

# **Stormwater Utility and Flood Mitigation Advisory Committee**

September 17, 2025 Meeting

# Tonight's Agenda

1. Welcome (7:00pm, 5 min)
2. Approval of minutes (7:05pm, 5 min, John)
3. Program update from City Staff (7:10pm, 30 min, City staff)
  - Large capacity projects: Commonwealth/Ashby/Glebe; Hooffs Run Culvert Bypass,
  - Combined sewer projects: Pitt & Gibbon
  - Spot Improvements
  - Sanitary sewer projects
  - Communications
  - Maintenance
4. Update on Braddock Rd. & West St. Study (7:40pm, 5 min, Brian Rahal)
5. Flood Resiliency Plan (7:45pm, 35 min, Jessica Lassetter)
6. Update of changes to Flood Mitigation Grant Program (8:20pm, 10min, Jesse Maines)
7. Committee memo in support of FY2027 Stormwater Fee (8:30pm, 10 min, John Hill)
8. Committee 2025-26 workplan and outreach activities (8:40pm, 10 min, Committee)
9. Public comment (8:50pm, 10 min)
10. Adjourn (9:00pm)

# Welcome remarks

AGENDA ITEM #1

# Approval of Minutes

AGENDA ITEM #2

# Program update from City Staff

AGENDA ITEM #3

# Flood Action Progress Report: Commonwealth, Ashby, Glebe

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

### Project Webpage

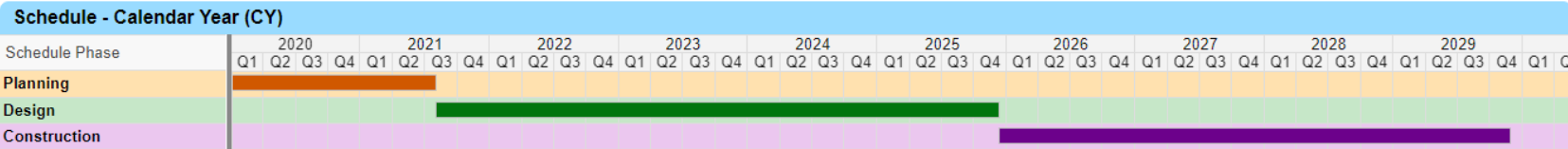
<https://www.alexandriava.gov/stormwater-management/commonwealth-ashby-glebe-flood-mitigation-project>

### Project 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

### Project Information

**Current Phase:** Design  
**Total Planned Budget:** \$47,166,354.00  
**Funding Sources:** SWU, CPFP



- Finalizing design stage end of 2025
- Utility relocations to begin next year (utility owners' responsibility)
- Bid phase for culvert construction to start in 2027 (after utility relocations)
- Coordinating with Mt Vernon/Arlington Ridge Road Bridge construction

# Flood Action Progress Report: CSS

- Pitt & Gibbon (\$20-25M) CSO surcharge mitigation. Project team reviewing alternatives to mitigate flooding.
- Nethergate (\$5M) CSO surcharge mitigation. Design consultant NTP in July 2025. Project extended due to estimated National Parks Service (NPS) permitting. Working on permits for utility survey and soil borings. Community meeting 9/29.

## Nethergate Storm Sewer Improvements

### Project Webpage

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

### Project Information

**Current Phase:** Design  
**Total Planned Budget:** \$1,587,951.82  
**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)

Schedule Phase	2022				2023				2024				2025				2026				2027				2028				2029							
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4				
Planning																																				
Design																																				
Construction																																				

# **Flood Action Progress Report: Hooffs Run Culvert Bypass Project**

- City staff continues evaluation of potential alternatives



# Flood Action Progress Report:

## Neighborhood Spot Projects

### Bellefonte Ave Storm Drain Improvements

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

**Project Description**  

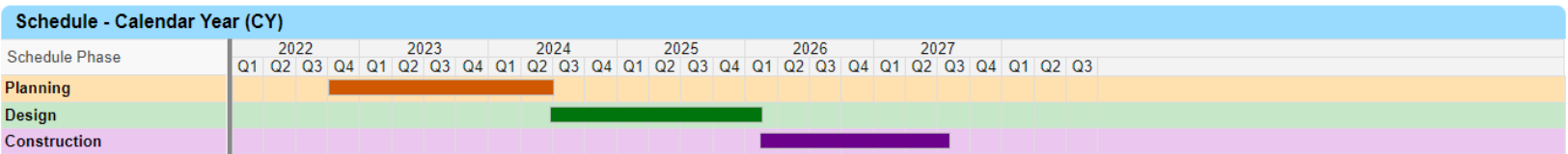
The Bellefonte Avenue Storm Drain improvement project aims to improve the local storm drainage system along East Bellefonte Avenue and East Howell Avenue to convey the City's 10-year, 24-hour storm event . The project seeks to mitigate the impact of large storm events without worsening flooding elsewhere 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.

**Project Information**  

**Current Phase:** Design

**Total Planned Budget:** \$1,564,869.29

**Funding Sources:** SWU



- ON-GOING**
  - Received 30% design
  - Began utility coordination
- FORECASTED**
  - Complete City review and provide feedback
  - Continue utility coordination

### 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**  

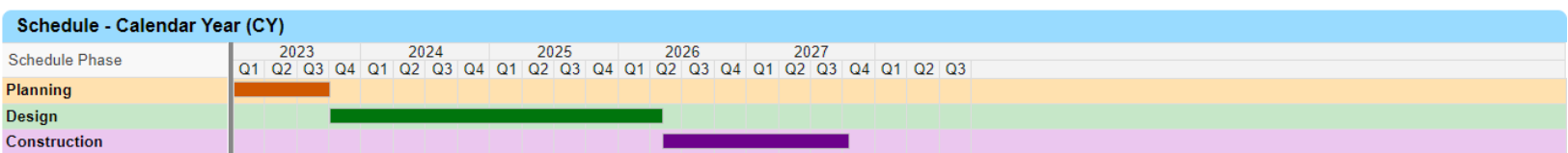
The Clifford Avenue, Fulton Street and Manning Street (CFM) Storm Sewer Improvements Project will provide flooding mitigation to townhouses along the 3000 block of Fulton Street and Manning Street. The alley bound between the two streets will be re-built to channelize surface flow and improve drainage. 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.

**Project Information**  

**Current Phase:** Design

**Total Planned Budget:** \$831,630.00

**Funding Sources:** SWU, HUD (Beyer)



- ON-GOING**
  - Received 90% Design
  - Began 90% Design Review
  - Completed video of alley pipe
  - Continued Utility coordination
- FORECASTED**
  - Complete 90% design review
  - Start final design
  - Procure & begin detailed alley pipe assessment

# Flood Action Progress Report:

## Neighborhood Spot Projects

### Edison St. Storm Sewer Upgrades

#### Project Webpage

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

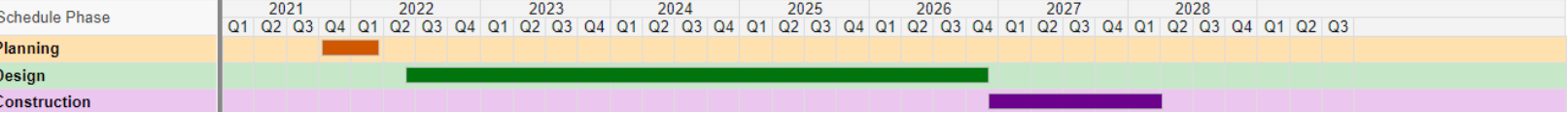
#### Project Information

**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)



### ON-GOING

- Received contract documents & approved for construction
- Hosted community meeting
- Preparing for Utility relocations

### FORECASTED

- Gas utility relocations begin April 2026
- Water utility relocations to follow Gas Utility

### 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>

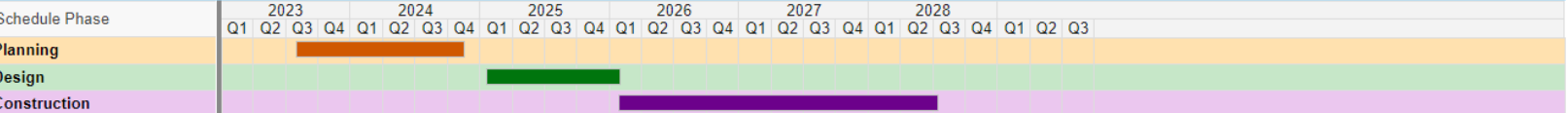
#### Project Information

**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)



### ON-GOING

- Began design development

### FORECASTED

- Complete topographic & property survey
- Begin concept development

# Flood Action Progress Report:

## Neighborhood Spot Projects

### Hume Ave Stormdrain Bypass

#### Project Webpage

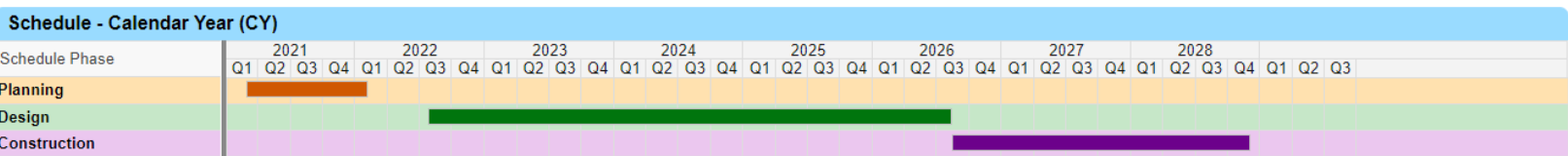
<https://www.alexandriava.gov/tes/hume-avenue-bypass-project>

#### 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.



### ON-GOING

- Completed Electric relocation
- Finalizing gas relocation
- Received Right-of-Entry Agreement
- Received 100% design

### FORECASTED

- Utility test pits
- Complete Dominion relocation
- Right-of-Enter Agreement

### Mt Vernon and Edison Dual Culvert Replacement Project

#### Project Webpage

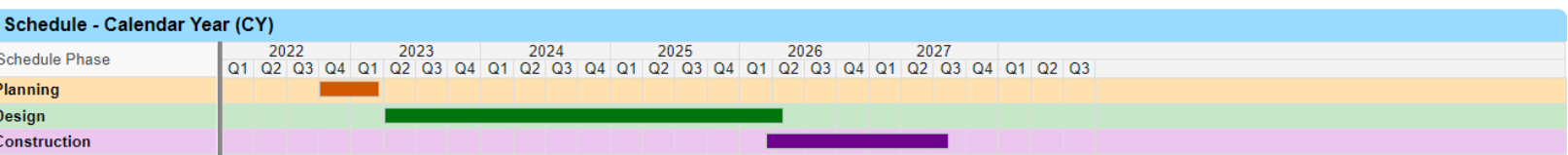
<https://www.alexandriava.gov/stormwater-management/mount-vernon-dual-corrugated-metal-pipe-cmp-culvert-replacement-project>

#### Project Information

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

#### 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).



### ON-GOING

- Reviewed 60% design – revised & re-submit
- Received revised 60% design and began design review

### FORECASTED

- Complete 60% design review and issue comments
- Begin 90% design
- Planning community meeting

# Flood Action Progress Report: Neighborhood Spot Projects

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

### Project Webpage

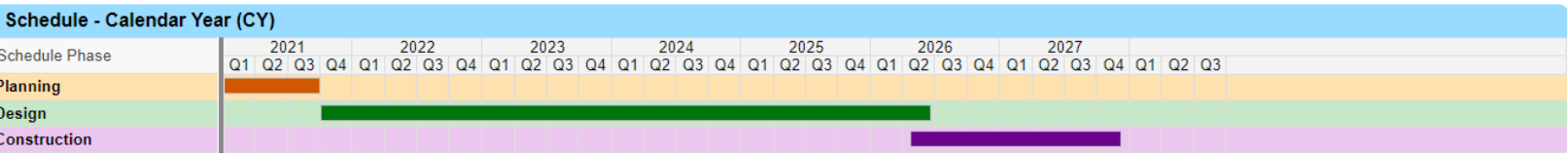
<https://www.alexandriava.gov/capital-projects/project/mt-vernon-cul-de-sac-inlets-and-alley-storm-sewer-improvements>

### Project Information

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

### 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.



- | ON-GOING   | FORECASTED  |
|--|---|
| <ul style="list-style-type: none"> <li>Completed alternatives assessment &amp; selected preferred option</li> <li>Scoping revisions</li> <li>Planning community meeting</li> </ul> | <ul style="list-style-type: none"> <li>Procure plan revisions</li> <li>Complete community meeting preparations and issue meeting invites</li> </ul> |

## Oakland Terrace Timber Branch Channel Wall Replacement

### Project Webpage

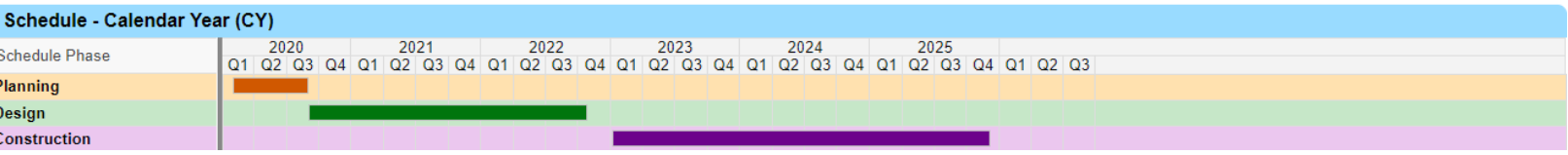
<https://www.alexandriava.gov/capital-projects/project/oakland-terrace-timber-branch-channel-wall-reconstruction>

### Project Information

**Current Phase:** Construction  
**Total Planned Budget:** \$307,854.00  
**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.



- | ON-GOING  | FORECASTED   |
|---|--|
| <ul style="list-style-type: none"> <li>Wall replacement complete</li> <li>Vegetation is establishing</li> <li>Other construction continues</li> </ul> | <ul style="list-style-type: none"> <li>Other construction continues</li> </ul> |

# Flood Action Progress Report: Neighborhood Spot Projects

## S Jordan St. Stormwater Improvement Phase II

### Project Webpage

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

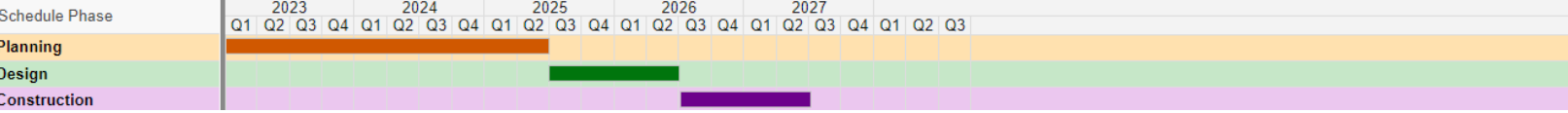
### Project Information

**Current Phase:** Planning  
**Total Planned Budget:** \$1,360,000.00  
**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 consultant's 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 maintain the storm drain system without having to request permission for entry.

### Schedule - Calendar Year (CY)



- ### ON-GOING

  - Completed site visit to collect contact information
  - Modeling work completed.
  - Preparing Technical Memo.

### FORECASTED

  - Present final modeling results and findings
  - Talk to residents about the modeling results.

## Valley Drive Storm Drain Improvements

### Project Webpage

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

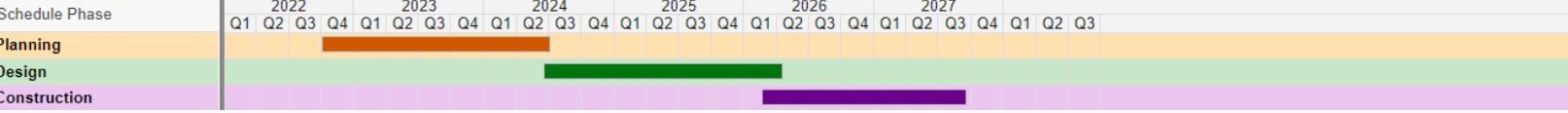
### Project Information

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

### 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.

### Schedule - Calendar Year (CY)



- ### ON-GOING

  - Completed geotechnical investigation
  - Scoped proposal for additional test pits and parcel boundary survey

### FORECASTED

  - Receive 60% design and begin design review
  - Prepare for community meeting

# Flood Action Progress Report:

## Neighborhood Spot Projects

### W. Reed Ave & Dale St Storm Sewer Improvements

#### Project Webpage

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

#### Project Information

**Current Phase:** Design

**Total Planned Budget:** \$2,230,000.00

**Funding Sources:** SWU

#### 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.

#### Schedule - Calendar Year (CY)

Schedule Phase	2022				2023				2024				2025				2026				2027				2028				2029			
	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	
Planning																																
Design																																
Construction																																

### ON-GOING

- Utility relocation coordination
- Completed final design review
- Scope property boundary locating service

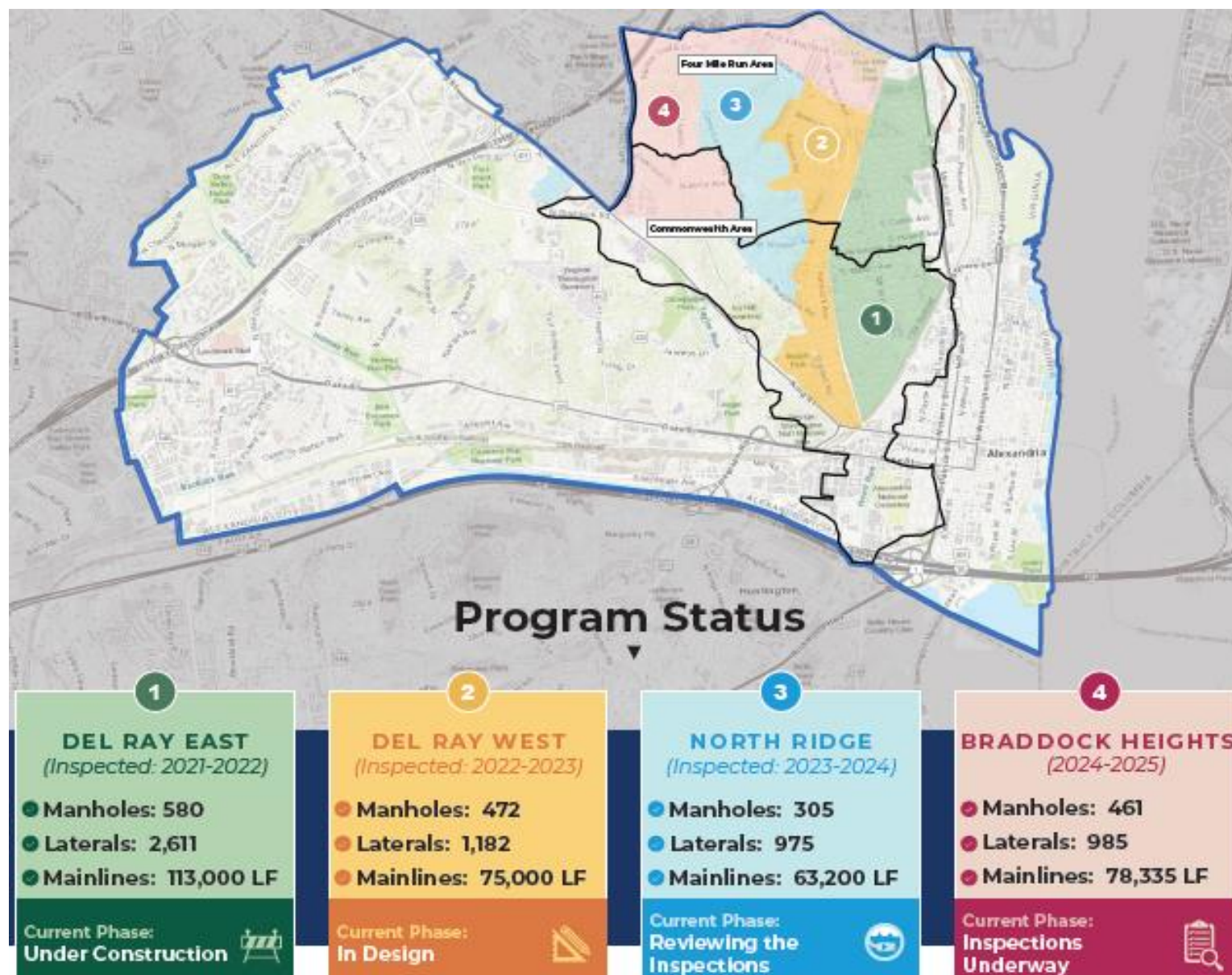
### FORECASTED

- Receive corrected final design
- Resolve property boundaries
- Plan community meeting



# Sanitary Sewer Projects

- **Del Ray East Lateral Rehabilitation:**
  - Design completed
  - Invitation to Bid (ITB) preparation in final stages – October 2025
  - Total of 413 laterals to be rehabilitated
- **Del Ray West:**
  - Manholes, mainlines and lateral sewers in design phase
  - Design completion January 2026



# Sanitary Sewer Backup Mitigation Projects

## Sanitary Sewer Capacity Upsizing Project No. 1

### Project Webpage

<https://www.alexandriava.gov/capital-projects/project/sanitary-sewer-capacity-up sizing-project-no-1>

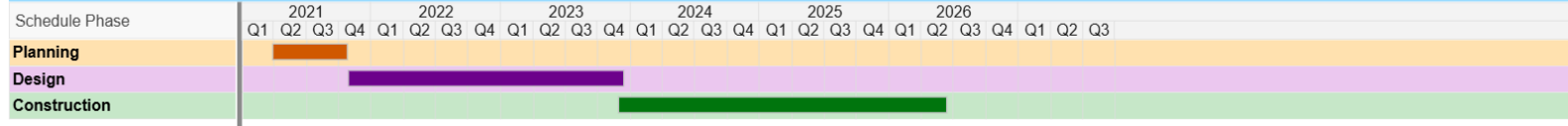
### Project Information

**Current Phase:** Construction  
**Total Planned Budget:** \$2,725,346.24  
**Funding Sources:** Sanitary Sewer

### Project Description

This project provides for upsizing of existing sanitary sewer pipes located at five (5) project sites. The project sites include the following: East Alexandria Avenue, Ashby Street, East Oak Street, East Walnut Street, and East Maple Street. This work is being undertaken to help mitigate sanitary sewer backups that occur as a result of significant wet weather.

### Schedule - Calendar Year (CY)



### ON-GOING

- **Active construction**
- **500 block E Alexandria**
- **Some construction delays (utility conflicts)**

### FORECASTED

- **Mill and pave all sites except E Oak (completed)**
- **Close-out end of year**

## Combined Sewer Upsizing - 300/400 N Alfred St

### Project Webpage

<https://www.alexandriava.gov/capital-projects/project/300-400-block-north-alfred-street-combined-sewer-up sizing-project>

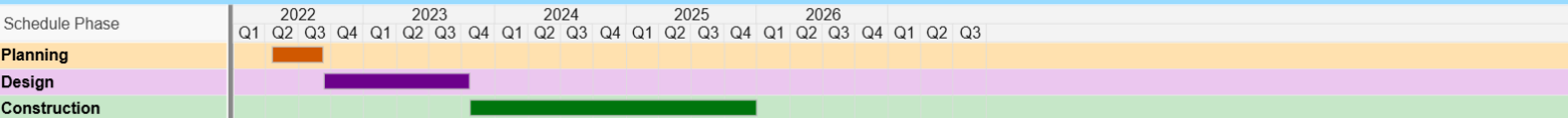
### Project Information

**Current Phase:** Construction  
**Total Planned Budget:** \$781,600.00  
**Funding Sources:** Sanitary Sewer

### Project Description

This project includes upsizing 758 feet of existing sanitary and combined sewers along the 300/400 blocks of N Alfred Street. This project was undertaken to address sewer backups from significant wet weather events.

### Schedule - Calendar Year (CY)



### ON-GOING

- **Construction completed – on time**

### FORECASTED

- **Project close out**



# Sanitary Sewer Backup Mitigation Projects

## Madison St and N St Asaph St Sewer Replacement

### Project Webpage

<https://www.alexandriava.gov/capital-projects/project/madison-street-and-north-saint-asaph-street-sewer-replacement>

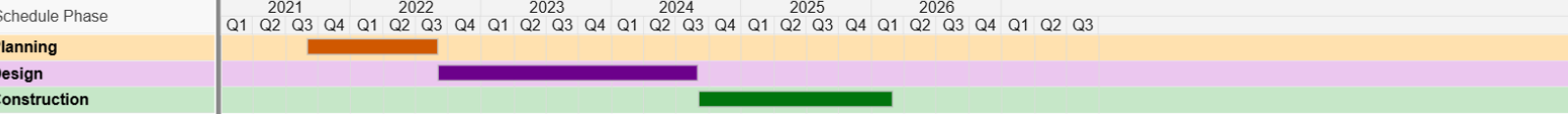
### Project Information

**Current Phase:** Construction  
**Total Planned Budget:** \$500,000.00  
**Funding Sources:** Sanitary Sewer

### Project Description

This project includes upsizing of the existing combined sewer and stormwater conveyance improvements at the intersection of Madison and N Saint Asaph Streets. This project is being done to help mitigate flooding in the intersection and flooding onto neighboring properties.

### Schedule - Calendar Year (CY)



## 600 Block of N Columbus Street Sewer Separation Project

### Project Webpage

<https://www.alexandriava.gov/capital-projects/project/600-block-of-north-columbus-street-sewer-separation-project>

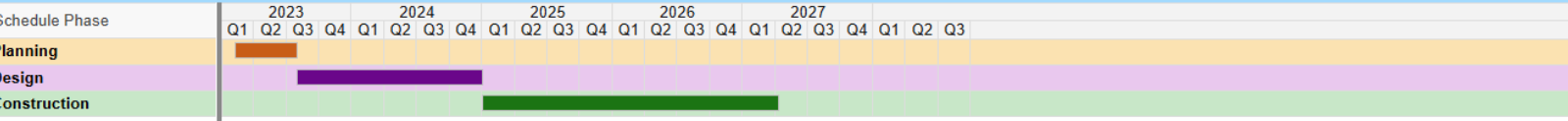
### Project Information

**Current Phase:** Construction  
**Total Planned Budget:** \$1,001,913.28  
**Funding Sources:** Sanitary Sewer

### Project Description

This project is a sewer separation project at 600 Block of N Columbus Street where the sanitary sewer is being disconnected from the combined sewer system and reconnected to a fully separated sanitary sewer. This project is being undertaken to mitigate the potential for sewer basement backups from the combined sewer being over capacity during periods of significant wet weather.

### Schedule - Calendar Year (CY)



### ON-GOING

- **Construction Notice to Proceed September 8th (delayed due to community request)**

### FORECASTED

- **Construction for 120 days**

### ON-GOING

- **Invitation to Bid (ITB) issued May 2025**
- **Contract awarded in September**

### FORECASTED

- **Notice to Proceed TBD (October 2025)**

# Sanitary Sewer Backup Mitigation Projects

## 400 Block Wolfe St Sanitary Sewer Upsizing

### Project Webpage

<https://www.alexandriava.gov/sewers/400-block-of-wolfe-street-sanitary-sewer-up sizing-project>

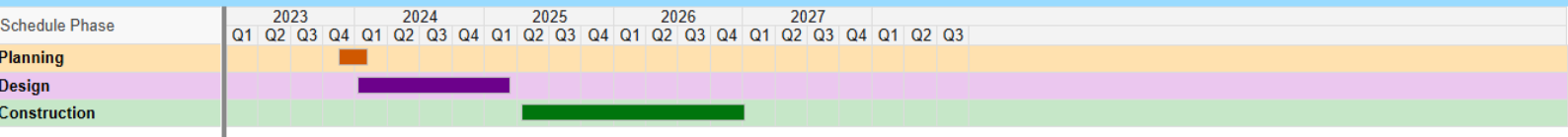
### Project Information

**Current Phase:** Construction  
**Total Planned Budget:** \$1,667,900.00  
**Funding Sources:** Sanitary Sewer

### Project Description

This project calls for the planning, design and construction of an upsized sewer network along the 400 block of Wolfe Street in the Old Town combined sewershed. This project was initiated in response to multiple sewer backups that have occurred during periods of wet weather.

### Schedule - Calendar Year (CY)



## Colonial Avenue Sewer Separation Project

### Project Webpage

<https://www.alexandriava.gov/sewers/colonial-avenue-sewer-separation-project>

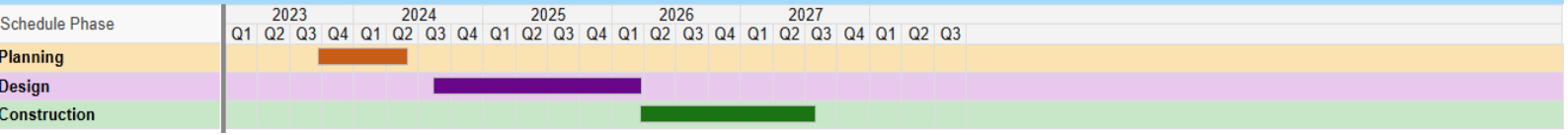
### Project Information

**Current Phase:** Design  
**Total Planned Budget:** \$1,678,104.00  
**Funding Sources:** Sanitary Sewer

### Project Description

The Colonial Ave Sewer Separation project consists of separating the existing sanitary sewer from the combined sewer system and connecting it to a fully separate sanitary sewer. This project is being undertaken to mitigate the potential for sewer backups during significant wet weather.

### Schedule - Calendar Year (CY)



### ON-GOING

- Invitation to Bid (ITB) issued May 2025
- Contract awarded in September

### FORECASTED

- Notice to Proceed TBD (October 2025)

### ON-GOING

- Additional Geotech field works completed
- Received 90% design

### FORECASTED

- Design completion end 2025

# Communications

## June – August

- 22 Total Flood Action/ Stormwater social media posts
  - *Commonwealth, Ashby, Glebe, Hume Ave. Bypass Project, Hurricane Season Preparedness, Flood Resilience Plan*
- Impressions: 104,210 increased by 18%
- Engagements: 3,012 decreased by 10%
- Post link clicks: 253 decreased by 9%
  - \*Compared to previous 3 months (March – May)
- 8,145 Stormwater Management webpage views
  - \*86 total pages under Stormwater Management web group
- Average engagement rate: 63%, Average events per session: 4
- Most popular stormwater webpages:
  - [Flood Map](#) = 1,932 views
  - [Flood Action](#) = 1,004 views
  - [Types of Sewer Systems](#): 516 views
- Additional Top Ten Pages:
  - [Flood Mitigation Grant Program](#): 238 views
  - [Flood Resilience Plan](#): 205 views

# Communications

## Upcoming Communications Priorities

- Flood Resilience Plan

# Maintenance Activities

- Hooffs Run Culvert Maintenance and Cleaning from East Linden Street to Duke Street is complete.
- Hooffs Run Culvert Top Slab Reconstruction in the Park between East Walnut and East Oak Street – Phase II
  - Coordinating project with RPCA.
  - Park and tennis courts will be closed during construction.
  - Notifications will go out two weeks prior to construction.
  - Construction anticipated to start in Fall 2025.
  - Project duration: 6-8 months depending on weather.

# Maintenance Activities



Before Repair



After Repair

# Maintenance Activities

- Citywide Storm Sewer CCTV and Cleaning Program:
  - Initiated program in June 2025
  - Goal: Complete 1-2 watersheds per year
  - Four Mile Run Watershed – 50% complete

# Flood Mitigation Grant Program

- Reimbursed a total of \$1,177,087.92 since July 2021 inception.
- So far in FY2026: 6 applications, all in various stages of approval.
- FY2025: Approved 85 applications, reimbursed \$186,240.69
- FY2024: Approved 101 applications, reimbursed \$235,145.16.
- FY2023: Approved 73 applications, reimbursed \$167,538.49.
- FY2022: Approved 148 applications, reimbursed \$588,163.58.



# Update on Braddock Rd. & West St. Study

AGENDA ITEM #4

# Braddock & West Storm Sewer Planning

- Improvements are planned for near term & long term.
- Near term:
  - Condition assessment inspection (CCTV) of existing storm sewer, to include under RR tracks.
  - Inlet improvements for Braddock & West intersection.
  - Funding available in FY 2026 to begin.
- Long term:
  - Major Capital Improvement Project
  - 2.2MG (million gallon) deep storage facility with \$36M est. (range \$24M-\$70M)
  - Funding request planned for the out years of the 10-Year SWU CIP during the FY2027 budget cycle.



# Flood Resilience Plan Update

AGENDA ITEM #5



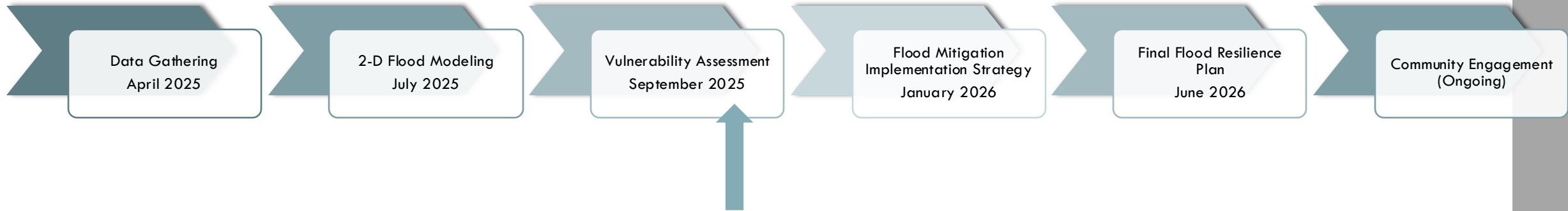
# Overview



- ▶ The Flood Resilience Plan (FRP) will serve as a roadmap to assist the City with reducing flood risk.
- ▶ The FRP will include a combination of detailed analysis in areas where the City has previously conducted projects and a flood exposure analysis for new areas of the City previously not studied.
- ▶ Information from the community about flooding impacts to them will also be included in the FRP analysis. Input will be collected via a community-input survey, at pop-up events, and at public meetings.



# Task Work to Date



Milestone Meetings	Estimated Date
Community Meeting #1	November/December 2025
Flood Advisory Cttee Meeting #3	January 2026
Community Meeting #2	February 2026
Present Plan to City Council	May 2026



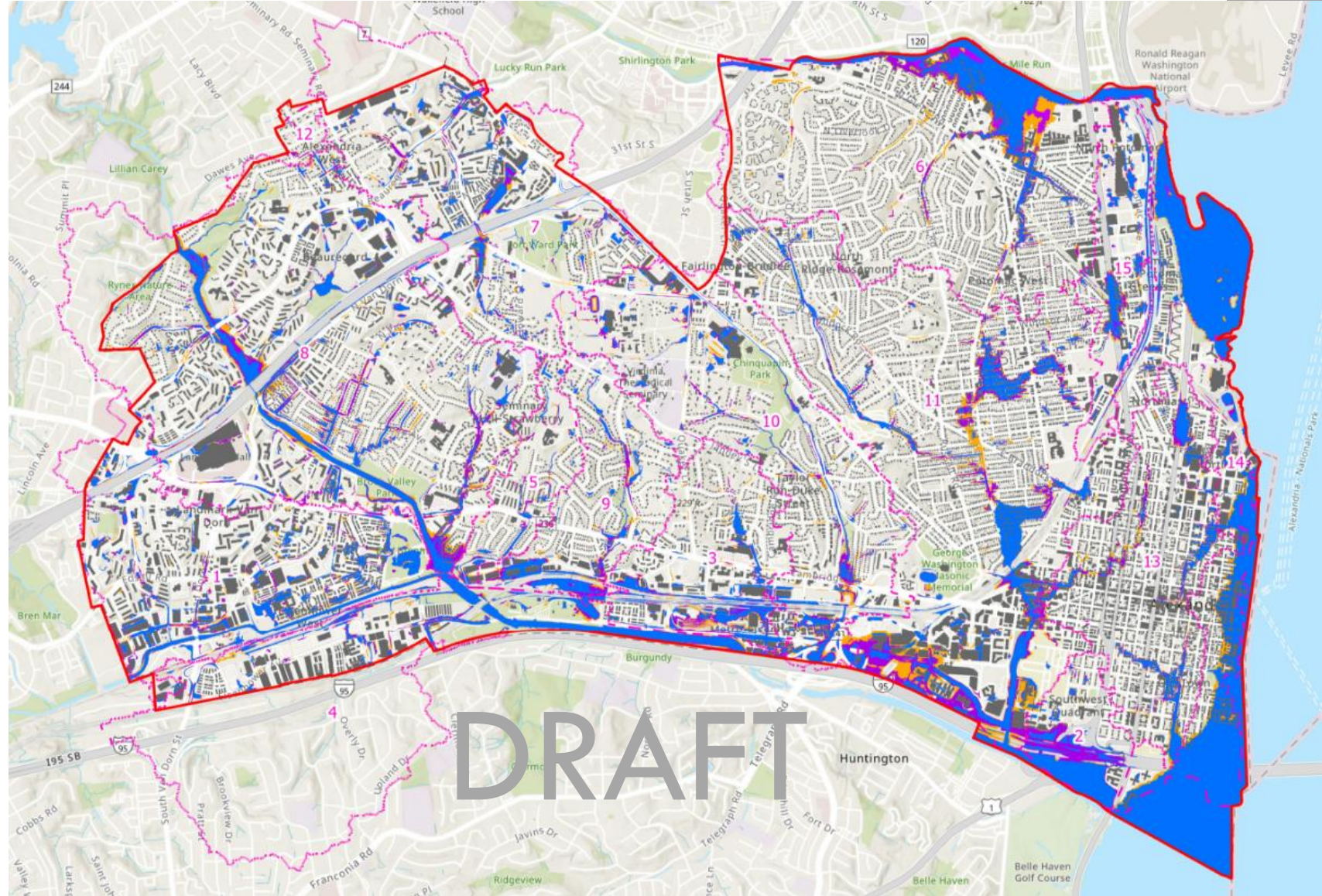


# Flood Modeling

- **Interior, Riverine and Coastal Flood Map: 10-year (2075), 100-year (2025), and 100-year (2075)**

## Legend

-  Alexandria City Boundary
-  Watershed Boundary
-  10-year Flood Inundation (2075)
-  100-year Flood Inundation (Baseline)
-  100-year Flood Inundation (2075)
-  Building







# Flood Vulnerability Assessment



Receptor  
measurements



Rainfall Scenario  
Weighting



Receptor  
Normalized Score

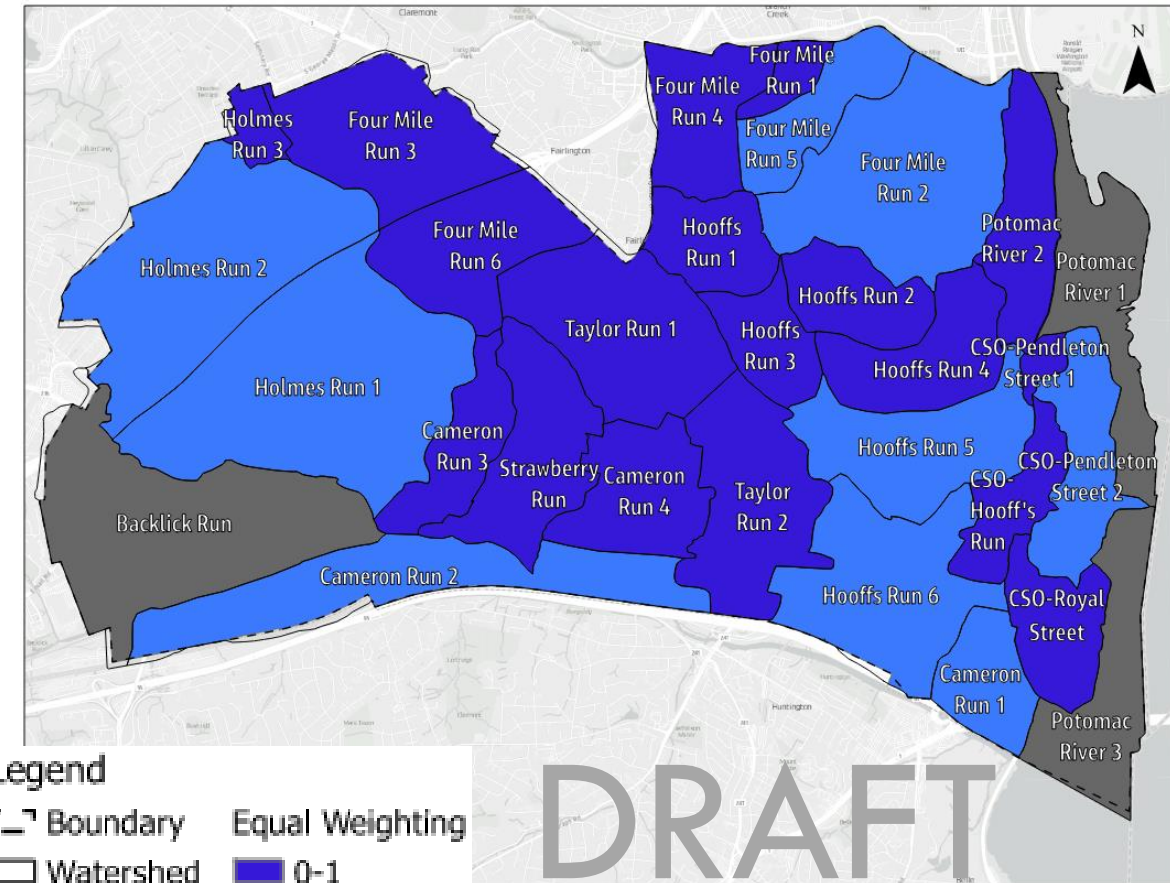


Total Flood  
Exposure Score

Task Progress

- ▶ **Step 1 – Identify receptors using GIS and estimate vulnerability of each receptor within each sewershed**
- ▶ **Step 2 – Apply flood exposure weights to each receptor**
- ▶ **Step 3 – Normalize scores so they are on same scale, e.g., 1 to 5**
- ▶ **Step 4 – Calculate total flood exposure score for each receptor and combine scores into a single weighted flood exposure score**

*Total Flood Exposure Example Map*





# Summer Outreach – Where We Went



The project team attended several community events this summer to share information about the FRP and gather input.

Event	Location	Date and time	Number of attendees	Engagements/ Table visits
Alexandria Community Cookout	Fairlington Presbyterian Church, 3846 King Street, Alexandria VA	Tuesday, July 1, 2025 6 p.m. to 7:30 p.m.	100+	25
Old Town Farmer's Market	301 King Street, Alexandria VA 22314	Saturday, July 26, 2025 7 a.m. to 12:00 p.m.	300+	86
Friendship Firehouse Festival	107 Alfred Street, Alexandria VA 22314	Saturday, August 2, 2025 9 a.m. to 2:00 p.m.	320+	125
Southern Towers Farmer's Market	4901 Seminary Rd, Alexandria, VA 22311	Saturday, August 9, 2025 10 a.m. to 3:00 p.m.	50	33
West End Farmer's Market	4800 Brenman Park Dr, Alexandria, VA 22304	Sunday, August 17, 2025 8:30 a.m. to 1:00 p.m.	300+	118





# Summer Outreach – What We Heard



- ▶ Attendees said they were not personally impacted by flooding but still supported efforts by the City to reduce flooding across the area.
- ▶ Many residents shared that they refer to flood maps to determine the best place to live in the city. A few attendees were concerned about future access to flood maps and flooding data provided by FEMA.





# Summer Outreach – What We Heard

- ▶ Most attendees said they were not personally impacted by flooding but still supported efforts by the City to reduce flooding across the area.
- ▶ Many residents shared that they refer to flood maps to determine where to live in the city. A few attendees were concerned about future access to flood maps and flooding data provided by FEMA.







# Where Do You Experience Flooding?





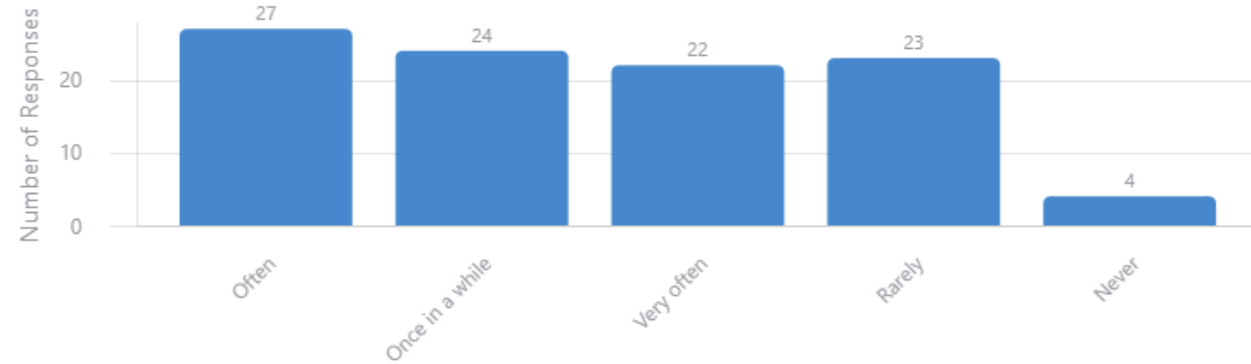
# Online Survey

## Results as of

# Sept 2025

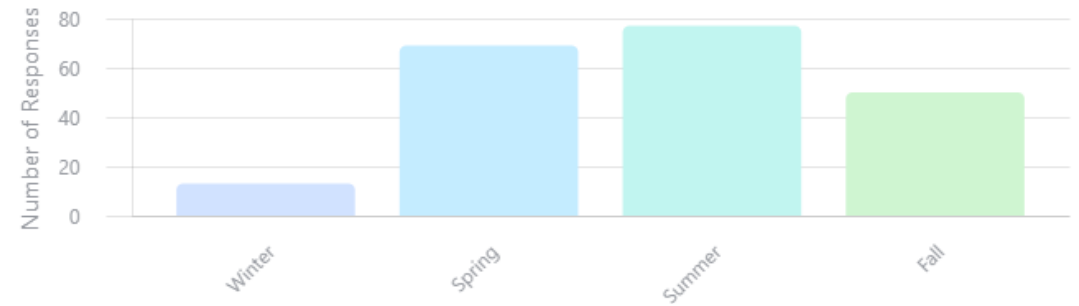
- ▶ 107 Survey responses to date
- ▶ 98 Have experienced flooding in Alexandria
- ▶ 49 Have experienced flooding often or very often
- ▶ 59% Are very concerned about flood impacts in the future

Frequency of Flooding Impact Among Respondants ⓘ

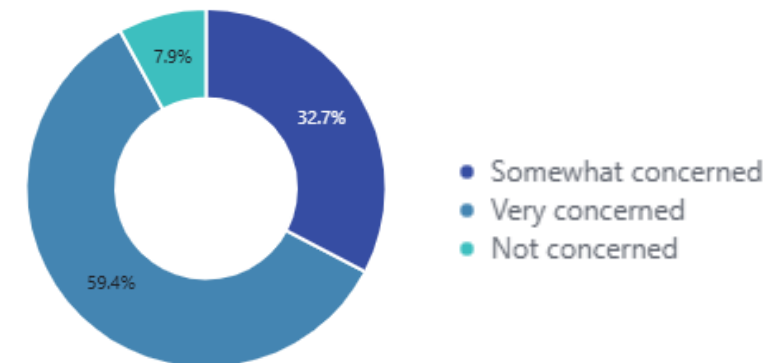


Impacts by Season

Count of Flood Impacts by Season



Flood Concern Level







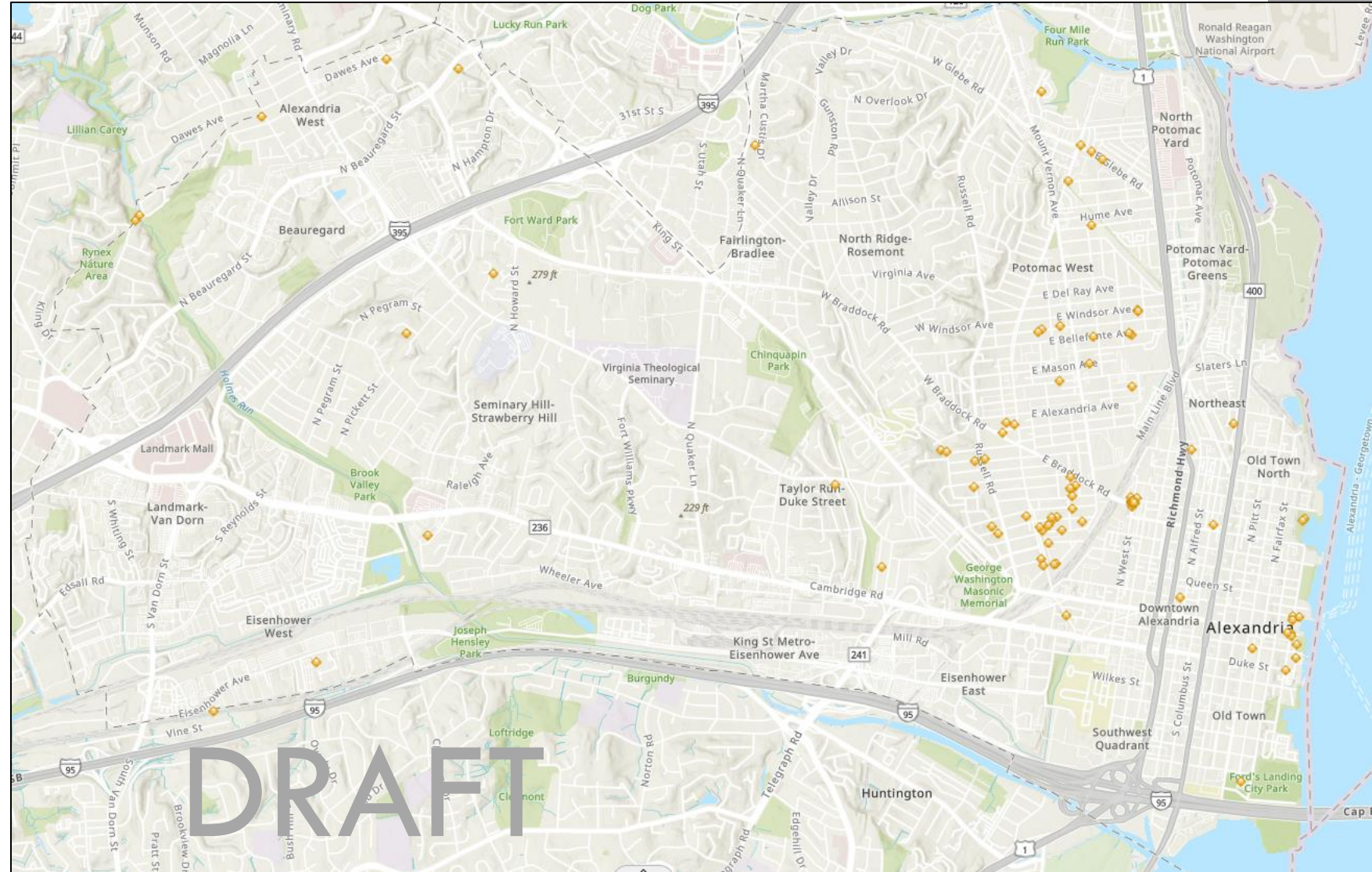
# Online Survey

- ▶ 128 Flood Locations
- ▶ Survey closes  
September 30th

Take the survey today!



Community Outreach



Survey Response Flood Locations as of 9.15.2025



CITY OF ALEXANDRIA

# Questions



# Update of changes to Flood Mitigation Grant Program

AGENDA ITEM #6

# Committee memo in support of FY2027 Stormwater Fee

AGENDA ITEM #7



# Discussion of Proposed Increase in the Stormwater Fee for FY2027

Stormwater Utility 10-Year Plan: FY 2025 - FY 2034

Stormwater Rate	Approved FY 2024	Proposed FY 2025	FY 2026	FY 2027	FY 2028	FY 2029	FY 2030	FY 2031	FY 2032	FY 2033	FY 2034	FY 2025 - FY 2034
Stormwater Utility Rate per ERU	\$ 294.00	\$ 308.70	\$ 324.10	\$ 340.30	\$ 360.70	\$ 385.90	\$ 412.90	\$ 429.40	\$ 540.00	\$ 556.20	\$ 572.90	
Proposed Rate Increase	5.0%	5.0%	5.0%	6.0%	7.0%	7.0%	4.0%	3.0%	3.0%	3.0%	3.0%	
New Stormwater Utility Rate	\$ 308.70	\$ 324.10	\$ 340.30	\$ 360.70	\$ 385.90	\$ 412.90	\$ 429.40	\$ 442.30	\$ 556.20	\$ 572.90	\$ 590.10	

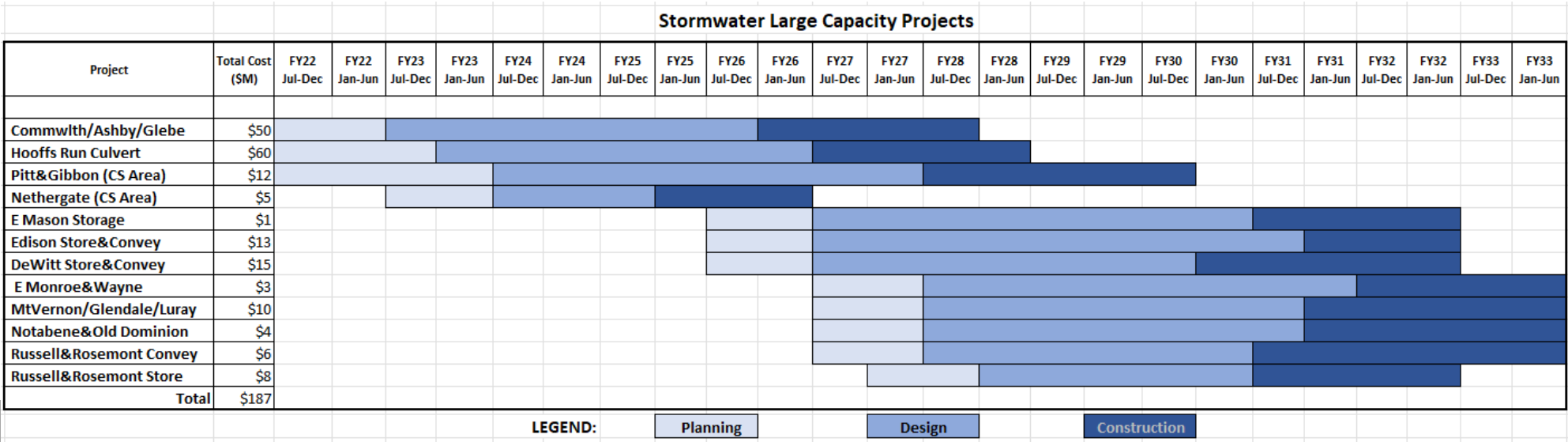
## Points to consider

The proposed increases in the SW Fee during the 2024 -2034 period were based on the original Flood Action construction plan developed in 2021.

We are finding that the large projects are taking considerably longer to design than originally envisioned.

As a result – there is a very significant unexpended/uncommitted balance of funds available to the construction program.

Does the SW Fee increase need to be re-evaluated in light of the fact that the construction activity will be spread over a much longer period of time?



# Committee 2025-26 workplan and outreach activities

AGENDA ITEM #8

# Stormwater Utility and Flood Mitigation Advisory Committee

## Proposed Work Plan for 2025-2026

Work Stream	Purpose	Activities & Deliverables
Community Awareness	To increase residents' awareness of -- and involvement in -- the projects planned in their neighborhoods	<p>Maximize resident awareness and attendance at all community meetings regarding these projects:</p> <ul style="list-style-type: none"> <li>- Commonwealth/Ashby/Glebe</li> <li>- Nethergate</li> <li>- Hooff's Run Bypass</li> <li>- Miscellaneous Spot projects</li> <li>- Pitt &amp; Gibbon</li> </ul> <p>Place special emphasis on residents most impacted by these projects. (Throughout the year)</p>
Business Involvement	To better understand the impact of stormwater and flooding issues on Alexandria businesses and design appropriate mitigation strategies.	Targeted updates to the Alexandria business community impacted by stormwater flooding.
Assessing Plans & Budgets	To report to Council whether the appropriate level of funding is allocated to the most effective storm- and floodwater mitigation projects.	<p>A statement in support of the Stormwater Fee increase that briefly summarizes past storm season and the need for continued investment (October).</p> <p>A budget season report – and testimony -- on the progress of the stormwater mitigation program overall, with an emphasis on expenditures to-date and planned investments. Answer the three questions raised in our 2023 report. (March to May).</p>
Informing City- and State-level Policies	To provide the perspective of residents and businesses as City staff works with Council and our state representatives in shaping policies regarding storm- and floodwater mitigation	<p>Develop a proposal for expanding the Flood Mitigation Grant Program (December)</p> <p>Engaging and coordinating with other City organizations concerned with water-related issues (on-going)</p>

# Committee 2025-26 workplan and outreach activities

AGENDA ITEM #8

# Public Comment

AGENDA ITEM #9

# Adjourn

AGENDA ITEM #10