Stormwater Capital Improvement Program

Report Date
03/18/26

The City of Alexandria's Stormwater Capital Improvement Program Schedule shows planned improvements to the City's storm sewer system. The City's Departments of Project Implementation and Transportation and Environmental Services develop this schedule using information from hired experts, best practices for project management and lessons learned from previous projects. The schedule shows when each project is complete. Project schedules may be impacted by changes in the funding plan, availability of contractors, conflicts with utilities, grant terms or unexpected problems. This version of the schedule shows progress through the report date.

Report Definitions:

- **Project Webpage** - URL link to the project's public webpage where you can find the most up to date information on the project's progress.
- **Project Description** - Description of the purpose of the project and/or problem it intends to address.
- **Current Phase** - Designates which of the three phases the project is currently in. Each project progresses through three phases: planning, design, and construction.
- **Total Planned Budget** - The total of prior and current fiscal year authorized funds plus future planned funds through year 10 in the current approved CIP Budget.
- **Funding Sources** - Where the project funding is coming from.
  - SWU - City of Alexandria Stormwater Utility Fee
  - ARPA - Federal Government American Rescue Plan Act
  - CFPF - Virginia State Community Flood Preparedness Fund
  - HUD - Federal Housing & Urban Development Community Project Fund
  - SSF - Sanitary Sewer Fund
- **Schedule** - Shown in calendar year, the schedules displays the current timeline for each phase of the project.

Bellefonte Ave Storm Drain Improvements

Project Webpage

https://www.alexandriava.gov/capital-projects/project/bellefonte-avenue-storm-drain-improvements

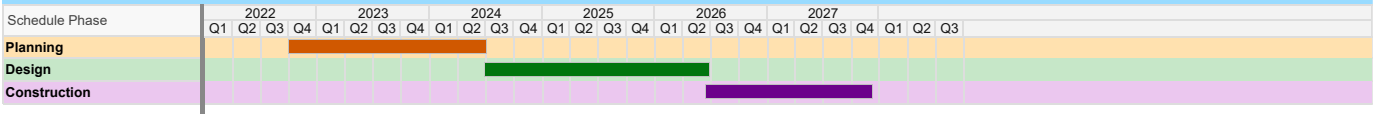
Project Information

Current Phase:	Design
Total Planned Budget:	$1,564,869.29
Funding Sources:	SWU

Project Description

The Bellefonte Avenue Storm Drain improvement project aims to improve the local storm drainage system along East Bellefonte Avenue and East Howell Avenue to convey the City's 10-year, 24-hour storm event . The project seeks to mitigate the impact of large storm events without worsening flooding elsewhere in the City. A federal grant application for a FY 2025 Community Directed Funding/Earmark grant administered through Housing and Urban Development (HUD) in the amount of $1,565,000 was submitted to fund this project.

Schedule - Calendar Year (CY)



Buddie Ford Outfall and Staircase Rehabilitation

Project Webpage

TBD

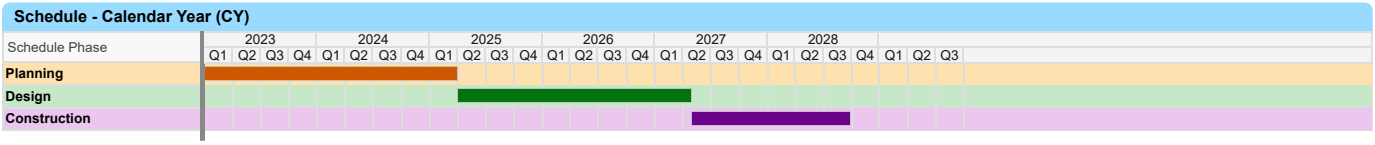
Project Information

Current Phase:	Design
Total Planned Budget:	$0.00
Funding Sources:	TBD

Project Description

This project involves stabilizing the storm sewer outfall draining the Buddie Ford Nature Center Parking lot. The outfall is located near the top of a steep slope in a wooded area. There is undercutting beneath the outfall structure and concrete apron, and the soil has eroded down to bedrock downstream of the headwall. The project will involve the installation of a new drop manhole and outfall structure at the bottom of the slope, along with a stilling basin or plunge pool at the new outlet to mitigate erosion from outlet velocities. The nearby staircase will be revitalized, and its design will follow National Park Service and Forest Service standards.

Schedule - Calendar Year (CY)



Clifford Ave, Fulton St. & Manning St. (CFM) Storm Sewer Improvements

Project Webpage

https://www.alexandriava.gov/capital-projects/project/clifford-avenue-fulton-street-and-manning-street-storm-sewer-improvements

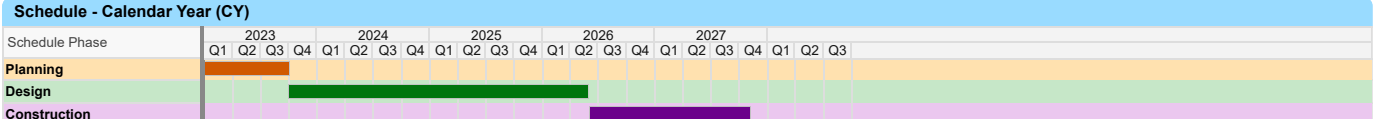
Project Information

Current Phase:	Design
Total Planned Budget:	$831,630.00
Funding Sources:	SWU, HUD (Beyer)

Project Description

The Clifford Avenue, Fulton Street and Manning Street (CFM) Storm Sewer Improvements Project will provide flooding mitigation to townhouses along the 3000 block of Fulton Street and Manning Street. The alley bound between the two streets will be re-built to channelize surface flow and improve drainage. Pervious pavement and underground storage will be installed to capture and attenuate stormwater runoff. Relocation of fiber conduit from the alley to Manning and Fulton streets is required prior to the start of construction. This project is supported by $420,000 in grant funding from the Housing and Urban Development (HUD) Community Project Fund.

Schedule - Calendar Year (CY)



Edison St. Storm Sewer Upgrades

Project Webpage

https://www.alexandriava.gov/stormwater-management/edison-street-and-dale-street-early-phase

Project Information

Current Phase: Design

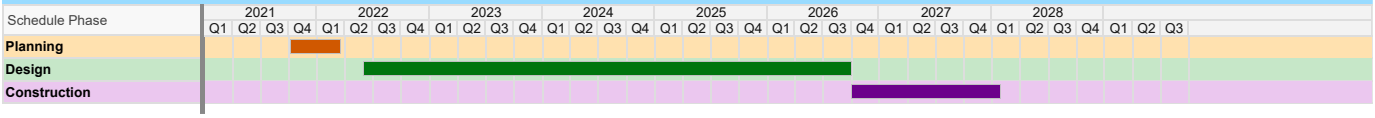
Total Planned Budget: $979,000.00

Funding Sources: SWU, CFPF

Project Description

The Edison St. Storm Sewer Upgrades Project proposes to upgrade the storm sewer system capacity along the 3800 block of Edison Street to the outfall in Four Mile Run Park. Additional inlets are proposed along Edison Street to increase storm water capture. These storm sewer improvements are a portion of the future Large Capacity Project – Edison and Dale that have been accelerated upon receiving funding from Virginia Community Flood Preparedness Fund (CFPF) prior to the funding becoming available in FY 2026.

Schedule - Calendar Year (CY)



Four Mile Run and Hoofs Run Inlet Installation and Enhancement

Project Webpage

https://www.alexandriava.gov/capital-projects/project/four-mile-run-and-hooffs-run-inlet-installation-and-enhancement

Project Information

Current Phase: Design

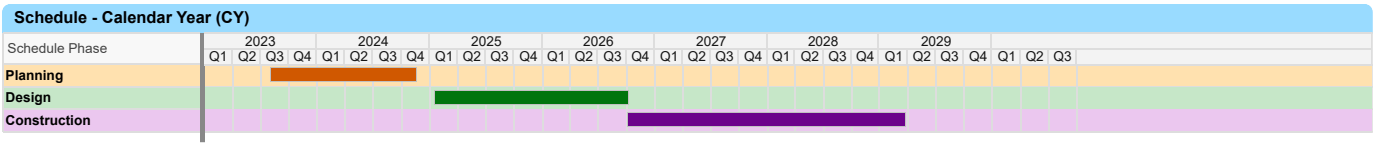
Total Planned Budget: $1,584,100.00

Funding Sources:

Project Description

This project will focus on comprehensive analysis of the existing stormwater inlet capacity across Four Mile Run and Hooffs Run watersheds. By evaluating the capacity of existing stormwater inlets within these two watersheds, this project will provide recommendations on installing new inlets and upsizing existing ones to mitigate local flash floods and to enhance the overall conveyance efficiency of the storm sewer system. The project receives funding from the City's Stormwater Utility and the Virginia Community Flood Preparedness Fund (CFPF) grant.

Schedule - Calendar Year (CY)



Hume Ave Stormdrain Bypass

Project Webpage

https://www.alexandriava.gov/tes/hume-avenue-bypass-project

Project Information

Current Phase: Design

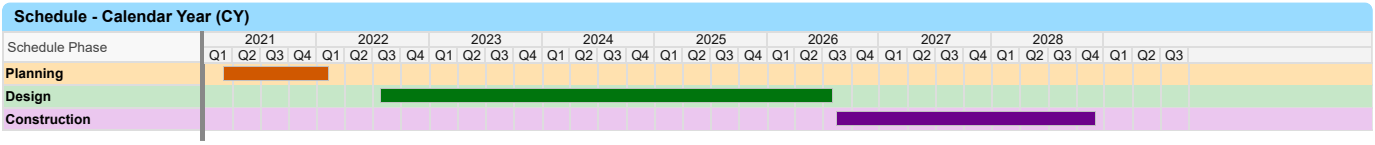
Total Planned Budget: $5,090,289.00

Funding Sources: SWU, ARPA

Project Description

The Hume Avenue Storm Sewer Bypass Project will install storm sewer and inlets along the 100 block of Hume Avenue and E. Raymond Avenue. The addition of a new utility within each right-of-way requires the relocation of gas, electric, water and sanitary systems. On E. Raymond Avenue the sanitary sewer will be upgraded to a larger pipe in tandem with its re-location. Hume Avenue will be re-built to restore conveyance along the curb and gutter.

Schedule - Calendar Year (CY)



Large Capacity - Commonwealth Ave & E.Glebe/Ashby St & Glebe Rd

Project Webpage

https://www.alexandriava.gov/stormwater-management/commonwealth-ashby-glebe-flood-mitigation-project

Project Information

Current Phase: Design

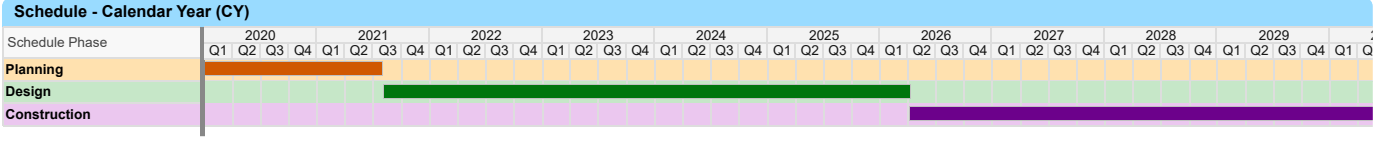
Total Planned Budget: $47,166,354.00

Funding Sources: SWU, CPFP

Project Description

This project will improve storm sewer system to mitigate flooding for the future 10-year design storm at two problem areas: the intersection of Commonwealth Ave and Ashby St, and at the intersection of Ashby St and E Glebe Rd

Schedule - Calendar Year (CY)



Mt Vernon and Edison Dual Culvert Replacement Project

Project Webpage

https://www.alexandriava.gov/stormwater-management/mount-vernon-dual-corrugated-metal-pipe-cmp-culvert-replacement-project

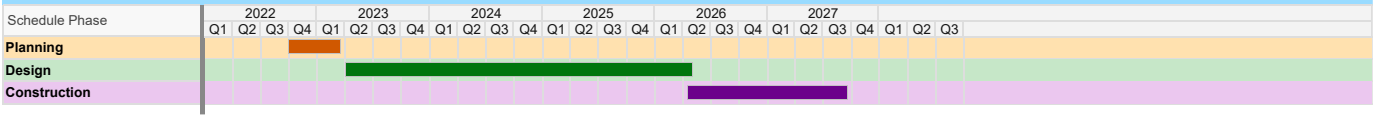
Project Description

The project upgrades an existing Dual Corrugated Metal Pipe (CMP) culvert system to convey larger storm events, reducing the chance of surcharging in Mount Vernon Avenue. The project receives funding from the City's Stormwater Utility and a grant from the Virginia Community Flood Preparedness Fund (CFPF).

Project Information

Current Phase:	Design
Total Planned Budget:	$2,500,000.00
Funding Sources:	SWU, CFPF

Schedule - Calendar Year (CY)



Mt. Vernon Cul-de-sac Inlets and Alley Storm Sewer Improvements

Project Webpage

https://www.alexandriava.gov/capital-projects/project/mt-vernon-cul-de-sac-inlets-and-alley-storm-sewer-improvements

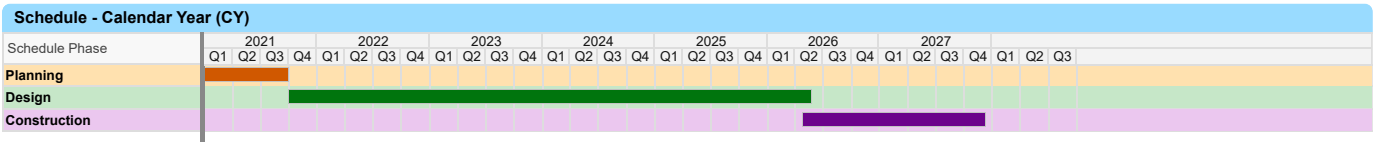
Project Description

The Mt. Vernon Cul-de-sac Inlets and Alley Improvements Project will provide flood mitigation for townhomes on the 100 block of Mt. Vernon Avenue. Inlets and runoff storage vaults will be installed on Mt. Vernon Avenue and its adjacent alleyway to capture runoff. The alleyway will be regraded to improve surface drainage into the downstream swale. The existing drinking water line will be relocated.

Project Information

Current Phase:	Design
Total Planned Budget:	$2,055,841.00
Funding Sources:	SWU, ARPA

Schedule - Calendar Year (CY)



N Overlook Drainage Improvements

Project Webpage

https://www.alexandriava.gov/capital-projects/project/n-overlook-drainage-improvements-project

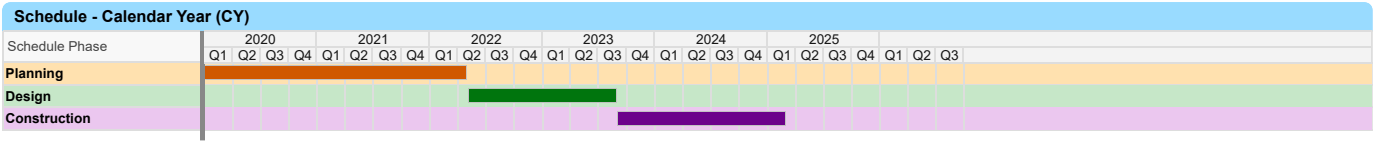
Project Description

Runoff from N Overlook Dr flows to a driveway access between 701 N Overlook Dr and 615 N Overlook Dr. Runoff overtops the north curb of the driveway access and flows towards Pullman Pl. This project will increase inlet capture and storm sewer capacity to mitigate flooding for the 10-year storm. In addition, project will ensure no increases in downstream storm sewer for the 10-year storm.

Project Information

Current Phase:	Construction
Total Planned Budget:	$387,979.35
Funding Sources:	SWU

Schedule - Calendar Year (CY)



Nethergate Storm Sewer Improvements

Project Webpage

https://www.alexandriava.gov/capital-projects/project/nethergate-storm-sewer-improvements

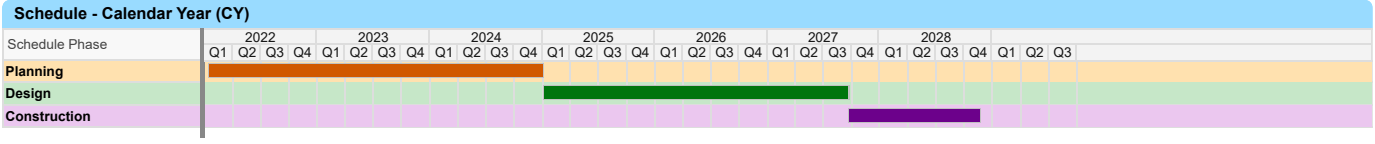
Project Description

The purpose of this project is to mitigate flooding in the Nethergate Townhome community based on reports from residents after intense rainfall events. The project area is bound by Bashford Ln to the north, Second St. to the south, Portner Rd to the west and W Abingdon Dr to the east. As part of this project, the design team will analyze hydraulic capacity of the existing storm sewer, and develop alternatives to mitigate flooding.

Project Information

Current Phase:	Design
Total Planned Budget:	$1,587,951.82
Funding Sources:	SSF

Schedule - Calendar Year (CY)



Oakland Terrace Timber Branch Channel Wall Replacement

Project Webpage

https://www.alexandriava.gov/capital-projects/project/oakland-terrace-timber-branch-channel-wall-reconstruction

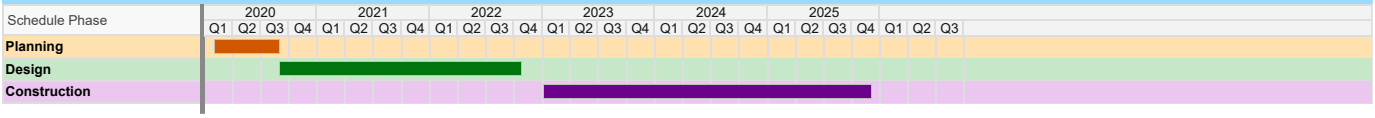
Project Description

This project replaces approximately 205 linear feet of an existing concrete retaining wall with a vegetative reinforced revetment and bioengineered soil.

Project Information

Current Phase:	Construction
Total Planned Budget:	$307,854.00
Funding Sources:	SWU

Schedule - Calendar Year (CY)



Skyhill Rd. Stormdrain Extension

Project Webpage

https://www.alexandriava.gov/capital-projects/project/skyhill-road-stormdrain-extension

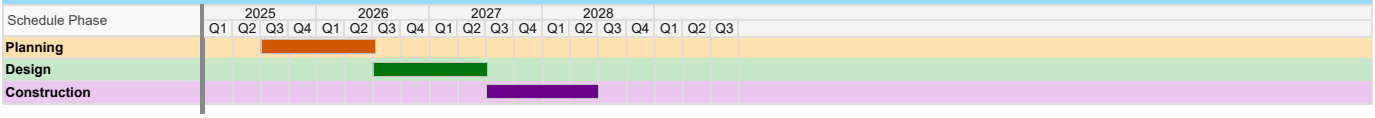
Project Description

Identified through neighborhood investigations and resident meetings in response to repeated flooding in the West Taylor Run area, this project addresses approximately 700 feet of Skyhill Road where stormwater currently flows without curb inlets and ponds at Janney's Lane. At present, a single 15-inch pipe connects to the 18-inch system but is too small to handle the flow, leading to intersection flooding and overflow onto nearby properties. The project will add midblock curb inlets and upsize the pipe at the Janney's Lane tie-in to improve drainage, reduce flooding, and enhance roadway safety under Flood Action Alexandria's Spot Improvements CIP.

Project Information

Current Phase:	Planning
Total Planned Budget:	$350,000.00
Funding Sources:	SWU

Schedule - Calendar Year (CY)



Valley Drive Storm Drain Improvements

Project Webpage

https://www.alexandriava.gov/capital-projects/project/valley-drive-storm-drain-improvements

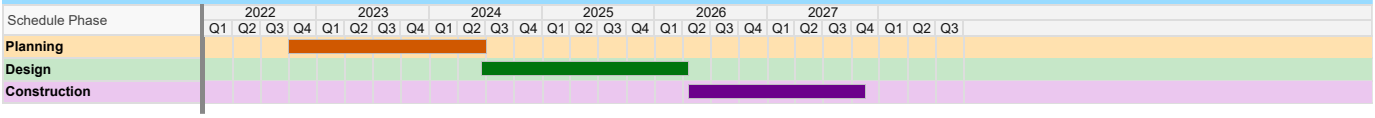
Project Description

The Valley Drive Storm Drain improvement project aims to improve the local storm drainage system, specifically targeting areas prone to flooding during the City's standard 10-year, 24-hour storm event along Valley Drive, Crestwood Drive, Summit Avenue, and Dogwood Drive. The project seeks to mitigate the impact of larger storm events while ensuring that improvements do not worsen flooding in other parts of the drainage system. Following City Council approval, staff is working on an application for a state Community Flood Preparedness Fund (CFPF) grant for a 60/40 match in the amount of $2,160,000 with local Stormwater Utility funding of $1,440,000 identified for the match.

Project Information

Current Phase:	Design
Total Planned Budget:	$3,879,999.29
Funding Sources:	SWU

Schedule - Calendar Year (CY)



W. Reed Ave & Dale St Storm Sewer Improvements

Project Webpage

https://www.alexandriava.gov/stormwater-management/edison-street-and-dale-street-early-phase

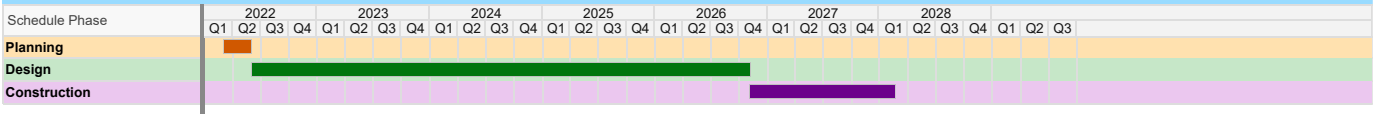
Project Description

W. Reed Ave & Dale St. Storm Sewer Improvements Project proposes new inlets and storm sewer along the 100 block of W. Reed Ave and capacity improvements along the downstream system to the outfall in Four Mile Run Park. These storm sewer improvements are a portion of the future Large Capacity Project – Edison and Dale that have been accelerated with Virginia Community Flood Preparedness Fund (CFPF) prior to the funding becoming available in FY 2026.

Project Information

Current Phase:	Design
Total Planned Budget:	$2,230,000.00
Funding Sources:	SWU

Schedule - Calendar Year (CY)



Forecasted Projects

The table below lists upcoming projects and the start date for associated planning activities.

Project Name	Project Description	Start Quarter/Year
E. Alexandria & E. Luray Ave Curb Inlets	This project will upsize existing inlets to increase runoff capture and reduce spread at the intersection of E. Alexandria and E. Luray Avenue. This potential project was identified during Neighborhood Investigations. Feasibility and solution are dependent on the Hooffs Run Culvert Bypass.	2026 Q1
E. Mason Ave & E. Duncan Ave Stormdrain Connection	This project will install a new pipe run connecting the Duncan Avenue and East Mason Avenue storm sewer system to better service both neighborhoods. This potential project was identified during Neighborhood Investigations. Feasibility and solutions are dependent on the Hooffs Run Culvert Bypass.	2026 Q1
E. Mason Ave Curb Inlets	This project will upsize existing inlets to increase runoff capture if underlying pipes have adequate capacity. However, the feasibility of this potential project identified during Neighborhood Investigations is dependent on the Hooffs Run Culvert Bypass.	2026 Q1
E. Mason Ave Stormdrain Extension	This project will add additional storm sewer and inlet capture to mitigate flooding north of E. Mason Ave. This potential project was identified during Neighborhood Investigations. Feasibility and solutions are dependent on the Hooffs Run Culvert Bypass.	2026 Q1
Walleston Court Stream Stabilization	The Walleston Court Stream Stabilization Project will improve about 900 feet of an eroding tributary to Taylor Run that runs between private backyards and a neighborhood roadway. The channel shows active bank erosion, undercut slopes, and loss of yard area, creating risks to both property and public infrastructure. Using the completed topographic survey and hydraulic modeling, staff are evaluating stabilization options such as channel reshaping, Flexamat reinforcement, and an upstream energy dissipator to reduce erosive flows. The project will remain within easement limits, protect trees where feasible, and include replanting to enhance habitat and aesthetics. The goal is to provide a durable, low-maintenance solution that safeguards homes, infrastructure, and the floodplain while preserving the character of the neighborhood.	2025 Q3