

The Clean Water Partnership Bladensburg Flood Risk Reduction Study Update

Presented to the Town of Bladensburg
November 18, 2024



Project Team



Prince George's County
Department of the Environment



Program Manager



Site Design & Construction



Program & Construction Management



Communication and Community Outreach Teams



AGENDA

01 Project Background

02 Existing Conditions

03 Recommended
Strategies

04 Next Steps

05 Questions



The Clean Water Partnership
is a community-based public private
partnership dedicated to
Green Stormwater Infrastructure
and local economic development.

The Clean Water Partnership is the First P3 stormwater infrastructure program in the country.



In 2015, Prince George's County entered a community-based, public-private partnership (CBP3) with CIS called The Clean Water Partnership (CWP).

The partnership was designed to meet US Environmental Protection Agency (EPA) Clean Water regulatory requirements, benefit local businesses, schools, churches and communities and improve the stormwater infrastructure and is committed to positively impacting the local economy through "local" targeted disadvantaged subcontractor development and utilization.

Why is **Green Stormwater Infrastructure** (GSI) important?

- Green Stormwater Infrastructure filters and absorbs stormwater where it falls. GSI uses measures such as plants, soil mixtures, permeable pavement, etc. to store, and filter stormwater reducing flows to sewers and waterways.
- CIS delivers community-based partnerships (CBP) that deliver GSI, engaging residents, increasing green spaces, and supporting the natural habitat in underserved communities.
- CIS CBPs build and improve stormwater infrastructure, create quality local jobs, maximize local and MBE inclusion, and transfer implementation risk away from local government.

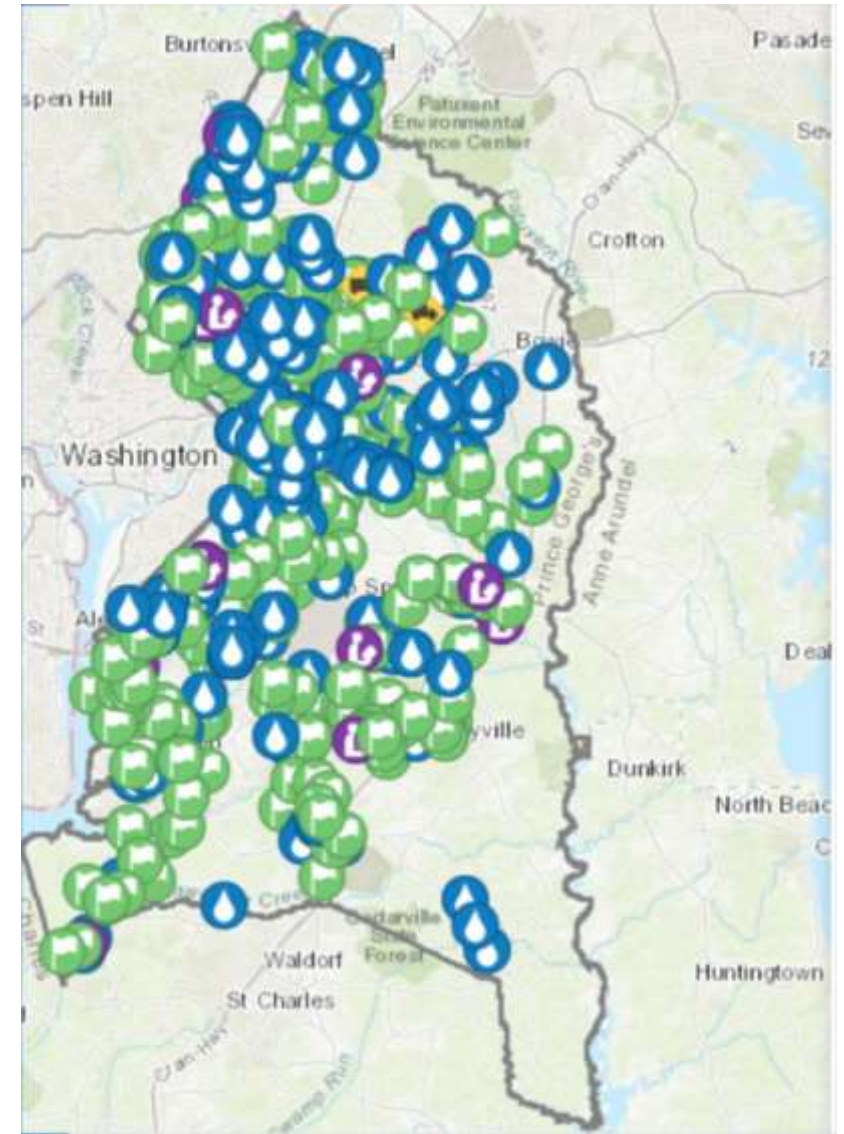


Program Overview

A 30-year partnership between Prince George's County and Corvias Infrastructure Solutions to identify, design, build, and maintain stormwater assets.

Intentionally developed to provide multiple, overlaying benefits (socioeconomic, environmental, implementation efficiency, community uplift, compliance surety)

- \$229M – 170 Completed Projects – 4,500 Acre Credits
- \$173M In Local, SWMBE & Veteran Owned Business
- 75% Economic Inclusion
- 51% Local Resident Workforce Hours



Communication and Community Engagement

Bladensburg Community Engagement



SCOOPY-DOO
& The Mystery of The Polluted Stormwater Ponds
STORMWATER Ponds
FALL STORMWATER-FEST
Bladensburg Community Center
4500 57th Avenue Bladensburg, MD
The 5th Annual
Clean Water Partnership
OCT. 26th 9-12pm
HAUNTED MAZE
MOON BOUNCE
SENSORY STATIONS
COSTUME CONTEST
TRUNK OR TREAT

Community Engagement and Enrichment



Project Overview/Background

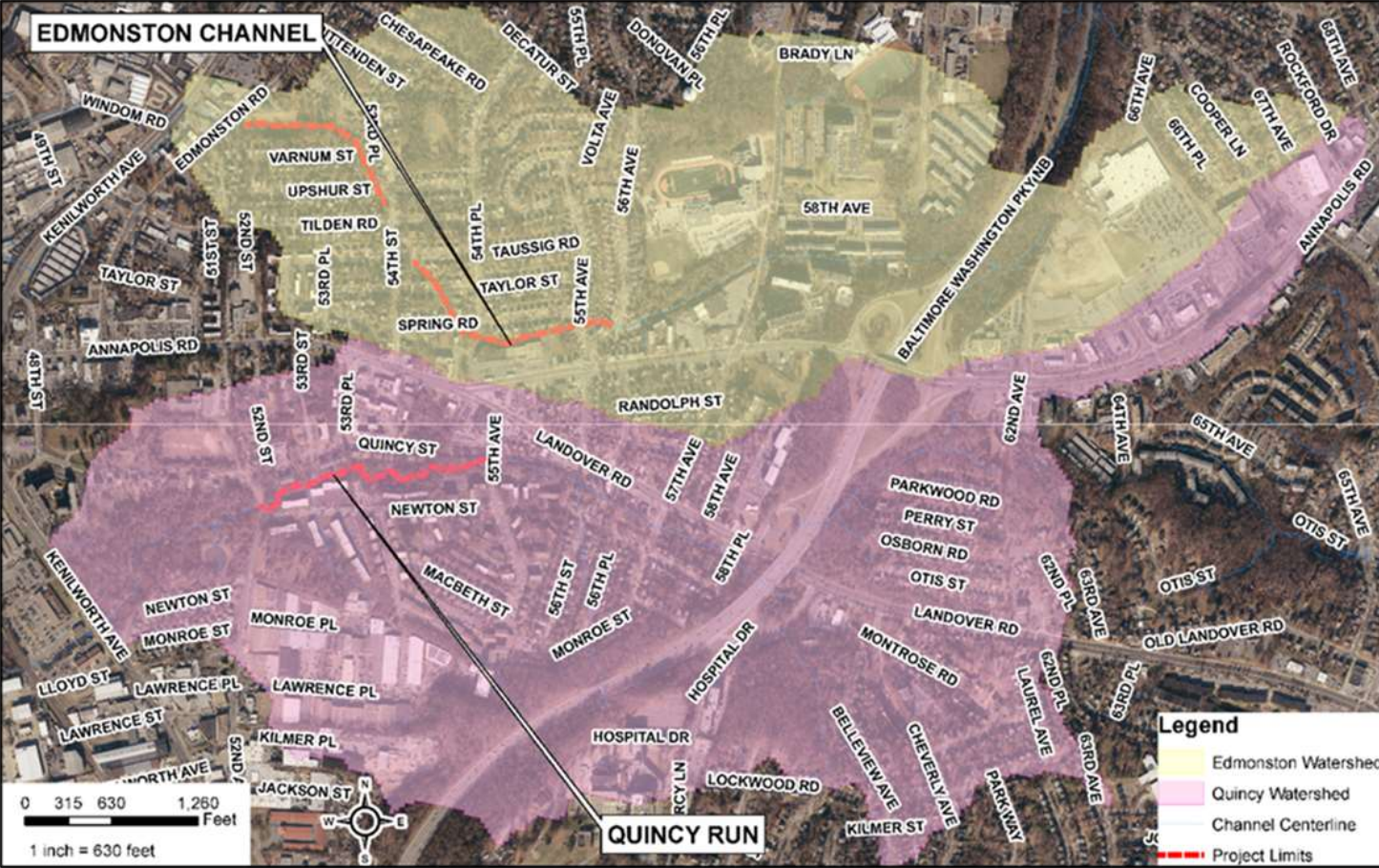
Project Overview – Edmonston Channel & Quincy Run

Alternatives Evaluation

- Data Collection
- Identify Flooded Areas/Structures
- Identify Potential Solutions to Reduce Risk
- Select Suite of Solutions

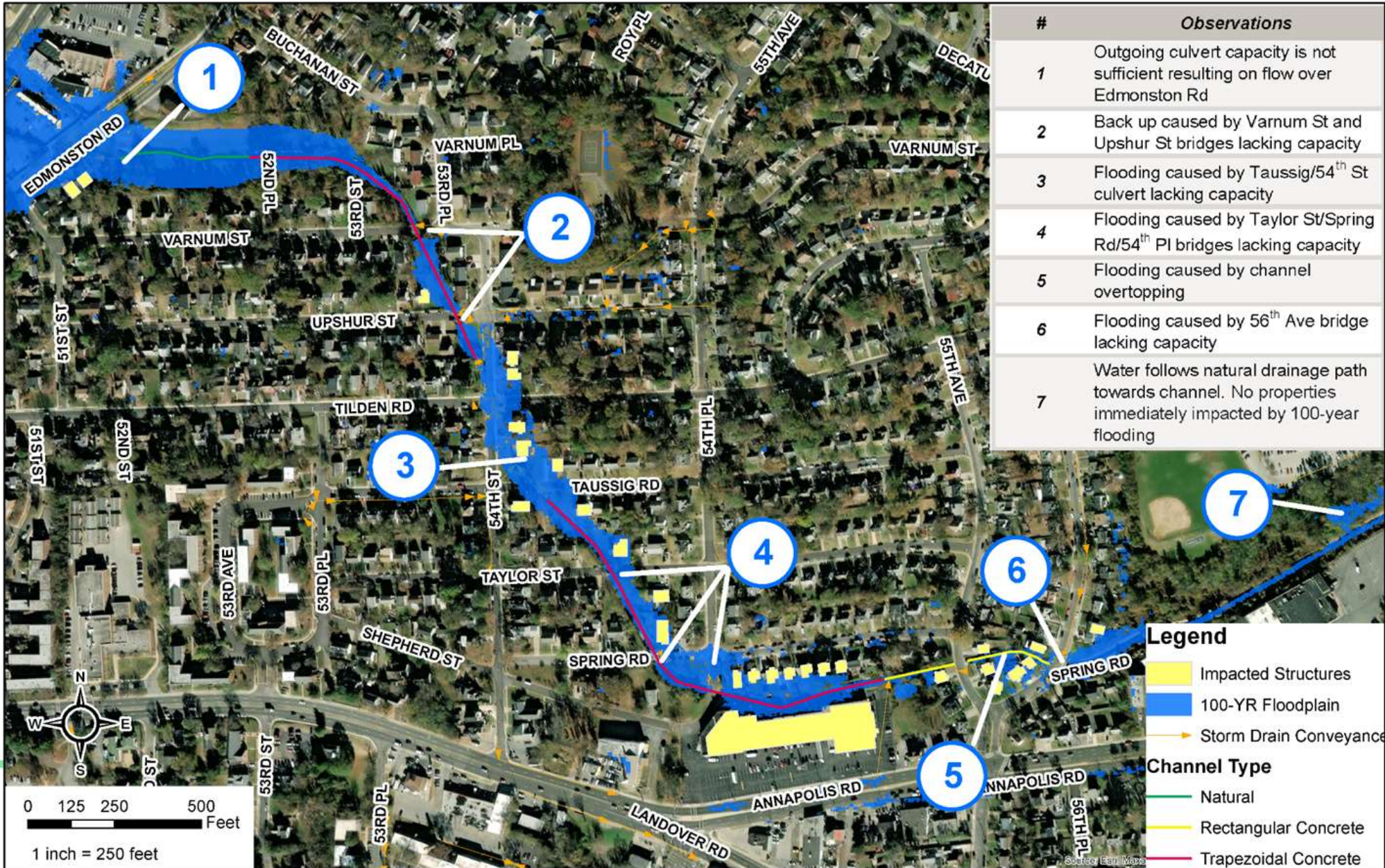
Future Tasks:

- Preliminary Design
- Final Design and Permitting
- Construction of Selected Solutions



EXISTING CONDITIONS

Existing Conditions— Edmonston Channel



#	Observations
1	Outgoing culvert capacity is not sufficient resulting on flow over Edmonston Rd
2	Back up caused by Varnum St and Upshur St bridges lacking capacity
3	Flooding caused by Taussig/54 th St culvert lacking capacity
4	Flooding caused by Taylor St/Spring Rd/54 th Pl bridges lacking capacity
5	Flooding caused by channel overtopping
6	Flooding caused by 56 th Ave bridge lacking capacity
7	Water follows natural drainage path towards channel. No properties immediately impacted by 100-year flooding

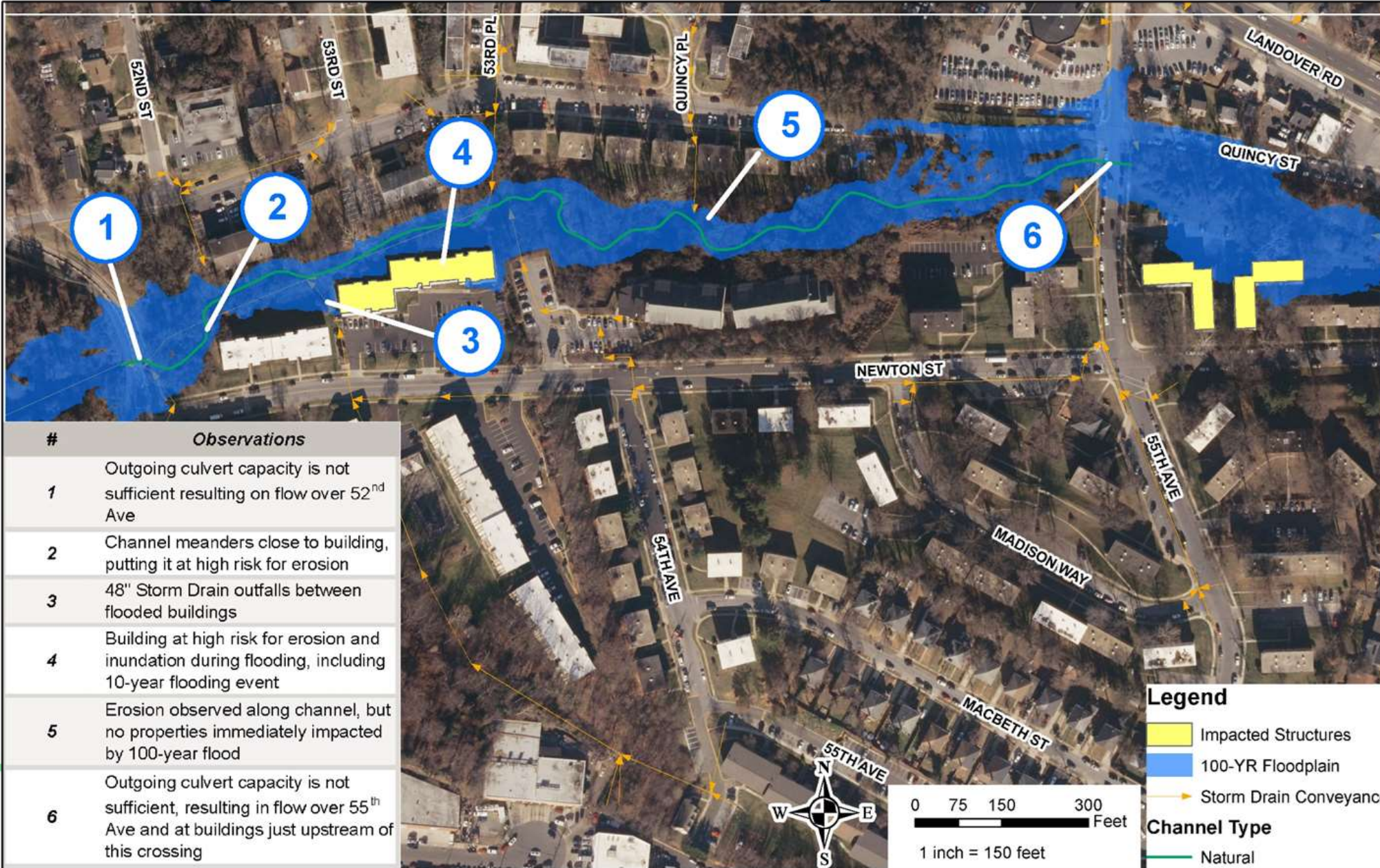
Legend

- Impacted Structures
- 100-YR Floodplain
- Storm Drain Conveyance

Channel Type

- Natural
- Rectangular Concrete
- Trapezoidal Concrete

Existing Conditions– Quincy Run



RECOMMENDED STRATEGIES

Recommended Strategies– Edmonston Channel



Alternative Benefits

- Reduces flooding risk for 10 of 12 structures for the 10-yr storm event
- Reduces flooding risk for 22 of 29 structures for the 100-yr storm event
- Most improvements are within public right of way

Recommended Strategies– Quincy Run

RECOMMENDED ALTERNATIVE

Alternative Benefits

- Reduces flood risk for three buildings from the 100-yr storm flood event
- Improve stream stability by addressing existing degradation issues
- Stream restoration anticipated to provide TMDL credits



NEXT STEPS

Project Schedule - Bladensburg Flood Risk Reduction Project

Flood Reduction Study Evaluation & Alternative : Complete

Preliminary Design Phase: December 2024 – July 2025

Final Design Plans (30-, 60-, 90-, 100-percent): August 2025 – January 2027

Construction: TBD

Project schedule is tentative and depends on specific solutions and funding availability.

Next Steps– Bladensburg Flood Reduction Project

Phase	Goal	Start*	End*
<u>Preliminary Design Phase</u>	<p>Prepare 15% Design and evaluate feasibility of recommended strategies for:</p> <p>Edmonston Channel & Quincy Run</p>	Winter '24/'25	Spring'25
<u>Concept Design Phase</u>	The strategies evaluated at the 15% that resulted feasible to design and construct will be taken through the concept design phase.	Spring'25	Fall'25
<u>Final Design Phase</u>	All strategies approved in the concept phase	Fall'25	Spring '26
<u>Construction Phase</u>	TBD	TBD	TBD

QUESTIONS

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 Look for our channel
The Clean Water Partnership

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CLEAN WATER

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