

# Stormwater Utility and Flood Mitigation Advisory Committee

Nov 20, 2024 | 7:00 p.m. | Hybrid (Virtual and In-Person) Meeting

### Minutes

Advisory Group Members Present:

А	John Chapman	Α	Howard "Skip" Maginniss
Р	Dino Drudi	А	Brian Sands
Р	John Hill (Chair)	Р	Janette Shew
Р	Cheryl Leonard	Р	Christine Thuot
Р	Chris Ferrara	А	Katherine Waynick (Vice-Chair)
1		A	Kamerine waynick (Vice-Chair)

Staff Present:

Р	Brian Rahal, T&ES Civil Engineer IV	Р	Jesse Maines, T&ES Division Chief,
			Stormwater Management
Р	Dan Medina, DPI Stormwater Program	А	Jessica Lassetter, T&ES Civil Engineer III
	Manager		
Р	Emma Wheeler, T&ES Communications	Р	Jonathan Whiteleather, DPI Technical
	Office		Project Manager
А	Erin Bevis-Carver, Sanitary Infrastructure	V	Lisa Jaatinen, T&ES Civil Engineer IV
	Division Chief		
V	Felicia Montoney, T&ES Management	Р	Mitch Dillon, DPI Technical Project
	Analyst I		Manager
Р	Alex Haptemariam, DPI Senior Technical	V	Ehsanullah Hayat, Civil Engineer III
	Project Manager		
Р	Wael Eltayeb, DPI Technical Project	V	Camille Liebnitzky, Environmental
	Manager		Engineer IV
V	Haweni Gobena, Civil Engineer III	V	Mujeeb Atefi, Civil Engineer III
$\mathbf{P} = \mathbf{Pr}$	esent $A = Absent$ $V = Virtual (on call)$		

Other Attendees Present:

V John Craig V Rose Esber	* *		<b>T</b> 7	
	V	John Craig	V	Rose Esber

#### 1. Welcome remarks

- 2. Review of Minutes
- 3. Program Update from City Staff
- 3a. Commonwealth, Ashby, Glebe (Whiteleather)



## Flood Action Progress Report: Commonwealth, Ashby, Glebe

#### Optimized foundation design to reduce costs

- Realigned culvert to the ballfield
  - 60% alignment used specialized design (Micro-piles)
  - Updated to lower cost foundation design (Rigid inclusion)
  - Avoid overhead utility conflicts
  - Larger work area
- Changed a section of the foundation to a stone mat
  - Applicable in areas where poor soils are close to surface
  - Excavate poor soils and replace with stone below culvert
  - Minimal settlement tolerable (outside of road)

The city's main focus since 60% design has been optimizing the foundation design to reduce costs. The foundations (major cost drivers) are needed due to poor soils located near the outfall of the culvert, which are prone to settlement. Culvert foundation underneath Commonwealth Ave overhead powerlines require micropile design due to overhead clearance issues. After 60% design, design team realigned a portion of the culvert at the north end of Commonwealth (shifted 400 feet into the ballfield), providing a larger work area and allowing for a rigid inclusion ground improvement (within the city right-of-way), which is less expensive.

The city also changed a section of the foundation design to add a stone mat (Number 57 stone) below the culvert to replace poor soils close to the surface (via over-excavation). This will result in tolerable settlement outside of the roadway.

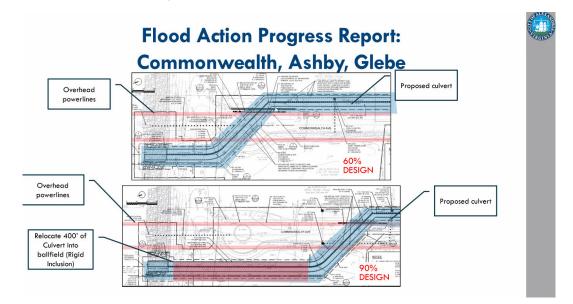
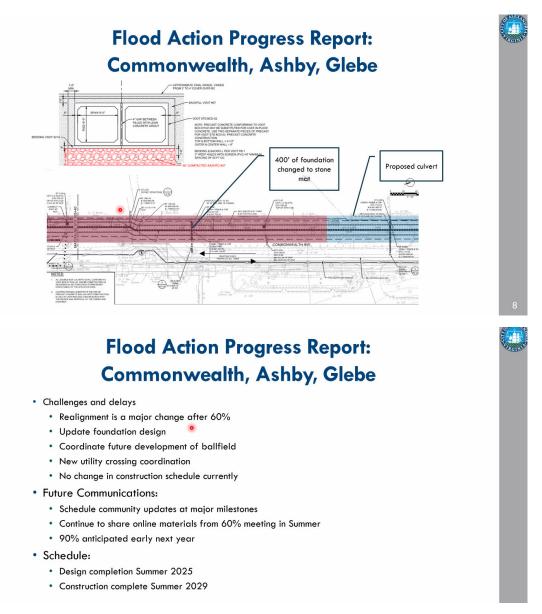


Image above: North is left.





The realignment represented a significant change to the foundation design and required coordination with future ball development but was justified due to cost savings (~\$20 million). The city coordinated with the Alexandria Aces (will not be impacted) and RPCA (have factored project into future planning)

Anticipated completion of 90% design was pushed from Fall 2024 to early 2025 due to significant design changes. No anticipated change in construction schedule.

Next Steps: Coordinating development of ballfield (future ballfield updates)

Public Events:

- Summer Open House materials (construction impacts) still relevant
- Next public meeting event scheduled for Q1 2025 (coincide with 90% design completion)



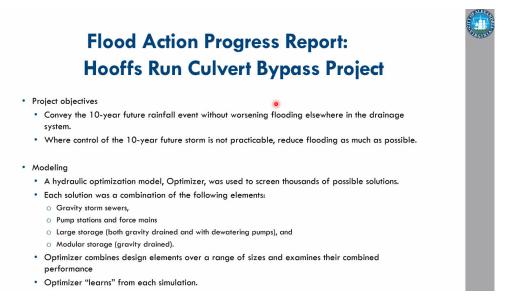
#### Timeline:

- 100% Design: Anticipated summer 2025
- Procurement (summer): Establishing prequalification firms
- Construction to start in 2026.

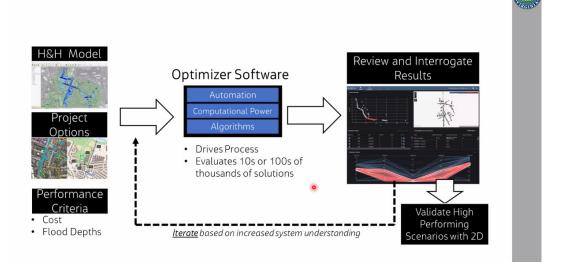
#### Concerns:

- Drudi: Delay is more costly. Must consider that increase in construction costs (year to year) may defeat cost savings.
  - Clarification (Maines): Cost savings (~\$20 million) offset potential escalation incurred due to construction delay. No additional funding will, therefore, be required. Scheduled funding is earmarked in the 10-Year CIP
- Leonard: Why was the redesign not done before?
  - This was initially avoided due to impacts to the ballfield. However, after reviewing 60% cost estimates, City chose to accept these impacts. Same amount of utility conflict. Ex: Must redesign around sanitary line (near the bottom of the culvert).

#### 3b. Hoofs Run Culvert Bypass (Haptemariam)







The city is modeling flood action solutions (e.g., gravity pump stations, large and small storage) in Optimizer to assess their performance. Models (Optimizer and FEMA) show existing culvert (cleaned) will flood during 10-year storm.

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

- A desktop analysis is being performed on the high-performing alternatives.
- The analysis is an initial assessment to evaluate the feasibility of the alternatives
- The analysis includes:
  - Engineering feasibility
  - Cost
  - Constructability
  - Disruption of City functions
  - Potential negative impacts on the community



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

Challenges

• Climate change: More intense storms require larger infrastructure

- Relocation of underground utilities: Utility lines (water, gas, power, communications) must be moved to make way for construction, which is challenging given the limited space and complexity of planning and execution.
- Complex infrastructure systems: The new drainage system must coordinate with major infrastructure elements, including the King Street Metro station and Metrorail lines. This coordination involves multiple agencies and must avoid service disruptions.
- Space constraints: The ultra urban setting limits available construction space, presenting further logistical challenges.
- High cost: All the above challenges increase project's cost.

Model includes challenges/external factors (e.g., infrastructure, environmental).

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

#### Next steps

- $\odot$  Refine evaluation criteria
- Continue evaluation of alternatives
- Define a course of action
- Start the design phase

Using software to assess which solutions are viable, their impact, whether buyouts/flood proofing is necessary, and to inform policy decisions. Funding is fixed, will have better sense of design options/solutions in 2025.

Question (Drudi): Potential impacts of reconstruction of King Street Bridge and the Commonwealth Avenue Bridge (part of VA high-speed rail fourth track addition) on culvert.

- Response: Should not impact culvert at Commonwealth. Not widening existing culvert due to adjacent abutments.
- Red Zone Robotic CCTV showed culverts connect into open vault (Timber Branch).



#### **3c. CSS (Whiteleather)**

	Flood A	ction Progress Report: CSS	
	· · · · · · · · · · · · · · · · · · ·	surcharge mitigation. Project team reviewing alternatives to mitigate Schedule pending.	
<b>o</b> 1.		ge mitigation. City is finalizing review of alternatives assessment and ng to design stage.	
	1	Nethergate Storm Sewer Improvements	_
Project Webpage	1	Nethergate Storm Sewer Improvements Project Description	
	apital-projects/project/nethergate-	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,	
https://www.alexandriava.gov/c		Project Description The purpose of this project is to mitigate flooding in the Nethergate Townhome community based on reports from	
https://www.alexandriava.gov/c 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 In to the north. Second St. to the south, Porther Ref to the vest and W baingdon I/ to the est. As part of this project, the design team will analyze hydraulic	
https://www.alexandriava.gov/c storm-sewer-improvements Project Information	apital-projects/project/nethergate-	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 In to the north. Second St. to the south, Porther Ref to the vest and W baingdon I/ to the est. As part of this project, the design team will analyze hydraulic	
https://www.alexandriava.gov/c storm-sever-improvements Project Information Current Phase:	apital-projects/project/nethergate-	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 In to the north. Second St. to the south, Porther Ref to the vest and W baingdon I/ to the est. As part of this project, the design team will analyze hydraulic	
https://www.alexandriava.gov/c storm-sewer-improvements Project Information Current Phase: Total Planned Budget:	apital-projectivprojectivethergate- Planning \$1,587,951.82 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 In to the north. Second St. to the south, Porther Ref to the vest and W baingdon I/ to the est. As part of this project, the design team will analyze hydraulic	
https://www.alexandriava.gov/c storm-sever-improvements Project Information Current Phase: Total Planned Budget: Funding Sources: Schedule - Calendar Year	apital-projects/projects/endergate- Planning \$1,587,951.82 SSF 2022 2023	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 in to the north, Second St to the south, Portner Rd to the vest and Mahingdon Dr to the east As part of this project, the design team will analyze hydraulic capacity of the existing storm sewer, and develop atternatives to mitigate flooding.           2024         2025         2026         2027	l
https://www.alexandriava.gov/c storm-sever-improvements Project Information Current Phase: Total Planned Budget: Funding Sources: Schedule - Calendar Year	apital-projects/projects/endergate- Planning \$1,587,951.82 SSF 2022 2023	Project Description The purpose of this project is to mitigate flooding in the Nethergate Townhome community based on reports from residents after intense ranfati events. The project area is bound by Bashford Lin to the north. Second St to the south, capacity of the existing storm server, and develop alternatives to mitigate flooding.	l
https://www.alexandriava.gov/c storm-sewer-improvements Project Information Current Phase: Total Planned Budget: Funding Sources: Schedule - Calendar Year Schedule Phase	apital-projects/projects/endergate- Planning \$1,587,951.82 SSF 2022 2023	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 in to the north, Second St to the south, Portner Rd to the vest and Mahingdon Dr to the east As part of this project, the design team will analyze hydraulic capacity of the existing storm sewer, and develop atternatives to mitigate flooding.           2024         2025         2026         2027	1

Pitt & Gibbon: Same stage as previous meeting. Schedule pending. Update digital schedule quarterly.

#### Questions:

- Does the city have planning milestones that can be shared with the public?
  - Recommendation: Add context and explanation for changes when providing quarterly updates online. Be transparent with the public. "Pending" feels unsatisfactory.
  - Seconded by Hill.
  - Response (Whiteleather): Will share report once complete alternatives assessment. Main challenge: feasibility.
- Lyles Crouch: Planning study had storage, but due to insufficient drop in pipe elevation, storage would be insufficient and would require a deeper storage alternative which would be pumped out (costly and challenging for sanitary storage in school). School parking lot drains towards school, must be seriously considered.
  - Stormwater and sewage separation: considering. Would require multiple outfalls for stormwater. The city's consultant is considering at Pitt & Gibbon.
- Drudi: Recommend 5% increases in the stormwater fee every year (not 2%, then 7%, then 3%) because projects could last longer than anticipated and be more expensive than advertised. There needs to be an expectation of 5% annual increases ad infinitum or next 5 years.
- Pitt & Gibbon: Impacts 3-4 blocks of sewer water. AlexRenew maintains interceptors but cannot accommodate 10-year-storm event.

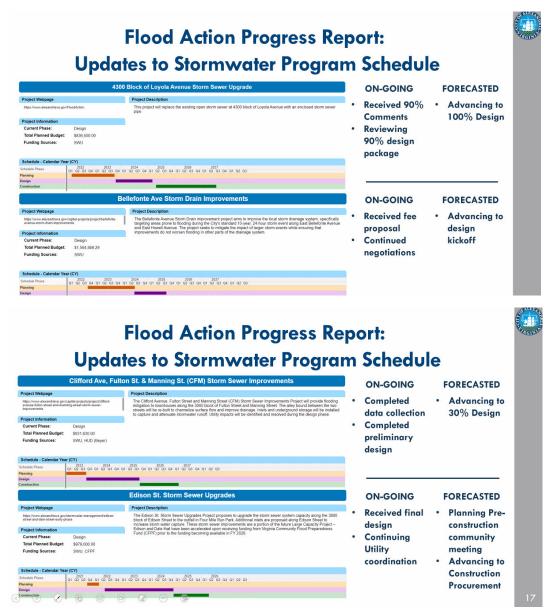
Communications (Hill): Committee must communicate project uncertainty to public.

- Drudi: Must inform City Council.

Nethergate: Public outreach meeting early next year once formally move to design.



3d. Spot Project Programs (Dillon):



Clifford Ave: Announced at advisory meeting. Completed preliminary data collection (test pits to assess soil), tree identification (critical root zones), parcel boundaries, property improvements, and ensure can fit within allotted space. The city has preliminary section – considered turning movements, existing uses, etc. Advancing to 30% design. Once complete, will share with public.

Edison St: Developing invitation to bid. Advancing to construction procurement.



Four Mile Rur	and Hoofs Run Inlet Installation and Enhancement			le	FORECASTED
oject Webpage Itos //www.alexandriava.cov/capital-projects/project/four-mile-run-	Project Description This project will focus on comprehensive analysis of the existing stormwater inlet capacity across Four Mile Run and	١.	Completed		Receive &
and-hooffs-run-inlet-installation-and-enhancement	Hoofs Run watersheds. By evaluating the capacity of existing stormwater inlets within these two watersheds, this project will provide recommendations on installing or replacing inlets to mitigate local flash floods and to enhance the		and the second se		
Project Information	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.		field		review final
Current Phase: Planning	and the mighter community i need i reportementer i and (or 11) §1616.		investigation		report
Total Planned Budget: \$1,584,100.00					
Funding Sources:			Continuing		
			inlet sizing		
ign struction	Hume Ave Stormdrain Bypass				
			ON-GOING		FORECASTED
	Project Description		C		Resolve
Project Webpage					NG30IVC
https://www.alexandriava.gov/tes/hume-avenue-bypass-project	The Hume Avenue Storm Sever Bypass Project will install storm sever and inlets along the 100 block of Hume Avenue and E. Raymond Avenue. The addition of a new utility within each right-d-way requires the relocation of gas, electric, water and senitary systems. On E. Raymond Avenue the senitary sever will be upgraded to a larger pipe in landem with	•	Continuing Utility		utility
https://www.alexandriara.gov/tes/hume-avenue-bypass-project Project Information	and E. Raymond Avenue. The addition of a new utility within each right-of-way requires the relocation of gas, electric,	•	Utility		utility
https://www.atexandriara.gov/tes/hume-avenue-bypass-project Project information Current Phase: Design	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	•	v		utility conflicts
https://www.alexandidiva.gov/tes/hume-avenue-avpass.griject Project Information Current Phase: Design Total Planned Budget: \$4,567,216.00	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	••	Utility coordination		conflicts
https://www.atexandriara.gov/tes/hume-avenue-bypass-project Project information Current Phase: Design	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	•••	Utility coordination Continuing		conflicts Receive final
Ngs Inves decandéra gortes hume entre Popas préjet Project information Current Phase: Dostyn Total Planned Budget: \$4,567,216.00 Funding Sources: SVVU, ARPA	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	•	Utility coordination Continuing temporary		
Ngo Investigation gontes hume entre types project Project Information Current Phane: Design Total Phanes Budget: \$4,507,210.00 Funding Sources: SVUU, ARPA Schedule - Calendar Year (CY)	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		Utility coordination Continuing	•	conflicts Receive final

Four Mile Run: Expect to receive final report soon.

Hume: Working with utility providers to address utility conflicts.

		Flood Action Progress Re tes to Stormwater Program			е	
	Mt Vernor	n and Edison Dual Culvert Replacement Project		ON-GOING		FORECASTED
oject Webpage		Project Description		ON-GOING		FORECASTED
	ormvater-management/incunt- ipe-cmp-culvert-replacement-	The project upgrades an existing Dual Corrugated Metal Ppe (CMP) culvert system to convey larger storm events, reducing the chance of surcharging in Nouri Vernon Avenue. The project receives funding from the City's Stormwater Utility and a grant from the Virgina Committy Flood Preparedness Fund (CFPF).	•	Continued 60% design	•	Advancing to 90% Design
oject Information						re /o Bealgh
urrent Phase:	Design		•	Reviewing		
otal Planned Budget:	\$2,500,000.00			feasibility of		
unding Sources:	SWU, CFPF			pipe lining		
hedule - Calendar Year	(CY) 2022 2023	2024 2025 2026		pipe ming		
	21 02 03 04 01 02 03 04 0	2024 2025 11 02 03 04 01 02 03 04 01 02 03 04 01 02 03				
lan lan						
struction						
	Mt. Vernon Cu	I-de-sac Inlets and Alley Storm Sewer Improvements		ON-GOING		FORECASTED
oject Webpage		Project Description	in the second	-		
tips //www.alexandriava.gov/c ul-de-sac-infets-and-alley-ston	apital-projects/projectimt-varnon- n-sewar-improvements	The Mt. Vernon Cui-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 valits will be installed on Mt. Vernon Avenue and it's adjacent allerwave to capture and attenuate storm water runoff. In tandem with work, the ellerwave will be re-araded to	•	Reviewing community	•	Additional community
oject Information		improve surface drainage into the downstream swale. The addition of new underground utilities requires the relocation of the local water utility.		commonly		
Current Phase:	Construction	- Of the rocal water unity.		concerns and		outreach
otal Planned Budget:	\$2,055,841.00					
unding Sources:	SWU, ARPA			planning		
				responses and		
chedule - Calendar Year			1	adjustments		
edule Phase	2021 2022 2022	2023 2024 2025 2026 21 02 03 04 01 02 03 04 01 02 03 04 01 02 03 04 01 02 03		uujusiinemis		
aning						
ion						

Mt. Vernon: Previously discussed placement of cured pipe within metal safety pipes. Advancing to 90%.

Mt. Vernon Cul-de-sac: Processing feedback obtained during October community meeting. Need for additional outreach. Concerns: Parking, residential construction, community impact.



		N Overlook Drainage Improvements	ON-	GOING		FORECASTED
Project Webpage		Project Description				
https://www.alexandriava.gov/ca drainage-improvements-project	apital-projects/projectin-overlook-	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 PI. This project will increase in and stome server casacity to mitiate flowing for the 10-year storm. In addition, project will ensure no increases in	Achi	eved tantial	•	Project Closeout &
Project Information		downstream storm sewer for the 10-year storm.				
Current Phase:	Construction		com	pletion!		final
Total Planned Budget:	\$387,979.35					a la constante de la constante
Funding Sources:	SWU			inuing irrigation		documents
Schedule - Calendar Year	(CY) 2020 2021	2022 2023 2024	repa	•		
chedule Phase	Q1 Q2 Q3 Q4 Q1 Q2 Q3 Q4	01 02 03 04 01 02 03 04 01 02 03 04 01 02 03				
esign			_			
esign onstruction			_			
	Oakland 1	Ferrace Timber Branch Channel Wall Replacement		GOING	0	FORECASTED
	Oakland 1	Ferrace Timber Branch Channel Wall Replacement			1	
onstruction	apital-projects/project/oakland-		• Insta	lling		Continue
Project Webpage	apital-projects/project/oakland-	Project Description This project replaces approximately 205 linear feet of an existing concrete retaining wall with a vegetative reinforced	• Insta chan	lling nel bank		
Project Webpage https://www.aksandiava.gov/ca transe-timbe-baanch-channel- Project Information Current Phase:	aphal-project/ophal-project/ophal- wall-reconstruction	Project Description This project replaces approximately 205 linear feet of an existing concrete retaining wall with a vegetative reinforced	• Insta chan	lling		Continue
Project Webpage https://www.alexandriava.gov/ca terrace-timber-branch-channel- Project Information	apital-projects/project/oakland- wall-reconstruction	Project Description This project replaces approximately 205 linear feet of an existing concrete retaining wall with a vegetative reinforced	<ul> <li>Insta chan reinfe</li> </ul>	lling nel bank		Continue

N Overlook: Achieved substantial completion. Minor repairs needed before final completion.

Oakland Terrace: Wall stabilization is 80% complete. Must add live stakes and vegetation.

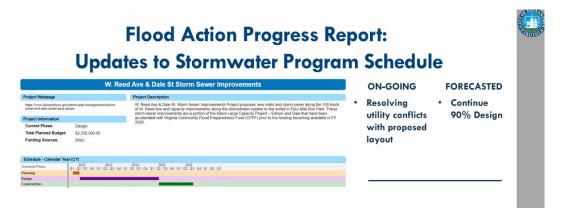
	S J	Jordan St. Stormwater Improvement Phase II	ON-GOING	FORECASTED
roject Webpage		Project Description		
https://www.alexandriava.gov/capital- stormwater-improvement-project-pha	-projects/project/s-jordon-st- ISE-II	This project will design a solution to reduce backyard flooding risk to the maximum extent 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 them to work with invate property owners	Finalized	Continue
Project Information		along S Jordan St and 4600 Duke to improve the existing swale and conveyance on private property. The City will plan	scope of	design fee
Current Phase: Pl	lanning	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	design	negotiations
Total Planned Budget: \$5	530,000.00	permission.		
Funding Sources: Si	WU		<ul> <li>Received design fee</li> </ul>	
sign sign	12 03 04 01 02 03 04 01			
	V	/alley Drive Storm Drain Improvements	ON-GOING	FORECASTED
Project Webpage		Project Description		
https://www.alexandriava.gov/capital- storm-drain-improvements	-projects/project/valley-drive-	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 exects to mitigate the impact of larger storm events while	<ul> <li>Continuing design</li> </ul>	<ul> <li>Design phase kickoff</li> </ul>
Project Information		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	design	RICKOTT
	Design	match in the amount of \$2,160,000 with local Stormwater Utility funding of \$1,440,000 identified for the match.	procurement	
	3,639,999.29		a Branneline	
Funding Sources: S	SWU .		<ul> <li>Preparing</li> </ul>	
			arant	
Schedule - Calendar Year (CY			application	

S Jordan: Negotiating design fee.

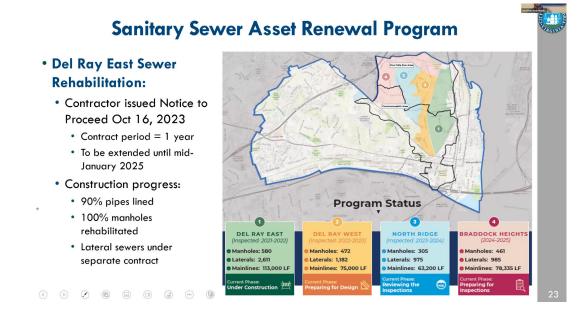
Valley Dr: Applying for grant funding. Total project cost approximately \$3 million.

AN INCOMENT





W Reed Ave: Found sanitary sewer crossing through test pits. Able to protect pipe and maintain performance. Extending Community Flood Preparedness Fund (CFPF) grant agreement with the Dept. of Conservation and Recreation (DCR).



(Bevis-Carver: Absent)



#### **3e.** Communications (Wheeler)

Comm	unications	
Septen	nber - October	
<ul> <li>18 Total Flood Action/ Stormwater soc</li> <li>SWU Fee Credit Program, Flood Resilience</li> <li>Impressions: 40,228 decreased by 43%</li> <li>Engagements: 1,558 increased by 26%</li> <li>Post link clicks: 80 decreased by 27%</li> <li>*Compared to previous 2 months (July-August)</li> </ul>	Plan, project updates	l
<ul> <li>7,277 Stormwater Management webp *86 total pages under Stormwater Management web g</li> <li>Average engagement rate: 64%</li> <li>Most popular stormwater webpages: <ul> <li>Flood map = 1,464 views</li> <li>Flood Action = 664 views</li> <li>Types of Sewer Systems = 565</li> </ul> </li> </ul>	•	l

Priorities: Preparing social media campaigns (e.g., SWU credit program to start in December) and developing communications plans for the Commonwealth, Ashby, Glebe project and the flood mitigation grant.

Website: Total time spent on top pages listed on slide. High engagement with Ben Brenman Pond page may be due to school district outreach activity in October.

	C	ommunications		
Flood Action	Overall score (9)	SEO score progress ③		l
Technical ⊙         92.2           Content ⊙         86.9           User experience ⊙         90.5	/100 SEO 90.3/100			l
	H View score breakdown	- Score - Industry benchmark (Government)	Scores are based on broken links, dated	l
		+	images, and page formatting.	I
Stormwater M	anagemen		iormaning.	
Stormwater M		SEO score progress ®	formaning.	l
	Overall score ()		formaning.	l
	Overall score () (100 SEO 89.7 /100		formannig.	

Search Engine Optimization (SEO): Score cards for two pages on slide. Ongoing project to improve (management 86 pages total). Discussed tracking website users – Google Analytics not built for tracking individual IP addresses. The city is not subscribed and may not be worth.

Suggestion: Adding hyperlinks on city PDFs, webpages, and presentations.



- Ex: Capital Improvement Projects Schedule webpage hyperlinks are not linked, would be valuable to add.
- Response: Have created project pages and are working to make them more accessible by adding to the SPA Project website.

#### **3f. Maintenance Activities (Jaatinen)**



Hooffs Run Culvert (4-5 months): Hired contractor. Will be cleaning culvert and repairing concrete. Staging areas will begin to appear in December 2024. Staging areas include Linden Street Alley will include a temporary generator for power in tunnel and safety fencing. Mt. Vernon Cul-de-sac will have safety fence and dumpsters and use access hatches – removing 4-5 parking spaces. Construction inspector and city construction manager will supervise.

- Majority of debris is located at Duke St outfall. Have coordinated with AlexRenew but they are still working. The city must therefore start at top of culvert.
- Request (Hill): Please provide picture of clean culvert at end of project to share with neighbors.

Next phase: Cleaning and repairing culvert north of Linden St. Currently in design phase. Will be phased construction due to work on top slabs of culverts between streets to change top of culvert, phase could take longer

Public Point of Contact for project: Jaatinen (will share contact information via letters by 11/22)



### **3g. Flood Mitigation Program (Montoney)**

### **Flood Mitigation Grant Program**

- We have reimbursed a total of \$1,075,979.98 since the start of the program in July 2021.
- So far in FY2025, we have 63 applications in various stages with a total of \$85,132.75 reimbursed.
- In FY2024, we had 101 approved applications for a total of \$235,145.16 reimbursed.
- In FY2023, we had 73 approved applications for a total of \$167,538.49 reimbursed.
- In FY2022, we had 148 approved applications for a total of \$588,163.58 reimbursed.

FY2025: Increased from 16 applications (at last meeting) to 63 applications to date, with 9-10 applications under review. Observed increase in applications in recent weeks and will be doing additional outreach.

#### Questions:

- Thout: Is there sufficient funding to see if applicants who spend over threshold can be reimbursed?
  - Maines: Unsure, want to increase program reach before change threshold.
  - Drudi: Condo Applications (requested noted in minutes)
    - Montoney: Received applications from (in total):
      - 3 businesses
      - 2 churches
      - 5 HOAs (previous capped at \$5,000, then was increased to \$25,000. One HOA applied prior to threshold increase)



3h. SWU Credit Application Window (Liebnitzky)

### **Annual SWU Credit Application Window**

- Annual credit window is open from December 1 to February 15
- Approved eligible credits are good for 2 years
- Floodproofing practices added to eligibility list
- Residents who applied in the 22/23 cycle will receive an email to reapply



Application Window: 12/01/24-02/15/25 (third year). First year applicants will need to reapply because credits last for 2 years.

- 300 applicants from 22/23 cycle will need to reapply (will receive email blast on 12/02)
- Dry flood proofing practices on list: flood gates, green roofs, mature and new tree credits (must include ruler in image)
  - New Tree Credit: 1-inch caliper, measure 6 inches off the ground
  - Mature: 12 inches wide 4 feet off the ground

Contact: stormwater@alexandriava.gov

Request (Hill): Can the city provide committee members with 1-pagers on the SWU Credit and Flood Mitigation grant programs that members can distribute to residents? Please include links/QR codes.

#### 4. Bylaws



Assembled by Leonard and circulated (via email) by Hill. Decision to put on agenda for next meeting.

- Drudi: Draft of bylaws should be included in meeting announcement and be linkable from the agenda, so the public has notice.



### 5. Outreach



#### 6. Discussion Open to the Public



Rose Esber: I live near the King Street, Metro. The entire area has been flooded 4 times since 2019 and once in 2016, with massive structural and personal property damage to homes, hotels, and businesses. Many residents believe the flooding in Upper King Street was mainly due to the city's lack of foresight and negligence, and not cleaning out the (Hooffs Branch?) culvert despite knowing that culvert was a serious problem since 2016. Since (the city?) finally removed 280 tons of debris from the culvert, Upper King Street has not flooded into our building. The city's small flood mitigation grant was insignificant in financing our condos \$300,000 in flood mitigation or the repeated cleanup costs. The city staff made an arbitrary decision to exclude us from applying for individual grants by designating our personal property as common area despite our condominium documents. We have not been able to do preventative maintenance since 2016. Our reserves are at \$30,000 when they should be at \$100,000. 4 of our 8 owners are senior citizens on fixed income... So, the city has continually raised our real estate taxes and the stormwater fees but the city has not helped condominiums sufficiently or fairly to recover from multiple floods. I don't know when or if our condo will ever recover financially from the flooding that should have been prevented by the city's routine stormwater maintenance. We are asking the city to provide condominiums with more financial help to recover from the past flooding. Thank you very much for everything you're doing. I appreciate your efforts.

(The above is from the Zoom recording. Ms. Esper indicated that she would email her comments for official inclusion.)

Discussion:

- Maines: The city responded to Ms. Esber in writing a couple times.
- Drudi: City Hall decided condos get as much money as five houses even if a condo has 100 units. That condo (Ms. Esper's) has ~8 units, which seems unfair to condo owners. Suggestion: Calibrate support to the number of units in the condo. \$25,000 is proportionately less than what homeowners get.



- Maines: Ex: Park Fairfax If the individual condo will do the work, then they can get \$5,000. If the association does the work, they could also get \$25,000. Depends on bylaws. Understanding that individual condos are not getting flooded but common area is.
- Drudi: Each unit has a storage unit and parking space, and those are being flooded in the basement. The storage unit and parking space are not viewed as common area. Gate keeps flooding out of parking garage.
- Hill: Drudi and Hill to visit Ms. Esper. Damages that occurred in the past due to perceived lack of maintenance due to Hooffs Run.

Motion to adjourn. Seconded. All in favor. Aye.

End: 9PM