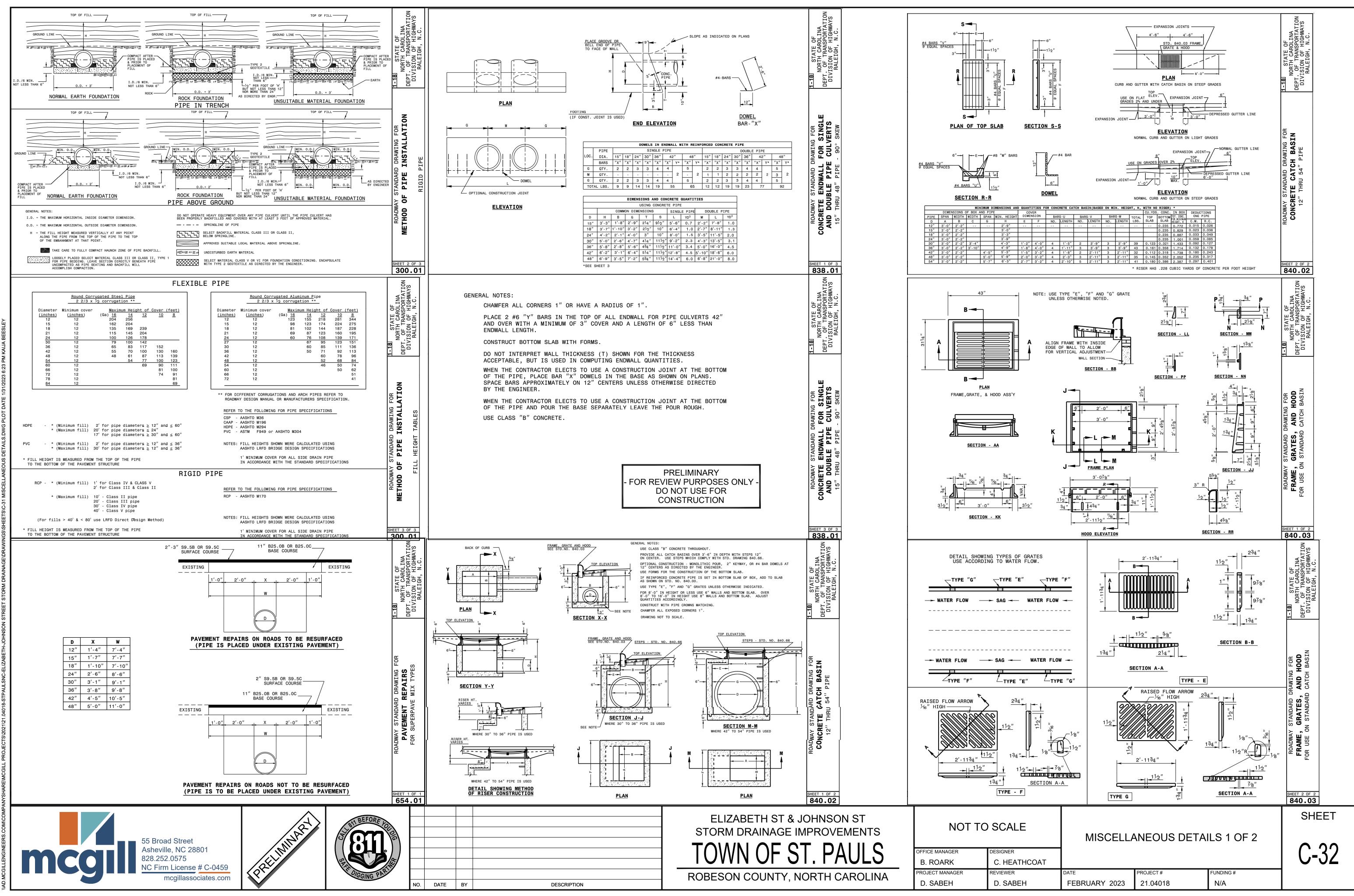
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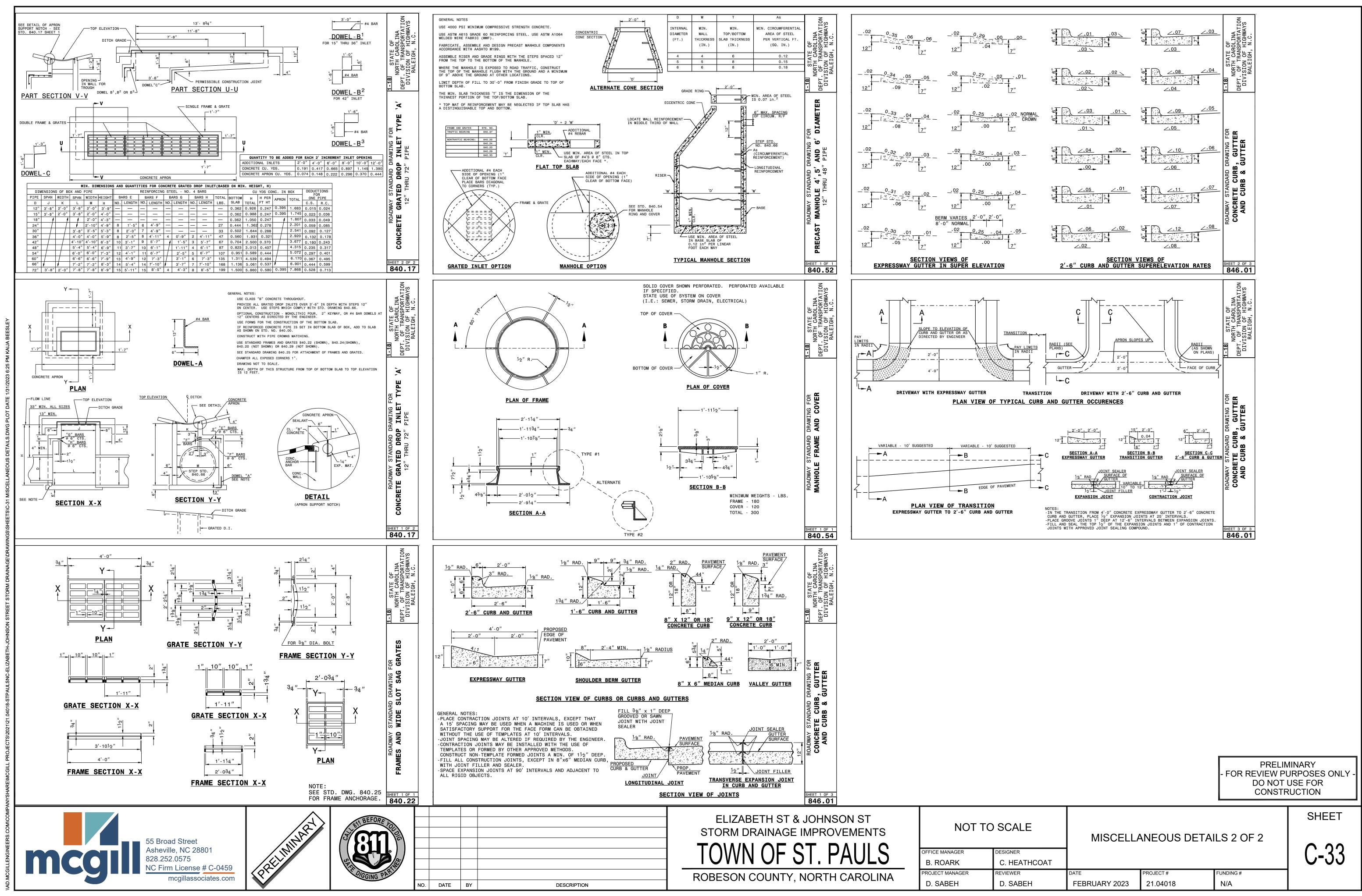
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SIGNER C. HEATHCOAT				C-30
VIEWER	DATE	PROJECT # FUNDING #		
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Pre-Construction Notification (PCN) Form

For Nationwide Permits and Regional General Permits

(along with corresponding Water Quality Certifications)

April 13, 2022 Ver 4.3

 (\land)

Please note: fields marked with a red asterisk * below are required. You will not be able to submit the form until all mandatory questions are answered.

Also, if at any point you wish to print a copy of the E-PCN, all you need to do is right-click on the document and you can print a copy of the form.

Below is a link to the online help file.

https://edocs.deq.nc.gov/WaterResources/0/edoc/624704/PCN%20Help%20File%202018-1-30.pdf

A. Processing Information

Pre-Filing Meeting Date Request was submitted on: *

10/11/2021

If this is a courtesy copy, please fill in this with the submission date.

County (or Counties) where the project is located: *

Robeson

Is this a NCDMS Project*

Yes No

Click Yes, only if NCDMS is the applicant or co-applicant.

DO NOT CHECK YES, UNLESS YOU ARE DMS OR CO-APPLICANT.

Is this project a public transportation project?*

Yes No This is any publicly funded by municipal, state or federal funds road, rail, airport transportation project.

1a. Type(s) of approval sought from the Corps:*

- Section 404 Permit (wetlands, streams and waters, Clean Water Act)
- Section 10 Permit (navigable waters, tidal waters, Rivers and Harbors Act)

Has this PCN previously been submitted?*

- Yes
- No

1b. What type(s) of permit(s) do you wish to seek authorization?*

- Nationwide Permit (NWP)
- Regional General Permit (RGP)
- Standard (IP)

1c. Has the NWP or GP number been verified by the Corps?*

Yes No

Nationwide Permit (NWP) Number:	14 - Linear transportation	
Nationwide Permit (NWP) Number:	18 - Minor Discharges	
NWP Numbers (for multiple NWPS):		
NWP 14 - Linear Transportation and NWP - 18 Minor Discharges List all NW numbers you are applying for not on the drop down list.		
1d. Type(s) of approval sought from the DWR: *		
401 Water Quality Certification - Regular		401 Water Quality Certification - Express
Non-404 Jurisdictional General Permit		Riparian Buffer Authorization
Individual 401 Water Quality Certification		
1e. Is this notification solely for the record because written ap	proval is not required?	
		*

Yes No

For the record only for Corps Permit: 1f. Is this an after-the-fact permit application?* No Yes 1g. Is payment into a mitigation bank or in-lieu fee program proposed for mitigation of impacts? If so, attach the acceptance letter from mitigation bank or in-lieu fee program. Yes No Acceptance Letter Attachment Click the upload button or drag and drop files here to attach document FILE TYPE MUST BE PDF 1h. Is the project located in any of NC's twenty coastal counties?* Yes No 1j. Is the project located in a designated trout watershed?* Yes No

Link to trout information: http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Agency-Coordination/Trout.aspx

B. Applicant Information

1a. Who is the Primary Contact?* Jon Swaim

1b. Primary Contact Email:* jon.swaim@mcgillassociates.com

1d. Who is applying for the permit?*

Owner
 (Check all that apply)

1e. Is there an Agent/Consultant for this project?*

Yes No

2. Owner Information

2a. Name(s) on recorded deed: * Town of St Pauls

.

2b. Deed book and page no.: N/A - Utility Easement

2c. Contact Person:

(for Corporations) Elbert Gibson - Mayor

2d. Address*

Street Address 210 W. Blue Street

Address Line 2

<mark>City</mark> St. Pauls

Postal / Zip Code 28384

2e. Telephone Number:*

(xxx)xxx-xxxx (910)865-5165

2f. Fax Number:

(xxx)xxx-xxxx

2g. Email Address:*

debra@stpaulsnc.gov

4. Agent/Consultant (if applicable)

4a. Name:* Jon Swaim

4b. Business Name:

(if applicable) McGill Associates, P.A.

State / Province / Region North Carolina

Country

United States

1c. Primary Contact Phone: *

Yes No

(xxx)xxx-xxxx (828)328-2024

Applicant (other than owner)

 \bigcirc

4c. Address *		
Street Address		
1240 19th Street Lane NW		
Address Line 2		
City	State / Province / Region	
Hickory	North Carolina	
Postal / Zip Code	Country	
28601	United States	
4d. Telephone Number: *		
(828)328-2024	4e. Fax Number:	
(xxx)xxx-xxxx	(xxx)xxxxxxx	
4f. Email Address: *		
jon.swaim@mcgillassociates.com		
C. Drojoct Information and Drior Drojoct L	lietory	
C. Project Information and Prior Project Information	History	©
1. Project Information 1a. Name of project: *	History	
1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements	History	
1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name:	History	
1. Project Information 1a. Name of project: * Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name: (if appropriate)	History	
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1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name: (if appropriate) N/A	History	
1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name: (if appropriate) N/A 1c. Nearest municipality / town:*	History	
1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name: (if appropriate) N/A 1c. Nearest municipality / town:* St.Pauls 2. Project Identification		<u></u>
1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name: (f appropriate) N/A 1c. Nearest municipality / town:* St.Pauls 2. Project Identification 2a. Property Identification Number:	2b. Property size:	<u></u>
1. Project Information 1a. Name of project:* Elizabeth-Johnson Street Storm Drainage Improvements 1b. Subdivision name: (if appropriate) N/A 1c. Nearest municipality / town:* St.Pauls 2. Project Identification		<u></u>

2c. Project Address

28384

Street Address No Assigned Address (Project Coordinates: 34.7989°, -78.9681°) Address Line 2 City St. Pauls Postal / Zip Code

State / Province / Region North Carolina Country United States

2d. Site coordinates in decimal degrees

Please collect site coordinates in decimal degrees. Use between 4-6 digits (unless you are using a survey-grade GPS device) after the decimal place as appropriate, based on how the location was determined. (For example, most mobile phones with GPS provide locational precision in decimal degrees to map coordinates to 5 or 6 digits after the decimal place.)

Latitude:*	Longitude:*
34.7989	-78.9681
ex: 34.208504	-77.796371
3. Surface Waters	
3a. Name of the nearest body of water	to proposed project: *
Big Marsh Swamp	
3b. Water Resources Classification of	nearest receiving water: *
C;Sw	
Surface Water Lookup	

3c. What river basin(s) is your project located in?*

Lumber

3d. Please provide the 12-digit HUC in which the project is located.*

River Basin Lookup

4. Project Description and History

4a. Describe the existing conditions on the site and the general land use in the vicinity of the project at the time of this application: *

The proposed improvements consist of the design and construction of a new storm drainage system including the installation of approximately 1,800 linear feet of 48-inch reinforced concrete pipe with inlet boxes and related appurtenances from the flood-prone area to an outlet near Big Marsh Swamp. The new pipes would be installed primarily within the Town's right-of-way, easements, St Paul WWTP access road, and properties of South Johnson Street, East Clark Street, and East Ross Street to outfall in the wetland within the Town property (Parcel ID 030890981900). Adjoining areas consist of residential properties, St. Pauls WWTP, and undeveloped land.

4b. Have Corps permits or DWR certifications been obtained for this project (including all prior phases) in the past?*

🔍 Yes 💿 No 🔍 Unknown

4f. List the total estimated acreage of all existing wetlands on the property:

3 123

4g. List the total estimated linear feet of all existing streams on the property:

(intermittent and perennial) N/A

4h. Explain the purpose of the proposed project: *

The proposed activity is a Flood and Drainage Improvements project under the Community Recovery Program to reduce flooding and the resulting property damage in the Town of St. Pauls.

4i. Describe the overall project in detail, including indirect impacts and the type of equipment to be used: *

Majority of new pipes to be installed primarily within the Town's right-of-way, easements, and properties of South Johnson Street, East Clark Street, and East Ross Street within existing road shoulders and upland areas. See plan sheets C-10 through C-14.

Project work at the Town of St. Pauls WWTP Property under a Nationwide Permit #14:

Replacement of existing 24" RCP with two 24" RCP to allow for additional flow during storm events under the gravel access road to the St. Pauls WWTP. The two 24" RCP will be installed as close as possible to the existing 24" RCP. The culverts outlets will be armored with 18" Class B Riprap Apron to prevent erosion. See Appendix 2 - Plans Set - C-16. The proposed permanent impacts (Impact W4) are approximately 0.0027 Acres resulting from the Riprap Apron. All temporary impacts (Impact W3 - 0.0127 Acres) for the installation of the two 24" RCP will be from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent ruting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization. The contractor shall provide adequate pump around or diversion to keep the work area dry. Appendix 2 Plans Set - Sheet C-31 - Temporary Stream Bypass Detail.

Project work at the Town owned 20' Utility Easement under a Nationwide Permit #18:

The proposed project calls for two 36" RCP approximately 244 LF in length to be installed within the 20' Utility Easement as shown on Appendix 2 - Plans Set - C-15. The culvert outlets will be armored with 18" Class B Riprap Apron. The proposed permanent impacts (Impact W2) are approximately 0.0686 Acres resulting from the 20' Utility Row that will be cleared and maintained permanentity and the Riprap Apron. All temporary impacts (Impact W1 - 0.0436 Acres) for the installation of the two 36" RCP will be from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stabilization.

In order to ensure that stormwater is adequately drained from the surrounding area which is prone to flooding, the two proposed 36" RCP must extend into Wetland A. Alternatives were explored to avoid wetland impacts, but adequate fall was not achievable without the proposed wetland impacts. The Class B Riprap Apron was designed to prevent washout at the culvert outlet. Project was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp. No surface water was noted within the project area during site visits. Groundwater was estimated at 6-inches below natural grade. Estimated fill below ordinary high water totals 597.6 cubic feet or 22.1 cubic yards.

No indirect impacts are anticipated for the proposed project.

It is anticipated typical road construction equipment will be used for the project which might include excavators, bulldozers, frontend loaders, skid steers, and dump trucks.

5. Jurisdictional Determinations

5a. Have the wetlands or streams been delineated on the property or proposed impact areas?*							
Yes O No O Unknown							
Comments: See Appendix 5 - Preliminary Jurisdictional	Comments: See Appendix 5 - Preliminary Jurisdictional Determination						
	5b. If the Corps made a jurisdictional determination, what type of determination was made?* Preliminary Approved Not Verified Unknown N/A						
Corps AID Number: Example: SAW-2017-99999 N/A	Example: SAW-2017-99999						
5c. If 5a is yes, who delineated the jurisdictional areas?							
Name (if known):	Jonathan Herman/Jon Swaim						
Agency/Consultant Company: McGill Associates, P.A.							

10/13/2021 & 2/7/2023

No

6. Future Project Plans

Other:

6a. Is this a phased project?*

Ves

Are any other NWP(s), regional general permit(s), or individual permits(s) used, or intended to be used, to authorize any part of the proposed project or related activity? This includes other separate and distant crossing for linear projects that require Department of the Army authorization but don't require pre-construction notification.

D. Proposed Impacts Inventory

1. Impacts Summary

1a. Where are the impacts associated with your project? (check all that apply):

Wetlands

Open Waters

Streams-tributaries

Buffers

2. Wetland Impacts

If there are wetland impacts proposed on the site, then complete this question for each wetland area impacted.

"W." will be used in the table below to represent the word "wetland".

2a. Site #* (?)	2a1 Reason [*] (?)	2b. Impact type * (?)	2c. Type of W.*	2d. W. name*	2e. Forested*	2f. Type of Jurisdicition *	2g. Impact area *
W1	Construction Access	Т	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.044 (acres)
	Culvert/ Riprap Apron/ 20' Maintained Utility ROW	P	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.069 (acres)
W3	Construction Access	Т	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.013 (acres)
W4	Rip Rap Apron	Р	Bottomland Hardwood Forest	Wetland A	Yes	Corps	0.003 (acres)

2g. Total Temporary Wetland Impact

0.057

2g. Total Permanent Wetland Impact

0.072

2g. Total Wetland Impact

0.129

2i. Comments:

See Appendix 1 - Impacts Map for approximate impacts.

E. Impact Justification and Mitigation

1. Avoidance and Minimization

1a. Specifically describe measures taken to avoid or minimize the proposed impacts in designing the project: *

Project designed to minimize wetland impacts as much as practical. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post construction. See Appendix 2 Plans Set - Sheet G-02 - Native Plant Seeding Mix for Wetland Stream or Riverbank Stabilization.

1b. Specifically describe measures taken to avoid or minimize the proposed impacts through construction techniques: *

Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands on-site. The contractor shall provide adequate pump around or diversion to keep the work area dry. Appendix 2 Plans Set - Sheet C-31 - Temporary Stream Bypass Detail.

2. Compensatory Mitigation for Impacts to Waters of the U.S. or Waters of the State

2a. Does the project require Compensatory Mitigation for impacts to Waters of the U.S. or Waters of the State?

Yes

2b. If this project DOES NOT require Compensatory Mitigation, explain why:

The project does not exceed thresholds requiring compensatory mitigation for Nationwide Permit 14/18.

No

NC Stream Temperature Classification Maps can be found under the Mitigation Concepts tab on the Wilmington District's RIBITS website.

F. Stormwater Management and Diffuse Flow Plan (required by DWR)

 *** Recent changes to the stormwater rules have required updates to this section . ***

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1a. Does the project include or is it adjacent to protected riparian buffers identified within one of the NC Riparian Buffer Protection Rules?

Yes

For a list of options to meet the diffuse flow requirements, click here.

If no, explain why:

The project is located in the Lumber River Basin which is not subject to Riparian Buffer Protection Rules.

No

2. Stormwater Management Plan

2a. Is this a NCDOT project subject to compliance with NCDOT's Individual NPDES permit NCS000250?*

Yes No

2b. Does this project meet the requirements for low density projects as defined in 15A NCAC 02H .1003(2)?*

Yes No

To look up low density requirement click here 15A NCAC 02H .1003(2)

Comments:

G. Supplementary Information

1. Environmental Documentation

1a. Does the project involve an expenditure of public (federal/state/local) funds or the use of public (federal/state) land?*

No

No

No

Yes

1b. If you answered "yes" to the above, does the project require preparation of an environmental document pursuant to the requirements of the National or State (North Carolina) Environmental Policy Act (NEPA/SEPA)?*

۲	Yes			

1c. If you answered "yes" to the above, has the document review been finalized by the State Clearing House? (If so, attach a copy of the NEPA or SEPA final approval letter.)*

Yes

Comments:*

Project is currently under environmental review as a Flood and Drainage Improvements project under the Community Recovery Program.

2. Violations (DWR Requirement)

2a. Is the site in violation of DWR Water Quality Certification Rules (15A NCAC 2H .0500), Isolated Wetland Rules (15A NCAC 2H .1300), or DWR Surface Water or Wetland Standards or Riparian Buffer Rules (15A NCAC 2B .0200)?* No

Yes

3. Cumulative Impacts (DWR Requirement)

3a. Will this project (based on past and reasonably anticipated future impacts) result in additional development, which could impact nearby downstream water quality?*

Yes No

3b. If you answered "no," provide a short narrative description.

No additional development anticipated as a result of the proposed work

4. Sewage Disposal (DWR Requirement)

```
4a. Is sewage disposal required by DWR for this project?*
```

Yes No N/A

5. Endangered Species and Designated Critical Habitat (Corps Requirement)

5a. Will this project occur in	or near an area with federally protected specie	es or habitat? *
Ves	No	
5b. Have you checked with t	he USFWS concerning Endangered Species A	ct impacts?*
Yes	No	
5c. If yes, indicate the USFW	S Field Office you have contacted.	
Raleigh		
5d. Is another Federal agend	y involved?*	
Ves	No	Unknown
5e. Is this a DOT project loca	ated within Division's 1-8?*	
- M - M		

Yes No

5f. Will you cut any trees in order to conduct the work in waters of the U.S.?*

Yes No

5g. Does this project involve bridge maintenance or removal?*

Yes No

Link to the NLEB SLOPES document: http://saw-reg.usace.army.mil/NLEB/1-30-17-signed_NLEB-SLOPES&apps.pdf

5h. Does this project involve the construction/installation of a wind turbine(s)?**

Yes No

5i. Does this project involve (1) blasting, and/or (2) other percussive activities that will be conducted by machines, such as jackhammers, mechanized pile drivers, etc.?* Yes No

5j. What data sources did you use to determine whether your site would impact Endangered Species or Designated Critical Habitat?*

USFWS Information for Planning and Consultation tool (see Appendix 4)

On February 7, 2023 environmental specialists from McGill Associates, P.A. conducted a Threatened and Endangered Species survey on the Limits of Disturbance (LOD). The survey was concentrated on the Red-cockaded Woodpecker (RCW) and Michaux's Sumac during the site survey. No species occurrences or potential habitat were found during the survey for RCW and Michaux's Sumac. No mature pine species generally more than 80 years old found in the study area. All remaining Threatened and Endangered Species found on the USFWS IPAC Report were surveyed for and no species occurrences or potential habitat were found within the LOD.

6. Essential Fish Habitat (Corps Requirement)

6a. Will this project occur in or near an area designated as an Essential Fish Habitat?*

Yes No

6b. What data sources did you use to determine whether your site would impact an Essential Fish Habitat?*

NOAA Essential Fish Habitat Mapper

7. Historic or Prehistoric Cultural Resources (Corps Requirement)

Link to the State Historic Preservation Office Historic Properties Map (does not include archaeological data: http://gis.ncdcr.gov/hpoweb/

7a. Will this project occur in or near an area that the state, federal or tribal governments have designated as having historic or cultural preservation status (e.g., National Historic Trust designation or properties significant in North Carolina history and archaeology)?* No

Yes

7b. What data sources did you use to determine whether your site would impact historic or archeological resources?*

NC Historic Preservation Office HPOWEB

See Appendix 3 - NCHPO HPOWEB Map

8. Flood Zone Designation (Corps Requirement)

Link to the FEMA Floodplain Maps: https://msc.fema.gov/portal/search

8a. Will this project occur in a FEMA-designated 100-year floodplain?*

Yes

8b. If yes, explain how project meets FEMA requirements:

All appropriate floodplain development permits will be acquired prior to construction.

No

8c. What source(s) did you use to make the floodplain determination?* https://fris.nc.gov

Miscellaneous

Comments

Please use the space below to attach all required documentation or any additional information you feel is helpful for application review. Documents should be combined into one file when possible, with a Cover Letter, Table of Contents, and a Cover Sheet for each Section preferred.

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Click the upload button or drag and drop files here to attach document

Final Appendices.pdf 36.11MB File must be PDF or KMZ

Signature

By checking the box and signing below, I certify that:

- The project proponent hereby certifies that all information contained herein is true, accurate, and complete to the best of my knowledge and belief'; and
- The project proponent hereby requests that the certifying authority review and take action on this CWA 401 certification request within the applicable reasonable period of time.
 - I have given true, accurate, and complete information on this form;

- I agree that submission of this PCN form is a "transaction" subject to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I agree to conduct this transaction by electronic means pursuant to Chapter 66, Article 40 of the NC General Statutes (the "Uniform Electronic Transactions Act");
- I understand that an electronic signature has the same legal effect and can be enforced in the same way as a written signature; AND
- I intend to electronically sign and submit the PCN form.

Full Name:*

Jon Swaim

Signature *



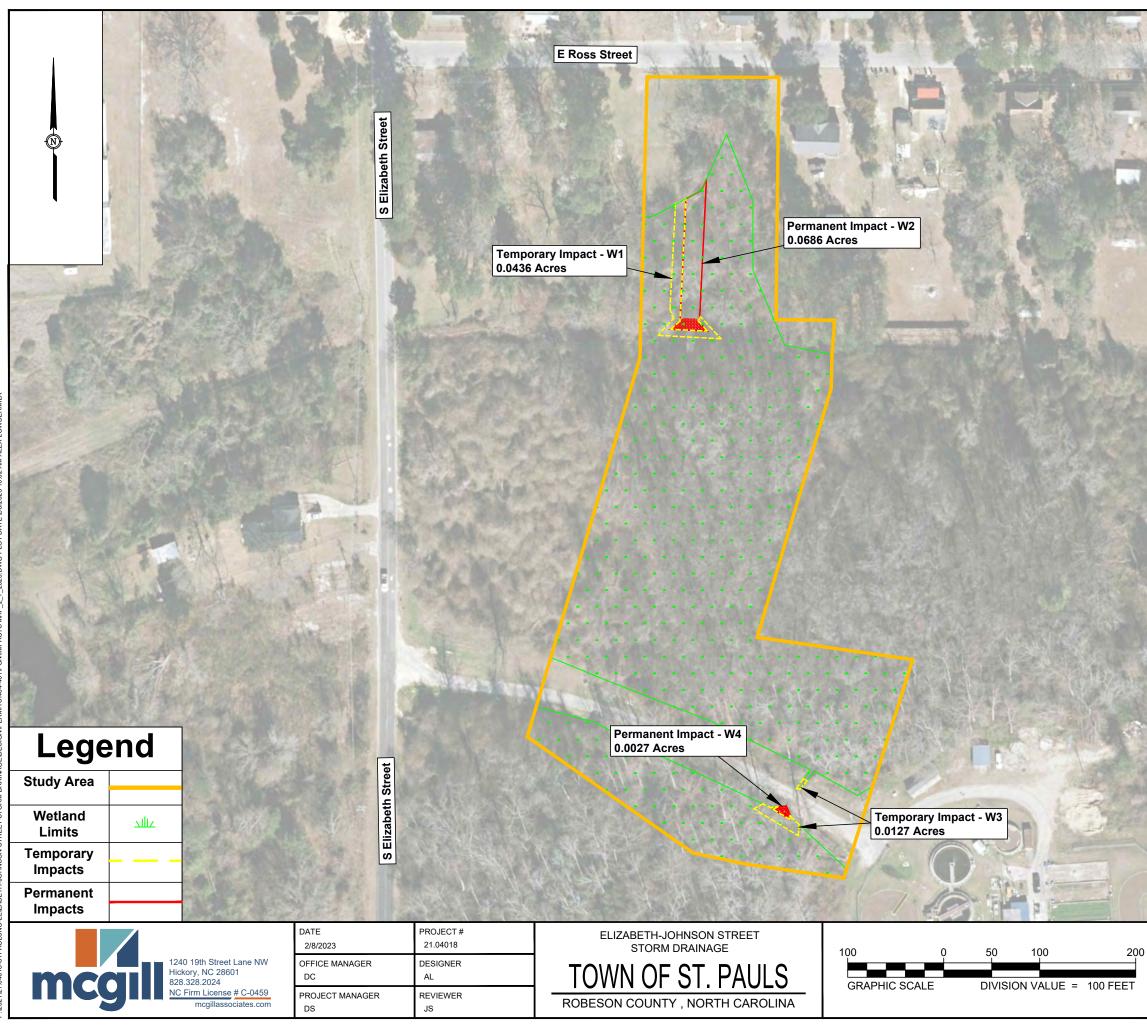
Date 2/13/2023

APPENDICES

- 1. Impacts Map
- 2. Plans Set
- 3. NCHPO HPOWEB Map
- 4. IPAC Consultation Package
- 5. Preliminary Jurisdictional Determination (PJD)

APPENDIX 1

Impacts Map



Impacts TableTemporary Impact - W1 (Wetland A)0.0436 AcresPermanent Impact - W2 (Wetland A)0.0686 AcresTemporary Impact - W3 (Wetland A)0.0127 AcresPermanent Impact - W4 (Wetland A)0.0027 Acres			
Impact - W1 (Wetland A)0.0436 AcresPermanent Impact - W2 (Wetland A)0.0686 AcresTemporary Impact - W3 (Wetland A)0.0127 AcresPermanent Impact - W40.0027 Acres	E Ross Street	ss Street	
Impact - W2 (Wetland A)0.0686 AcresTemporary Impact - W3 (Wetland A)0.0127 AcresPermanent Impact - W40.0027 Acres		Impact - W1	
Impact - W3 (Wetland A)0.0127 AcresPermanent Impact - W40.0027 Acres	5	Impact - W2	
Impact - W4 0.0027	N.	Impact - W3	
		Impact - W4	
		1	
	ALC: NO		
W ALLERA			
		Auplat	

IMPACTS MAP

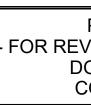
APPENDIX 2

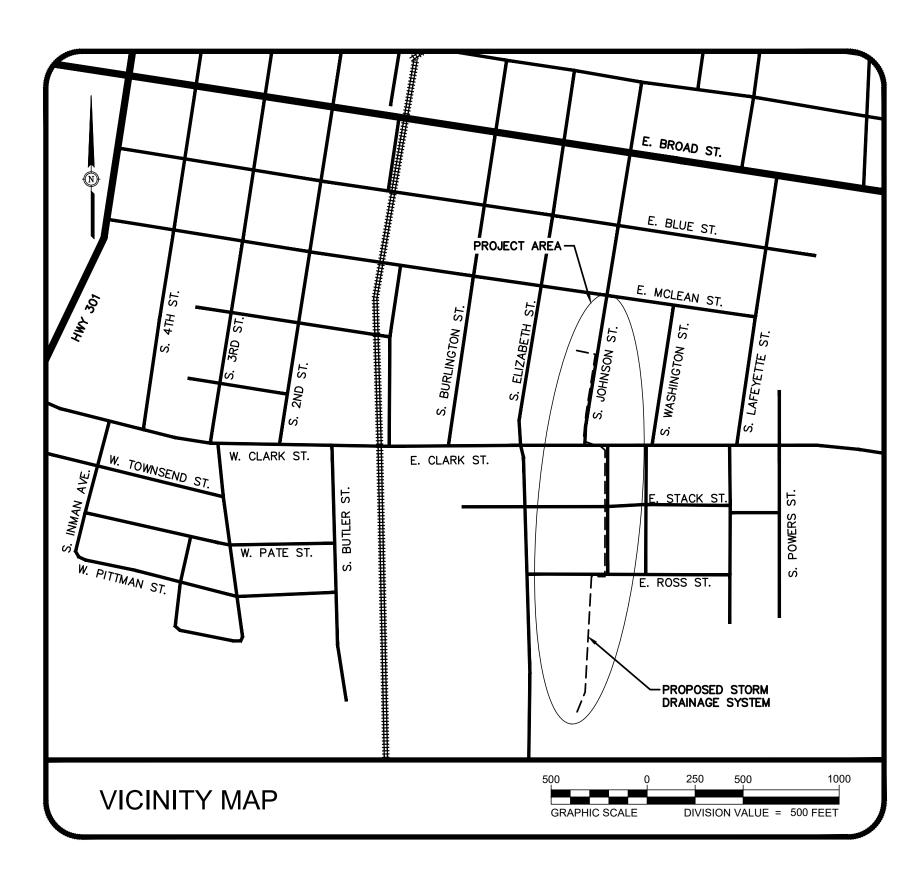
Plans Set

ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS TOWN OF ST. PAULS **ROBESON COUNTY, NORTH CAROLINA**

Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com

55 Broad Street





G-01	Cover
G-02	Notes &
G-03	NCDEQ
G-04	NCDEQ
CE-01	Existing
CE-02	Existing
CE-03	Existing
CE-04	Existing
C-10	Propose
C-11	Propose
C-12	Propose
C-13	Propose
C-14	Propose
C-15	Propose
C-16	Propose
C-17	Overvie
C-20	Cross S
C-30	Erosion
C-31	Erosion
C-32	Miscella
C-33	Miscella

PRELIMINARY FOR REVIEW PURPOSES ONLY DO NOT USE FOR CONSTRUCTION



FEBRUARY 2023

SCHEDULE OF DRAWINGS

Legend General Permit Notes General Permit Note Conditions 1 of 4 Conditions 2 of 4 Conditions 3 of 4 Conditions 4 of 4 ed Plan and Profile S. Johnson St. Sta. 0+00-5+50 ed Plan and Profile E. Clark St. Sta. 6+00-7+50 ed Plan and Profile S. Johnson St. Sta. 8+00-12+00 ed Plan and Profile S. Johnson St. Sta. 12+00-15+00 ed Plan and Profile E. Ross St. Sta. 15+00-16+50 ed Plan and Profile Sta. 17+00-22+00 ed Plan and Profile Sta. 22+00-25+50 ew of Wetland Impacts Sta. 17+00-25+50 Sections Sta. 17+50-20+00 Control Details 1 of 2 Control Detail 2 of 2 aneous Details 1 of 2 aneous Details 2 of 2

NORTH CAROLINA LAND QUALITY SECTION EI	ROSION CONTROL NOTES
GENERAL: ALL EROSION CONTROL MEASURES ARE TO BE PERFORMED IN STRICT ACCORDANCE WITH ENVIRONMENTAL QUALITY (NCDEQ), DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES (DEMLR), SEQUENCE SHALL BE COMPLIED WITH FOR ALL WORK.	
 INSTALL ALL EROSION CONTROL MEASURES AS REQUIRED BY THE NCDEQ. PROCEED WITH GRADING, CLEARING, AND GRUBBING. NO OFF SITE DISPOSAL OF MATERIAL IS A EROSION CONTROL PLAN. SEED AND MULCH DENUDED AREA WITHIN TIME FRAME SPECIFIED (SEE TABLE). SEED AND SOIL AT THE FOLLOWING RATES PER ACRE. STRAW MULCH SHALL BE TACKED WITH TACKING AGENT 	AMENDMENTS SHALL BE PLACED ON A PREPARED SEEDBED A F
OR CREEPING RED FESCUE 100 LBS STRAW MULCH 60-80 BALE FOR SUMMER SEEDING ADD TO THE ABOVE: GERMAN MILLET (SETARIA ITALICA) 40 L SMALL-STEMMED SUDAN GRASS (SORGHUM BICOLOR) 50 L	AS (NATURAL AREAS AND STREAMBANKS) S BLI BO BO BO BO BO S S S S S S S S S S S S S
FOR WINTER SEEDING ADD TO THE ABOVE: RYE GRAIN (SECALE CEREALE) 120 LE	C.A CB S C- CF
IF HYDROSEEDING, WOOD CELLULOSE MAY BE USED IN ADDITI 1,000 LBS PER ACRE.	CFI
ALL SEEDING SHALL BE MAINTAINED, WATERED ETC, UNTIL A IS ESTABLISHED OVER ALL DISTURBED AREAS. FOR ALL SLOP PURGE LIVE SEED SWITCHGRASS BROWNTOP MILLET OR PEARL MILLET (PENNISETUM GLAU GRAIN SORGHUM (SORGHUM BICOLOR (L.) MOENCH SSP. ALL SLOPES 2:1 OR STEEPER SHALL BE COVERED BY EROSIC	ES 2:1 OR STEEPER ADD TO THE ABOVE: 4 LBS CUM) 8 LBS BICOLOR) 2 LBS N CONTROL MATTING. CO CP CSI CU
NATIVE PLANT SEEDING MIX FOR WETLAND STREA	AM OR RIVERBANK STABILIZATION
 NATIVE SEED MIX SHALL BE APPLIED AT A RATE OF 20 LBS./AC. AND INCLU SPECIES: 25% - BIG BLUESTEM (ANDROPOGON GERARDII) 25% - INDIAN GRASS (SORGHASTRUM NUTANS) 25% - LITTLE BLUESTEM (SCHIZACHYRIUM SCOPARIUM) 25% - SWITCHGRASS (PANICUM VIRGATUM) 	DIP DN D/ DW E
2. ADDITIONALLY A TEMPORARY COVER/NURSE CROP MIX SHALL BE APPLIED AT LBS./ACRE AS FOLLOWS: AUGUST THRU MAY – GREENRYE (SECALE CEREALE) MAY 1 THRU AUGUST – MILLET (PENNISETUM GLAUCUM)	A RATE OF 25 EL, ELE EOI ESI EX,
3. ANY SUBSTITUTIONS OR VARIATIONS FROM SPECIFICATIONS ABOVE SHALL BE PROJECT ENGINEER.	APPROVED BY THE F.D FDG FFG
4. NO FERTILIZER SHALL BE USED WITHIN 10' OF TOP OF STREAM OR RIVER BA 5. MAINTAIN SOIL EROSION CONTROL MEASURES UNTIL PERMANENT GROUND COV	
6. REQUEST FINAL APPROVAL BY THE NORTH CAROLINA DEPARTMENT OF ENVIRO DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES, LAND QUALITY SECTIO	NMENTAL QUALITY, FI
7. REMOVE SOIL EROSION CONTROL MEASURES AND STABILIZE THESE AREAS.	FM FO FO
	FO FO FT
	FU GA GA
	GA GEI G/
	GV GW HD
	HE: HO HP
	HW HW ICV
	I.D. IN INV
	JB K L
	LB LD LF
	LG LP LT
	LW
55 Broad Street Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com	MINARY REFORMANCE NO. DATE BY

ABBREVIATIONS

DESCRIPTION

	AT
-	AREA
С.	AGGREGATE BASE COURSE ACRE
-	ALGEBRAIC DIFFERENCE
	ABOVE FINISHED FLOOR AREA LIGHT
ROX. H.	APPROXIMATE ARCHITECTURAL
Y.	ASSEMBLY
} R.	BACK TO BACK BEARING
G.	BUILDING
•	BACK OF CURB BOTTOM
	CENTERLINE
B.C.	CRUSHED AGGREGATE BASE COURSE CATCH BASIN
;	CENTER TO CENTER CUBIC FEET
	CUBIC FEET PER MINUTE
<u>,</u>	CURB AND GUTTER CHORD
	CURB INLET
т	CLASS CONSTRUCTION
	CLEAN-OUT COMPANY
	COLUMN
IC. N	CONCRETE CONNECTION
	CORRUGATED PLASTIC PIPE
v.	CORRUGATED STEEL PIPE CULVERT
DEG	DEGREE(S) DELTA ANGLE
DIA.	DIAMETER
	DEPTH / DEEP DEED BOOK
	DEGREE OF CURVATURE
	DETAIL DROP INLET
	DUCTILE IRON PIPE DOWN
1	DRIVEWAY
S(S).	DRAWING(S) EAST
_, _, ,	EACH
	ELEVATION ELECTRICAL
т	EDGE OF PAVEMENT EASEMENT
	EXISTING
	FLOOR DRAIN FIRE DEPARTMENT CONNECTION(S)
	FLARED END SECTION
	FINISHED FLOOR ELEVATION FIRE HYDRANT
	FIRE HYDRANT ASSEMBLY FLOW INDICATOR
	FLEXIBLE
	FLANGE FORCE MAIN
	FIBER OPTIC CABLE
с	FIBER OPTIC POST FIBER OPTIC SIGNAL CABLE
	FACE OF CURB FEET
	FUTURE
•	GAUGE GALLON
V.	GALVANIZED GENERATOR
	GUTTER LINE
	GATE VALVE GUY WIRE/ANCHOR
	HEAVY DUTY
(IZ).	HEXAGONAL HORIZONTAL
	HIGH POINT HIGH WATER LEVEL
•	HIGHWAY
	IRRIGATION CONTROL VALVE INSIDE DIAMETER
	INCH(ES)
	INVERT JUNCTION BOX
	CURVE COEFFICIENT
	LENGTH POUND(S)
	LIGHT DUTY
	LINEAR FEET LONG
	LIGHT POLE LEFT
	LOW WATER LEVEL

MAX.	MAXIMUM
MECH.	MECHANICAL
MFR. MH	MANUFACTURER MANHOLE
MIN.	MINIMUM
MI	MILE
MJ	MECHANICAL JOINT
# / NO.	NUMBER
N	NORTH NATIONAL ELECTRICAL
NEMA	MANUFACTURERS ASSOCIATION
N/F	NOW OR FORMERLY
N.I.C.	NOT IN CONTRACT
NTS	NOT TO SCALE
0.C.	ON CENTER(S)
O.D. OHE	OUTSIDE DIAMETER OVERHEAD ELECTRIC
OPER	OPERATION
OPNG	OPENING
PB	PLAT BOOK
PC	POINT OF CURVATURE
PERM. PG	PERMANENT PAGE
PI	POINT OF INTERSECTION
ΡΙΤΟ	POINT OF INTERSECTION - TURN OU
PL	PROPERTY LINE
PP	POWER POLE
PROP. PS	PROPOSED POINT OF SWITCH
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PT	POINT
PVC	POLYVINYL CHLORIDE
P.V.C. P.V.I.	POINT OF VERTICAL CURVATURE POINT OF VERTICAL INTERSECTION
P.V.I. PVMT	POINT OF VERTICAL INTERSECTION PAVEMENT
P.V.T.	POINT OF VERTICAL TANGENCY
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD RED.	ROAD REDUCER
	REQUIRED
RJ	RESTRAINED JOINT
RR	RAILROAD
RT	RIGHT
ROW S	RIGHT OF WAY SOUTH
SAN	SANITARY
	SCHEDULE
	STORM DRAIN MANHOLE
	SECONDS
SECT. SED.	SECTION SEDIMENT
SED. SEW	SEWER
SF	SQUARE FEET
SHT. / SH.	
SP	SERVICE POLE
SPEC. SQ.	SPECIFICATION SQUARE
SR	STATE ROAD
SS	STAINLESS STEEL
	SANITARY SEWER CLEANOUT
	SANITARY SEWER MANHOLE
STA. STD.	STATION STANDARD
STL	STEEL
s/W	SIDEWALK
· / =	TOP OF CURB
TEL. TEMP.	TELEPHONE
TEMP. TK	TEMPORARY THICK
T/G	TOP OF GRATING
T.O.	TOP OF
TP T (2	TELEPHONE PEDESTAL
T/S TSB	TOP OF SLAB TRAFFIC SIGNAL BOX
TST	TEMPORARY SEDIMENT TRAP
T/W	TOP OF WALL
TYP.	TYPICAL
U/G	UNDER GROUND
UGE UP	UNDER GROUND ELECTRIC UTILITY POLE
UV	ULTRAVIOLET
V	VALVE
	VERTICAL CURVE
VERT.	VERTICAL
W	WIDTH
W W/	WEST WITH
WD	WIDE
WL	WATER LEVEL
W/L	WATER LINE
WM WSE	WATER METER WATER SURFACE ELEVATION
WSE WV	WATER SURFACE ELEVATION WATER VALVE
WWF	WELDED WIRE FABRIC
YD	YARD
YI YH	YARD INLET
YH	YARD HYDRANT

EXISTING CONDITIONS LEGEND

DB

L

BLDG

CIP

CMP

CONC

PROP

DEED BOOK

CAST IRON PIPE

BUILDING

CONCRETE

PROPOSED

EX/EXIST EXISTING

LINE (SEE LINE TABLE)

CORRUGATED METAL PIPE

RXR

		EVIS LING COUDI	
	TELE	EPHONE PEDESTAL	Δ
		CTRIC PEDESTAL	OIPS
	CAB	BLE TV PEDESTAL	\boxtimes
SIGN	SIGN	١	⊠CM-R/W
- CATV		ERGROUND CABLE TV SIGN	DOT MON
		ERGROUND FIBER OPTIC CABLE SIGN	
UG TCS		ERGROUND TELEPHONE CABLE SIGN	●RRSPIKE ◎ PK_NL
		ERGROUND ELECTRIC LINE SIGN	
		IT POLE	
UP	UTIL	ITY POLE	ACP/NL GPS
(WIRE ANCHOR	△CP/NL
©TSP R X R		FFIC SIGNAL POLE ROAD CROSSING SIGNAL	
⊙ мн		IHOLE	₩ NGS METAL ROD —
⊙ SSMH		ITARY SEWER MANHOLE	NGS CM
⊙ SDMH	ST0	RM DRAIN MANHOLE	
		MUNICATION MANHOLE	
⊙ J.B. த ⊱ SPIGOT		CTION BOX GOT/YARD HYDRANT	(40) (66)
⊘ C.O.		ER CLEAN-OUT	
O E.SS	ELE	CTRIC SERVICE STUB-OUT	
O G.SS	GAS	SERVICE STUB-OUT	●PZ
ШСВ		CH BASIN	8
O ₩M Q FH		ER METER HYDRANT	0
× wv		ER VALVE	
⋈ BLOWOFF VALVE	BLO	W OFF VALVE	[]MB
^b g∕M	GAS	METER	DPB
[▶] G∕V		S VALVE	SAT DISH
			●YARD ORNAMENT
		T INDICATOR VALVE	Sin .
		FFIC SIGNAL BOX	کی ک
	GEO	TECHNICAL BORING	(H) HORIZONTAL(G) NC STATE P
U			(G) NO STATE P
		xx	COLVENI
			FENCE SILT FENCE
		-0	GUARD RAIL
		sss	APPROXIMATE LO
		wwww	APPROXIMATE LO
			EXISTING WATER
		CCC	EXISTING GAS LI
			TOE OF SLOPE
		DL DL DL	DITCH LINES APPROXIMATE LO
		CTVCTVCTV	UNDERGROUND C
		CTV	APPROXIMATE LO
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		E E	APPROXIMATE LO
			APPROXIMATE LC
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		<u>و</u> و	CENTERLINE VAR
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	IPS	IRON PIN SET	CPP
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	Q.	CENTERLINE	FOC
	С	CURVE (SEE CURVE TABLE)	GIP
	POB	POINT OF BEGINNING	O/H RCP
	CP	CALCULATED POINT	U/G
	PB DB	PLAT BOOK DEED BOOK	VCP
	174		

REF DOT NGS NCSP MTR BOX EL	
NOT TO	S

PVC

FFE

PG

ELIZABETH ST & JOHNSON ST
STORM DRAINAGE IMPROVEMENTS
TOWN OF ST. PAULS
 ROBESON COUNTY, NORTH CAROLINA

OFFICE MANAGER	DES
B. ROARK	C
PROJECT MANAGER	RE
D. SABEH	C

- CALCULATED POINT 1/2" REBAR SET WITH CAP CONCRETE MONUMENT RIGHT-OF-WAY MONUMENT D.O.T. CONTROL POINT REBAR FOUND RAILROAD SPIKE PK NAIL FOUND / SET SPINDLE FOUND / SET HUB & TACK SET CONTROL POINT NAIL SET / FOUND CONTROL POINT/NAIL SET GPS CONTROL POINT TEMPORARY MARK TAL ROD NATIONAL GEODETIC SURVEY METAL ROD
 - NATIONAL GEODETIC SURVEY CONCRETE MONUMENT 4. TEMPORARY CONTROL POINT SET NETWORK TRIANGULATION POINT
 - STAKE FOUND INTERSTATE HIGHWAY
 - U.S. HIGHWAY FINISHED FLOOR ELEVATION
 - MONITORING WELL
 - PIEZOMETER
 - LANDFILL GAS MONITORING PROBE SURFACE WATER SAMPLING LOCATION
 - LANDFILL GAS VENT
 - LANDFILL GAS COLLECTION WELLHEAD POTABLE WATER WELL
 - MAILBOX OR PAPER BOX
 - POSTAL DROP BOX
- SATELLITE DISH NAMENT STATUE, BIRD BATHS, ETC.
 - TREES
 - SHRUBS / BUSHES
- IZONTAL GROUND DISTANCE STATE PLANE GRID DISTANCE
- IMATE LOCATION OF SEWER LINES
- IMATE LOCATION OF WATER LINES
- IMATE LOCATION OF
- GAS LINES
- IMATE LOCATION OF ROUND CABLE TV LINE IMATE LOCATION OF
- AD CABLE TV LINE IMATE LOCATION OF ROUND FIBER OPTIC CABLE LINE
- IMATE LOCATION OF ROUND ELECTRIC LINE MATE LOCATION OF
- AD ELECTRIC LINE
- IMATE LOCATION OF ROUND TELEPHONE LINES MATE LOCATION OF
- AD TELEPHONE LINES F-WAY
- TY LINE NOT SURVEYED
- INE VARIANT INE/WETLANDS
- MATE LOCATION OF
- AD UTILITY LINE CORRUGATED PLASTIC PIPE DUCTILE IRON PIPE ELECTRIC & TELEPHONE FIBER OPTIC CABLE GALVANIZED IRON PIPE OVERHEAD REINFORCED CONCRETE PIPE
 - UNDERGROUND
 - VITRIFIED CLAY PIPE
 - POLYVINYL CHLORIDE PIPE FINISHED FLOOR ELEVATION
 - PAGE
 - REFERENCE DEPARTMENT OF TRANSPORTATION NATIONAL GEODETIC SYRVEY
 - NORTH CAROLINA STATE PLANE METER BOX
 - ELEVATION

GENERAL CONSTRUCTION NOTES

- 1. SURVEY IS REFERENCED TO HORIZ: NAD83, STATE PLANE (FEET) NORTH CAROLINA (FIFS 3200) VERTICAL: NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88) BY MCGILL ASSOCIATES, MARCH 1, 2022.
- 2. CONTRACTOR SHALL VERIFY ALL ELEVATIONS BEFORE INSTALLATION OF FACILITIES
- 3. NOT ALL UTILITIES ARE SHOWN. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE EXISTING UTILITIES AND UTILITY INFORMATION PRESENTED ON THESE DRAWINGS. ANY DISCREPANCIES SHALL BE ADDRESSED TO THE ENGINEER IN WRITING. THE CONTRACTOR IS RESPONSIBLE OF NOTIFYING AND COORDINATING WORK WITH THE AFFECTED UTILITY COMPANIES WHETHER HE PERFORMS THE WORK OR A UTILITY COMPANY PERFORMS THE WORK. ANY DAMAGE DONE TO EXISTING UTILITIES (SHOWN OR NOT SHOWN ON PLANS) SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTÓR SHALL CONTACT NC ONE CALL AT 1-800-632-4949 AT LEAST THREE WORKING DAYS PRIOR TO CONSTRUCTION. NON-SUBSCRIBERS SHALL BE CONTACTED DIRECTLY.
- ALL PUBLIC ROADWAYS SHALL REMAIN OPEN AT ALL TIMES UNLESS OTHERWISE NOTED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN ROAD SURFACES CLEAN AND FREE OF CONSTRUCTION SEDIMENT AND DEBRIS AT ALL TIMES.
- 5. ALL WORK SHALL BE PREFORMED IN ACCORDANCE WITH APPLICABLE LOCAL CITY, STATE, AND FEDERAL REGULATIONS AND PERMIT REQUIREMENTS.
- 6. CONTRACTOR SHALL OBTAIN AND PROVIDE TO THE OWNER TEMPORARY STREET AND DRIVEWAY ACCESS PERMIT FOR CONSTRUCTION ENTRANCES PRIOR TO ANY CONSTRUCTION ACTIVITY.
- 7. STORM DRAIN PIPE SHALL BE REINFORCED CONCRETE PIPE (RCP) CLASS III, PER NCDOT STANDARD SPECIFICATIONS SECTION 1032.
- 8. PRE-CAST CATCH BASINS SHALL CONFORM TO THE REQUIREMENTS OF NCDOT STANDARD SPECIFICATIONS FOR ROADS AND STRUCTURES (LATEST EDITION) ARTICLES 840-1 THROUGH 840-3. CURB INLET CATCH BASIN SHALL CONFORM TO NCDOT STANDARD DETAILS 840.02 THROUGH 840.04. DROP INLETS SHALL CONFORM TO STANDARD DETAIL 840.14. JUNCTION BOXES SHALL CONFORM TO STANDARD DETAIL 840.31. ALL PRE-CAST DRAINAGE STRUCTURES SHALL CONFORM TO NCDOT STANDARDS DETAIL 840.46.
- 9. CURB INLET FRAME, GRATE AND HOOD SHALL CONFORM TO NCDOT STANDARD DETAIL 840.03.
- 10. CONCRETE AND MASONRY SHALL MEET THE REQUIREMENTS OF APPROPRIATE SECTION OF NCDOT STANDARD SPECIFICATIONS FOR ROAD AND STRUCTURES (LATEST EDITION). CONCRETE SHALL BE CLASS A OR B, 4000 PSI MINIMUM, MEETING THE REQUIREMENTS OF SECTION 1000, CONSTRUCTED IN ACCORDANCE WITH SECTION 825 UNLESS NOTED OTHERWISE. MASONRY SHALL MEET THE REQUIREMENTS OF SECTION 1040, CONSTRUCTED IN ACCORDANCE WITH SECTION 830 AND/OR 834 UNLESS NOTED OTHERWISE.
- 11. TOPS OF PROPOSED FRAMES AND GRATES SHALL BE FLUSH WITH FINISHED GRADE.
- 12. ALL DISTURBED AREAS SHALL BE SEEDED AND MULCHED OR SODDED UPON COMPLETION OF CONSTRUCTION.

PRELIMINARY
FOR REVIEW PURPOSES ONLY -
DO NOT USE FOR
CONSTRUCTION

SCALE	NOTES & LEGEND		SHEET	
ESIGNER				$G_{-}02$
C. HEATHCOAT				
EVIEWER	DATE	PROJECT #	FUNDING #	
D. SABEH	FEBRUARY 2023	21.04018	N/A	

GROUND STABILIZATION AND MATERIALS HANDLING PRACTICES FOR COMPLIANCE WITH THE NCG01 CONSTRUCTION GENERAL PERMIT

Implementing the details and specifications on this plan sheet will result in the construction activity being considered compliant with the Ground Stabilization and Materials Handling sections of the NCG01 Construction General Permit (Sections E and F, respectively). The permittee shall comply with the Erosion and Sediment Control plan approved by the delegated authority having jurisdiction. All details and specifications shown on this sheet may not apply depending on site conditions and the delegated authority having jurisdiction.

Site Area Description a) Perimeter dikes, swales, ditches, and perimeter slopes b) High Quality Water (HQW) Zones c) Slopes steeper than 3:1 d) Slopes 3:1 to 4:1	Stabilize within thi many calendar days after ceasing land disturbance 7 7 7	Timeframe variations
swales, ditches, and perimeter slopes b) High Quality Water (HQW) Zones c) Slopes steeper than 3:1	7	None If slopes are 10' or less in length and are
(HQW) Zones c) Slopes steeper than 3:1		If slopes are 10' or less in length and are
3:1	7	
ៅ) Slopes 3:1 to 4:1		allowed
	14	 -7 days for slopes greater than 50' in length and with slopes steeper than 4:1 -7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed
e) Areas with slopes flatter than 4:1	14	-7 days for perimeter dikes, swales, ditches, perimeter slopes and HQW Zones -10 days for Falls Lake Watershed unless there is zero slope
ound stabilization shall b cticable but in no case l ivity. Temporary groun	e converted to pern onger than 90 calen d stabilization shall b	fuction activities, any areas with temporary manent ground stabilization as soon as idar days after the last land disturbing be maintained in a manner to render the il permanent ground stabilization is achieved.
OUND STABILIZATION S bilize the ground sufficie thniques in the table bel Temporary Stabiliza Temporary grass seed covere other mulches and tackifiers Hydroseeding Rolled erosion control produc without temporary grass seed Appropriately applied straw of Plastic sheeting	ently so that rain will OW: ation ed with straw or ed with straw or cts with or d br other mulch	Ill not dislodge the soil. Use one of the Permanent Stabilization manent grass seed covered with straw or er mulches and tackifiers textile fabrics such as permanent soil forcement matting roseeding ubs or other permanent plantings covered o mulch
	suffi • Struc retai	form and evenly distributed ground cover icient to restrain erosion ctural methods such as concrete, asphalt or ining walls ed erosion control products with grass seed
 construction, selecti Apply flocculants at Apply flocculants at PAMS/Flocculants ar 	at are appropriate for ng from the <i>NC DWH</i> or before the inlets the concentrations s nd in accordance wit	or the soils being exposed during <i>R List of Approved PAMS/Flocculants</i> . to Erosion and Sediment Control Measures. specified in the <i>NC DWR List of Approved</i> th the manufacturer's instructions.
offsite.	eak-proof container	f treated Stormwater before discharging rs that are kept under storm-resistant cover nt structures.
	N	CG01 GROUND S

project

ER, BUILDING MATERIAL AND LAND CLEARING WASTE

NT AND OTHER LIQUID WASTE

RTABLE TOILETS

- foot traffic areas.

RTHEN STOCKPILE MANAGEMENT

- available.

DATE BY

EQUIPMENT AND VEHICLE MAINTENANCE

1. Maintain vehicles and equipment to prevent discharge of fluids. 2. Provide drip pans under any stored equipment.

3. Identify leaks and repair as soon as feasible, or remove leaking equipment from the

4. Collect all spent fluids, store in separate containers and properly dispose as hazardous waste (recycle when possible).

Remove leaking vehicles and construction equipment from service until the problem has been corrected.

Bring used fuels, lubricants, coolants, hydraulic fluids and other petroleum products to a recycling or disposal center that handles these materials.

Never bury or burn waste. Place litter and debris in approved waste containers. Provide a sufficient number and size of waste containers (e.g dumpster, trash receptacle) on site to contain construction and domestic wastes.

Locate waste containers at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

Locate waste containers on areas that do not receive substantial amounts of runoff from upland areas and does not drain directly to a storm drain, stream or wetland. Cover waste containers at the end of each workday and before storm events or provide secondary containment. Repair or replace damaged waste containers.

Anchor all lightweight items in waste containers during times of high winds. Empty waste containers as needed to prevent overflow. Clean up immediately if containers overflow.

Dispose waste off-site at an approved disposal facility.

On business days, clean up and dispose of waste in designated waste containers.

Do not dump paint and other liquid waste into storm drains, streams or wetlands. Locate paint washouts at least 50 feet away from storm drain inlets and surface waters unless no other alternatives are reasonably available.

Contain liquid wastes in a controlled area.

Containment must be labeled, sized and placed appropriately for the needs of site. Prevent the discharge of soaps, solvents, detergents and other liquid wastes from construction sites.

Install portable toilets on level ground, at least 50 feet away from storm drains, streams or wetlands unless there is no alternative reasonably available. If 50 foot offset is not attainable, provide relocation of portable toilet behind silt fence or place on a gravel pad and surround with sand bags.

Provide staking or anchoring of portable toilets during periods of high winds or in high

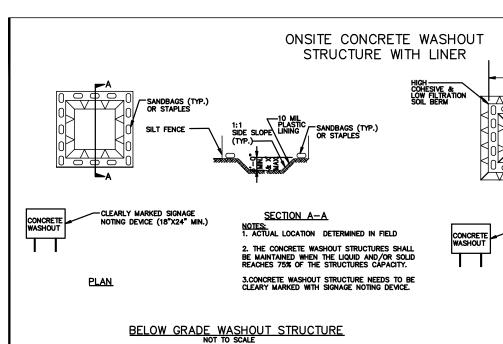
Monitor portable toilets for leaking and properly dispose of any leaked material. Utilize a licensed sanitary waste hauler to remove leaking portable toilets and replace with properly operating unit.

Show stockpile locations on plans. Locate earthen-material stockpile areas at least 50 feet away from storm drain inlets, sediment basins, perimeter sediment controls and surface waters unless it can be shown no other alternatives are reasonably

Protect stockpile with silt fence installed along toe of slope with a minimum offset of five feet from the toe of stockpile.

Provide stable stone access point when feasible.

Stabilize stockpile within the timeframes provided on this sheet and in accordance with the approved plan and any additional requirements. Soil stabilization is defined as vegetative, physical or chemical coverage techniques that will restrain accelerated erosion on disturbed soils for temporary or permanent control needs.



CONCRETE WASHOUTS

- 1. Do not discharge cond
- 2. Dispose of, or recycle and state solid waste
- 3. Manage washout from addition place the mi lot perimeter silt fenc
- 4. Install temporary con alternate method or review and approval. types of temporary co
- 5. Do not use concrete v sections. Stormwater discharged to the stor be pumped out and re
- 6. Locate washouts at le can be shown that no install protection of st spills or overflow.
- 7. Locate washouts in ar entrance pad in front approving authority.
- 8. Install at least one sig limits. Post signage o
- 9. Remove leavings from overflow events. Rep components when no products, follow man
- 10. At the completion of in an approved dispos caused by removal of

HERBICIDES, PESTICIDES AN

- Store and apply herbi restrictions.
- Store herbicides, pest label, which lists direc accidental poisoning.
- 3. Do not store herbicide possible or where the or surface water. If a
- 4. Do not stockpile these

HAZARDOUS AND TOXIC W/

- 1. Create designated haz
- 2. Place hazardous waste
- Do not store hazardou

BILIZATION AND MATERIALS HANDLING

ASHO	JT					
		SANDBAGS (TYP OR STAPLES High PLASTIC LINING 10 MIL PLASTIC LINING 1:1 SIDE SLOPE (TYP.) SOL BERM SOL BERM SECTION B-B				
	CLEARLY MARKED SIGNAGE NOTING DEVICE (18"X24" MIN.)	FIELD 2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 1: INCHES OF FREEBOARD.	2			
	ABOVE GRADE WASH	3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. HOUT STRUCTURE NE				
con an a	from the site. crete residue in acc opproved facility. ordance with the at					
		s barrier and within				
ed, c letail	ontact your approv	nere applicable. If a al authority for use one of the two	n			
nin th r rece ect.	ne washout may no eiving surface wate	ve curb or sidewalk t be pumped into or rs. Liquid waste mu	- st			
s are	reasonably availab	rface waters unless le. At a minimum, which could receive				
	, on level ground ar ional controls may					
elf to en at d bag	identify this locatic approximately 75% s or other tempora ien utilizing alterna	capacity to limit ry structural				
, ren	nove remaining leav	vings and dispose of ze any disturbance				
nd ro	denticides in accor	dance with label				
	in their original co Its and first aid step					
into	nticides in areas wh wells, stormwater o immediately.	ere flooding is drains, ground wate	r			
cove	n areas on-site. er or in secondary c pagged materials di	ontainment. rectly on the ground	d.			
E	FFECTIV	/E: 04/01/	/19		- FOR REVIEW PL DO NOT L CONSTR	JSE FOR
TC) SCALE	NCDEQ G	ENERAL	PERMI	T NOTES	SHEET
	DESIGNER C. HEATHCOAT		_			G-03
	REVIEWER D. SABEH	DATE FEBRUARY 2023	PROJECT # 21.04018	F	UNDING #	

	ISITE CONCRETE WAS	HOUT			
	STRUCTURE WITH LIN	ER	-SANDBAGS (TYP.)		
-10 MIL PLASTI LINING			10 MIL PLASTIC LINING -1:1 SIDE SLOPE -1:1 SIDE SLOPE		
	LA-A Tion determined in Field	SANDBAGS (TYP OR STAPLES	FIELD		
CONCRET	E WASHOUT STRUCTURES SHALL WHEN THE LQUID AND/OR SOLD F THE STRUCTURES CAPACITY. SHOUT STRUCTURE NEEDS TO BE WITH SIGNAGE NOTING DEVICE.	CONCRETE NOTING DEVICE (18"X24" MIN.	2. THE CONCRETE WASHOUT STRUCTURES SHALL BE MAINTAINED WHEN THE LIQUID AND/OR SOLID REACHES 75% OF THE STRUCTURES CAPACITY TO PROVIDE ADEQUATE HOLDING CAPACITY WITH A MINIMUM 12 INCHES OF FREEBOARD.		
STR	<u>UCTURE</u>	ABOVE GRADE WAS	3.CONCRETE WASHOUT STRUCTURE NEEDS TO BE CLEARY MARKED WITH SIGNAGE NOTING DEVICE. HOUT STRUCTURE CALE		
set reg n m xer e. cref broo If I broc vas	ulations and at an nortar mixers in a and associated m te washouts per l duct is to be used ocal standard det rete washouts pro houts for dewate	oncrete residue in acc n approved facility. ccordance with the al naterials on imperviou ocal requirements, w , contact your approv ails are not available, ovided on this detail. ring or storing defect	bove item and in us barrier and within here applicable. If an val authority for , use one of the two ive curb or sidewalk		
rm emo ast otl	drain system or re oved from project 50 feet from stor her alternatives a	eceiving surface wate t.			
	•	ea, on level ground aı ditional controls may			
n th h th lac o lor	ne washout itself e washout when e the tarp, sand b	trucks to the washou to identify this locatio at approximately 75% ags or other tempora When utilizing alternations.	on. 6 capacity to limit ary structural		
sal f		emove remaining lea applicable, and stabil	-		
	RODENTICIDES es, pesticides and	rodenticides in accor	rdance with label		
		les in their original co ients and first aid ste			
y m spil		-	nere flooding is drains, ground water		
<u> </u>	·c				
	ous waste collect	ion areas on-site. over or in secondary o	containment.		
		-	irectly on the ground.		
]	EFFECTIV	/E: 04/01/19	- FOR REVIEW P DO NOT	/INARY URPOSES ONLY - USE FOR RUCTION
					SHEET
		TO SCALE	NCDEQ GENERAL	PERMIT NOTES	
	OFFICE MANAGER B. ROARK	DESIGNER C. HEATHCOAT			G-03
	PROJECT MANAGER D. SABEH	REVIEWER D. SABEH	DATE PROJECT # FEBRUARY 2023 21.04018	FUNDING # N/A	

ROBESON COUNTY, NORTH CAROLINA

DESCRIPTION

ELIZABETH ST & JOHNSON ST STORM DRAINAGE IMPROVEMENTS	•
TOWN OF ST. PAULS)

PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION A: SELF-INSPECTION

Self-inspections are required during normal business hours in accordance with the table below. When adverse weather or site conditions would cause the safety of the inspection personnel to be in jeopardy, the inspection may be delayed until the next business day on which it is safe to perform the inspection. In addition, when a storm event of equal to or greater than 1.0 inch occurs outside of normal business hours, the self-inspection shall be performed upon the commencement of the next business day. Any time when inspections were delayed shall be noted in the Inspection Record.

Inspect	Frequency (during normal business hours)	Inspection records must include:
(1) Rain gauge maintained in good working	Daily	Daily rainfall amounts. If no daily rain gauge observations are made during weekend or holiday periods, and no individual-day rainfall information is
order		available, record the cumulative rain measurement for those un- attended days (and this will determine if a site inspection is needed). Days on which no rainfall occurred shall be recorded as "zero." The permittee may use another rain-monitoring device approved by the Division.
(2) E&SC	At least once per	1. Identification of the measures inspected,
Measures	7 calendar days	2. Date and time of the inspection,
	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Indication of whether the measures were operating
	event \geq 1.0 inch in	properly,
	24 hours	5. Description of maintenance needs for the measure,
		6. Description, evidence, and date of corrective actions taken.
(3) Stormwater	At least once per	1. Identification of the discharge outfalls inspected,
discharge	7 calendar days	2. Date and time of the inspection,
outfalls (SDOs)	and within 24	3. Name of the person performing the inspection,
	hours of a rain	4. Evidence of indicators of stormwater pollution such as oil
	event > 1.0 inch in	sheen, floating or suspended solids or discoloration,
	24 hours	5. Indication of visible sediment leaving the site,
	21110013	6. Description, evidence, and date of corrective actions taken.
(4) Perimeter of	At least once per	If visible sedimentation is found outside site limits, then a record
site	7 calendar days	of the following shall be made:
Site	and within 24	1. Actions taken to clean up or stabilize the sediment that has left
	hours of a rain	the site limits,
	event \geq 1.0 inch in	2. Description, evidence, and date of corrective actions taken, and
	24 hours	 An explanation as to the actions taken to control future releases.
(5) Streams or	At least once per	If the stream or wetland has increased visible sedimentation or a
wetlands onsite	7 calendar days	stream has visible increased turbidity from the construction
or offsite	and within 24	activity, then a record of the following shall be made:
(where	hours of a rain	1. Description, evidence and date of corrective actions taken, and
accessible)	event ≥ 1.0 inch in 24 hours	2. Records of the required reports to the appropriate Division Regional Office per Part III, Section C, Item (2)(a) of this permit of this permit.
(6) Ground	After each phase	1. The phase of grading (installation of perimeter E&SC
stabilization	of grading	measures, clearing and grubbing, installation of storm
measures		drainage facilities, completion of all land-disturbing
		activity, construction or redevelopment, permanent
		ground cover).
		2. Documentation that the required ground stabilization
		measures have been provided within the required
		timeframe or an assurance that they will be provided as
		soon as possible.

NOTE: The rain inspection resets the required 7 calendar day inspection requirement.

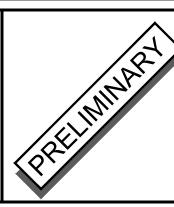
shown on the approv (b) A phase of gradir (c) Ground cover is l in accordance with the Plan. (d) The maintenanc requirements for all have been performe (e) Corrective action to E&SC Measures. 2. Additional Documentation In addition to the E&SC Plan documents above, the following items shall be kept on the site and available for agency inspectors at all times during normal business hours, unless the Division provides a site-specific exemption based on unique site conditions that make this requirement not practical: (a) This general permit as well as the certificate of coverage, after it is received. (b) Records of inspections made during the previous 30 days. The permittee shall record the required observations on the Inspection Record Form provided by the Division or a similar inspection form that includes all the required elements. Use of electronically-available records in lieu of the required paper copies will be allowed if shown to provide equal access and utility as the hard-copy records.

All data used to complete the Notice of Intent and older inspection records shall be (c) maintained for a period of three years after project completion and made available upon request. [40 CFR 122.41]

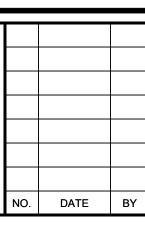
NCG01 SELF-INSPECTION, RECORDKEEPING AND REPORTING



55 Broad Street Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com







PART III SELF-INSPECTION, RECORDKEEPING AND REPORTING

SECTION B: RECORDKEEPING

1. E&SC Plan Documentation

The approved E&SC plan as well as any approved deviation shall be kept on the site. The approved E&SC plan must be kept up-to-date throughout the coverage under this permit. The following items pertaining to the E&SC plan shall be documented in the manner

Item to Document	Documentation Requirements
(a) Each E&SC Measure has been installed and does not significantly deviate from the locations, dimensions and relative elevations shown on the approved E&SC Plan.	Initial and date each E&SC Measure on a copy of the approved E&SC Plan or complete, date and sign an inspection report that lists each E&SC Measure shown on the approved E&SC Plan. This documentation is required upon the initial installation of the E&SC Measures or if the E&SC Measures are modified after initial installation.
(b) A phase of grading has been completed.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate completion of the construction phase.
(c) Ground cover is located and installed in accordance with the approved E&SC Plan.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate compliance with approved ground cover specifications.
(d) The maintenance and repair requirements for all E&SC Measures have been performed.	Complete, date and sign an inspection report.
(e) Corrective actions have been taken to E&SC Measures.	Initial and date a copy of the approved E&SC Plan or complete, date and sign an inspection report to indicate the completion of the corrective action.

SELF-INSPECTION,

SECTION C: REPORTING

1. Occurrences that must be reported

Permittees shall report the following

(a) Visible sediment deposition in a

(b) Oil spills if:

- They are 25 gallons or more,
- They are less than 25 gallons
- They cause sheen on surface
- They are within 100 feet of sur
- (a) Releases of hazardous substance of the Clean Water Act (Ref: 40 ((Ref: 40 CFR 302.4) or G.S. 143-2
- (b) Anticipated bypasses and unanti
- (c) Noncompliance with the condition environment.

2. Reporting Timeframes and Other Re

After a permittee becomes aware of the appropriate Division regional off other requirements listed below. Oc reported to the Division's Emergency 858-0368 or (919) 733-3300.

Occurrence	Reporting Timeframes (After Discovery)
(a) Visible sediment deposition in a stream or wetland	 Within 24 hours, an oral or electronic r Within 7 calendar days, a report that a sediment and actions taken to address Division staff may waive the requireme case-by-case basis. If the stream is named on the NC 303(a related causes, the permittee may be r monitoring, inspections or apply more determine that additional requirement with the federal or state impaired-wate
(b) Oil spills and release of hazardous substances per Item 1(b)-(c) above	 Within 24 hours, an oral or electronic r shall include information about the dat location of the spill or release.
(c) Anticipated bypasses [40 CFR 122.41(m)(3)]	 A report at least ten days before the d The report shall include an evaluation o effect of the bypass.
(d) Unanticipated bypasses [40 CFR 122.41(m)(3)]	 Within 24 hours, an oral or electronic r Within 7 calendar days, a report that i quality and effect of the bypass.
(e) Noncompliance with the conditions of this permit that may endanger health or the environment[40 CFR 122.41(I)(7)]	 Within 24 hours, an oral or electronic r Within 7 calendar days, a report that a noncompliance, and its causes; the perincluding exact dates and times, and if been corrected, the anticipated time n continue; and steps taken or planned t prevent reoccurrence of the noncompl Division staff may waive the requirement case-by-case basis.

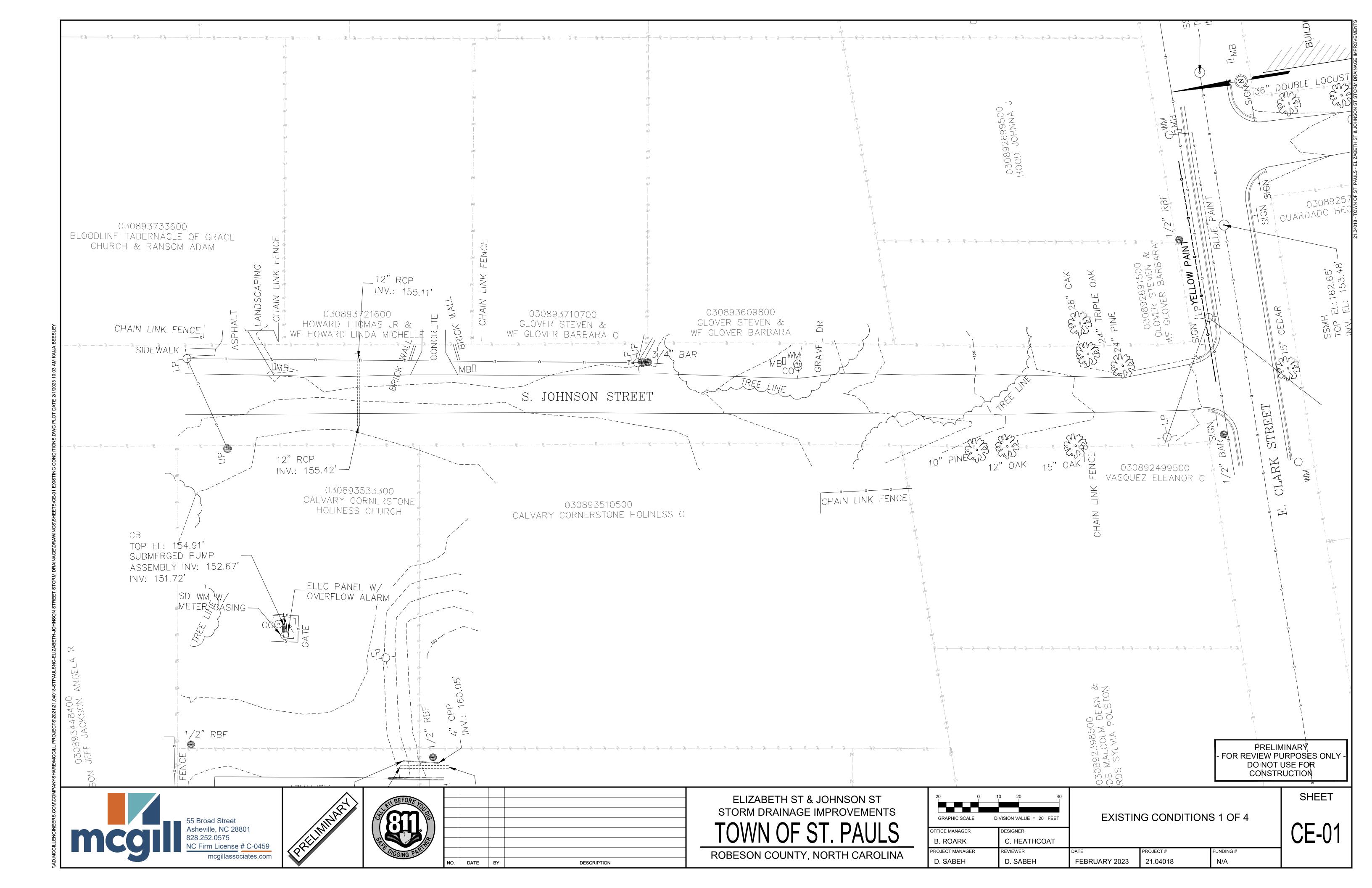
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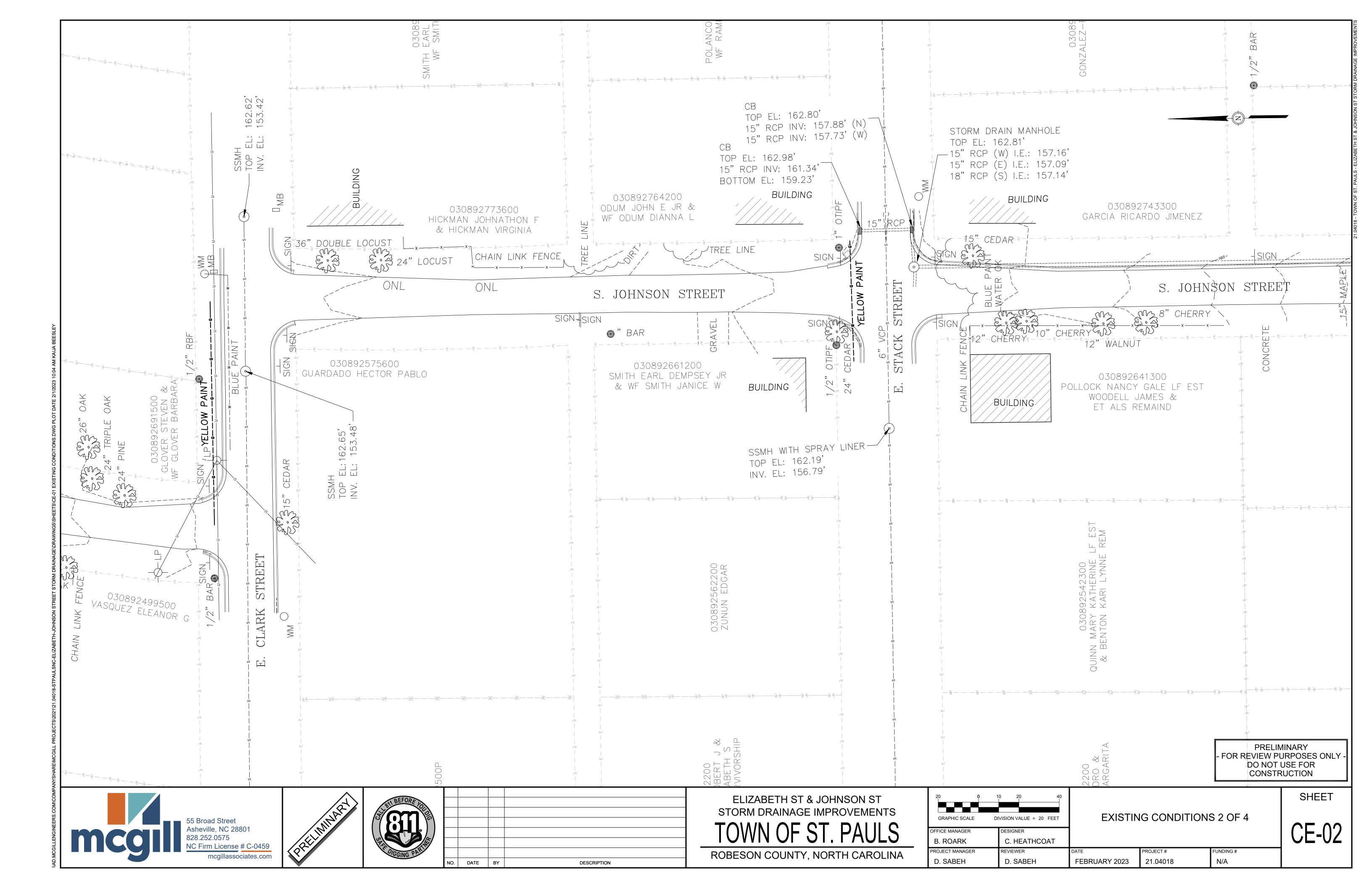
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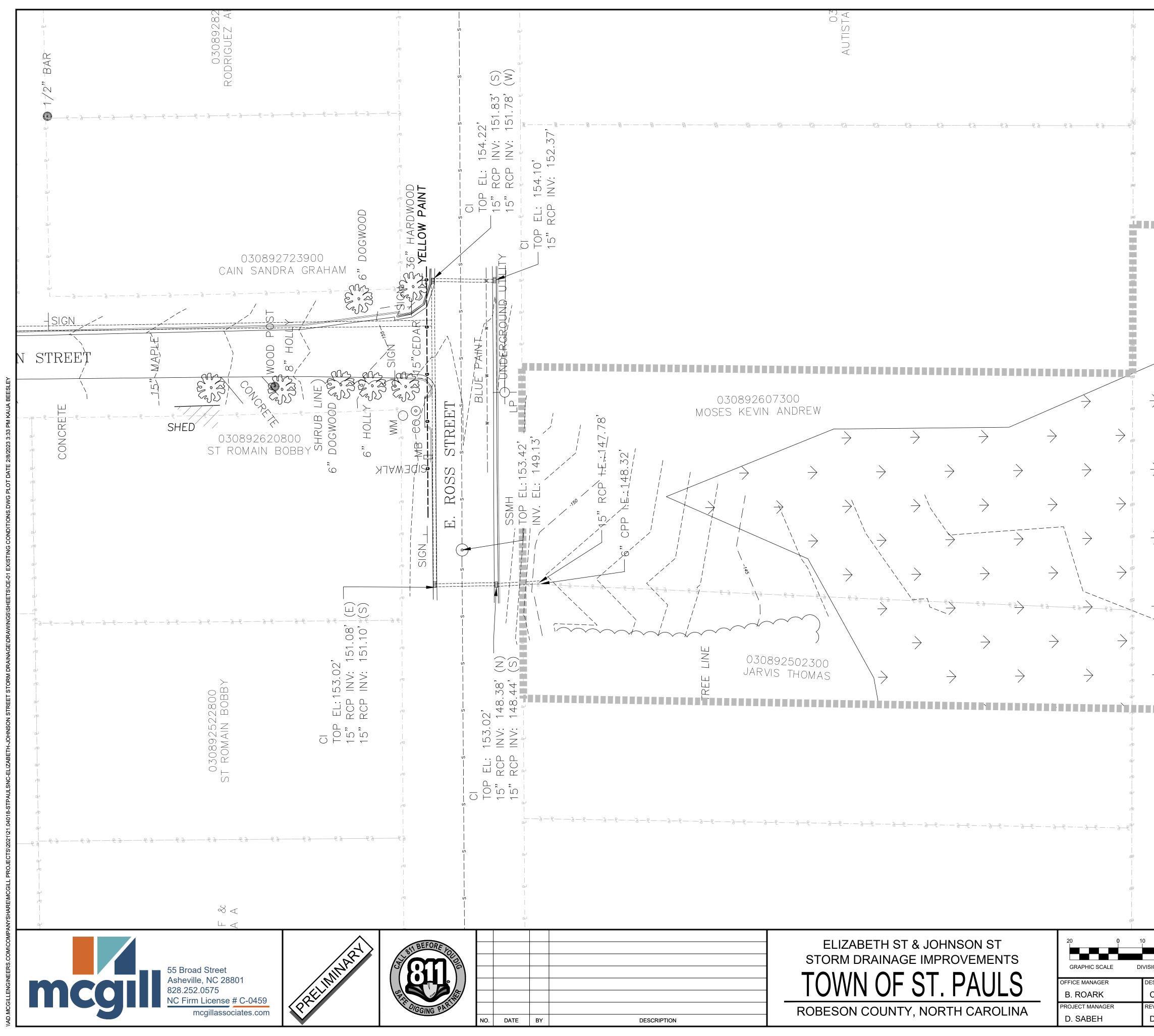
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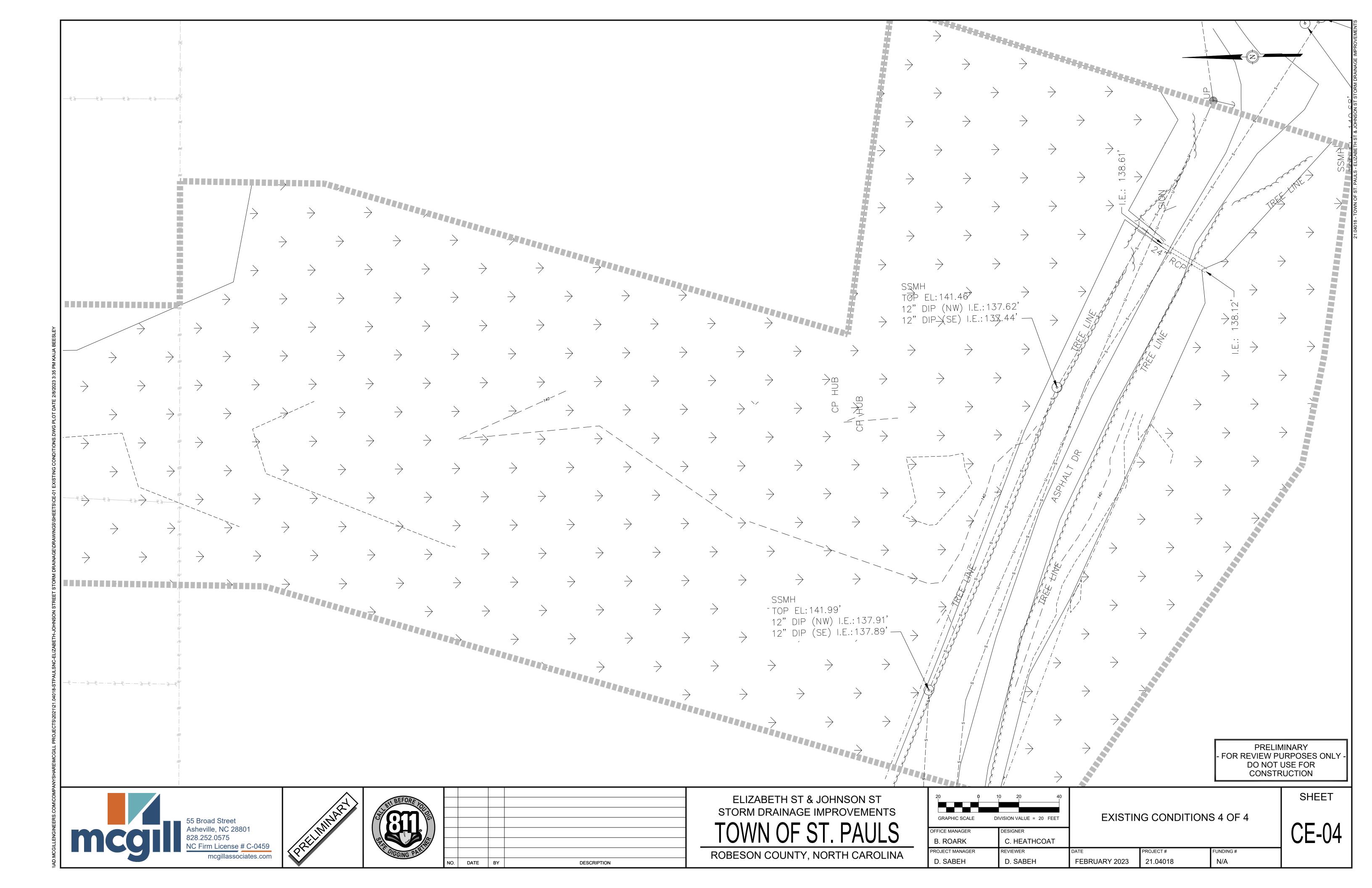
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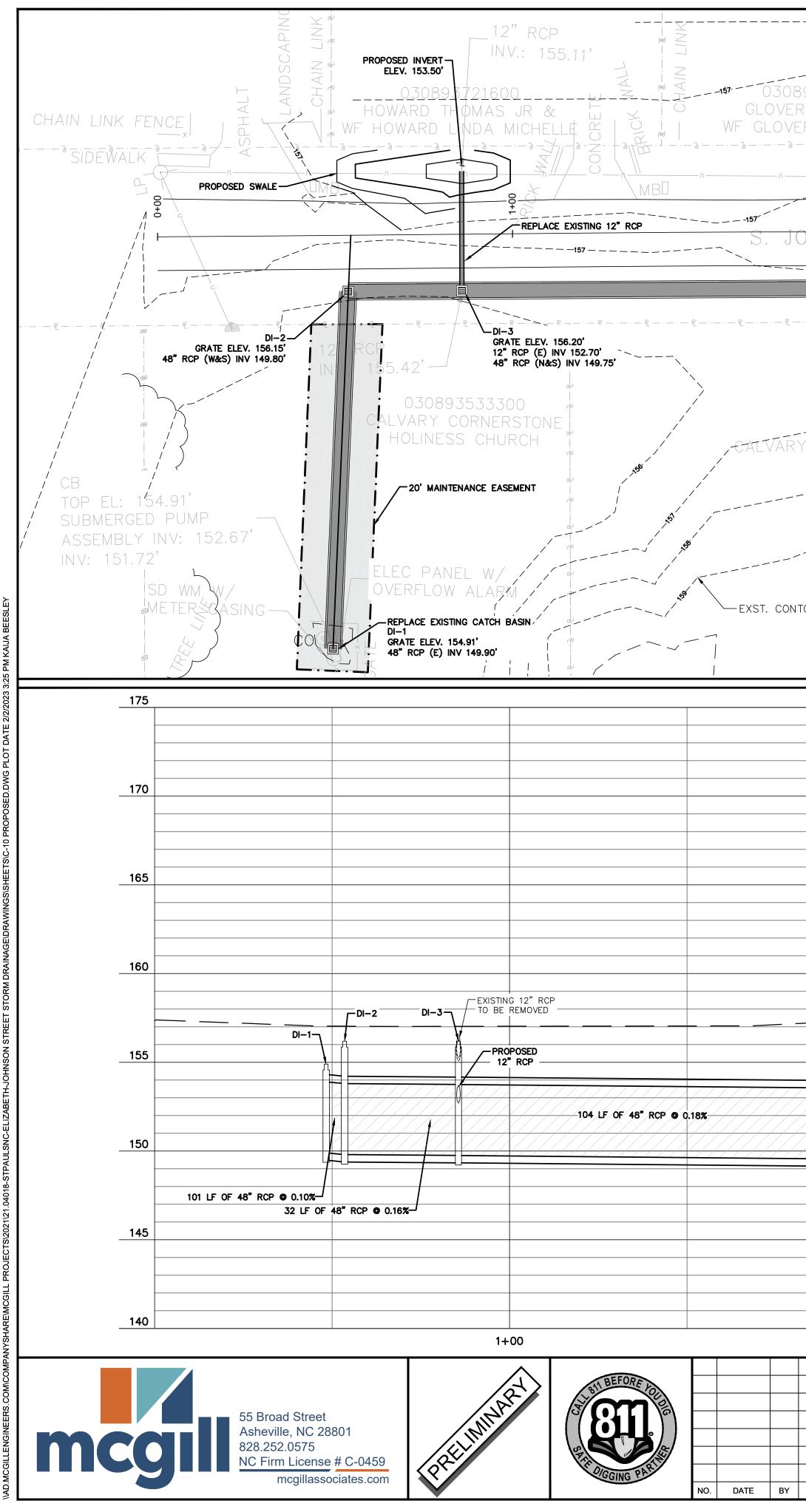




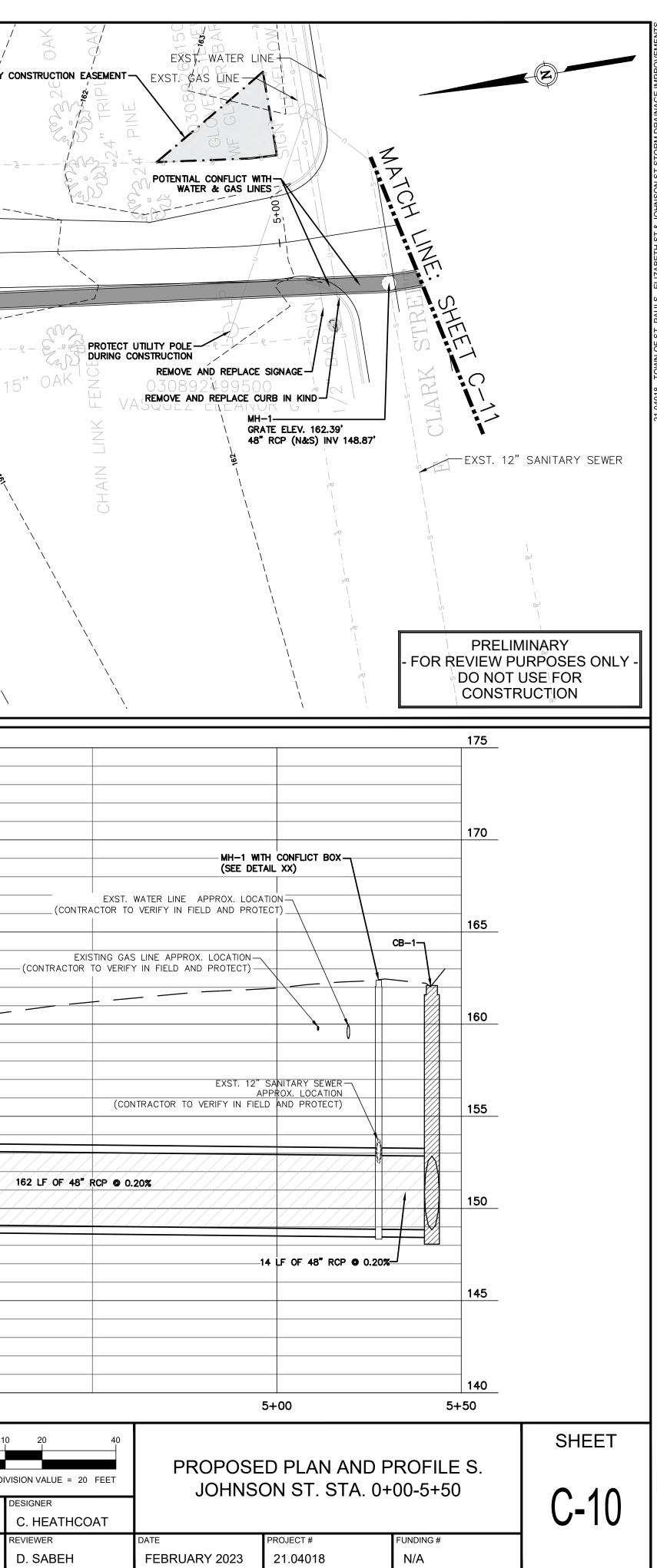


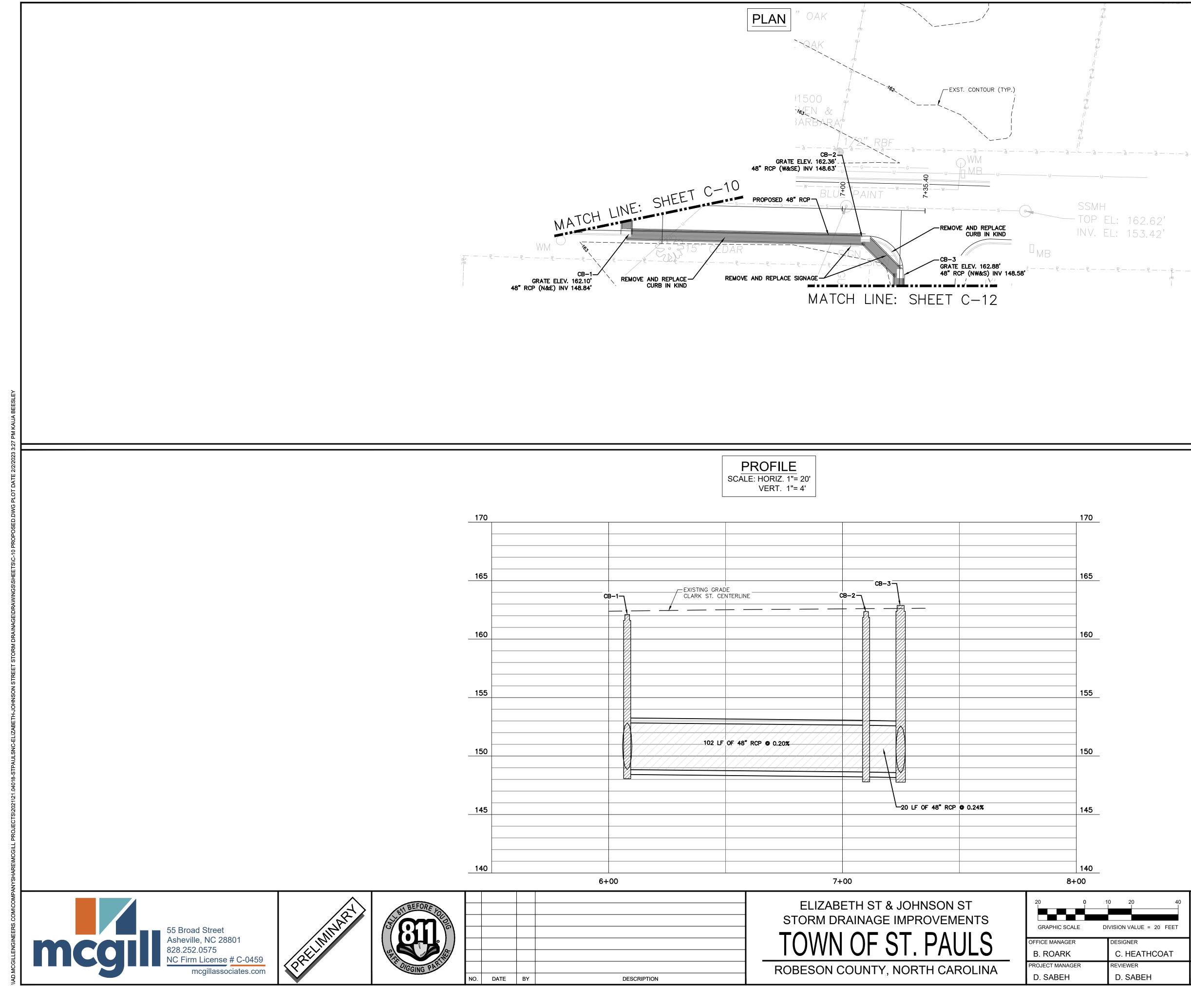
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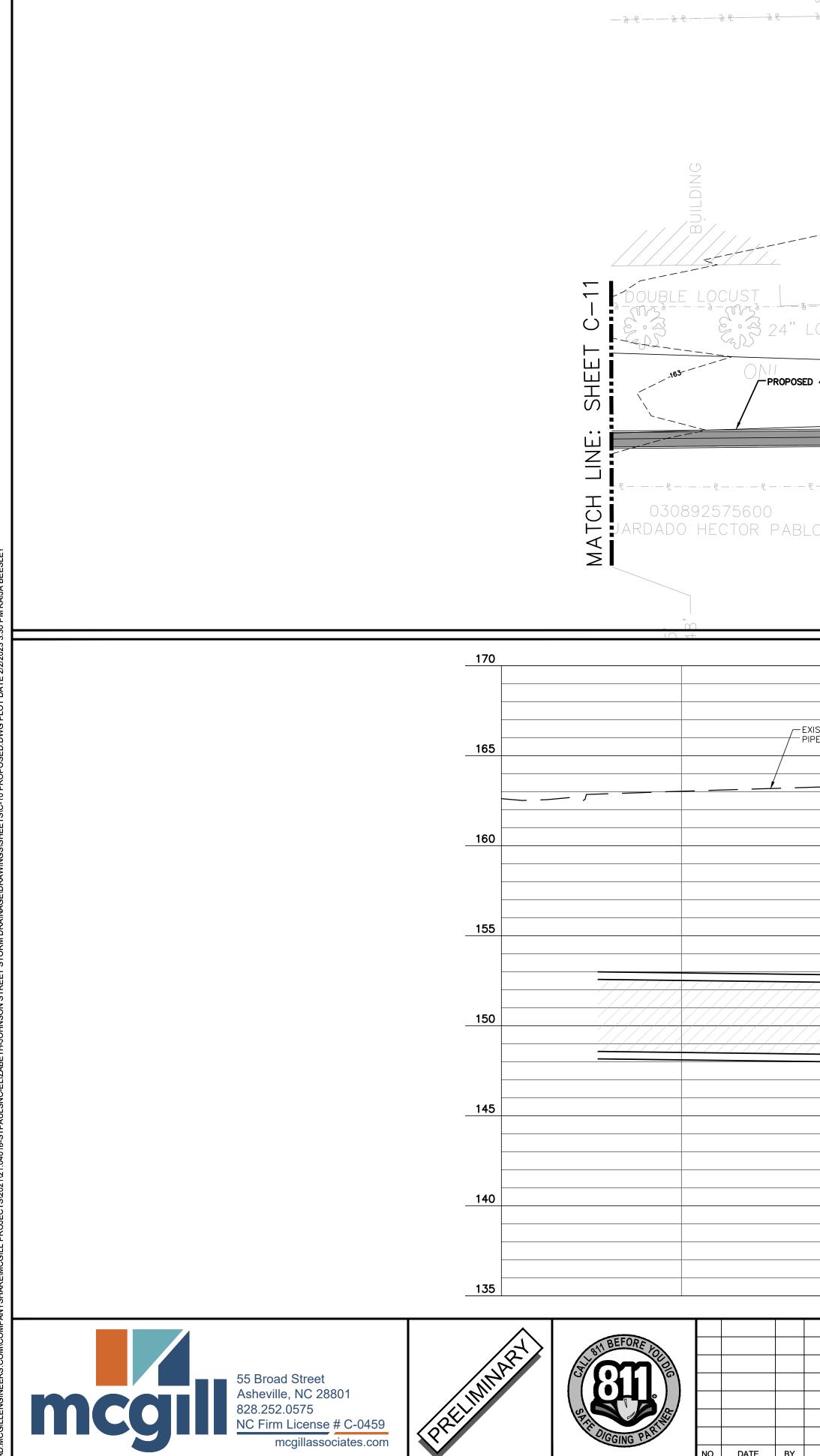


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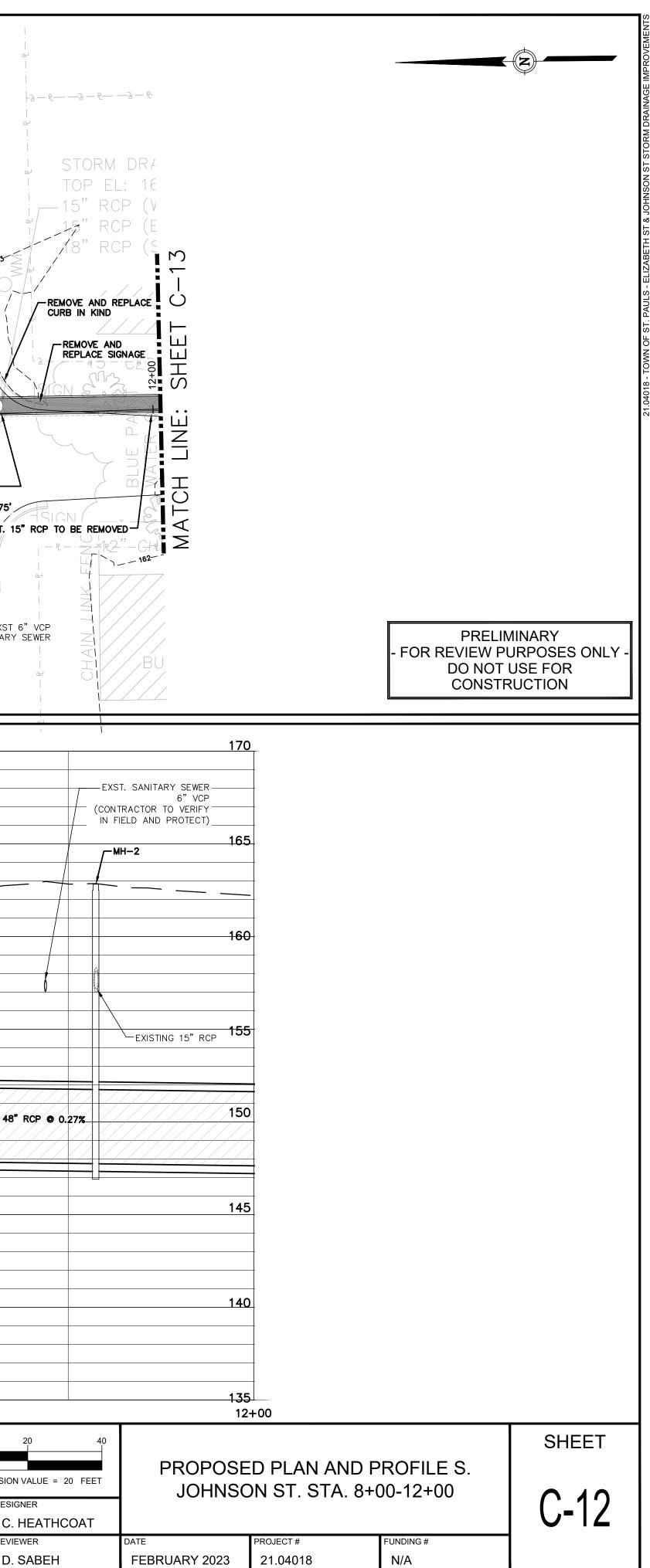


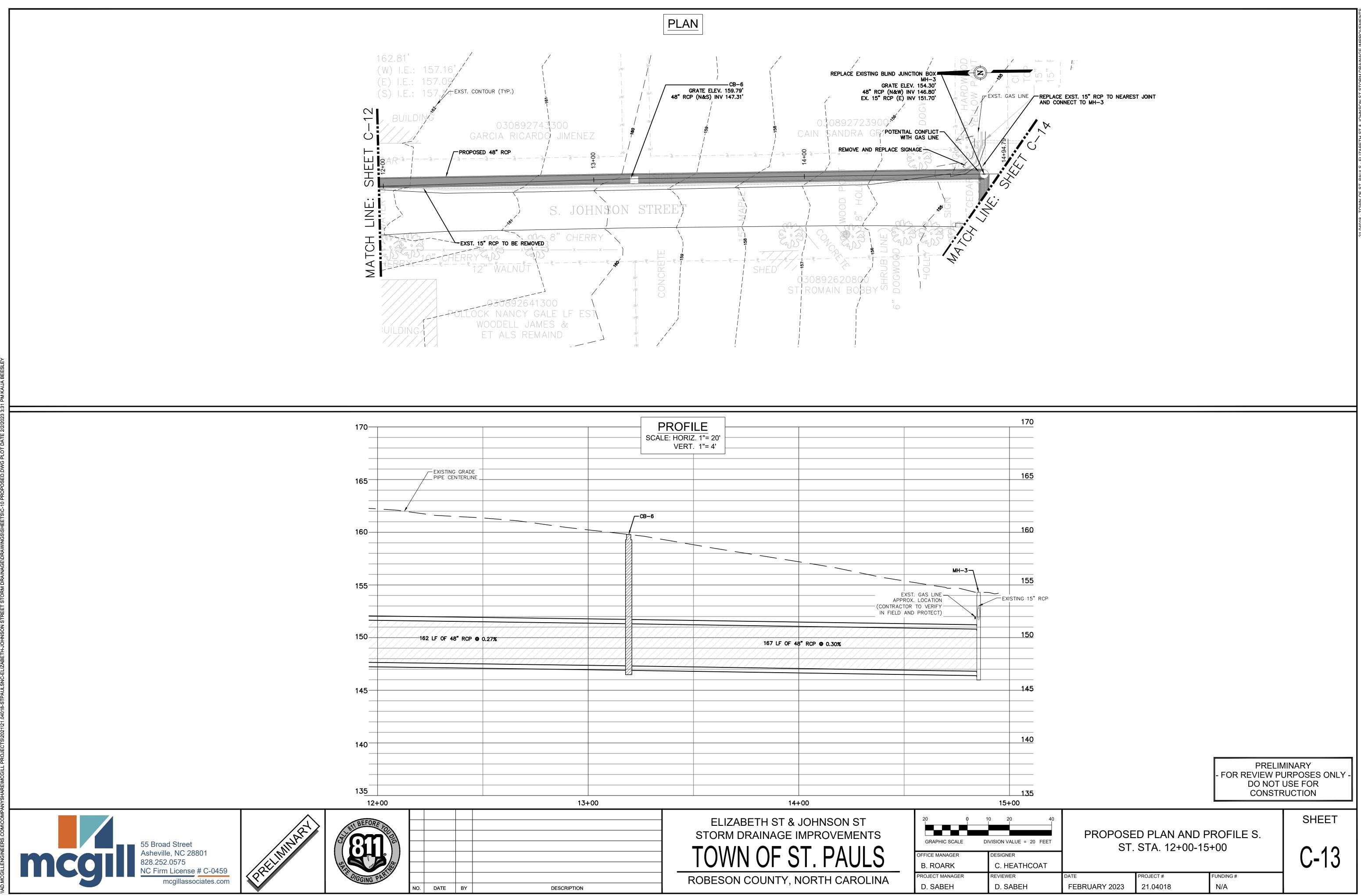
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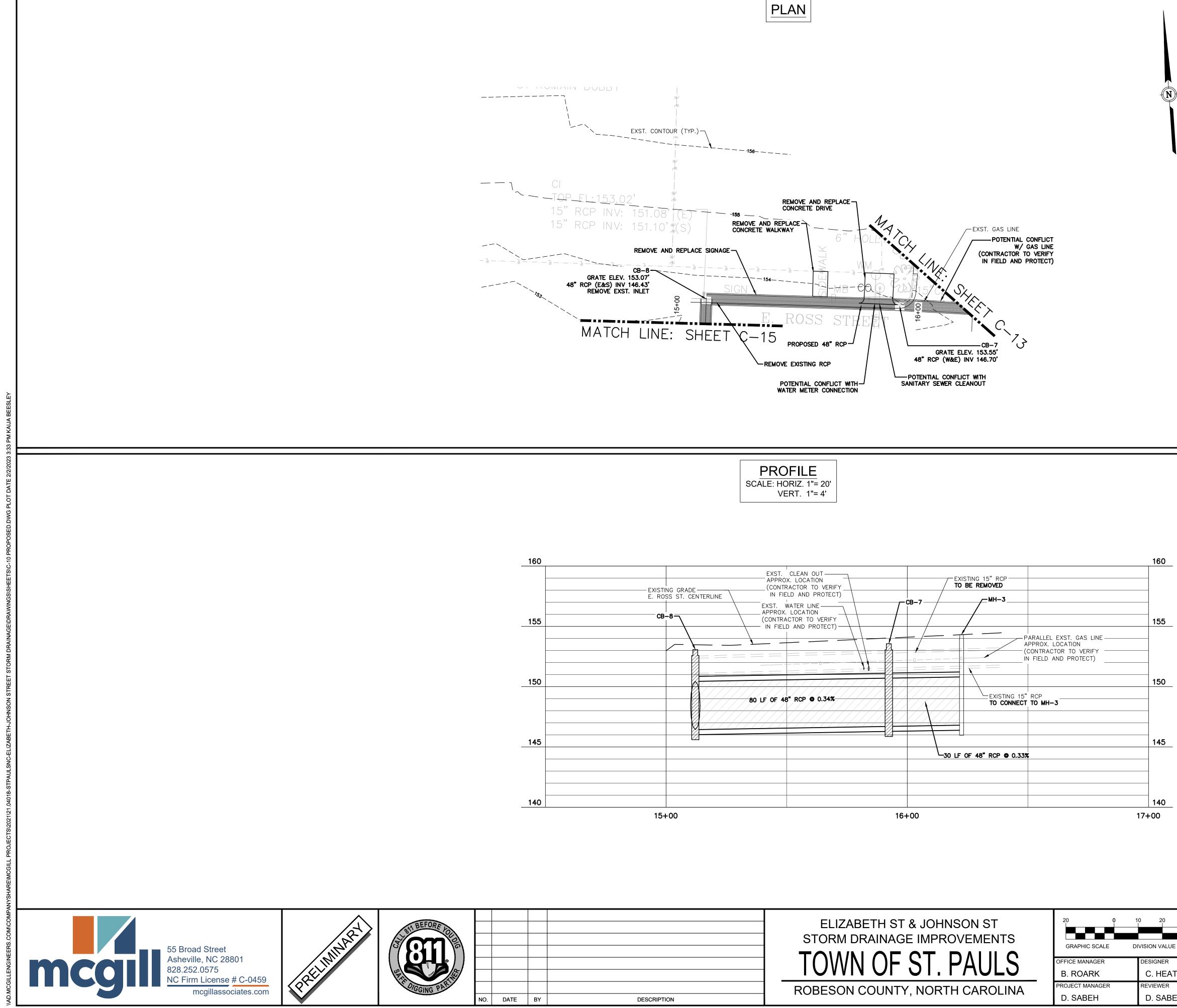
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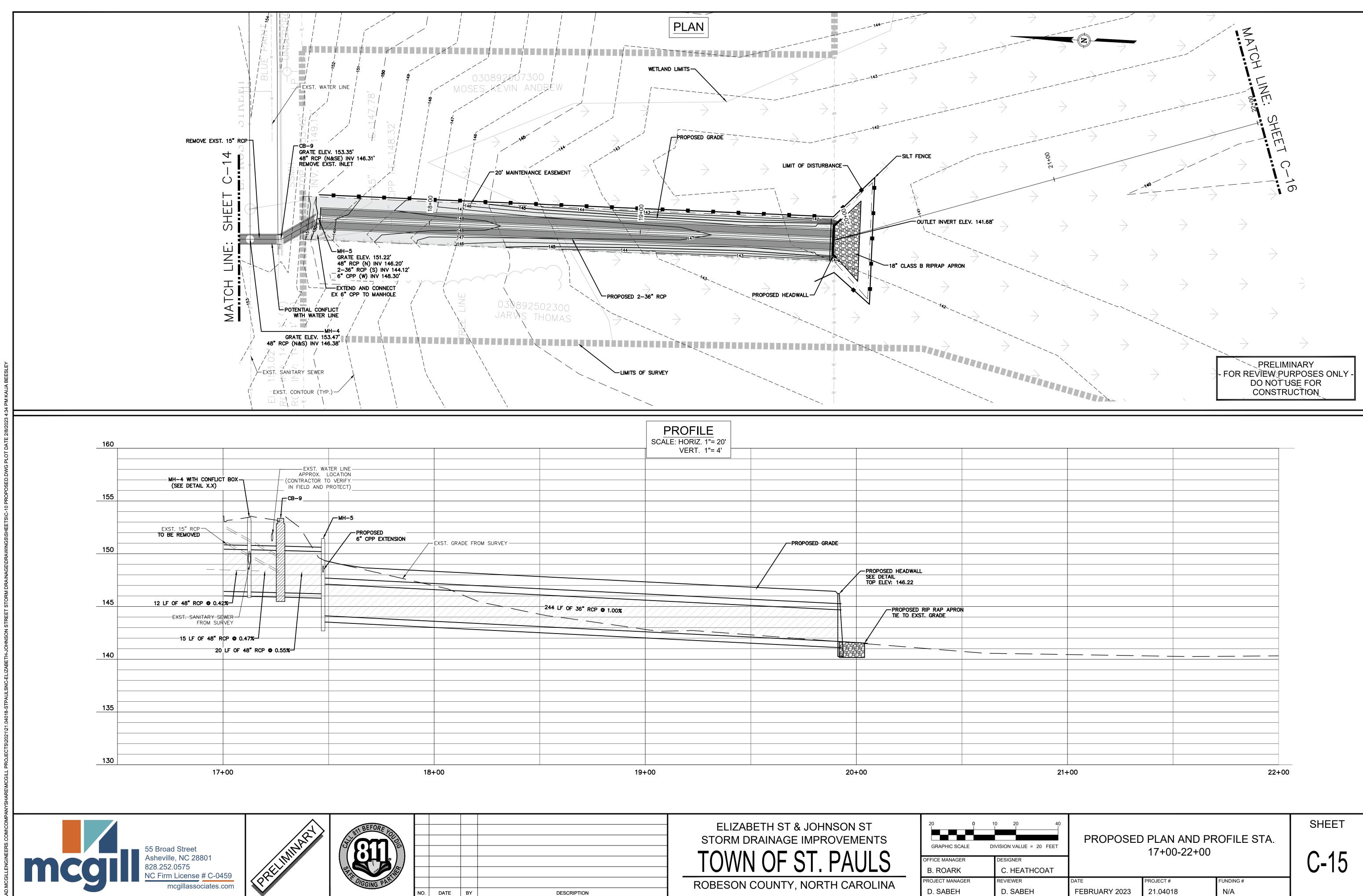


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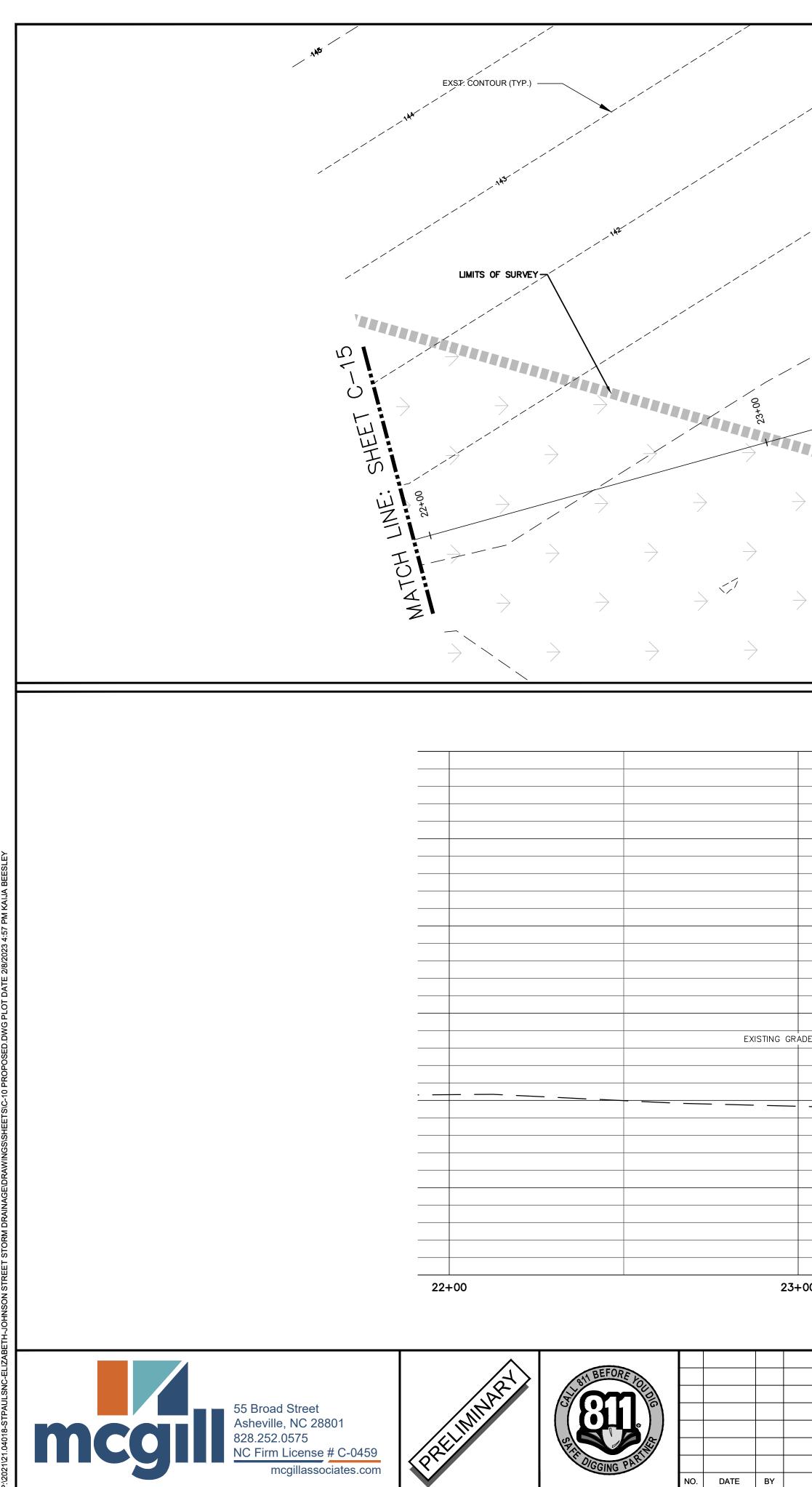
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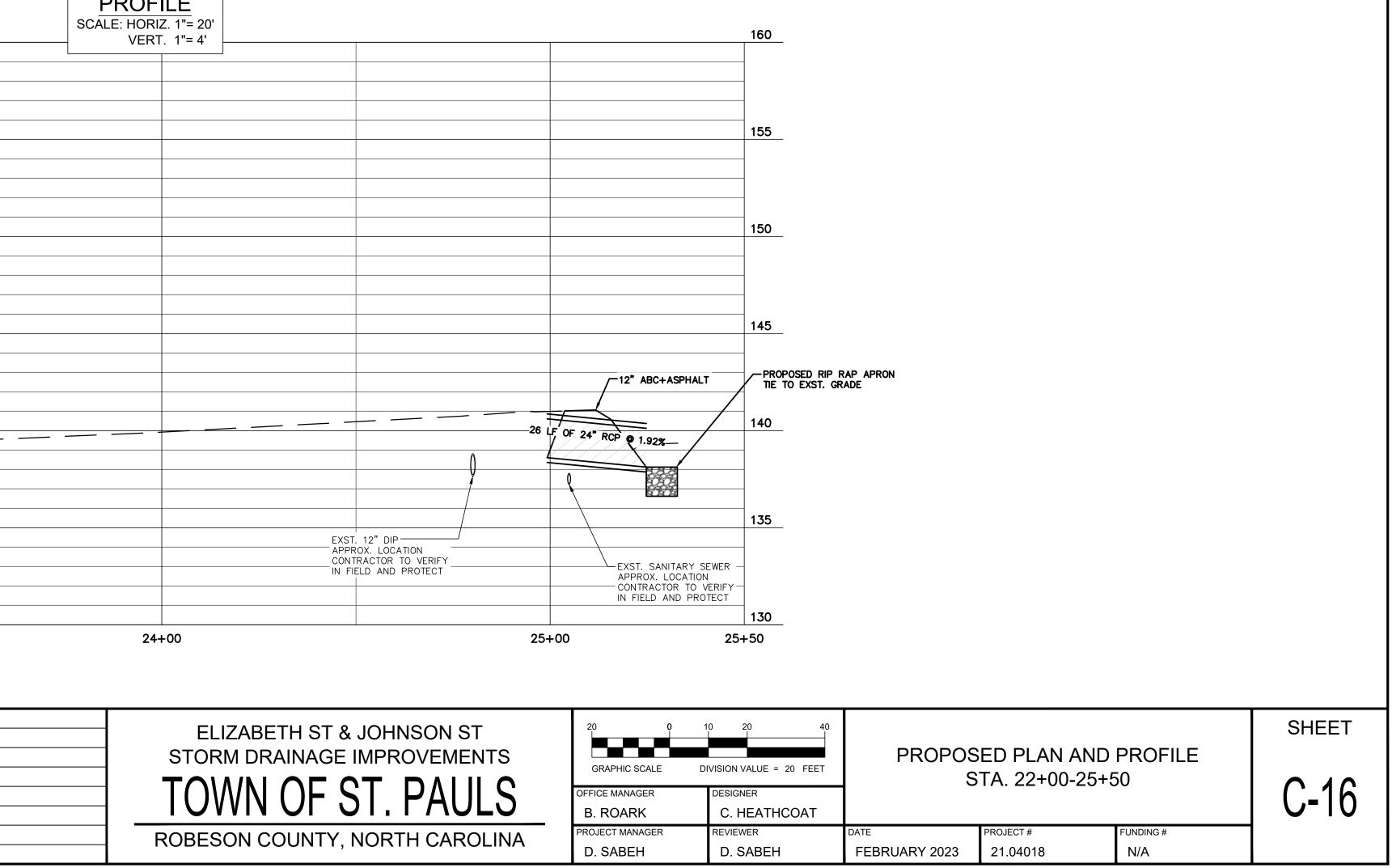
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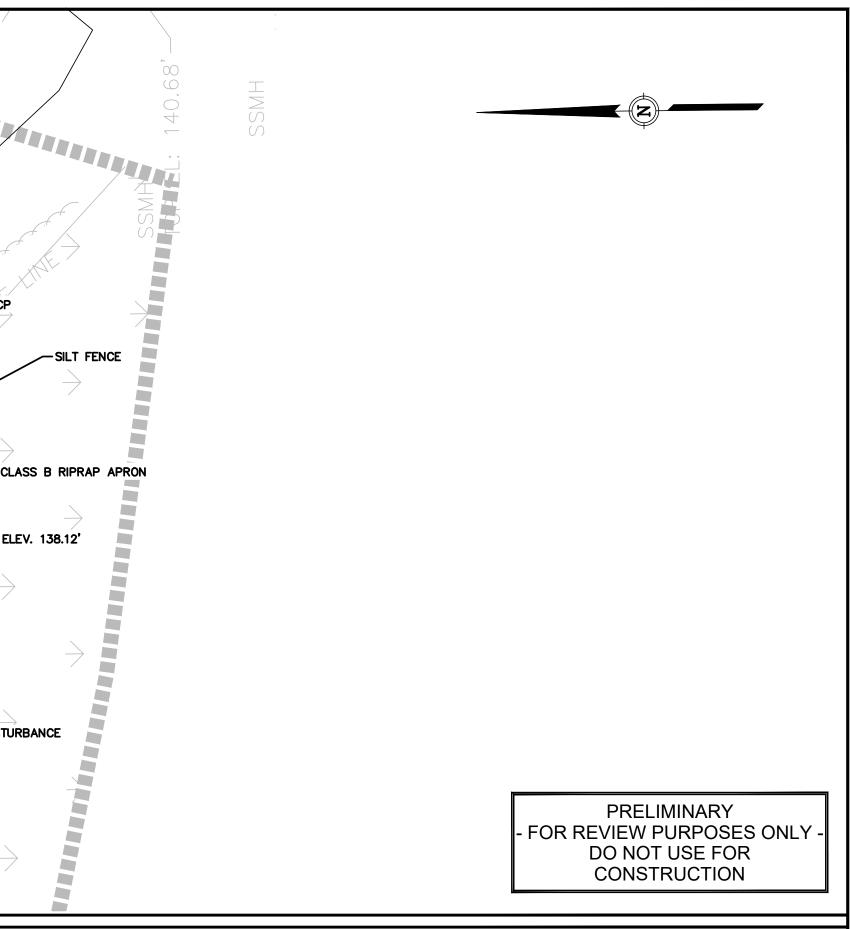


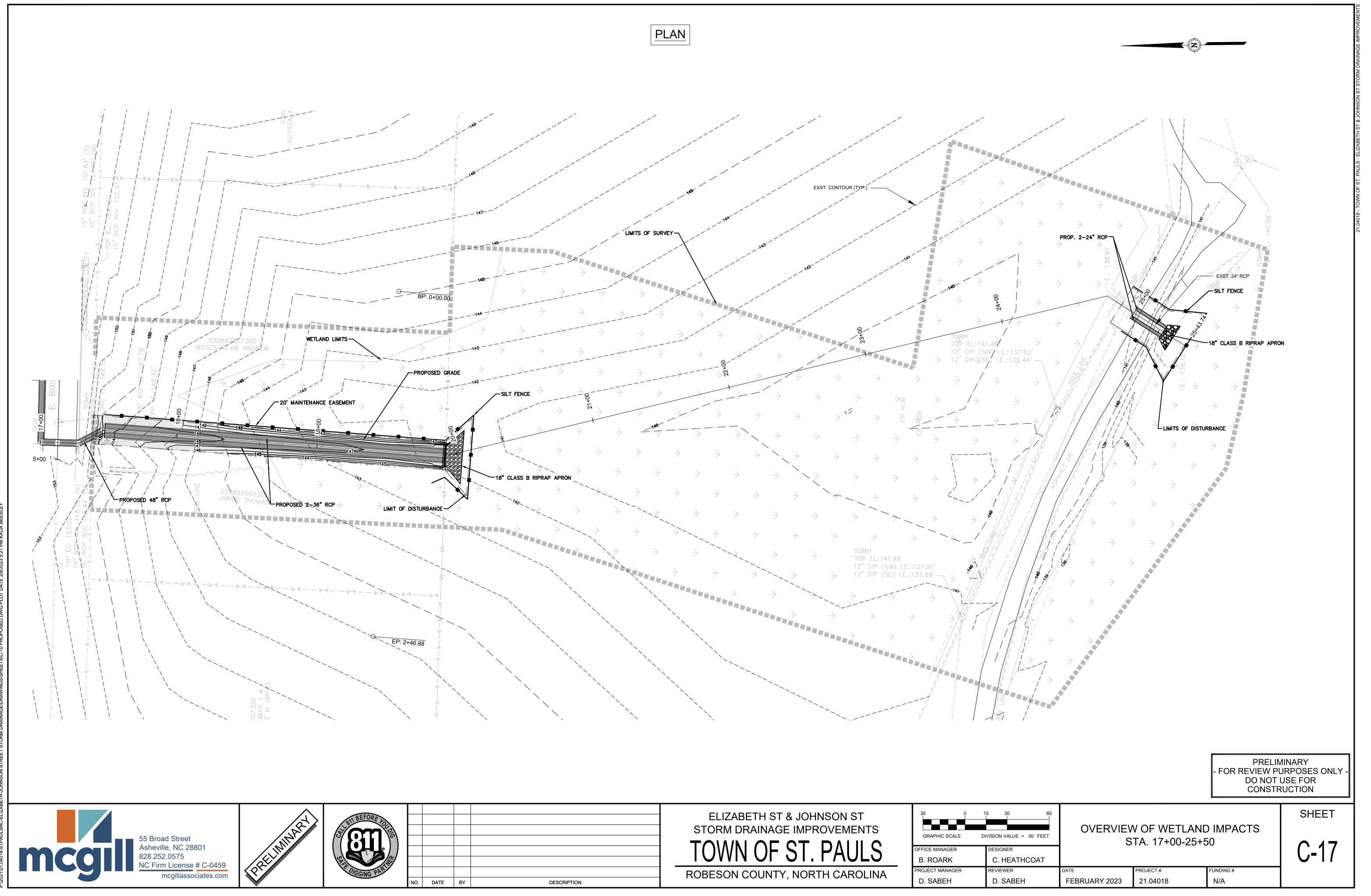
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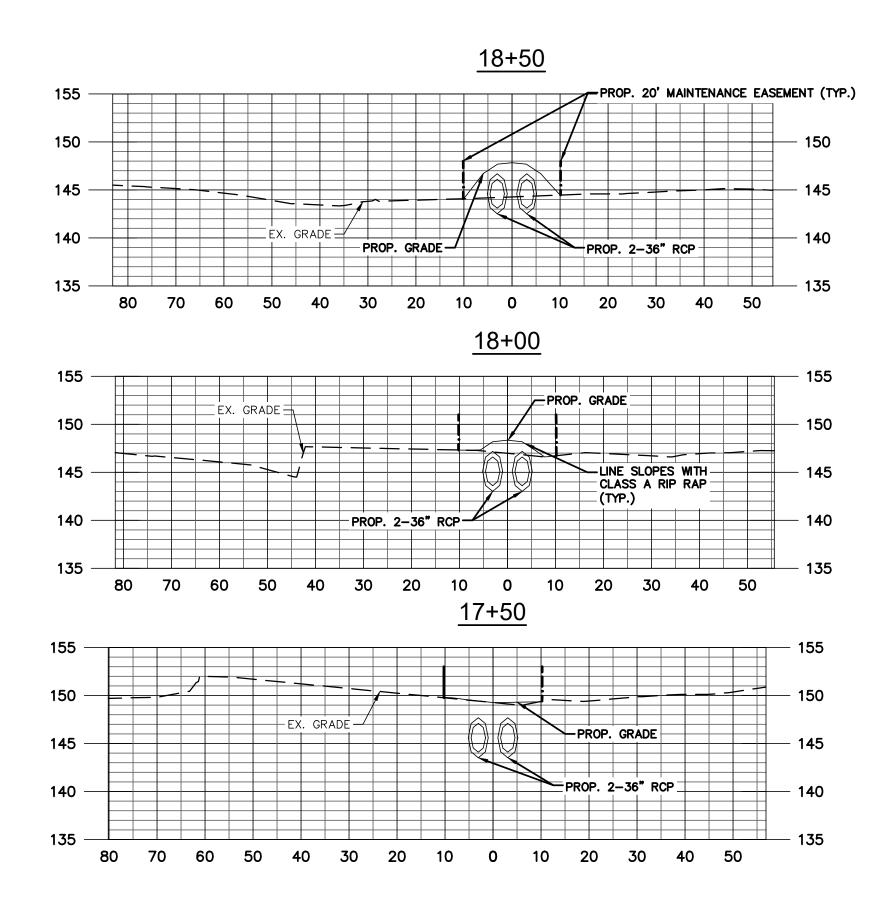
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55 Broad Street Asheville, NC 28801 828.252.0575 NC Firm License # C-0459 mcgillassociates.com

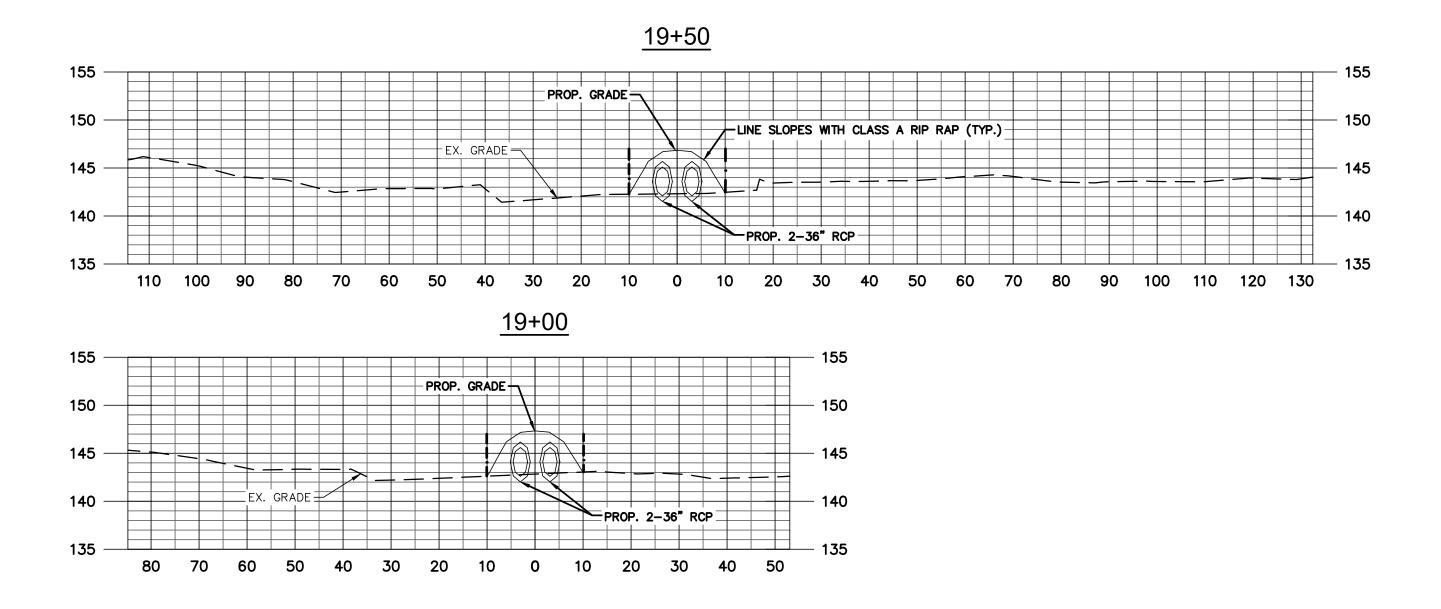




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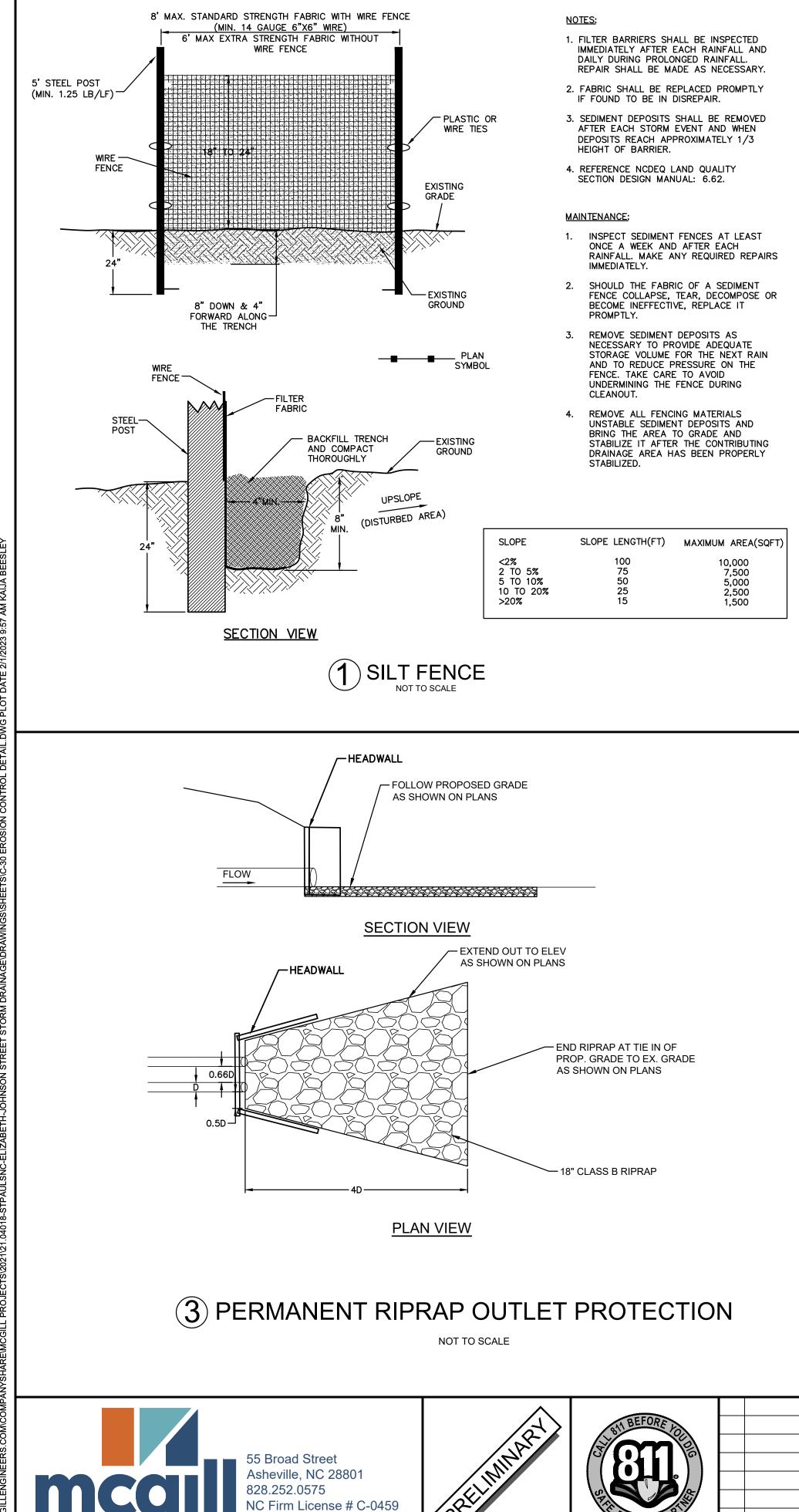






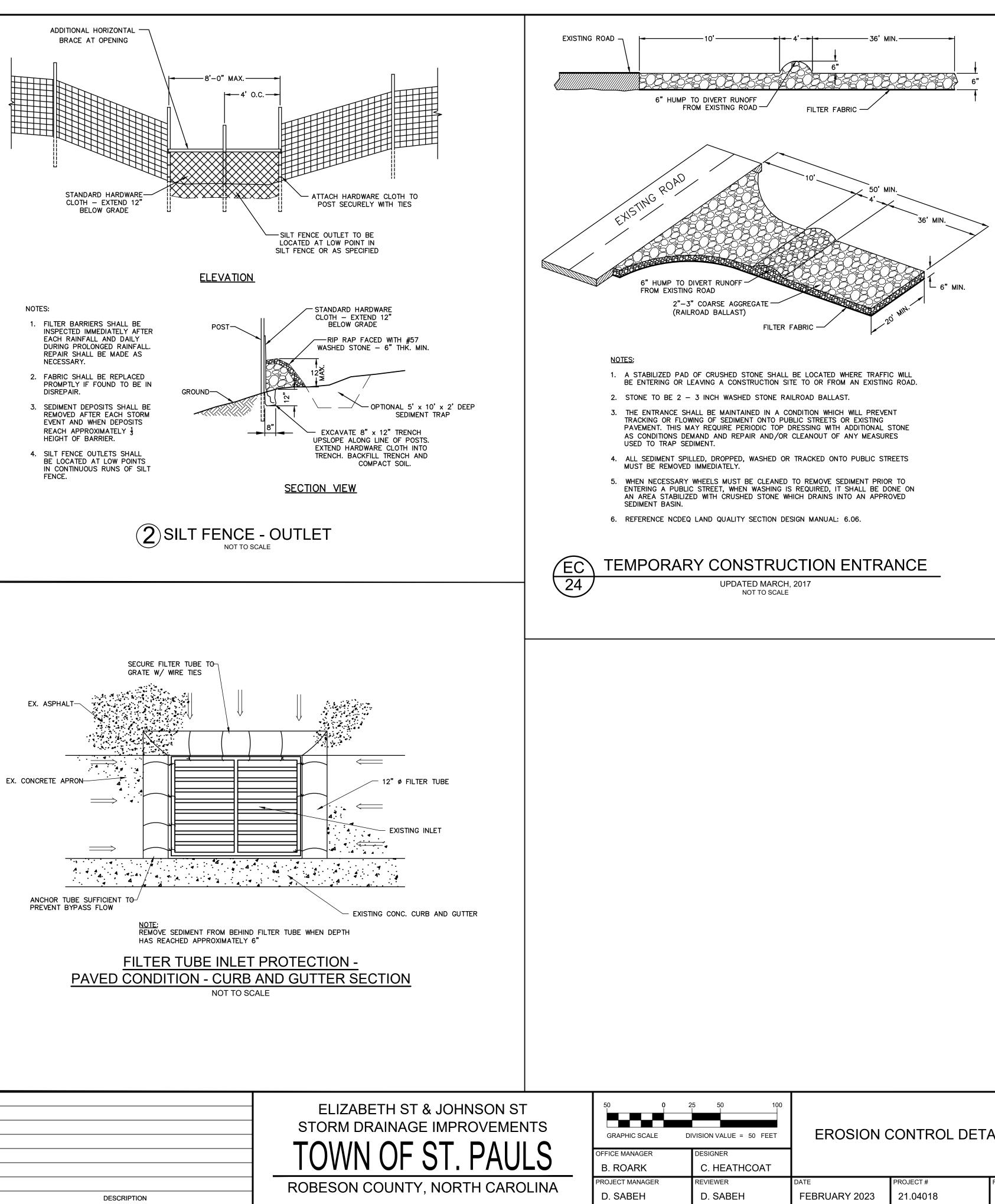
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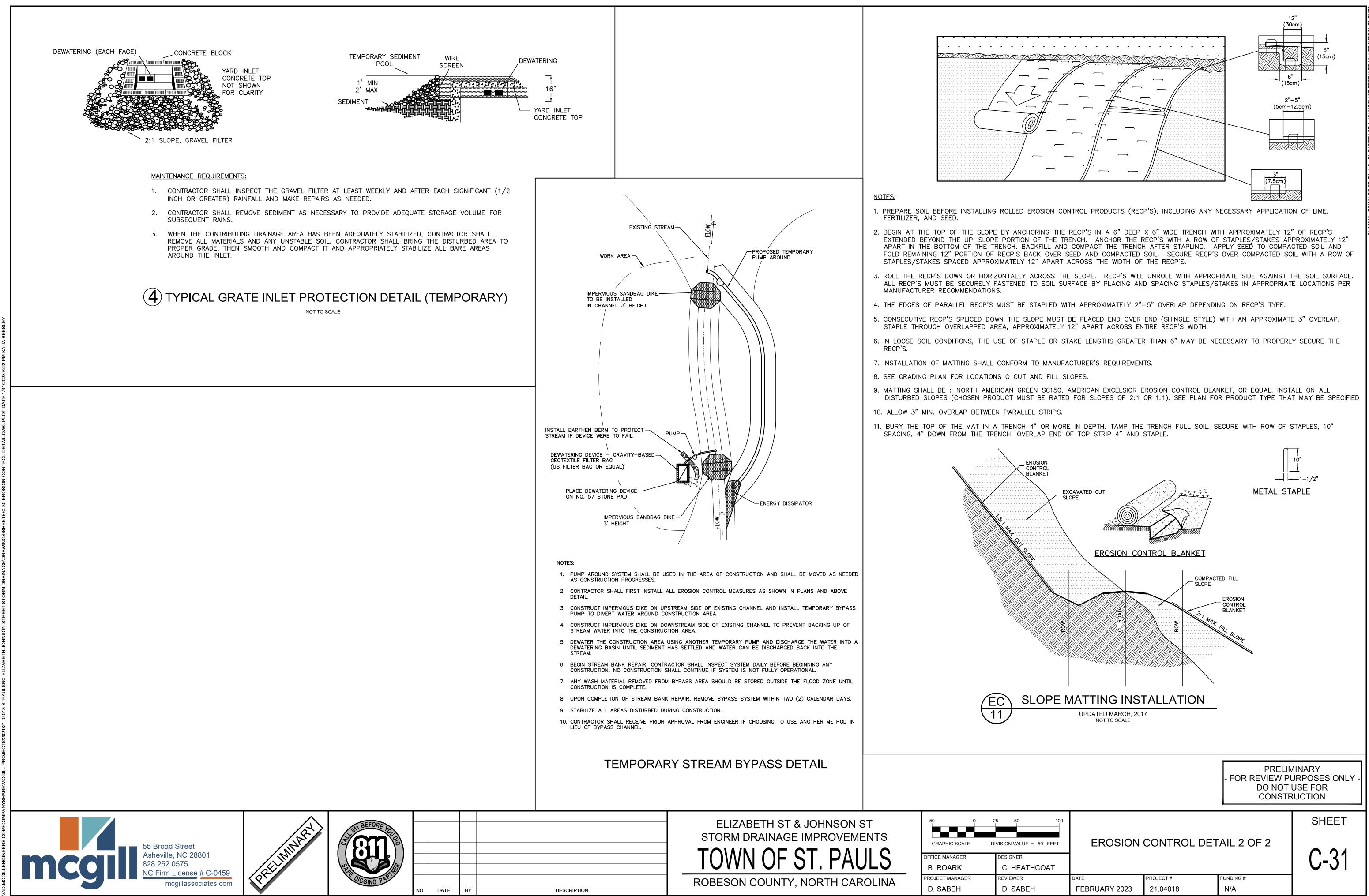


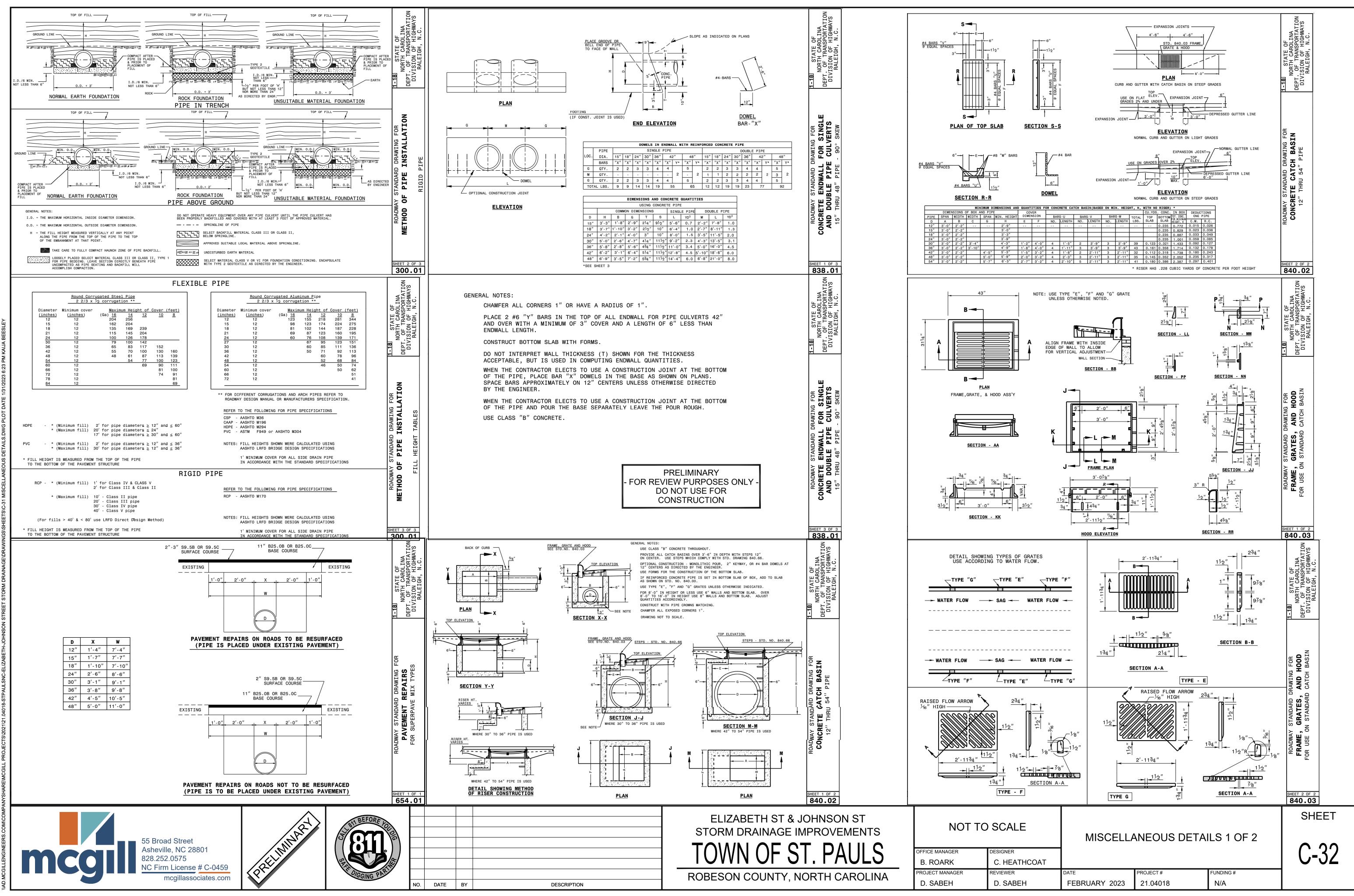
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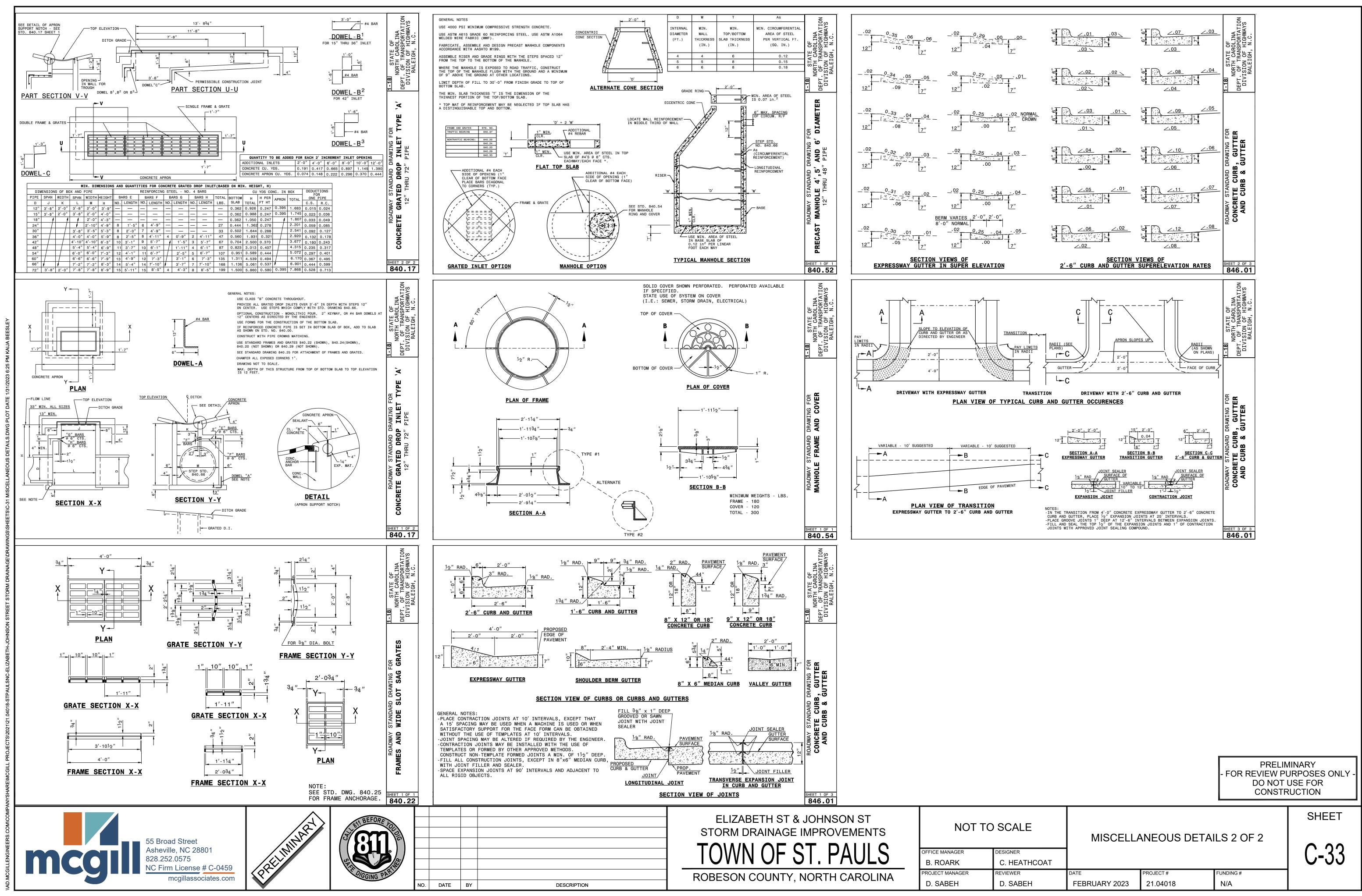
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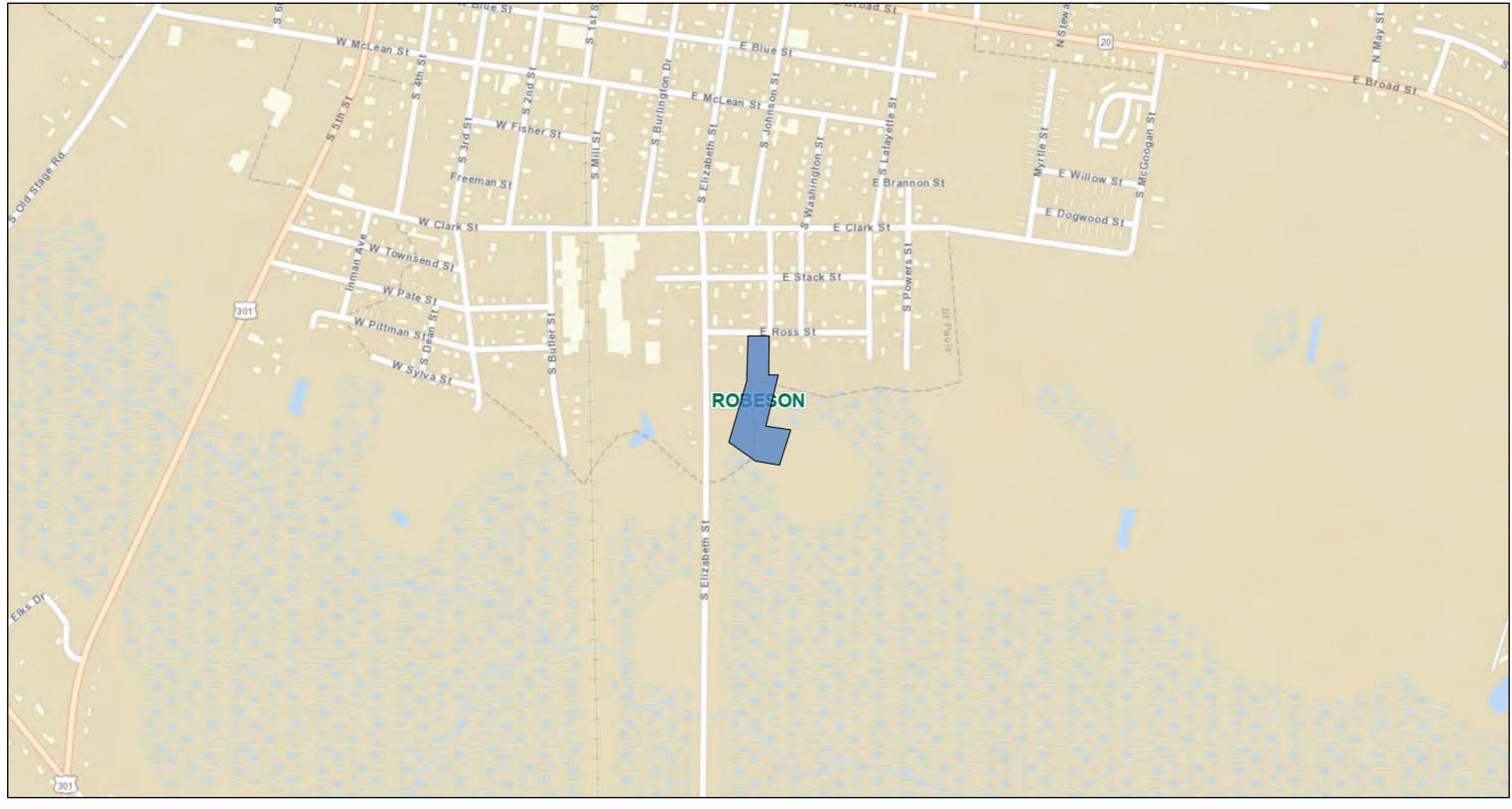




APPENDIX 3

NCHPO HPOWEB Map

NCHPO HPOWEB Map

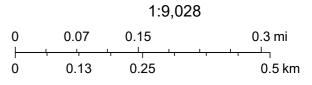


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Counties (outline)



State of North Carolina DOT, Esri, HERE, Garmin, INCREMENT P, Intermap, NGA, USGS

APPENDIX 4

IPAC Consultation Package



United States Department of the Interior

FISH AND WILDLIFE SERVICE Raleigh Ecological Services Field Office Post Office Box 33726 Raleigh, NC 27636-3726 Phone: (919) 856-4520 Fax: (919) 856-4556



In Reply Refer To: Project Code: 2023-0042046 Project Name: St.Pauls Elizabeth-Johnson Street Storm Drainage Project February 06, 2023

Subject: List of threatened and endangered species that may occur in your proposed project location or may be affected by your proposed project

To Whom It May Concern:

The enclosed species list identifies threatened, endangered, proposed and candidate species, as well as proposed and final designated critical habitat, that may occur within the boundary of your proposed project and/or may be affected by your proposed project. The species list fulfills the requirements of the U.S. Fish and Wildlife Service (Service) under section 7(c) of the Endangered Species Act (Act) of 1973, as amended (16 U.S.C. 1531 *et seq.*). If your project area contains suitable habitat for any of the federally-listed species on this species list, the proposed action has the potential to adversely affect those species. If suitable habitat is present, surveys should be conducted to determine the species' presence or absence within the project area. The use of this species list and/or North Carolina Natural Heritage program data should not be substituted for actual field surveys.

New information based on updated surveys, changes in the abundance and distribution of species, changed habitat conditions, or other factors could change this list. Please feel free to contact us if you need more current information or assistance regarding the potential impacts to federally proposed, listed, and candidate species and federally designated and proposed critical habitat. Please note that under 50 CFR 402.12(e) of the regulations implementing section 7 of the Act, the accuracy of this species list should be verified after 90 days. This verification can be completed formally or informally as desired. The Service recommends that verification be completed by visiting the ECOS-IPaC website at regular intervals during project planning and implementation for updates to species lists and information. An updated list may be requested through the ECOS-IPaC system by completing the same process used to receive the enclosed list.

The purpose of the Act is to provide a means whereby threatened and endangered species and the ecosystems upon which they depend may be conserved. Under sections 7(a)(1) and 7(a)(2) of the Act and its implementing regulations (50 CFR 402 *et seq.*), Federal agencies are required to utilize their authorities to carry out programs for the conservation of threatened and endangered

species and to determine whether projects may affect threatened and endangered species and/or designated critical habitat.

A Biological Assessment is required for construction projects (or other undertakings having similar physical impacts) that are major Federal actions significantly affecting the quality of the human environment as defined in the National Environmental Policy Act (42 U.S.C. 4332(2) (c)). For projects other than major construction activities, the Service suggests that a biological evaluation similar to a Biological Assessment be prepared to determine whether the project may affect listed or proposed species and/or designated or proposed critical habitat. Recommended contents of a Biological Assessment are described at 50 CFR 402.12.

If a Federal agency determines, based on the Biological Assessment or biological evaluation, that listed species and/or designated critical habitat may be affected by the proposed project, the agency is required to consult with the Service pursuant to 50 CFR 402. In addition, the Service recommends that candidate species, proposed species and proposed critical habitat be addressed within the consultation. More information on the regulations and procedures for section 7 consultation, including the role of permit or license applicants, can be found in the "Endangered Species Consultation Handbook" at:

http://www.fws.gov/endangered/esa-library/pdf/TOC-GLOS.PDF

Migratory Birds: In addition to responsibilities to protect threatened and endangered species under the Endangered Species Act (ESA), there are additional responsibilities under the Migratory Bird Treaty Act (MBTA) and the Bald and Golden Eagle Protection Act (BGEPA) to protect native birds from project-related impacts. Any activity, intentional or unintentional, resulting in take of migratory birds, including eagles, is prohibited unless otherwise permitted by the U.S. Fish and Wildlife Service (50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)). For more information regarding these Acts see https://www.fws.gov/birds/policies-and-regulations.php.

The MBTA has no provision for allowing take of migratory birds that may be unintentionally killed or injured by otherwise lawful activities. It is the responsibility of the project proponent to comply with these Acts by identifying potential impacts to migratory birds and eagles within applicable NEPA documents (when there is a federal nexus) or a Bird/Eagle Conservation Plan (when there is no federal nexus). Proponents should implement conservation measures to avoid or minimize the production of project-related stressors or minimize the exposure of birds and their resources to the project-related stressors. For more information on avian stressors and recommended conservation measures see https://www.fws.gov/birds/bird-enthusiasts/threats-to-birds.php.

In addition to MBTA and BGEPA, Executive Order 13186: *Responsibilities of Federal Agencies to Protect Migratory Birds*, obligates all Federal agencies that engage in or authorize activities that might affect migratory birds, to minimize those effects and encourage conservation measures that will improve bird populations. Executive Order 13186 provides for the protection of both migratory birds and migratory bird habitat. For information regarding the implementation of Executive Order 13186, please visit https://www.fws.gov/birds/policies-and-regulations/ executive-orders/e0-13186.php.

We appreciate your concern for threatened and endangered species. The Service encourages Federal agencies to include conservation of threatened and endangered species into their project planning to further the purposes of the Act. Please include the Consultation Code in the header of this letter with any request for consultation or correspondence about your project that you submit to our office.

Attachment(s):

- Official Species List
- Migratory Birds

Official Species List

This list is provided pursuant to Section 7 of the Endangered Species Act, and fulfills the requirement for Federal agencies to "request of the Secretary of the Interior information whether any species which is listed or proposed to be listed may be present in the area of a proposed action".

This species list is provided by:

Raleigh Ecological Services Field Office

Post Office Box 33726 Raleigh, NC 27636-3726 (919) 856-4520

Project Summary

Project Code:2023-0042046Project Name:St.Pauls Elizabeth-Johnson Street Storm Drainage ProjectProject Type:Drainage ProjectProject Description:St.Pauls, North CarolinaProject Location:St.Pauls, North Carolina

Approximate location of the project can be viewed in Google Maps: <u>https://www.google.com/maps/@34.79889085,-78.96804406651196,14z</u>



Counties: Robeson County, North Carolina

Endangered Species Act Species

There is a total of 5 threatened, endangered, or candidate species on this species list.

Species on this list should be considered in an effects analysis for your project and could include species that exist in another geographic area. For example, certain fish may appear on the species list because a project could affect downstream species.

IPaC does not display listed species or critical habitats under the sole jurisdiction of NOAA Fisheries¹, as USFWS does not have the authority to speak on behalf of NOAA and the Department of Commerce.

See the "Critical habitats" section below for those critical habitats that lie wholly or partially within your project area under this office's jurisdiction. Please contact the designated FWS office if you have questions.

1. <u>NOAA Fisheries</u>, also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

Mammals

NAME	STATUS
Tricolored Bat <i>Perimyotis subflavus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/10515</u>	Proposed Endangered
Birds	
NAME	STATUS
Red-cockaded Woodpecker <i>Picoides borealis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/7614</u>	Endangered
Reptiles NAME	STATUS
American Alligator <i>Alligator mississippiensis</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/776</u>	Similarity of Appearance (Threatened)
Insects	
NAME Monarch Butterfly <i>Danaus plexippus</i> No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/9743</u>	Candidate

Flowering Plants

NAME

Michaux's Sumac *Rhus michauxii* No critical habitat has been designated for this species. Species profile: <u>https://ecos.fws.gov/ecp/species/5217</u>

Critical habitats

THERE ARE NO CRITICAL HABITATS WITHIN YOUR PROJECT AREA UNDER THIS OFFICE'S JURISDICTION.

STATUS

Endangered

Migratory Birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described <u>below</u>.

- 1. The Migratory Birds Treaty Act of 1918.
- 2. The <u>Bald and Golden Eagle Protection Act</u> of 1940.
- 3. 50 C.F.R. Sec. 10.12 and 16 U.S.C. Sec. 668(a)

The birds listed below are birds of particular concern either because they occur on the USFWS Birds of Conservation Concern (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ below. This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the E-bird data mapping tool (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found below.

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME	BREEDING SEASON
Chimney Swift <i>Chaetura pelagica</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Mar 15 to Aug 25
Prothonotary Warbler <i>Protonotaria citrea</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds Apr 1 to Jul 31
Red-headed Woodpecker <i>Melanerpes erythrocephalus</i> This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.	Breeds May 10 to Sep 10

Probability Of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence ()

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

- 1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.
- 2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is 0.25/0.25 = 1; at week 20 it is 0.05/0.25 = 0.2.
- 3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

Breeding Season (=)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort ()

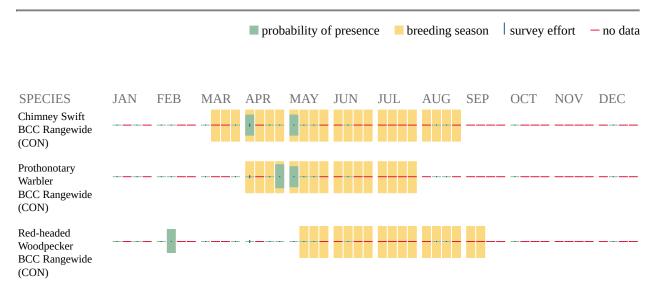
Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

No Data (-)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.



Additional information can be found using the following links:

- Birds of Conservation Concern <u>https://www.fws.gov/program/migratory-birds/species</u>
- Measures for avoiding and minimizing impacts to birds <u>https://www.fws.gov/library/</u> <u>collections/avoiding-and-minimizing-incidental-take-migratory-birds</u>
- Nationwide conservation measures for birds <u>https://www.fws.gov/sites/default/files/</u> <u>documents/nationwide-standard-conservation-measures.pdf</u>

Migratory Birds FAQ

Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

<u>Nationwide Conservation Measures</u> describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. <u>Additional measures</u> or <u>permits</u> may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the list of migratory birds that potentially occur in my specified location?

The Migratory Bird Resource List is comprised of USFWS <u>Birds of Conservation Concern</u> (<u>BCC</u>) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the <u>Avian</u> <u>Knowledge Network (AKN)</u>. The AKN data is based on a growing collection of <u>survey</u>, <u>banding</u>, <u>and citizen science datasets</u> and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle (<u>Eagle Act</u> requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the <u>Rapid Avian Information</u> <u>Locator (RAIL) Tool</u>.

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the <u>Avian Knowledge Network (AKN)</u>. This data is derived from a growing collection of <u>survey, banding, and citizen science datasets</u>.

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering or migrating in my area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may query your location using the <u>RAIL Tool</u> and look at the range maps provided for birds in your area at the bottom of the profiles provided for each bird in your results. If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

- 1. "BCC Rangewide" birds are <u>Birds of Conservation Concern</u> (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
- 2. "BCC BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
- 3. "Non-BCC Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the <u>Eagle Act</u> requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the <u>Northeast Ocean Data Portal</u>. The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the <u>NOAA NCCOS Integrative Statistical</u> <u>Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic</u> <u>Outer Continental Shelf</u> project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the <u>Diving Bird Study</u> and the <u>nanotag studies</u> or contact <u>Caleb Spiegel</u> or <u>Pam Loring</u>.

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to <u>obtain a permit</u> to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look carefully at the survey effort (indicated by the black vertical bar) and for the existence of the "no data" indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ "Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds" at the bottom of your migratory bird trust resources page.

IPaC User Contact Information

Agency:	St. Pauls town
Name:	Alex Lowdermilk
Address:	1240 19th Street Lane NW
City:	Hickory
State:	NC
Zip:	28601
Email	alex.lowdermilk@mcgillassociates.com
Phone:	8285140345

APPENDIX 5

Preliminary Jurisdictional Determination (PJD)

Shaping Communities Together



February 8, 2023

Gary Beecher US Army Corps of Engineers Washington Regulatory Field Office 2407 West Fifth Street Washington, North Carolina 27889

RE: Elizabeth-Johnson Storm Drainage Project Jurisdictional Determination Saint Pauls, North Carolina

Dear Mr. Beecher:

This letter is to request confirmation of a Preliminary Jurisdictional Determination on the referenced site. The request is based on data, site observations, and a site visit on October 13, 2021 and February 7, 2023. We are requesting confirmation of the jurisdictional limits of 'Wetland A'. The location of Wetland A is shown and labeled on the attached Delineation Map. Included in this letter are the following:

- Agent Authorization Form
- PJD Request Forms
- Location Map
- USGS Topographic Map
- Delineation Map
- NWI Map
- Photo Sheet
- Soils Map
- Wetland Determination Data Sheets

Please include McGill Associates on the copy list of all correspondence for this project. If you have any questions regarding this information, please contact me at 828-328-2024.

Sincerely, MCGILL ASSOCIATES, PA

JON SWAIM Project Manager / Environmental Services

P:\2021\21.04018-StPaulsNC-Elizabeth-Johnson Street Storm Drainage

MCGILL ASSOCIATES 1240 19th STREET LANE NW, HICKORY, NC 28601 / 828.328.2024 / MCGILLASSOCIATES.COM

Jurisdictional Determination Request



This form is intended for use by anyone requesting a jurisdictional determination (JD) from the U.S. Army Corps of Engineers, Wilmington District (Corps). Please include all supporting information, as described within each category, with your request. You may submit your request via mail, electronic mail, or facsimile. Requests should be sent to the appropriate project manager of the county in which the property is located. A current list of project managers by assigned counties can be found on-line at:

<u>http://www.saw.usace.army.mil/Missions/RegulatoryPermitProgram/Contact/CountyLocator.aspx</u>, by calling 910-251-4633, or by contacting any of the field offices listed below. Once your request is received you will be contacted by a Corps project manager.

ASHEVILLE & CHARLOTTE REGULATORY FIELD OFFICES

US Army Corps of Engineers 151 Patton Avenue, Room 208 Asheville, North Carolina 28801-5006 General Number: (828) 271-7980 Fax Number: (828) 281-8120

RALEIGH REGULATORY FIELD OFFICE

US Army Corps of Engineers 3331 Heritage Trade Drive, Suite 105 Wake Forest, North Carolina 27587 General Number: (919) 554-4884 Fax Number: (919) 562-0421

WASHINGTON REGULATORY FIELD OFFICE

US Army Corps of Engineers 2407 West Fifth Street Washington, North Carolina 27889 General Number: (910) 251-4610 Fax Number: (252) 975-1399

WILMINGTON REGULATORY FIELD OFFICE

US Army Corps of Engineers 69 Darlington Avenue Wilmington, North Carolina 28403 General Number: 910-251-4633 Fax Number: (910) 251-4025

INSTRUCTIONS:

All requestors must complete Parts A, B, C, D, E, F and G.

<u>NOTE TO CONSULTANTS AND AGENCIES</u>: If you are requesting a JD on behalf of a paying client or your agency, please note the specific submittal requirements in **Part H**.

<u>NOTE ON PART D – PROPERTY OWNER AUTHORIZATION:</u> Please be aware that all JD requests must include the current property owner authorization for the Corps to proceed with the determination, which may include inspection of the property when necessary. This form must be signed by the current property owner(s) or the owner(s) authorized agent to be considered a complete request.

<u>NOTE ON PART D - NCDOT REQUESTS</u>: Property owner authorization/notification for JD requests associated with North Carolina Department of Transportation (NCDOT) projects will be conducted according to the current NCDOT/USACE protocols.

<u>NOTE TO USDA PROGRAM PARTICIPANTS</u>: A Corps approved or preliminary JD may not be valid for the wetland conservation provisions of the Food Security Act of 1985. If you or your tenant are USDA Program participants, or anticipate participation in USDA programs, you should also request a certified wetland determination from the local office of the Natural Resources Conservation Service, prior to starting work.

Jurisdictional Determination Request

А.	PARCEL INFORMATION Street Address:
	City, State:
	County:
	Parcel Index Number(s) (PIN):
B.	REQUESTOR INFORMATION Name:
	Mailing Address:
	Telephone Number:
	Electronic Mail Address:
	I am the current property owner.
	I am an Authorized Agent or Environmental Consultant ¹
	Interested Buyer or Under Contract to Purchase
	Other, please explain.
C.	PROPERTY OWNER INFORMATION ² OWNER Name:
	Mailing Address:
	Telephone Number:
	Electronic Mail Address:

¹ Must provide completed Agent Authorization Form/Letter.
 ² Documentation of ownership also needs to be provided with request (copy of Deed, County GIS/Parcel/Tax Record).

PROPERTY ACCESS CERTIFICATION^{3,4} D.

By signing below, I authorize representatives of the Wilmington District, U.S. Army Corps of Engineers (Corps) to enter upon the property herein described for the purpose of conducting onsite investigations, if necessary, and issuing a jurisdictional determination pursuant to Section 404 of the Clean Water Act and/or Section 10 of the Rivers and Harbors Act of 1899. I, the undersigned, am either a duly authorized owner of record of the property identified herein, or acting as the duly authorized agent of the owner of record of the property.

Print Name Capacity: Owner Authorized Agent ⁵	
Date Jon Swaim	
Signature	
E. REASON FOR JD REQUEST: (Check as many as applicable)	
I intend to construct/develop a project or perform activities on this parcel which w designed to avoid all aquatic resources.	
I intend to construct/develop a project or perform activities on this parcel which w designed to avoid all jurisdictional aquatic resources under Corps authority.	ould be
I intend to construct/develop a project or perform activities on this parcel whic	h may
require authorization from the Corps, and the JD would be used to avoid and minimi	-
impacts to jurisdictional aquatic resources and as an initial step in a future permitting	3
process.	1
I intend to construct/develop a project or perform activities on this parcel which require authorization from the Corps; this request is accompanied by my permit app	•
and the JD is to be used in the permitting process.	meation
I intend to construct/develop a project or perform activities in a navigable water	er of the
U.S. which is included on the district Section 10 list and/or is subject to the ebb and	l flow of
the tide.	
A Corps JD is required in order obtain my local/state authorization.	
I intend to contest jurisdiction over a particular aquatic resource and request the confirm that jurisdiction does/does not exist over the aquatic resource on the parcel	1
I believe that the site may be comprised entirely of dry land.	•
Other:	
³ For NCDOT requests following the current NCDOT/USACE protocols, skip to Part E.	
⁴ If there are multiple parcels owned by different parties, please provide the following for each additional pare	cel on a
continuation sheet.	

Must provide agent authorization form/letter signed by owner(s). 5

F. JURISDICTIONAL DETERMINATION (JD) TYPE (Select One)

I am requesting that the Corps provide a preliminary JD for the property identified herein.

A Preliminary Jurisdictional Determination (PJD) provides an indication that there may be "waters of the United States" or "navigable waters of the United States" on a property. PJDs are sufficient as the basis for permit decisions. For the purposes of permitting, all waters and wetlands on the property will be treated as if they are jurisdictional "waters of the United States". PJDs cannot be appealed (33 C.F.R. 331.2); however, a PJD is "preliminary" in the sense that an approved JD can be requested at any time. PJDs do not expire.

I am requesting that the Corps provide an <u>approved</u> JD for the property identified herein.

An Approved Jurisdictional Determination (AJD) is a determination that jurisdictional "waters of the United States" or "navigable waters of the United States" are either present or absent on a site. An approved JD identifies the limits of waters on a site determined to be jurisdictional under the Clean Water Act and/or Rivers and Harbors Act. Approved JDs are sufficient as the basis for permit decisions. AJDs are appealable (33 C.F.R. 331.2). The results of the AJD will be posted on the Corps website. A landowner, permit applicant, or other "affected party" (33 C.F.R. 331.2) who receives an AJD may rely upon the AJD for five years (subject to certain limited exceptions explained in Regulatory Guidance Letter 05-02).

I am unclear as to which JD I would like to request and require additional information to inform my decision.

G. ALL REQUESTS

Map of Property or Project Area. This Map must clearly depict the boundaries of the review area.

Size of Property or Review Area ______ acres.

The property boundary (or review area boundary) is clearly physically marked on the site.

H. REQUESTS FROM CONSULTANTS

Project Coordinates (Decimal Degrees): Latitude:

Longitude:

A legible delineation map depicting the aquatic resources and the property/review area. Delineation maps must be no larger than 11x17 and should contain the following: (Corps signature of submitted survey plats will occur after the submitted delineation map has been reviewed and approved).⁶

- North Arrow
- Graphical Scale
- Boundary of Review Area
- Date
- Location of data points for each Wetland Determination Data Form or tributary assessment reach.

For Approved Jurisdictional Determinations:

- Jurisdictional wetland features should be labeled as Wetland Waters of the US, 404 wetlands, etc. Please include the acreage of these features.
- Jurisdictional non-wetland features (i.e. tidal/navigable waters, tributaries, impoundments) should be labeled as Non-Wetland Waters of the US, stream, tributary, open water, relatively permanent water, pond, etc. Please include the acreage or linear length of each of these features as appropriate.
- Isolated waters, waters that lack a significant nexus to navigable waters, or nonjurisdictional upland features should be identified as Non-Jurisdictional. Please include a justification in the label regarding why the feature is non-jurisdictional (i.e. "Isolated", "No Significant Nexus", or "Upland Feature"). Please include the acreage or linear length of these features as appropriate.

For Preliminary Jurisdictional Determinations:

 Wetland and non-wetland features should not be identified as Jurisdictional, 404, Waters of the United States, or anything that implies jurisdiction. These features can be identified as Potential Waters of the United States, Potential Non-wetland Waters of the United States, wetland, stream, open water, etc. Please include the acreage and linear length of these features as appropriate.

Completed Wetland Determination Data Forms for appropriate region (at least one wetland and one upland form needs to be completed for each wetland type)

⁵ Please refer to the guidance document titled "Survey Standards for Jurisdictional Determinations" to ensure that the supplied map meets the necessary mapping standards. <u>http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/</u>

Jurisdictional Determination Request

 Completed appropriate Jurisdictional Determination form <u>PJDs.</u> please complete a <u>Preliminary Jurisdictional Determination Form⁷</u> and include the <u>Aquatic Resource Table</u> <u>AJDs.</u> please complete an <u>Approved Jurisdictional Determination Form⁸</u>
Vicinity Map
Aerial Photograph
USGS Topographic Map
Soil Survey Map
Other Maps, as appropriate (e.g. National Wetland Inventory Map, Proposed Site Plan, previous delineation maps, LIDAR maps, FEMA floodplain maps)
Landscape Photos (if taken)
NCSAM and/or NCWAM Assessment Forms and Rating Sheets
NC Division of Water Resources Stream Identification Forms
Other Assessment Forms

⁷ www.saw.usace.army.mil/Portals/59/docs/regulatory/regdocs/JD/RGL_08-02_App_A_Prelim_JD_Form_fillable.pdf
 ⁸ Please see http://www.saw.usace.army.mil/Missions/Regulatory-Permit-Program/Jurisdiction/

Principal Purpose: The information that you provide will be used in evaluating your request to determine whether there are any aquatic resources within the project area subject to federal jurisdiction under the regulatory authorities referenced above.

Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies, and the public, and may be made available as part of a public notice as required by federal law. Your name and property location where federal jurisdiction is to be determined will be included in the approved jurisdictional determination (AJD), which will be made available to the public on the District's website and on the Headquarters USAGE website.

Disclosure: Submission of requested information is voluntary; however, if information is not provided, the request for an AJD cannot be evaluated nor can an AJD be issued.

Preliminary ORM Data Entry Fields for New Actions

ACTION ID #: SAW-

Prepare file folder

1. Project Name [PCN Form A2a]:

2. Work Type: Private Institutional Government Commercial

Begin Date (Date Received):

Assign Action ID Number in ORM

- 3. Project Description / Purpose [PCN Form B3d and B3e]:
- 4. Property Owner / Applicant [PCN Form A3 or A4]:
- 5. Agent / Consultant [PNC Form A5 or ORM Consultant ID Number]:
- 6. Related Action ID Number(s) [PCN Form B5b]:
- 7. Project Location Coordinates, Street Address, and/or Location Description [PCN Form B1b]:
- 8. Project Location Tax Parcel ID [PCN Form B1a]:
- 9. Project Location County [PCN Form A2b]:
- 10. Project Location Nearest Municipality or Town [PCN Form A2c]:
- 11. Project Information Nearest Waterbody [PCN Form B2a]:
- 12. Watershed / 8-Digit Hydrologic Unit Code [PCN Form B2c]:

Authorization: Section 10 Section 404 Section 10 and 404

Regulatory Action Type:

Standard Permit	Pre-Application Request
Nationwide Permit #	Unauthorized Activity
Regional General Permit #	Compliance
Jurisdictional Determination Request	No Permit Required

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD:

B. NAME AND ADDRESS OF PERSON REQUESTING PJD:

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION: (USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: County/parish/borough:

City:

Center coordinates of site (lat/long in degree decimal format):

Lat.: Long.:

Universal Transverse Mercator:

Name of nearest waterbody:

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH "MAY BE" SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource "may be" subject (i.e., Section 404 or Section 10/404)

- The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "preconstruction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic iurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "may be" waters of the U.S. and/or that there "may be" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Мар:
 Data sheets prepared/submitted by or on behalf of the PJD requestor. Office concurs with data sheets/delineation report. Office does not concur with data sheets/delineation report. Rationale:
Data sheets prepared by the Corps:
Corps navigable waters' study:
U.S. Geological Survey Hydrologic Atlas:
USGS NHD data. USGS 8 and 12 digit HUC maps.
U.S. Geological Survey map(s). Cite scale & quad name:
Natural Resources Conservation Service Soil Survey. Citation:
National wetlands inventory map(s). Cite name:
State/local wetland inventory map(s):
FEMA/FIRM maps:
 100-year Floodplain Elevation is:(National Geodetic Vertical Datum of 1929) Photographs: Aerial (Name & Date):
or Other (Name & Date):
Previous determination(s). File no. and date of response letter:
Other information (please specify):

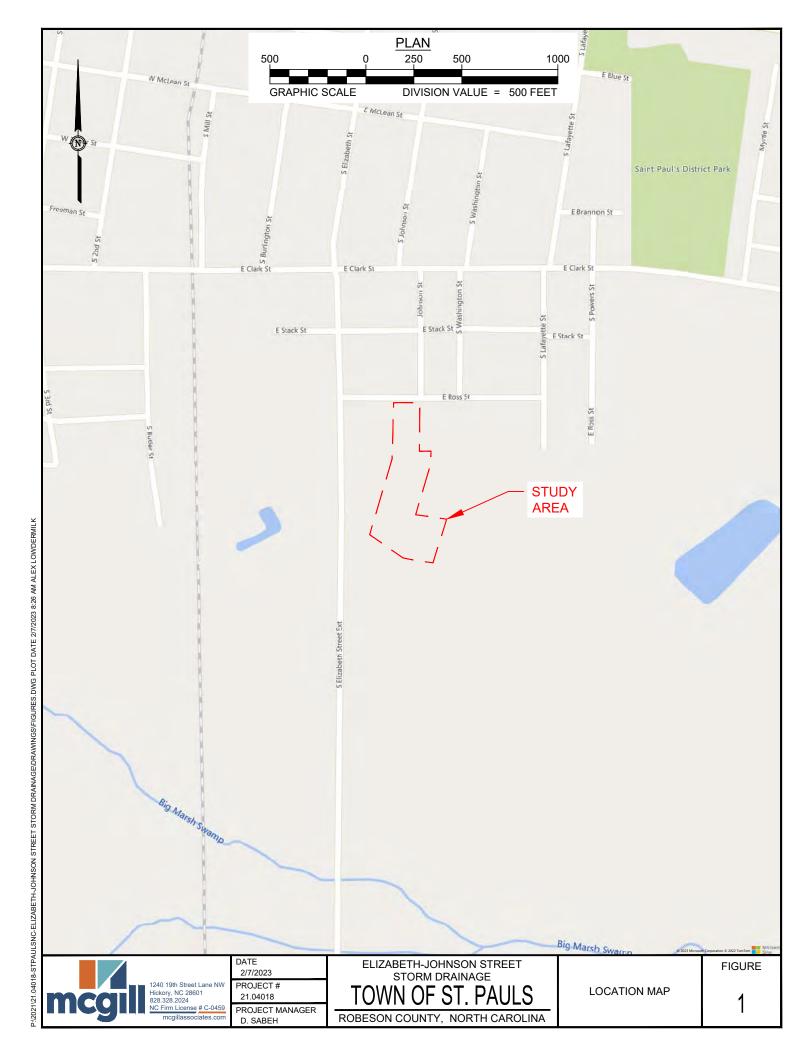
IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

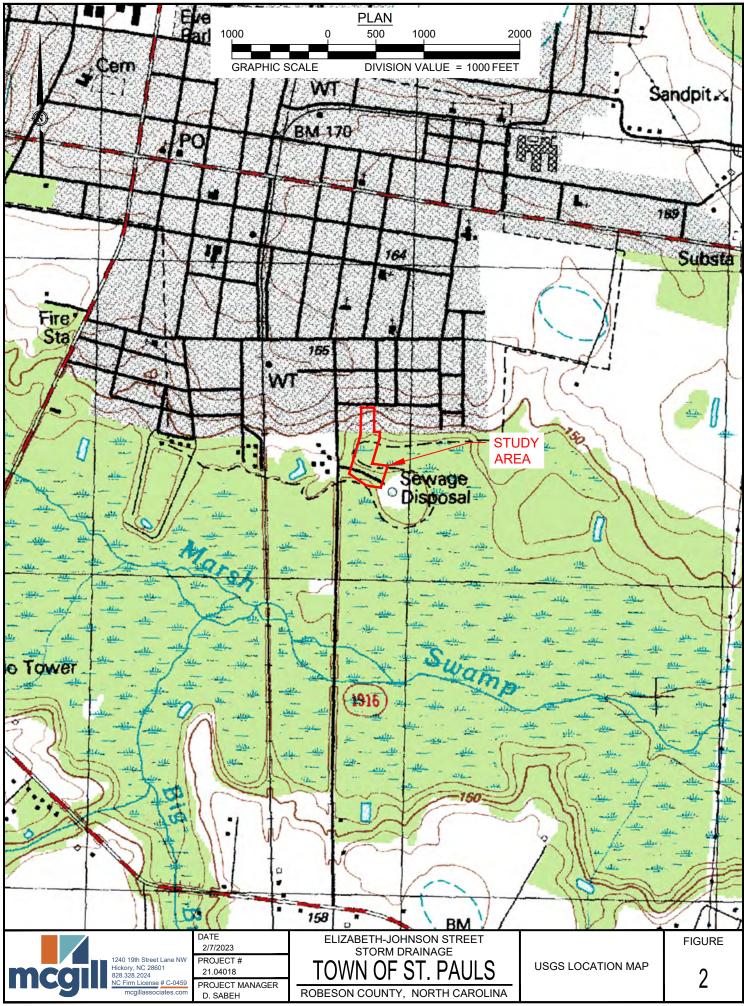
Signature and date of Regulatory staff member completing PJD

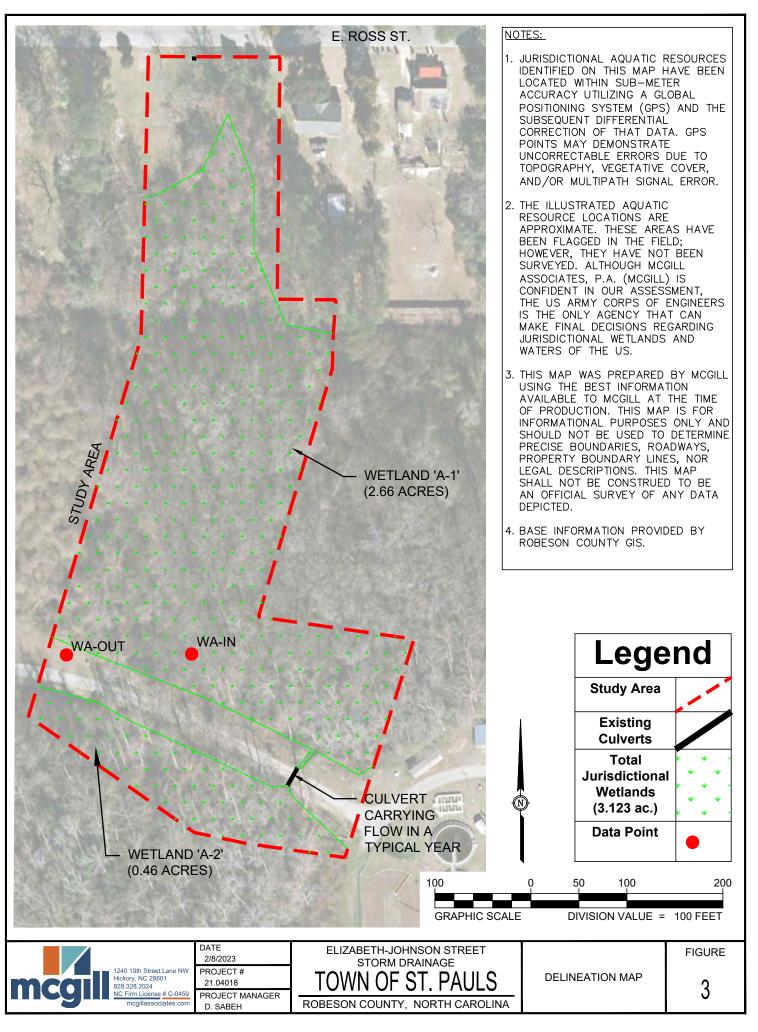
on Swaim 2/8/2023

Signature and date of person requesting PJD (REQUIRED, unless obtaining the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.







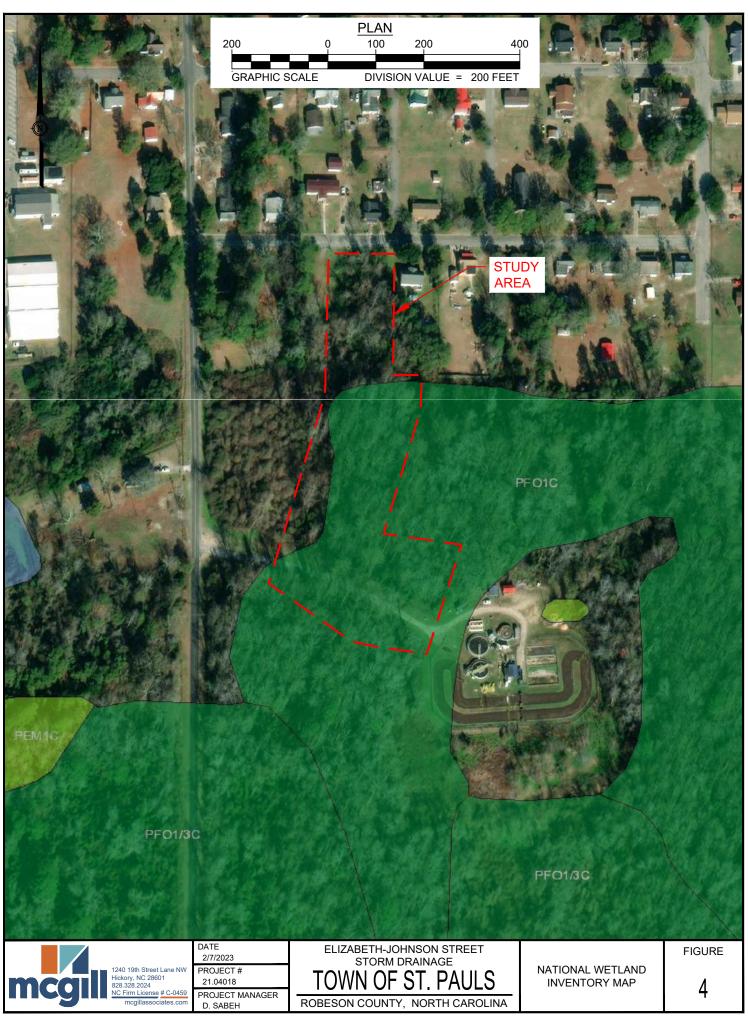




Photo One: View looking northwest at Wetland A-1.

Photo Two: View looking north within Wetland A-1 near the wastewater treatment plant access road.



Photo Three: View looking south at Wetland A-1 near E Ross Street.

Photo Four: View looking south at culvert outlet near Wetland A-2 .

1240 19th Street Lane NW Hickory, NC 28601 828.328.2024 NC Firm License # C-0459	DATE 10/21/21 PROJECT # 21.04018	ELIZABETH-JOHNSON STREET STORM DRAINAGE TOWN OF ST. PAULS	PHOTO SHEET	FIGURE
mcgillassociates.com	PROJECT MANAGER D. SABEH	ROBESON COUNTY, NORTH CAROLINA		



MAP I	EGEND	MAP INFORMATION
Area of Interest (AOI) Area of Interest (AOI)	Spoil Area	The soil surveys that comprise your AOI were mapped at 1:20,000.
	10	, , , , , , , , , , , , , , , , , , , ,
 Severely Eroded Spot Sinkhole Slide or Slip Sodic Spot 		compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol Map Unit Name		Acres in AOI	Percent of AOI	
JT	Johnston soils	3.9	95.5%	
WkB Wakulla sand, 0 to 6 percent slopes		0.2	4.5%	
Totals for Area of Interest		4.0	100.0%	



U.S. Ar WETLAND DETERMINATION DAT See ERDC/EL TR-07-24	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)		
Project/Site: Elizabeth-Johnson Street	Storm Drainage	City/County: Robeson	Sampling Date: 10/13/21
Applicant/Owner: Town of St. Pauls			State: NC Sampling Point: WA-IN
Investigator(s): Jonathan Herman	S	Section, Township, Range:	
Landform (hillside, terrace, etc.): floodp		al relief (concave, convex, non	e): Flat Slope (%): 1
Subregion (LRR or MLRA): LRR P, MLF			
Soil Map Unit Name: Johnston (JT)		0	NWI classification: PFO1C
Are climatic / hydrologic conditions on the	e site typical for this time of yea	r? Yes X	No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hy			mstances" present? Yes X No
Are Vegetation, Soil, or Hy			n any answers in Remarks.)
SUMMARY OF FINDINGS – Atta	ach site map showing s	ampling point locations	s, transects, important features, etc.
Hydrophytic Vegetation Present? Hydric Soil Present? Wetland Hydrology Present?	Yes X No Yes X No Yes X No	Is the Sampled Area within a Wetland?	Yes <u>X</u> No
Remarks:			
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is registed in the second	Aquatic Fauna (B13) Marl Deposits (B15) (Hydrogen Sulfide Odd Oxidized Rhizosphere Presence of Reduced Recent Iron Reductio Thin Muck Surface (C Other (Explain in Ren	LRR U) pr (C1) es on Living Roots (C3) I Iron (C4) n in Tilled Soils (C6) C7) narks)	condary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)
Surface Water Present? Yes X	No Depth (inche	s): 1	
Water Table Present? Yes	No Depth (inche		
Saturation Present? Yes X	No Depth (inche	s): 0 Wetland Hyd	rology Present? Yes X No
(includes capillary fringe)	and the state of t	······································	
Describe Recorded Data (stream gauge	, monitoring well, aerial photos	, previous inspections), if availa	able:
Remarks:			

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: WA-IN

	Absolute	Dominant	Indicator	
Tree Stratum (Plot size: 100)	% Cover	Species?	Status	Dominance Test worksheet:
1. Magnolia virginiana	5	No	FACW	Number of Dominant Species
2. Liriodendron tulipifera	5	No	FACU	That Are OBL, FACW, or FAC: 6 (A)
3. Nyssa sylvatica	15	Yes	FAC	Total Number of Dominant
4. Acer rubrum	15	Yes	FAC	Species Across All Strata: 6 (B)
5		. <u></u>		Percent of Dominant Species
6		. <u></u>		That Are OBL, FACW, or FAC: 100.0% (A/B)
7				Prevalence Index worksheet:
8				Total % Cover of: Multiply by:
	40	=Total Cover		OBL species 50 x 1 = 50
50% of total cover:	20 20%	of total cover:	8	FACW species 20 x 2 = 40
Sapling/Shrub Stratum (Plot size: 100)			FAC species 45 x 3 = 135
1. Ligustrum sinense	10	Yes	FAC	FACU species 5 x 4 = 20
2. Acer rubrum	5	No	FAC	UPL species 0 x 5 = 0
3. Cyrilla racemiflora	5	No	FACW	Column Totals: 120 (A) 245 (B)
4. Magnolia virginiana	10	Yes	FACW	Prevalence Index = B/A = 2.04
5.				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				X 2 - Dominance Test is >50%
8.				X 3 - Prevalence Index is $\leq 3.0^1$
	30	=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:		of total cover:	6	(================================
Herb Stratum (Plot size: 100)				
1. Saururus cernuus	40	Yes	OBL	
2. Woodwardia areolata	10	Yes	OBL	¹ Indicators of hydric soil and wetland hydrology must be present, unless disturbed or problematic.
3.	10	103		Definitions of Four Vegetation Strata:
4.				
5.				Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or more in diameter at breast height (DBH), regardless of
6.				height.
7.				
				Sapling/Shrub – Woody plants, excluding vines, less
8.				than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9				
10		. <u></u>		Herb – All herbaceous (non-woody) plants, regardless
11.		. <u></u>		of size, and woody plants less than 3.28 ft tall.
12				
50% 64.54		=Total Cover	10	Woody Vine – All woody vines greater than 3.28 ft in height.
50% of total cover:	25 20%	of total cover:	10	
Woody Vine Stratum (Plot size:)				
1.				
2				
3				
4				
5				Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes <u>X</u> No
Remarks: (If observed, list morphological adaptation	ons below.)			
	-			

SOIL

Depth Matrix	Redox	x Features					
inches) Color (moist) %	Color (moist)	% Type ¹	Loc ²	Texture	Remarks		
0-12 10YR 2/1 100)			Mucky Loam/Clay			
Type: C=Concentration, D=Depletion,	RM=Reduced Matrix, N	//S=Masked Sar	nd Grains	² Location:	PL=Pore Lining, M=Matrix.		
lydric Soil Indicators: (Applicable to	all LRRs, unless othe	.RRs, unless otherwise noted.)			for Problematic Hydric Soils ³ :		
Histosol (A1)	Thin Dark Su	urface (S9) (LRF	R S, T, U)	1 cm M	1 cm Muck (A9) (LRR O)		
Histic Epipedon (A2)	Barrier Island	ds 1 cm Muck (S	612)	2 cm M	/luck (A10) (LRR S)		
Black Histic (A3)	Black Histic (A3) (MLRA 15			Coast	Prairie Redox (A16)		
Hydrogen Sulfide (A4) Loamy Mucky Mine			LRR O)	(out	side MLRA 150A)		
Stratified Layers (A5) Loamy Gleyed Matrix (F2)				Reduced Vertic (F18)			
Organic Bodies (A6) (LRR P, T, U)	Depleted Ma	ıtrix (F3)		(out	side MLRA 150A, 150B)		
X_5 cm Mucky Mineral (A7) (LRR P, 1	r, U) Redox Dark	Surface (F6)		Piedm	Piedmont Floodplain Soils (F19) (LRR P, 1		
Muck Presence (A8) (LRR U)	Depleted Da	rk Surface (F7)		Anoma	Anomalous Bright Floodplain Soils (F20)		
1 cm Muck (A9) (LRR P, T)	Redox Depre	essions (F8)		(ML	(MLRA 153B)		
Depleted Below Dark Surface (A11) Marl (F10) (L	_RR U)		Red P	Red Parent Material (F21)		
Thick Dark Surface (A12)	Depleted Oc	hric (F11) (MLR	A 151)	Very S	Shallow Dark Surface (F22)		
Coast Prairie Redox (A16) (MLRA	150A) Iron-Mangan	ese Masses (F1	2) (LRR	O, P, T) (out	side MLRA 138, 152A in FL, 154)		
Sandy Mucky Mineral (S1) (LRR O	S) X Umbric Surfa	ace (F13) (LRR	P, T, U)	Barrie	Barrier Islands Low Chroma Matrix (TS7)		
Sandy Gleyed Matrix (S4)	Delta Ochric	(F17) (MLRA 1	51)	(ML	RA 153B, 153D)		
Sandy Redox (S5)	rtic (F18) (MLR/	A 150A, 1	50B) Other	(Explain in Remarks)			
Stripped Matrix (S6)	Piedmont Floodplain Soils (F19) (MLRA			RA 149A)			
Dark Surface (S7) (LRR P, S, T, U)	· · · · · · · · · · · · · · · · · · ·			20)			
Polyvalue Below Surface (S8)				,	tors of hydrophytic vegetation and		
(LRR S, T, U)	•	v Dark Surface (and hydrology must be present,		
- · · ·		8, 152A in FL, ²	,		ess disturbed or problematic.		
Restrictive Layer (if observed):							
				1			
Туре:							

Remarks:

U.S. Arm WETLAND DETERMINATION DATA See ERDC/EL TR-07-24;		-	OMB Control #: 0710-xxxx, Exp: Pending Requirement Control Symbol EXEMPT: (Authority: AR 335-15, paragraph 5-2a)
Project/Site: Elizabeth-Johnson Street Sto	orm Drainage	City/County: Robeson	Sampling Date: 10/13/21
Applicant/Owner: Town of St. Pauls			State: NC Sampling Point: WA-OUT
Investigator(s): Jonathan Herman	S	ection, Township, Range: Tov	
Landform (hillside, terrace, etc.): road em		al relief (concave, convex, none	
Subregion (LRR or MLRA): LRR P, MLRA		Long: -78.96	
- · · ·	100A Lat. 04.7000	Long70.00	
Soil Map Unit Name:			NWI classification: N/A
Are climatic / hydrologic conditions on the s			No (If no, explain in Remarks.)
Are Vegetation, Soil, or Hyde			mstances" present? Yes X No
Are Vegetation, Soil, or Hydr	rologynaturally probler	matic? (If needed, explain	any answers in Remarks.)
l l l l l l l l l l l l l l l l l l l		ampling point locations	s, transects, important features, etc.
Hydrophytic Vegetation Present?	Yes <u>No X</u>	Is the Sampled Area	
Hydric Soil Present?	Yes No_X_ Yes No_X_	within a Wetland?	Yes No_X
Wetland Hydrology Present? Remarks:	res NO X		
HYDROLOGY			
Wetland Hydrology Indicators: Primary Indicators (minimum of one is requested in the second	Aquatic Fauna (B13) Marl Deposits (B15) (L Hydrogen Sulfide Odo Oxidized Rhizosphere Presence of Reduced Recent Iron Reduction Thin Muck Surface (C Other (Explain in Rem	RR U) r (C1) s on Living Roots (C3) Iron (C4) i in Tilled Soils (C6) 7)	condary Indicators (minimum of two required) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Moss Trim Lines (B16) Dry-Season Water Table (C2) Crayfish Burrows (C8) Saturation Visible on Aerial Imagery (C9) Geomorphic Position (D2) Shallow Aquitard (D3) FAC-Neutral Test (D5) Sphagnum Moss (D8) (LRR T, U)
Surface Water Present? Yes	No X Depth (inches	5):	
Water Table Present? Yes	No X Depth (inches		
Saturation Present? Yes	No X Depth (inches	s): Wetland Hydr	rology Present? Yes No X
(includes capillary fringe)			
Describe Recorded Data (stream gauge, n	nonitoring well, aerial photos,	previous inspections), if availa	ble:
Remarks:			

VEGETATION (Four Strata) – Use scientific names of plants.

Sampling Point: WA-OUT

Tree Stratum (Plot size: 10)	Absolute	Dominant	Indicator	Dominance Test worksheet:
<u>Tree Stratum</u> (Plot size: <u>10</u>) 1.	% Cover	Species?	Status	
2.				Number of Dominant Species That Are OBL, FACW, or FAC: 0 (A)
3				Total Number of DominantSpecies Across All Strata:22(B)
5.				Percent of Dominant Species That Are OBL, FACW, or FAC: 0.0% (A/B)
7				Prevalence Index worksheet:
8.				Total % Cover of: Multiply by:
		=Total Cover		OBL species 0 $x 1 = 0$
50% of total cover:		of total cover:		FACW species $0 x 2 = 0$
Sapling/Shrub Stratum (Plot size: 10)				FAC species $0 x 3 = 0$
4				FACU species $100 \times 4 = 400$
2.				UPL species $0 \times 5 = 0$
3.				Column Totals: 100 (A) 400 (B)
4.				Prevalence Index = $B/A = 4.00$
				Hydrophytic Vegetation Indicators:
6.				1 - Rapid Test for Hydrophytic Vegetation
7.				2 - Dominance Test is >50%
8				3 - Prevalence Index is ≤3.0 ¹
		=Total Cover		Problematic Hydrophytic Vegetation ¹ (Explain)
50% of total cover:	20%	of total cover:		
Herb Stratum (Plot size: 10)				
1. Festuca rubra	70	Yes	FACU	¹ Indicators of hydric soil and wetland hydrology must be
2. Elymus repens	30	Yes	FACU	present, unless disturbed or problematic.
3.				Definitions of Four Vegetation Strata:
4		. <u></u>		Tree – Woody plants, excluding vines, 3 in. (7.6 cm) or
5				more in diameter at breast height (DBH), regardless of
6.				height.
7				Conting/Chrysh Weathersteinsteinsteinen lage
8.				Sapling/Shrub – Woody plants, excluding vines, less than 3 in. DBH and greater than 3.28 ft (1 m) tall.
9.				
10.				
11				Herb – All herbaceous (non-woody) plants, regardless of size, and woody plants less than 3.28 ft tall.
12.	100	=Total Cover		Woody Vine – All woody vines greater than 3.28 ft in
50% of total cover: 50		of total cover:	20	height.
	2070		20	
<u>Woody Vine Stratum</u> (Plot size: 10)				
1				
2.			·	
3.				
4				
5			·	Hydrophytic
		=Total Cover		Vegetation
50% of total cover:	20%	of total cover:		Present? Yes No X
Remarks: (If observed, list morphological adaptation	s below.)			

SOIL

Depth	Matrix	Redo	x Featu	res				
inches)	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²	Texture Remarks	
0-6	10YR 4/2	100					Sandy	
6-12	10YR 6/3	100					Sandy	
• ·	oncentration, D=Depl					d Grains.	² Location: PL=Pore Lining, M=Matrix.	
•		DIE TO AII LI	RRs, unless otherwise noted.)				Indicators for Problematic Hydric Soi	lis":
Histosol (A1) Histic Epipedon (A2)			Thin Dark Surface (S9) (LRR S, T, U)				1 cm Muck (A9) (LRR O) 2 cm Muck (A10) (LRR S)	
	,		Barrier Islands 1 cm Muck (S12)					
Black Histic (A3)			(MLRA 153B, 153D) Loamy Mucky Mineral (F1) (LRR O)				Coast Prairie Redox (A16)	
Hydrogen Sulfide (A4)							(outside MLRA 150A)	
Stratified Layers (A5)			Loamy Gleyed Matrix (F2)				Reduced Vertic (F18)	
Organic Bodies (A6) (LRR P, T, U)		Depleted Matrix (F3)				(outside MLRA 150A, 150B)		
5 cm Mucky Mineral (A7) (LRR P, T, U)						Piedmont Floodplain Soils (F19) (L		
Muck Presence (A8) (LRR U)		Depleted Dark Surface (F7)				Anomalous Bright Floodplain Soils	(F20)	
1 cm Muck (A9) (LRR P, T)		Redox Depressions (F8)				(MLRA 153B)		
Depleted Below Dark Surface (A11)			Mari (F10) (LRR U)				Red Parent Material (F21)	
Thick Dark Surface (A12)			Depleted Ochric (F11) (MLRA 151)				Very Shallow Dark Surface (F22)	454
Coast Prairie Redox (A16) (MLRA 150A)								
Sandy Mucky Mineral (S1) (LRR O, S)		Umbric Surface (F13) (LRR P, T, U)				Barrier Islands Low Chroma Matrix	(157)	
			Delta Ochric (F17) (MLRA 151)				(MLRA 153B, 153D)	
Sandy Redox (S5)			Reduced Vertic (F18) (MLRA 150A, 150B)					
Stripped Matrix (S6)			Piedmont Floodplain Soils (F19) (MLRA 149A) Anomalous Bright Floodplain Soils (F20)				,	
				-	•	•		
Polyvalue Below Surface (S8) (LRR S, T, U)		(MLRA 149A, 153C, 153D) Very Shallow Dark Surface (F22)				³ Indicators of hydrophytic vegetatio		
	5, I, U)		Very Shallov (MLRA 13		`	,	wetland hydrology must be prese unless disturbed or problematic.	ent,
Restrictive L	_ayer (if observed):		,	,	,-	,	· · · · · · · · · · · · · · · · · · ·	
Туре:								
– Depth (in	nches):						Hydric Soil Present? Yes No	х
Remarks:							L	

APPENDIX 2

- Early Notice and Public Review of a Proposed Activity in 100-Year Floodplain and Wetlands
- Affidavit for Publication of Early Notice
- Distribution List to Interested Agencies, Groups and Individuals
- Early Notice Comments



North Carolina Department of Public Safety

Office of Recovery and Resiliency

Roy Cooper, Governor Eddie M. Buffaloe, Jr., Secretary Laura H. Hogshead, Director

EARLY NOTICE AND PUBLIC REVIEW OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND

TOWN OF ST. PAULS FLOOD IMPROVEMENTS SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384

JUNE 10, 2023

To: All interested Agencies, Groups and Individuals

This is to give notice that the North Carolina Office of Recovery and Resiliency (NCORR) has received an application from the Town of St. Pauls to use U.S. Department of Housing and Urban Development (HUD) Community Development Block Grant - Mitigation (CDBG-MIT) funding under 24 CFR 58 from the Infrastructure Recovery Program to implement the Town of St. Pauls Flood Improvements Project ("Proposed Activity") located at South Johnson Street, East Clark Street, South Elizabeth Street; and Calvary Cornerstone Holiness Church; 400 East Ross Street; 401 East Clark Street; and Town of St. Pauls' Waste Water Treatment Plant (WWTP) parcel in St. Pauls, Robeson County, NC 28384. NCORR is conducting an evaluation as required by Executive Orders 11988 and 11990 in accordance with HUD regulations (24 CFR Part 55) including identifying and evaluating practicable alternatives to locating the Proposed Activity in floodplain and wetlands and the Proposed Activity's potential impacts on these special areas. There are three primary purposes for this notice. First, people who may be affected by activities in floodplain and wetlands, and those who have an interest in the protection of the natural environment, should be given an opportunity to express their concerns and provide information about these areas. Commenters are encouraged to offer alternative locations outside of the floodplain and wetlands, alternative methods to serve the same project purpose, and methods to minimize and mitigate impacts. Second, adequate public notice is an important public education tool. The dissemination of information and request for public comment about floodplain and wetlands facilitates and enhances governmental efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the government determines it will participate in actions taking place in floodplain and wetlands, it must inform those who may be put at greater or continued risk.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). The Proposed Activity is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. During the Hurricane Matthew storm event, the Town

Mailing Address: Post Office Box 110465 Durham, NC 27709



Phone: (984) 833-5350 www.ncdps.gov www.rebuild.nc.gov

An Equal Opportunity Employer

of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. The Proposed Activity entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

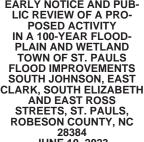
The Proposed Activity will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The Proposed Activity will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of National Wetland Inventory (NWI) mapped and USACE verified delineated wetlands. These impacts to 100-year floodplain and wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. The contractor shall provide adequate pump around or diversion to keep the work area dry. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. Alternatives were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. The Class B riprap apron was designed to prevent washout at the culvert outlet. The Proposed Activity was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp a 177.62-acre Freshwater Forested/ Shrub Wetland (PFO1C).

Natural floodplains and wetlands provide flood risk reduction benefits by slowing runoff and storing flood water. In addition, floodplains and wetlands are beneficial by providing diverse wildlife habitat, flood and erosion control, surface water quality maintenance, groundwater recharge, and educational, scientific, cultural, and recreational opportunities. Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the Proposed Activity will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. Construction will result in approximately 0.07 acres of wooded habitat loss. No additional indirect floodplain/wetland impacts or negative impacts to floodplain/wetland values are anticipated. The Proposed Activity will benefit surrounding residential areas by alleviating flooding and preventing private property damage. As conceived and designed, through a system of underground culverts, this Proposed Activity aims to convey stormwater from a relatively flat geographical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The Proposed Activity is not anticipated to exceed 1.5 acres of disturbance. The Proposed Activity will be completed in accordance with all applicable federal, State, and

local laws, regulations, and permit requirements and conditions including the U.S. Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, and Floodplain Development Permit.

Floodplain maps based on the FEMA Flood Insurance Rate Maps (FIRM), the USACE NWP 18 Permit Verification and Jurisdictional Determination, NWI wetlands maps, and supporting documentation are available for review at https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews. A full description of the Proposed Activity may also be viewed in person, by appointment only, at: NCORR, 200 Park Offices Drive, Durham, NC 27709. Call (984) 833-5350 to make an appointment.

Written comments must be received by NCORR at the following address on or before June 26, 2023: Laura Hogshead, Director, NCORR, ATTN: St. Pauls Flood Improvements, P.O. Box 110465, Durham, NC 27709. Comments may also be submitted by email to <u>publiccomments@rebuild.nc.gov</u> with "ATTN: St. Pauls Flood Improvements Comments" in the subject line.



This is to give notice that the North Carolina Office of Re covery and Resiliency (NCORR) has received an ap plication from the Town of Si Pauls to use U.S. Departmen of Housing and Urban Devel opment (HUD) Community De velopment Block Grant – Mitig ation (CDBG-MIT) funding un der 24 CFR 58 from the Infra structure Recovery Program to implement the Town of Si Pauls Flood Improvements Project ("Proposed Activity" located at South Johnson Street, East Clark Street South Elizabeth Street; and Calvary Cornerstone Holiness tı. var olines Stree Cause Church; 4 01 East 401 East Clark Street Town of St. Pauls' Waste ter Treatment Plant (W parcel in St. Pauls, Rob County, NC 28384. NCO conducting an evaluation required by Evaluation beso DRR ion a require 11988 11988 and ance with H CFR Part & fying and able alterna Dr⊾ inclu⊾ aluating ′es to lo ⁺v in 't in 55) l we ed A here are three primary pur-oses for this notice. First eople who may be affected by ctivities in floodplain and wet-inds, and those who have an terest in the protection of the atural environment, should be iven an opportunity to ex-ress their concerns and rovide information pacts on the There are poses for r alternativ of the floor a alternativ the sam nd method mitigate in enco loca plair s outside d wetland s to serv Is to serve the sam purpose, and method mize and mitigate im Second, adequate put ation tool. The dissem of information and re for public commer oodplain and wetland es and enhances doy and ni mitiga מויי~ natio facilitates and enhar ernmental efforts to re risks and impacts as with the occupancy a fication of these spec Third, as a matter of when the governmen ines it will participa d enhances orts to reduct oacts assoc a matten a matten governmern vill participate ing place in flo rds, it must ' be put a rk. nos r or

The State of was adversely landfall of Hur (October 8 Florence North C impacte ember 1 endectivity B, 20 Septembe, oposed Activity i ddress frequer an area locate nson Street an eet, and north o which is a natura outlets fo adan an arc innson Str treet, and non which is a natun erland outlets f erland outlets f ering the Hu form ever 's expe dar videspro becially South ark Str s in the Jo led and in need of assist by emergency respon-The Town proposes a Community of the terminated assisted the terminated assisted as the terminated as the ter nd ill

by face water quality mainten-ance, groundwater recharge and educational, scientific, cul-tural, and recreational oppor-tunities. Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. Floodwater storage and conveyance groundwater discharge or re-charge, erosion control, and water quality maintenance will be positively affected because the Proposed Activity will al-low for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding resid-ential area causing erosion and accumulating debris and pollutants to enter the wetland Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an aven-ue for dissipation and wetland hydrology recharge. Construc-tion will result in approximately 0.07 acres of wooded habitat loss. No additional indirect floodplain/wetland impacts or n egative impacts to floodplain/wetland values are anticipated. The Proposed Activity will benefit surround-ing residential areas by allevi-ating flooding and preventing private property damage. As conceived and designed through a system of under-ground culverts, this Proposed Activity aims to convey storm-water from a relatively flat geo-graphical area downstream to a point south of East Ross Street, for discharge into Big Marsh Swamp. The Proposed Activity is not anticipated to ex-ceed 1.5 acres of disturbance The Proposed Activity will be completed in accordance with all applicable federal, State and local laws, regulations and perimit requirements and conditions including the U.S Army Corps of Engineers (USACE) Clean Water Act (CWA) Section 404 Nation-mischarges, NC Division of Water Resources CWA Sec-tion 401 Water Quality Certific-ation, and Floodplain Develop-ment Permit.

Floodplain maps based on the FEMA Flood Insurance Rate Maps (FIRM), the USACE NWP 18 Permit Verification and Jurisdictional Determina-tion, NWI wetlands maps, and supporting documentation are available for review at https://www.rebuild.nc.gov/abo ut/plans-policies-reports/envir-onmental-reviews. A full de-scription of the Proposed Activ-ity may also be viewed in per-son, by appointment only, at NCORR, 200 Park Offices Drive, Durham, NC 27709. Call (984) 833-5350 to make an ap-pointment.

Written comments must be re-ceived by NCORR at the fol-lowing address on or before June 26, 2023: Laura Hogshead, Director, NCORR ATTN: St. Pauls Flood Im-provements, P.O. Box 110465 Durham, NC 27709. Com-ments may also be submitted by email to publiccomments@rebuild.nc.g ov with "ATTN: St. Pauls Flood Improvements Comments" in the subject line.

EARLY NOTICE FLOODPLAIN & WETLAND DISTRIBUTION LIST

TOWN OF ST. PAULS FLOOD IMPROVEMENTS

SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384

Published in The Robesonian on 6/10/23, comments end 6/26/23

FEDERAL AGENCIES

Agency	Name & Address	Method		
	Mr. Lenwood E. Smith, II			
	Environmental Protection Specialist	Lenwood.E.Smith@hud.gov		
HUD NC	Greensboro Field Office			
	U.S. Dept. of Housing and Urban			
	Development			
	1500 Pinecroft Road, Suite 401			
	Greensboro, NC 27407-3838			
	Ms. Gracia B. Szczech, Regional			
Administrator				
FEMA,	U.S. Dept. of Homeland Security	FedEx		
Region IV	FEMA, Region IV			
	3003 Chamblee Tucker Road			
	Atlanta, GA 30341			
	Hard copies may also be mailed to			
	Attn: 11990/NEPA Reviewer (EHP)			
FEMA	DHS/FEMA RIV	<u>FEMA-R4EHP@fema.dhs.gov</u> with th subject line REVIEW REQUEST :		
ATTN:	3003 Chamblee Tucker Road	11988/NEPA		
11988	Atlanta, GA 30341			
	Mr. John Blevins, Acting Regional			
	Administrator			
US EPA,	U.S. EPA, Region 4	FedEx		
Region 4	Laboratory Services & Applied Science Div.			
	980 College Station Road			
	Athens, GA 30605-2720			
	Ms. Ntale Kajumba, NEPA Coordinator			
IIS EDA	U.S. EPA, Region 4	Kajumba ntala@ana gay		
US EPA, Dogion 4	Laboratory Services & Applied Science Div.	Kajumba.ntale@epa.gov		
Region 4	980 College Station Road			
	Athens, GA 30605-2720			
	USFWS – Raleigh Field Office			
USFWS –	ATTN: John Ellis	john ellis@fws.gov		
Corws – Raleigh Field	P.O. Box 33726			
Office	Raleigh, NC 27636	cc: <u>leigh_mann@fws.gov</u>		
onice	ph.: 919-856-4520, ext. 26			

TRIBES, NATIONS AND COMMUNITIES (who asked to be notified)			
Catawba Indian Nation	Dr. Wenonah George Haire, THPO ATTN: THPO Archaeology Dept. Catawba Indian Nation 1536 Tom Steven Road Rock Hill, SC 29730	Does not want Notice	
Catawba Indian Nation	Chief Bill Harris Catawba Indian Nation 996 Avenue of the Nations Rock Hill, SC 29730 NC STATE AGENCIES	Does not want Notice	
STATE CLEARING- HOUSE	Ms. Crystal Best North Carolina Department of Administration State Environmental Review Clearinghouse 1301 Mail Service Center Raleigh, North Carolina 27699-1301	State.Clearinghouse@doa.nc.gov crystal.best@doa.nc.gov	
	LOCAL AGENCIES		
COUNTY	Kellie Blue County Manager Robeson County. NC 550 North Chestnut Street Lumberton, NC 28358 Phone: 910-671-3022	kellie.blue@co.robeson.nc.us	
COUNTY	Tammy Freeman Clerk to the Board Robeson County. NC 550 North Chestnut Street Lumberton, NC 28358 Phone: 910-671-3022	tammy.freeman@co.robeson.nc.us	
COUNTY	Myron Neville Director of Public Works Robeson County. NC Phone: 910-671-3488	myron.neville@co.robeson.nc.us	
TOWN	Ms. Debra McNeil Interim Town Administrator/ Town Clerk Town of St. Pauls 210 West Blue Street St. Pauls, NC 28384 Phone: 910-865-5164	<u>debra@stpaulsnc.gov</u>	

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:10 PM
То:	Smith, Lenwood E
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:11 PM
То:	FEMA-R4EHP@fema.dhs.gov
Subject:	REVIEW REQUEST: 11988/NEPA - Early Notice - Town of St. Pauls Flood Improvements
	Project, Robeson County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:14 PM
То:	Kajumba, Ntale
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. A hard copy of the revised Early Notice has also been sent via Federal Express to Mr. Blevins. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:18 PM
То:	john_ellis@fws.gov
Cc:	Mann, Leigh
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:20 PM
То:	State Clearinghouse
Cc:	Best, Crystal
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:20 PM
То:	Blue; Kellie
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:21 PM
То:	tammy.freeman@co.robeson.nc.us
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:22 PM
То:	myron.neville@co.robeson.nc.us
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

From:	Gievers, Andrea
Sent:	Friday, June 9, 2023 1:23 PM
То:	Mcneill, Debra
Subject:	Public Notice - Early Notice - Town of St. Pauls Flood Improvements Project, Robeson
	County, NC
Attachments:	NCORR Early Notice St. Pauls Flood Imp 6.10.23.pdf

Hello:

Please find attached the Public Notice for HUD 24 CFR §55.20(b) - *Early Notice and Public Review of a Proposed Activity in a 100-year Floodplain and Wetland* publishing June 10, 2023 for the NCORR Infrastructure Recovery Program's Town of St. Pauls Flood Improvements proposed project in the Town of St. Pauls, Robeson County, NC. *Design modifications to minimize wetland impacts include impacts to a small portion of the 100-year floodplain.* Please feel free to contact me if you have any questions. Thank you for your time and assistance.

Sincerely,

Andrea

FedEx. Package FedEx Tracking 8175 0328 8276 0200 Sender's Copy Form ID No. US Airbill Express Express Package Service .To most locations. Packages up to 150 lbs. 4 From Please print and press hard. 8 0 8 9 0 9 For packages over 150 lbs., use the FedEx Express Freight US Airbill. Sender's FedEx 5 0 9 2 6 Account Number Date 2 or 3 Business D Sender's FedEx First Overnight Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless Saturday Delivery is selected. FedEx 2Day A.M. Second business morning.* Saturday Delivery NOT available. Phone (845)682-1 evers 100 Name -FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless Saturday Delivery is selected. NCORR FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless Saturday Delivery is selected. X Company 5 FedEx Express Saver Third business day.* Saturday Delivery NOT available. FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available. Hil ings Kona Address Dept./Floor/Suite/Room 8 5 Packaging ·Declared value limit \$500. X den 7IP City State FedEx Tube FedEx FedEx Envelope* FedEx Pak* Other Box **Your Internal Billing Reference** Flood with change. av 6 Special Handling and Delivery Signature Options Fees may apply. See the FedEx Service Guide To Recipient's lovin Saturday Delivery MOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver. In. John Name Phone (Indirect Signature If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. Direct Signature Someone at recipient's address may sign for delivery. No Signature Required Package may be left without obtaining a signature for delivery. egion 4 Company Hold Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight. Does this shipment contain dangerous goods? lege tation One box must be checked. Address ord Yes As per associated Shipper's Declaration. Dry Ice Dry ice, 9, UN 1845_ Dept./Floor/Suite/Room We cannot de Hold Saturday FedEx location address REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select location Shipper's Declaration No __ kg _ X _ Cargo Aircraft Only Address Restrictions apply for dangerous goods — see the current FedEx Service Guide. Use this line for the HQLD location address or for continuation of your shipping address. This airbill can be used only when billing to a FedEx account number. For cash, check, or credit card transactions, please go to a staffed shipping location. Payment Bill to: 7 30605-2720 Enter FedEx Acct. No. below. City Sender Acct. No. in Section 1 will be billed. Recipient Third Party FedEx Acct. No. Total Declared Value[†] Total Packages Total Weight lbs. .00 Ship it. Track it. Pay for it. All online. Tour liability is limited to US\$100 unless you declare a higher value. See back for details. By using this airbill you agree to the service conditions on the back of this airbill and in the current FedEx Service Guide, including terms that limit our liability. Rev. Date 4/22 • Part #167002 • ©2012-2022 FedEx • PRINTED IN U.S.A. 644 Go to fedex.com. FedEx. NEW Package FedEx Tracking Number 8050 4421 7450 Form 0200 Express US Airbill 4 **Express Package Service** Packages up to 150 lbs. From Please print and press hard. 9899-0 * To most locations 8950 For packages over 150 lbs., use the new FedEx Express Freight US Airbill. Sender's FedEx rvice order has changed. Pl 2 6 Date Account Number 2 or 3 Busi xt Business Day Sender's ndreg Gievers 845682-1700 FedEx First Overnight FedEx 2Day A.M. Name Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. Second business morning.* Saturday Delivery NOT available FedEx Priority Overnight Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected. -FedEx 2Day Second business afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected. Company Hi Koad FedEx Standard Overnight Next business afternoon.* Saturday Delivery NOT available. FedEx Express Saver Third business day.* Kings Address ousiness day.* lay Delivery NOT available. Dept/Floor/Suite/Room 586 5 Packaging * Declared value limit \$500 ZIP la City State FedEx Box FedEx Tube FedEx Envelope* FedEx Pak* Other 2 Your Internal Billing Reference St. Pauls 6 **Special Handling and Delivery Signature Options** 3 То Recipient's macia SATURDAY Delivery NOT available for FedEx Standard Overnight, FedEx 2Day A.M., or FedEx Express Saver Nan Phone Indirect Signature No Signature Required Package may be left without obtaining a signature for delivery. Direct Signature Someone at recipient's address may sign for delivery. *Fee applies* laien If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies*. Company HOLD Weekday FedEx location address REQUIRED. NOT available for FedEx First Overnight. Does this shipment contain dangerous goods? One box must be che Address Dept/Floor/Suite/Roor No Yes As per attached Shipper's Declaration. Yes Shipper's Declaration Not required. to P.O. boxes or P.O. ZIP code HOLD Saturday Dry Ice Dry ice, 9, UN 1845 kg FedEx location address REQUIRED. Available ONLY for FedEx D Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box. hamplee 100 Cargo Aircraft Only NGac dEx Priority Overnight and dEx 2Day to select locations Address Use this line for the HOLD locat address or for contin 7 Payment Bill to: 3 Enter FedEx Acct. No. or Credit Card No. below 11/anta City State 7IP Acct. No. in Section 1 will be billed. Recipient Third Party Credit Card Cash/Check FedEx Acct. No. Credit Card No. Exp Total Weight Total Declared Value[†] Total Packages Ibs. \$__ .00 Easy new Peel-and-Stick airbill. No pouch needed. ¹Our liability is limited to US\$100 unless you declare a higher value. See back for details. By using this Airbill you agree to the service conditions on the back of this Airbill and in the current FielEx Service Guide, including terms that limit our liability. 644 Apply airbill directly to your package. See directions on back

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Roy Cooper Governor Pamela B. Cashwell Secretary

June 27, 2023

Andrea Gievers Town of St. Pauls c/o NC Department of Public Safety Office of Recovery and Resiliency Durham, NC 27709-

Re: SCH File # 23-E-4600-0249 Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyan

Dear Andrea Gievers:

The above referenced environmental impact information has been submitted to the State Clearinghouse under the provisions of the National Environmental Policy Act. According to G.S. 113A-10, when a state agency is required to prepare an environmental document under the provisions of federal law, the environmental document meets the provisions of the State Environmental Policy Act.

No comments were made during the review of this document. If any further environmental review documents are prepared for this project, they should be forwarded to this office for intergovernmental review.

If you have any questions, please do not hesitate to contact me at (984) 236-0000.

Sincerely,

CRYSTAL BEST State Environmental Review Clearinghouse

Attachments

Mailing 1301 Mail Service Center | Raleigh, NC 27699-1301



Location 116 West Jones St. | Raleigh NC 27603 984-236-0000 T

ncadmin.nc.gov

Control No.:	23-E-4600-0249	Date Received:	6/13/2023
County .:	ROBESON	Agency Response:	6/23/2023
		Review Closed:	6/23/2023

DEVON BORGARDT CLEARINGHOUSE COORDINATOR DEPT OF NATURAL & CULTURAL RESOURCE

Project Information

Type:	National Environmental Policy Act ironmental Assessment
Applicant:	Town of St. Pauls
Project Desc.:	Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

☐No Comment	Comments Below	Documents Attached

Reviewed By: DEVON BORGARDT



North Carolina Department of Natural and Cultural Resources

State Historic Preservation Office

Ramona M. Bartos, Administrator

Governor Roy Cooper Secretary D. Reid Wilson Office of Archives and History Deputy Secretary, Darin J. Waters, Ph.D.

July 3, 2023

MEMORANDUM

TO: Crystal Best North Carolina State Clearinghouse Department of Administration crystal.best@doa.nc.gov

FROM: Ramona M. Bartos, Deputy State Historic Preservation Officer

Relefor Ramona M. Bartos

SUBJECT: Flood improvements, South Johnson, East Clark, South Elizabeth and East Ross Streets, St. Pauls, Robeson County, 23-E-4600-0249, ER 23-1289

Thank you for your submission of May 26 and June 2, 2023, concerning the above project.

We have conducted a review of the project and are aware of no historic resources which would be affected by the project. Therefore, we have no comment on the project as proposed.

The above comments are made pursuant to Section 106 of the National Historic Preservation Act and the Advisory Council on Historic Preservation's Regulations for Compliance with Section 106 codified at 36 CFR Part 800.

Thank you for your cooperation and consideration. If you have questions concerning the above comment, contact Renee Gledhill-Earley, environmental review coordinator, at 919-814-6579 or <u>environmental.review@ncdcr.gov</u>. In all future communication concerning this project, please cite the above referenced tracking number.

Control No.:	23-E-4600-0249	Date Received:	6/13/2023
County .:	ROBESON	Agency Response:	6/23/2023
		Review Closed:	6/23/2023

LYN HARDISON CLEARINGHOUSE COORDINATOR DEPT OF ENVIRONMENTAL QUALITY

Project Information

Туре:	National Environmental Policy Act ironmental Assessment
Applicant:	Town of St. Pauls
Project Desc.:	Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

✓No Comment	Comments Below	Documents Attached

Reviewed By: LYN HARDISON

Control No.:	23-E-4600-0249	Date Received: 6/13/2023
County .:	ROBESON	Agency Response: 6/23/2023
		Review Closed: 6/23/2023

JINTAO WEN CLEARINGHOUSE COORDINATOR DPS - DIV OF EMERGENCY MANAGEMENT

Project Information

Туре:	National Environmental Policy Act ironmental Assessment
Applicant:	Town of St. Pauls
Project Desc.:	Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

✓No Comment	Comments Below	Documents Attached

Reviewed By: JINTAO WEN

Control No.:	23-E-4600-0249	Date Received:	6/13/2023
County .:	ROBESON	Agency Response:	6/23/2023
		Review Closed:	6/23/2023

JESSICA MOSLEY CLEARINGHOUSE COORDINATOR DEPT OF TRANSPORTATION

Project Information

Туре:	National Environmental Policy Act ironmental Assessment
Applicant:	Town of St. Pauls
Project Desc.:	Proposed project is for the installation of upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping, buried underground in previously-disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

As a result of this review the following is submitted:

✓ No Comment	Comments Below	Documents Attached

Reviewed By: JESSICA MOSLEY

APPENDIX 3

- Combined FONSI/NOI-RROF/ Final Notice and Public Explanation of a Proposed Activity in a 100-year Floodplain and Wetland
- Affidavit for Publication of Final Notice (to be added)
- Distribution List to Interested Agencies, Groups and Individuals
- Final Notice Comments and Response (to be added)



North Carolina Department of Public Safety

Office of Recovery and Resiliency

Roy Cooper, Governor Eddie M. Buffaloe, Jr., Secretary Laura H. Hogshead, Director

PUBLIC NOTICE

COMBINED NOTICE OF FINDING OF NO SIGNIFICANT IMPACT (FONSI), NOTICE OF INTENT TO REQUEST RELEASE OF FUNDS (NOI-RROF), AND FINAL NOTICE AND PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND

TOWN OF ST. PAULS FLOOD IMPROVEMENTS SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384

July 19, 2023

To: All interested Agencies, Groups and Individuals

Name of Responsible Entity and Recipient: North Carolina Office of Recovery and Resiliency (NCORR), P.O. Box 110465, Durham, NC 27709. Contact: Director Laura Hogshead (984) 833-5350.

Pursuant to 24 CFR Section 58.43, this combined Notice of Finding of No Significant Impact (FONSI), Notice of Intent to Request Release of Funds (NOI-RROF), and Final Notice and Public Explanation of a Proposed Activity in a Floodplain and Wetland satisfies three separate procedural requirements for project activities proposed to be undertaken by NCORR.

Project Description: NCORR is responsible for the direct administration of the United States Department of Housing and Urban Development (HUD) Community Development Block Grant – Mitigation (CDBG-MIT) program in North Carolina. NCORR proposes to provide CDBG-MIT funding from the Infrastructure Recovery Program of \$451,500.00 for the Town of St. Pauls Flood Improvements Project ("Proposed Activity") located at South Johnson Street, East Clark Street, South Elizabeth Street, East Ross Street; and Calvary Cornerstone Holiness Church (Parcel ID 381404009, 0.34 acre); 400 East Ross Street (Parcel ID 38160204101, 1.3 acres); 401 East Clark Street (Parcel ID 38140401401, 0.17 acre); and Town of St. Pauls' Waste Water Treatment Plant (WWTP) parcel (Parcel ID 212002007, Pin 30890981900, 73.92 acres) in St. Pauls, Robeson County, NC 28384. The Proposed Activity is anticipated to have a total cost of \$801,500.00 and entails upgrades to stormwater conveyance infrastructure that includes the installation of catch basins and varying sizes of reinforced concrete piping (RCP), buried underground in previously-

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disturbed areas, and placed at a depth and slope that will facilitate conveyance of stormwater from the project area served by South Johnson Street, East Clark Street, East Ross Street, and South Elizabeth Street.

The State of North Carolina was adversely impacted by the landfall of Hurricanes Matthew (October 8, 2016) and Florence (September 14, 2018). The Proposed Activity is needed to address frequent flooding in an area located between Johnson Street and Elizabeth Street, and north of Clark Street, which is a natural bowl with overland outlets for stormwater. During the Hurricane Matthew storm event, the Town of Saint Pauls experienced widespread flood damage, especially in areas surrounding South Johnson and East Clark Streets, causing residents in these areas to be stranded and in need of assistance by emergency responders. The Town proposes a system of stormwater improvements that will carry future stormwater events south of these residential areas and connect with the Town's stormwater processing infrastructure. The Town has selected the Proposed Activity to assist its residents and community to be protected from future storm damage and flooding.

PUBLIC EXPLANATION OF A PROPOSED ACTIVITY IN A 100-YEAR FLOODPLAIN AND WETLAND

NCORR has conducted an evaluation as required by Executive Orders (EO) 11988 and 11990, in accordance with HUD regulations at 24 CFR 55 Subpart C Procedures for Making Determinations on Floodplain Management and Wetlands Protection. The Proposed Activity will result in temporary impacts to 0.04 acres and permanent impacts to 0.009 acres of 100-year floodplain (Zone AE). The Proposed Activity will result in temporary impacts to 0.0563 acres and permanent impacts to 0.072 acres of National Wetland Inventory (NWI) mapped and U.S. Army Corps of Engineers (USACE) verified delineated wetlands. These impacts to 100-year floodplain and wetlands include the installation of two 24-inch RCPs in the location of the existing single 24-inch RCP they are replacing to allow for additional flow during storm events under the gravel access road to the St. Pauls' WWTP. The culvert outlets will be armored with 18-inch Class B riprap apron to slow flow velocity and prevent erosion. The proposed permanent wetland impacts total approximately 0.0027 acres resulting from the riprap apron. Additional impacts to wetlands will result from installation of two 36-inch RCPs approximately 244 linear feet in length to be installed within the 20-foot easement leading from East Ross Street into the wetland area. The culvert outlets will be armored with 18-inch Class B riprap apron. The proposed permanent impacts total approximately 0.0686 acres resulting from the rip rap apron and fill within the 20-foot easement. All temporary wetland impacts will result from construction access. The Proposed Activity was designed to allow stormwater discharge to dissipate via sheet flow through the forested wetland before entering Big Marsh Swamp a 177.62-acre Freshwater Forested/ Shrub Wetland (PFO1C). The St. Paul's WWTP parcel is the only proposed location with portions in 100-year floodplain and wetlands, approximately 49.37 acres and 62.2 acres respectively.

NCORR has considered the alternatives and mitigation measures to be taken to minimize adverse impacts and to restore and preserve natural and beneficial values. This Proposed Activity involves stormwater infrastructure improvements to deficient existing infrastructure, and project designs have been completed in accordance with agency input to minimize impacts to the floodplain, wetlands, environment and community. Alternative designs were explored to avoid floodplain and wetland impacts, but adequate fall was not achievable without the proposed impacts. In order to ensure that stormwater is adequately drained from the surrounding area, which is prone to flooding, the two proposed 36-inch RCPs must extend into the wetland. The main alternative is the "No Action" Alternative which is not considered feasible since flooding in the area causes property damage to homes, churches and businesses, and roadway flooding blocks transportation accessibility during and after storm events. This Proposed Activity is critically necessary to protect the residents and community from future storm events. The "No Action" Alternative would provide no protection to the residential neighborhoods and greater community from future flood events, as mitigation would be compromised due to lack of financial support. Natural floodplains and wetlands provide flood risk reduction benefits by slowing runoff and storing flood water. In addition, floodplains and wetlands are beneficial by providing diverse wildlife habitat, flood and erosion control, surface water quality maintenance, groundwater recharge, and educational, scientific, cultural, and recreational opportunities. Wetlands have unique natural characteristics that play an integral role in the ecology of the watershed. Floodwater storage and conveyance, groundwater discharge or recharge, erosion control, and water quality maintenance will be positively affected because the Proposed Activity will allow for stormwater flow to be directly discharged into Big Marsh Swamp rather than flooding the surrounding residential area causing erosion and accumulating debris and pollutants to enter the wetland. Currently, stormwater is discharging through a deficient stormwater network into the same outlet point into Big Marsh Swamp. Big Marsh Swamp is heavily vegetated and relatively flat which will prevent upstream erosion and provide an avenue for dissipation and wetland hydrology recharge. Construction will result in approximately 0.07 acres of wooded habitat loss. The Proposed Activity is not anticipated to exceed 1.5 acres of disturbance. No additional indirect floodplain/wetland impacts or negative impacts to floodplain/wetland values are anticipated.

The Proposed Activity will be completed in accordance with all applicable federal, State, and local laws, regulations, and permit requirements and conditions. The following permits will be obtained, as applicable, prior to commencing work: USACE Clean Water Act (CWA) Section 404 Nationwide Permit (NWP) 18 Minor Discharges, NC Division of Water Resources CWA Section 401 Water Quality Certification, sedimentation and erosion control plan approval, and Floodplain Development Permit. Best Management Practices for erosion and sedimentation control will be utilized during construction. Timber mats will be used if conditions within wetlands are saturated to prevent rutting. Silt fence will be installed during construction to prevent runoff from impacting adjacent wetlands onsite. The contractor shall provide adequate pump around or diversion to keep the work area dry. All temporary wetland impacts will be stabilized and allowed to return to natural conditions post-construction. The Class B riprap apron was designed to slow flow velocity and prevent erosion and washout at the culvert outlet. The Proposed Activity and site locations are the most suitable, feasible options selected by the Town after a lengthy process to assist its residents and community to be protected from future storm events; the "No Action" alternative would not effectively address the area's flooding; and mitigation measures include erosion and sedimentation controls, permit conditions, a project design that minimizes impacts, and native plants used in site restoration.

Since the action will include modification of floodplain and new construction in wetland, EOs 11988 and 11990 require that the Proposed Activity not be supported if there are practicable alternatives to floodplain and wetland impacts. NCORR has reevaluated the alternatives to modification of floodplain and new construction in wetland, and has determined that it has no

practicable alternative. The 8-step process has been further documented in the EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination which is available for viewing and copying as described below in Public Review.

There are three primary purposes for this notice. First, people who may be affected by activities in floodplains and wetlands and those who have an interest in the protection of the natural environment are given an opportunity to express their concerns and provide information about these areas. Second, adequate public notice is an important public education tool. The dissemination of information and request for public comment about floodplains and wetlands can facilitate and enhance federal efforts to reduce the risks and impacts associated with the occupancy and modification of these special areas. Third, as a matter of fairness, when the federal government determines it will participate in actions taking place in floodplains and wetlands, it must inform those who may be put at greater or continued risk.

FINDING OF NO SIGNIFICANT IMPACT

An Environmental Assessment (EA) for the Proposed Activity has been prepared in accordance with the National Environmental Policy Act of 1969 (NEPA) and HUD environmental review regulations at 24 CFR Part 58. The EA is incorporated by reference into this FONSI. Subject to public comments, no further review of the Proposed Activity is anticipated. NCORR has determined that the EA for the project identified herein complies with the requirements of HUD environmental review regulations at 24 CFR Part 58. NCORR has determined that the Proposed Activity will have no significant impact on the human environment and, therefore, does not require the preparation of an environmental impact statement under NEPA.

Public Review: Public viewing of the EA, environmental review record, and EO 11988 Floodplain Management and EO 11990 Protection of Wetlands Determination is available online at <u>https://www.rebuild.nc.gov/about/plans-policies-reports/environmental-reviews</u>. Documents may also be viewed in person by appointment only at: NCORR, 200 Park Offices Drive, Durham, NC 27709. Call (984) 833-5350 to make an appointment.

Further information may be requested by writing to the above address, emailing <u>publiccomments@rebuild.nc.gov</u> or calling (984) 833-5350. This combined notice is being sent to individuals and groups known to be interested in these activities, local news media, appropriate local, state and federal agencies, the regional office of the U.S. Environmental Protection Agency having jurisdiction, and the HUD Field Office, and is being published in a newspaper of general circulation in the affected community.

Public Comments on the Proposed Activity within Floodplain and Wetland, FONSI and/or NOIRROF: Any individual, group or agency may submit written comments on the Proposed Activity. The public is hereby advised to specify in their comments which "notice" their comments address. Comments should be submitted via email, in the proper format, on or before August 3, 2023 at <u>publiccomments@rebuild.nc.gov</u>. Written comments may also be submitted by mail, in the proper format, to be received on or before August 3, 2023, and addressed to: Laura Hogshead, Director, NCORR, ATTN: St. Pauls Flood Improvements Project, P.O. Box 110465, Durham, NC 27709. All comments must be received on or before August 3, 2023 or they will not be considered.

If modifications result from public comment, these will be made prior to proceeding with the submission of a request for release of funds.

REQUEST FOR RELEASE OF FUNDS AND CERTIFICATION

On or after August 4, 2023, the NCORR certifying officer will submit a request and certification to HUD for the release of CDBG-MIT funds as authorized by related laws and policies for the purpose of undertaking this project under the North Carolina CDBG-MIT Infrastructure Recovery Program.

NCORR certifies to HUD that Laura Hogshead, in her capacity as Certifying Officer, consents to accept the jurisdiction of the U.S. federal courts if an action is brought to enforce responsibilities in relation to the environmental review process and that these responsibilities have been satisfied. HUD's approval of the certification satisfies its responsibilities under NEPA and related laws and authorities, and allows NCORR to use CDBG-MIT program funds.

Objection to Release of Funds: HUD will accept objections to its release of funds and NCORR's certification for a period of fifteen days following the anticipated submission date or its actual receipt of the request (whichever is later). Potential objectors should contact HUD or the NCORR Certifying Officer to verify the actual last day of the objection period.

The only permissible grounds for objections claiming a responsible entity's non-compliance with 24 CFR Part 58 are: (a) certification was not executed by NCORR's Certifying Officer; (b) the responsible entity has omitted a step or failed to make a decision or finding required by HUD regulations at 24 CFR Part 58; (c) the grant recipient or other participants in the development process have committed funds, incurred costs or undertaken activities not authorized by 24 CFR Part 58 before HUD's release of funds and approval of environmental certification; or (d) another federal agency acting pursuant to 40 CFR Part 1504 has submitted a written finding that the project is unsatisfactory from the standpoint of environmental quality.

Objections must be prepared and submitted in accordance with the required procedures (24 CFR 58.76) and shall be addressed to Tennille Smith Parker, Director, Disaster Recovery and Special Issues Division, Office of Block Grant Assistance, U.S. Department of Housing & Urban Development, 451 7th Street SW, Washington, DC 20410, Phone: (202) 402-4649, or emailed to disaster recovery@hud.gov.

Laura Hogshead Certifying Officer July 19, 2023

FONSI/NOI-RROF/FINAL NOTICE DISTRIBUTION LIST

TOWN OF ST. PAULS FLOOD IMPROVEMENTS

SOUTH JOHNSON, EAST CLARK, SOUTH ELIZABETH AND EAST ROSS STREETS, ST. PAULS, ROBESON COUNTY, NC 28384

Published in The Robesonian on 7/19/23, comments end 8/3/23

FEDERAL AGENCIES

Agency	Name & Address	Method	
HUD NC	Mr. Lenwood E. Smith, II Environmental Protection Specialist Greensboro Field Office U.S. Dept. of Housing and Urban	Lenwood.E.Smith@hud.gov	
	Development 1500 Pinecroft Road, Suite 401 Greensboro, NC 27407-3838		
FEMA, Region IV	Ms. Gracia B. Szczech, Regional Administrator U.S. Dept. of Homeland Security FEMA, Region IV 3003 Chamblee Tucker Road Atlanta, GA 30341	FedEx	
FEMA ATTN: 11988	Hard copies may also be mailed to Attn: 11990/NEPA Reviewer (EHP) DHS/FEMA RIV 3003 Chamblee Tucker Road Atlanta, GA 30341	<u>FEMA-R4EHP@fema.dhs.gov</u> with the subject line REVIEW REQUEST: 11988/NEPA	
US EPA, Region 4	Ms. Ntale Kajumba, NEPA Coordinator U.S. EPA, Region 4 Laboratory Services & Applied Science Div. 980 College Station Road Athens, GA 30605-2720	Kajumba.ntale@epa.gov	
USFWS – Raleigh Field Office	USFWS – Raleigh Field Office ATTN: John Ellis P.O. Box 33726 Raleigh, NC 27636 ph.: 919-856-4520, ext. 26	john_ellis@fws.gov cc: leigh_mann@fws.gov	
	TRIBES, NATIONS AND COMMUNITIES (who asked to be notified)		
	Dr. Wenonah George Haire, THPO ATTN: THPO Archaeology Dept. Catawba Indian Nation 1536 Tom Steven Road	Does not want Notice	

Catawba	Rock Hill, SC 29730	
Indian		
Nation		
	Chief Bill Harris	
Catawba	Catawba Indian Nation	Does not want Notice
Indian	996 Avenue of the Nations	Does not want Notice
Nation	Rock Hill, SC 29730	
	NC STATE AGENCIES	
	Ms. Crystal Best	
	North Carolina Department of Administration	
STATE	State Environmental Review Clearinghouse	State.Clearinghouse@doa.nc.gov
CLEARING-	1301 Mail Service Center	crystal.best@doa.nc.gov
HOUSE	Raleigh, North Carolina 27699-1301	
	LOCAL AGENCIES	
	Kellie Blue	
COUNTY	County Manager	kellie.blue@co.robeson.nc.us
	Robeson County. NC	<u>Keme.orde(a)co.robeson.ne.us</u>
	550 North Chestnut Street	
	Lumberton, NC 28358 Phone: 910-671-3022	
	Tammy Freeman	
	Clerk to the Board	
COUNTY	Robeson County. NC	tammy.freeman@co.robeson.nc.us
	550 North Chestnut Street	
	Lumberton, NC 28358	
	Phone: 910-671-3022	
	Myron Neville	
COUNTY	Director of Public Works	
COUNTY	Robeson County. NC	myron.neville@co.robeson.nc.us
	Phone: 910-671-3488	
	Ms. Debra McNeil	
TOWN	Interim Town Administrator/ Town Clerk	debro astroulene gov
IUWIN	Town of St. Pauls	debra@stpaulsnc.gov
	210 West Blue Street	
	St. Pauls, NC 28384	
	Phone: 910-865-5164	