



Stormwater Capital Improvement Program



Report Date
09/13/24

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.

4300 Block of Loyola Avenue Storm Sewer Upgrade

Project Webpage

<https://www.alexandriava.gov/FloodAction>

Project Description

This project will replace the existing open storm sewer at 4300 block of Loyola Avenue with an enclosed storm sewer pipe.

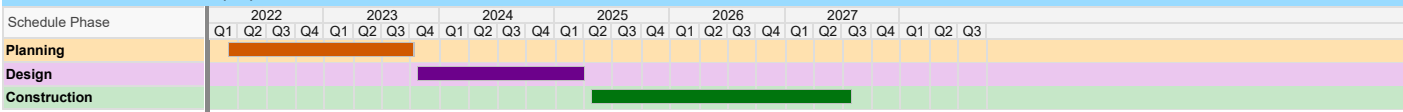
Project Information

Current Phase: Design

Total Planned Budget: \$836,500.00

Funding Sources: SWU

Schedule - Calendar Year (CY)



Bellefonte Ave Storm Drain Improvements

Project Webpage

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

Project Description

The Bellefonte Avenue 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 East Bellefonte Avenue, East Howell Avenue, and Clyde Avenue. 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.

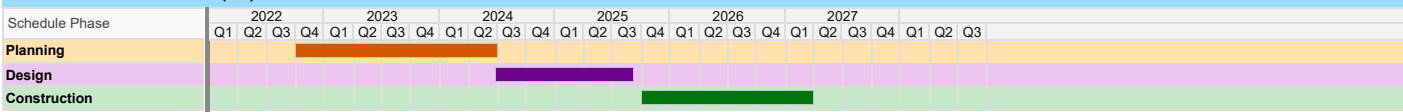
Project Information

Current Phase: Design

Total Planned Budget: \$1,564,869.29

Funding Sources: SWU

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 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. Inlets and underground storage will be installed to capture and attenuate stormwater runoff. Utility impacts will be identified and resolved during the design phase.

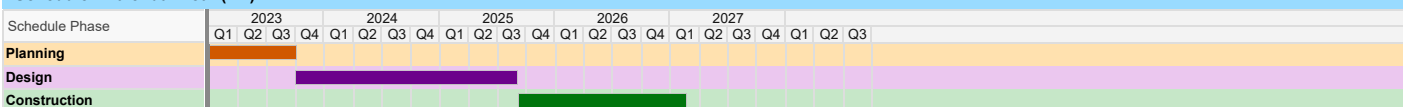
Project Information

Current Phase: Design

Total Planned Budget: \$780,000.00

Funding Sources: SWU, HUD (Beyer)

Schedule - Calendar Year (CY)



Large Capacity - Hooffs Run Culvert Bypass

Project Webpage

<https://www.alexandriava.gov/stormwater-management/hooffs-run-culvert-bypass-project>

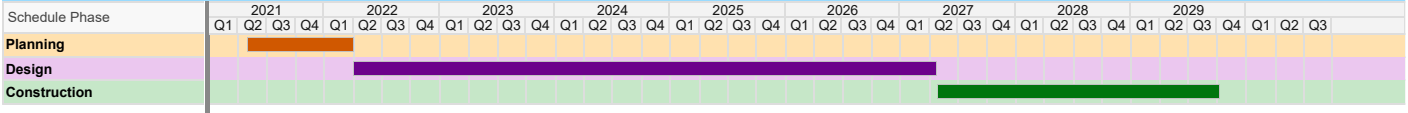
Project Description

This project involves stormwater system improvements to reduce flooding along the alignment of the existing Hooffs Run culvert. The improvements may include a combination of storage, large conveyance storm sewers, and green infrastructure to reduce flood risk. The design of these systems will consider the impact of climate change.

Project Information

Current Phase: Design
Total Planned Budget: \$59,315,200.00
Funding Sources: SWU

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>

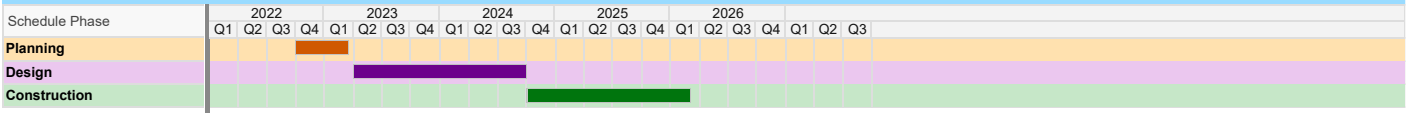
Project Description

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>

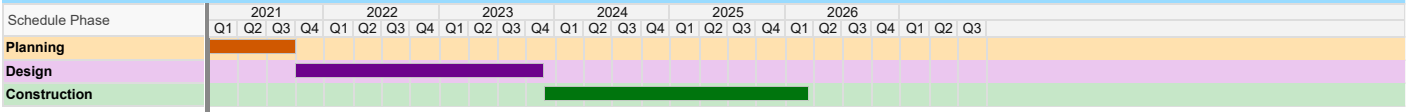
Project Description

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 underground storage vaults will be installed on Mt. Vernon Avenue and it's adjacent alleyway to capture and attenuate storm water runoff. In tandem with work, the alleyway will be re-graded to improve surface drainage into the downstream swale. The addition of new underground utilities requires the relocation of the local water utility.

Project Information

Current Phase: Construction
Total Planned Budget: \$1,232,784.00
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>

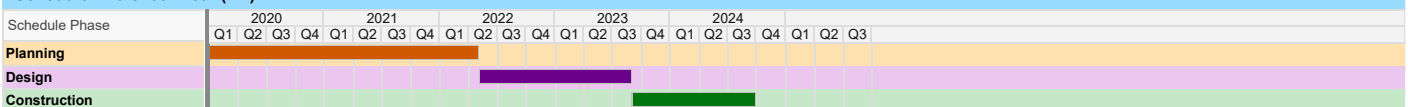
Project Description

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>

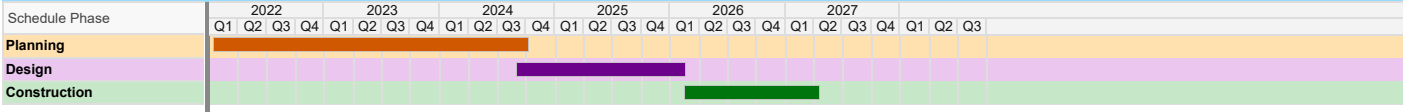
Project Information

Current Phase: Planning
Total Planned Budget: \$1,431,583.85
Funding Sources: SSF

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.

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>

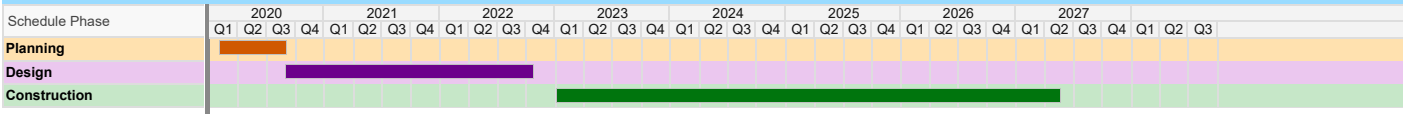
Project Information

Current Phase: Construction
Total Planned Budget: \$2,500,000.00
Funding Sources: SWU

Project Description

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

Schedule - Calendar Year (CY)



Pitt and Gibbon Combined Sewer Surcharging Mitigation

Project Webpage

<https://www.alexandriava.gov/capital-projects/project/pitt-and-gibbon-combined-sewer-surcharging-mitigation>

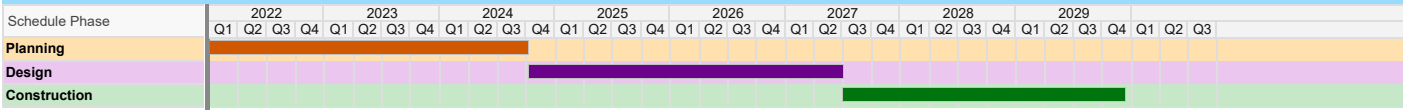
Project Information

Current Phase: Planning
Total Planned Budget: \$28,483,347.00
Funding Sources: SSF

Project Description

Mitigate private property overland flooding occurring during high intensity rainfall events that cause combined sewer manhole surcharging near the intersection of South Pitt and Gibbon Streets. Project solutions developed and implemented shall meet the City's design standards for a 10-year storm.

Schedule - Calendar Year (CY)



S Jordan St. Stormwater Improvement Phase II

Project Webpage

<https://www.alexandriava.gov/capital-projects/project/s-jordan-st-stormwater-improvement-project-phase-ii>

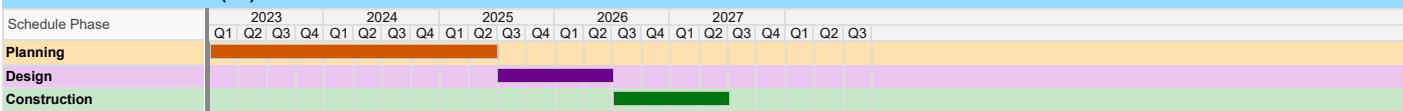
Project Information

Current Phase: Planning
Total Planned Budget: \$530,000.00
Funding Sources: SWU

Project Description

This project will design a solution to reduce backyard flooding risk to the maximum extent practicable on the north side of the block of 95 to 127 South Jordan Street. After the field investigation, reviewing CCTV recordings and reading the consultants recommendations, one small scale project was identified. SWM team to work with private property owners along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan to obtain a 15-ft. wide permanent easement for the storm drain system in this neighborhood as part of this project. Obtaining an easement will allow the City to provide maintenance to the storm drain system without having to request permission.

Schedule - Calendar Year (CY)



Valley Drive Storm Drain Improvements

Project Webpage

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

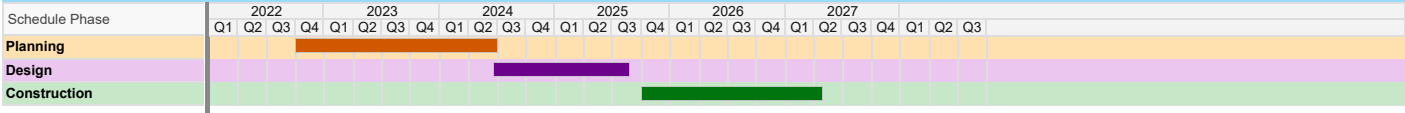
Project Description

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.

Project Information

Current Phase: Design
Total Planned Budget: \$3,639,999.29
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>

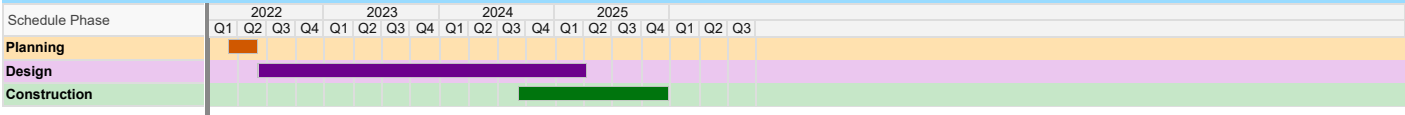
Project Description

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 upsiz 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.	2025 Q3
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.	2025 Q3
E. Mason Ave Curb Inlets	This project will upsiz 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.	2025 Q3
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.	2025 Q3
Skyhill Rd. Stormdrain Extension	This project will install a new pipe run and inlets along Skyhill Rd. to improve the neighborhood's drainage. This potential project was identified during Neighborhood Investigations.	2025 Q3
Walleston Court Stream Stabilization	Stabilize eroding banks of approximately 900-feet of unnamed tributary to Taylor Run along Francis Hammond Parkway in the Walleston Court neighborhood. Work will be done within the existing City easement.	2025 Q3

