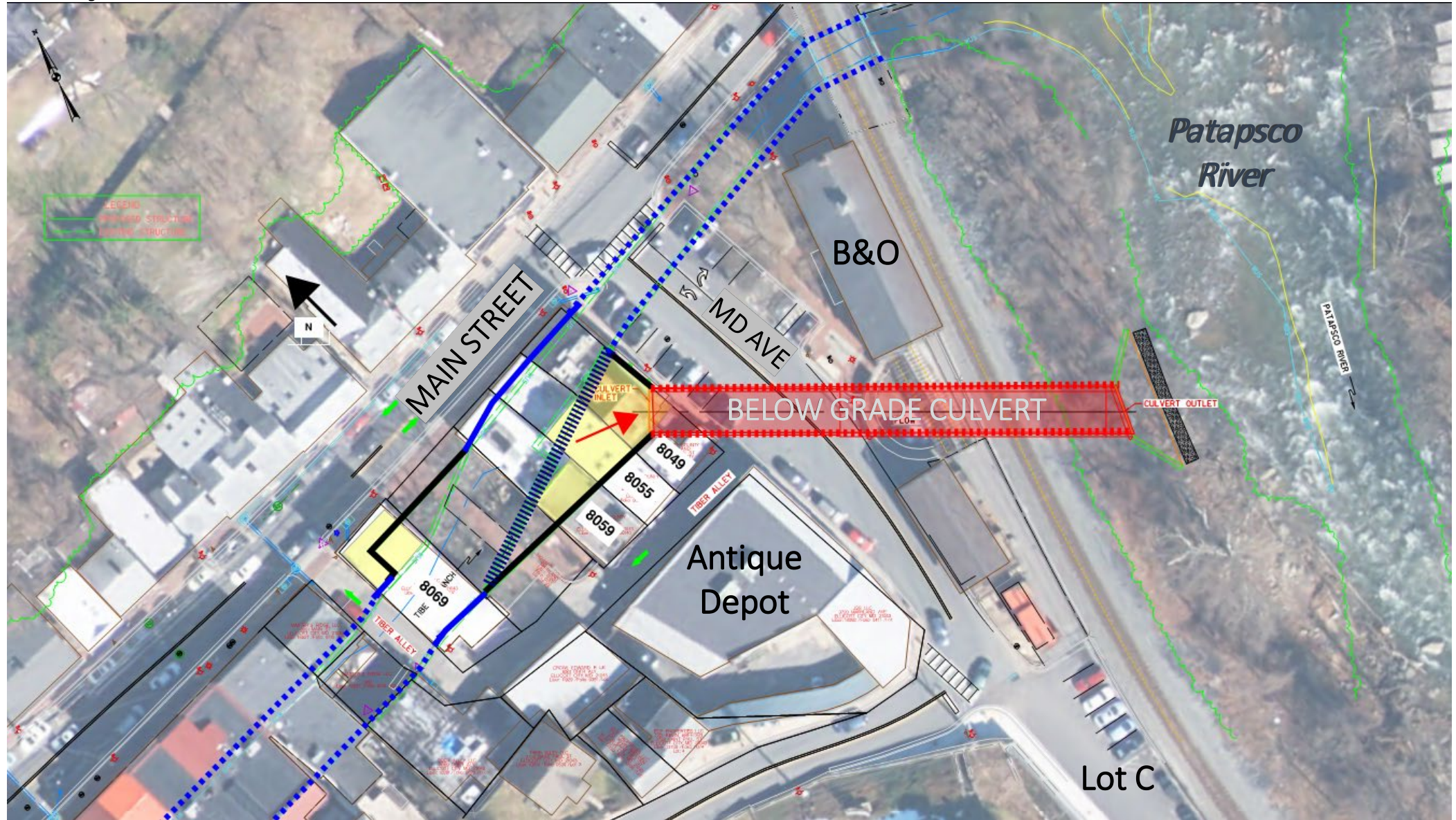
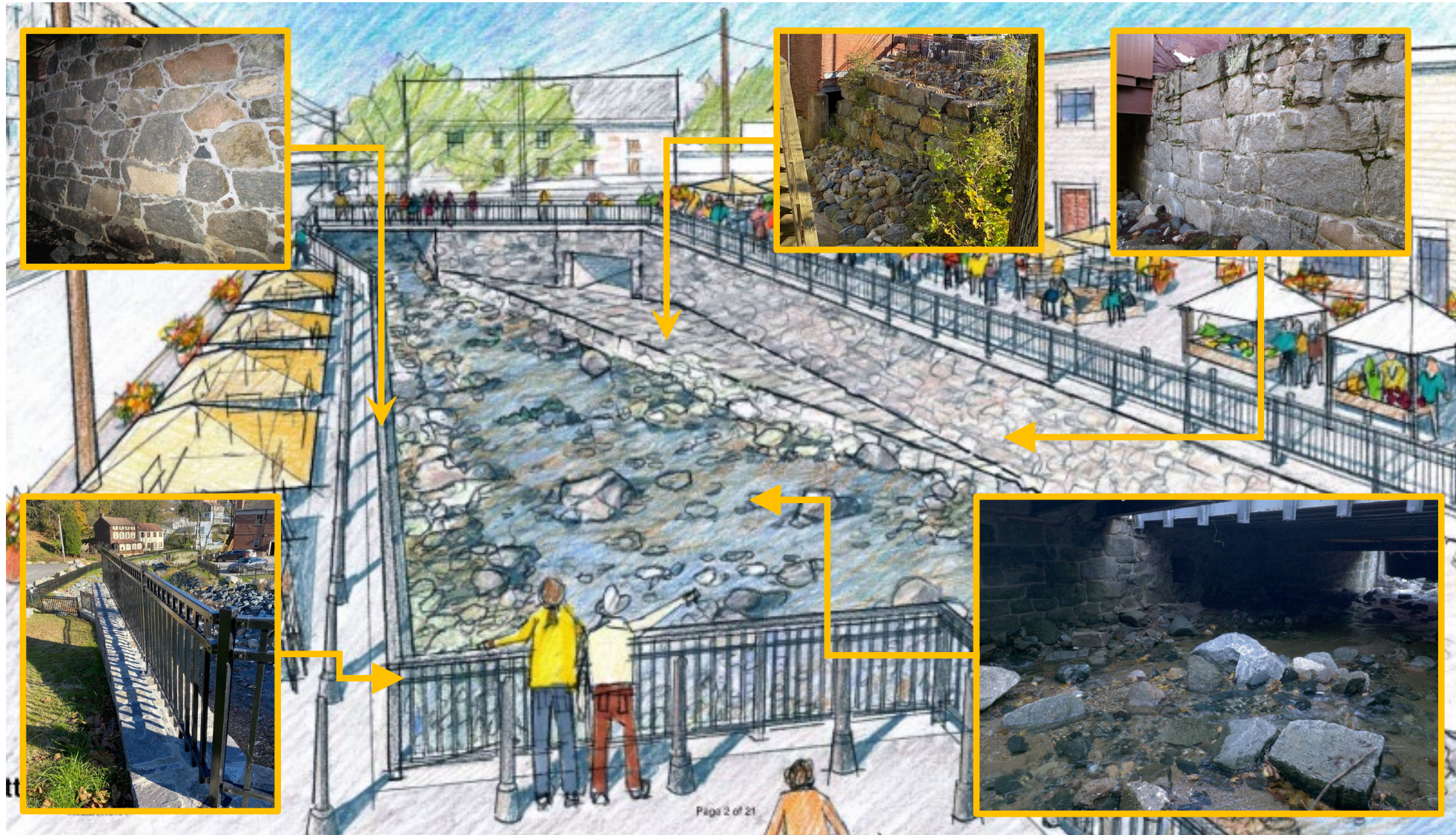


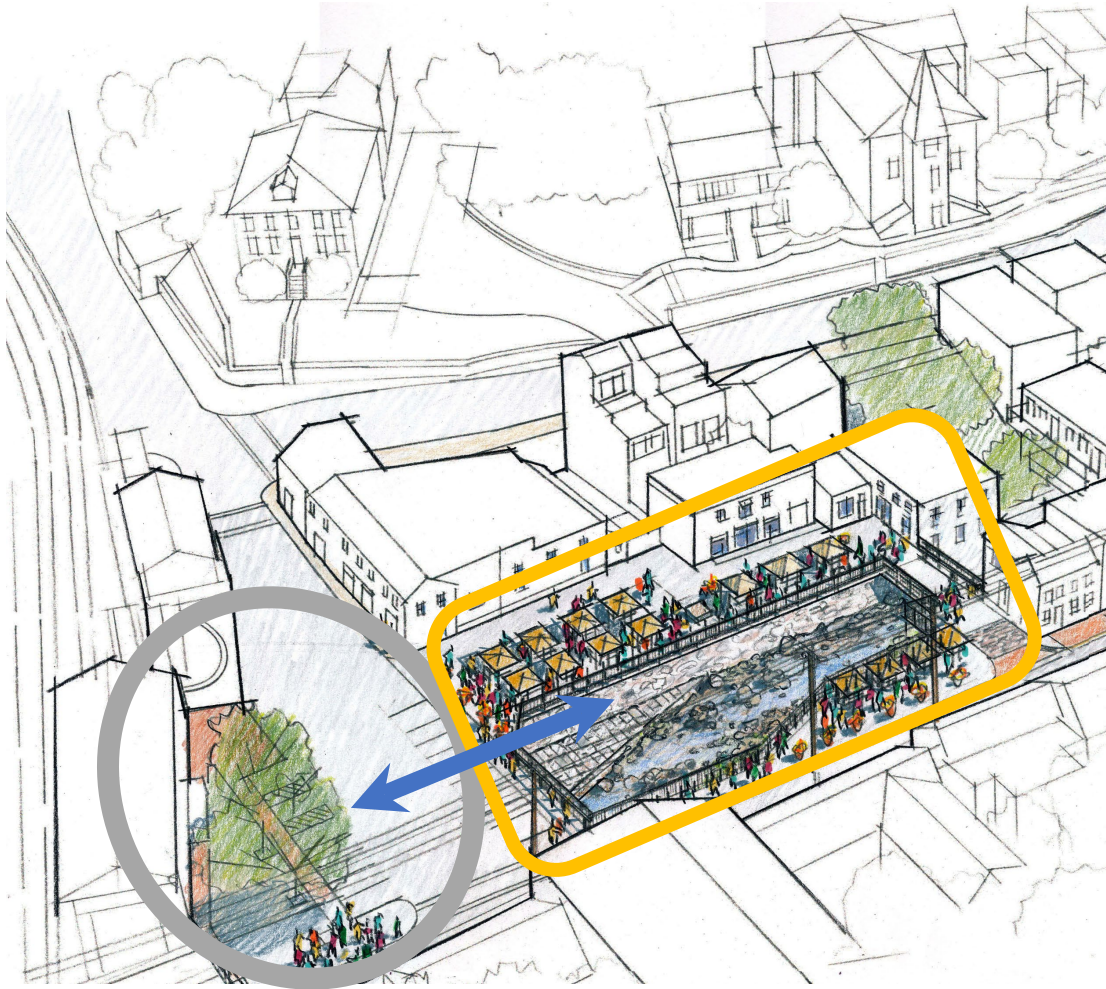
Maryland Ave. Culvert – Site Plan



Maryland Ave. Culvert – Perspective and Materials

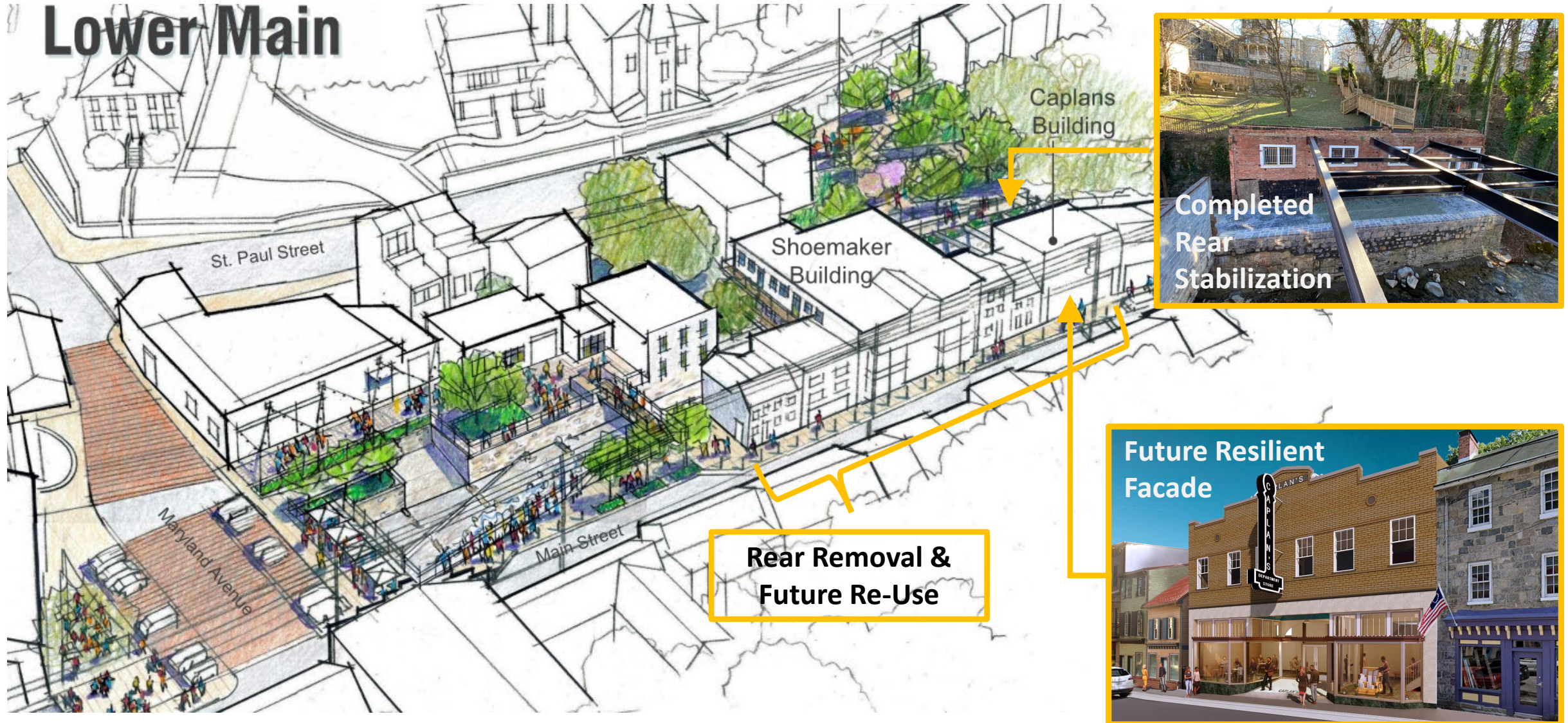


Expanded Tiber Park / B&O Plaza

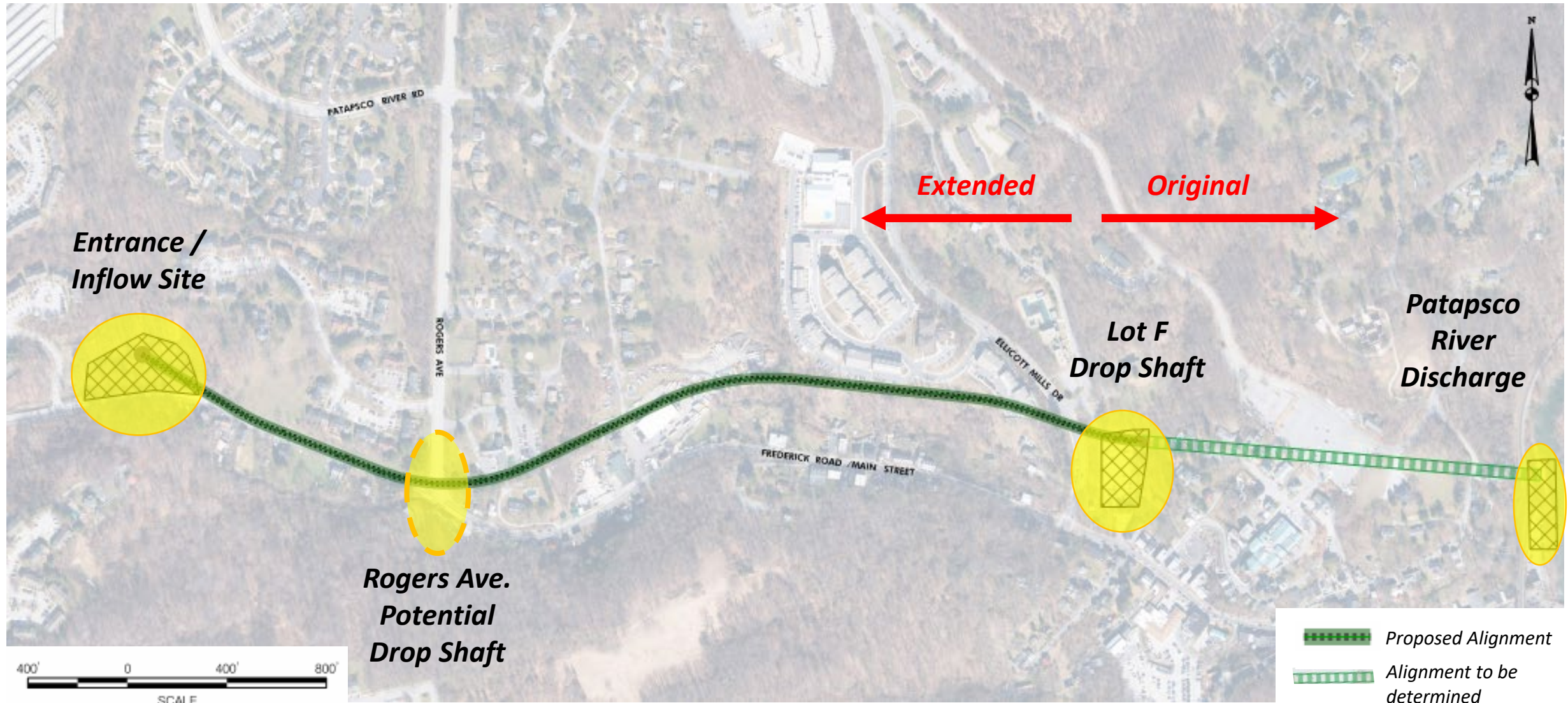


- *Policies 8.3 – Tiber Park & 8.4 – B&O Plaza*
 - Street-Level Gathering Areas
 - Pedestrian Access
 - Tiber Alley Spatial Definition
 - Site and Bike Amenities
 - Materials
 - Trees & Plantings
 - Shade Structures
 - Lighting
 - Water Features
 - Environmental Site Design
 - Interpretation
 - Archaeological Resources
 - Wayfinding
 - Emergency Alert System
- *Policy 8.4 – B&O Plaza*
 - Clock

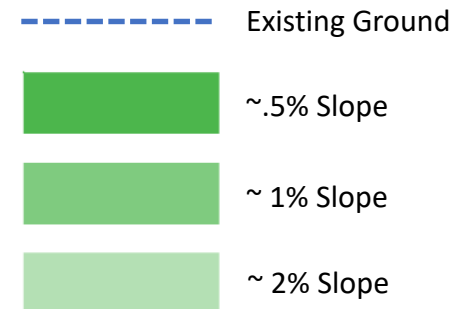
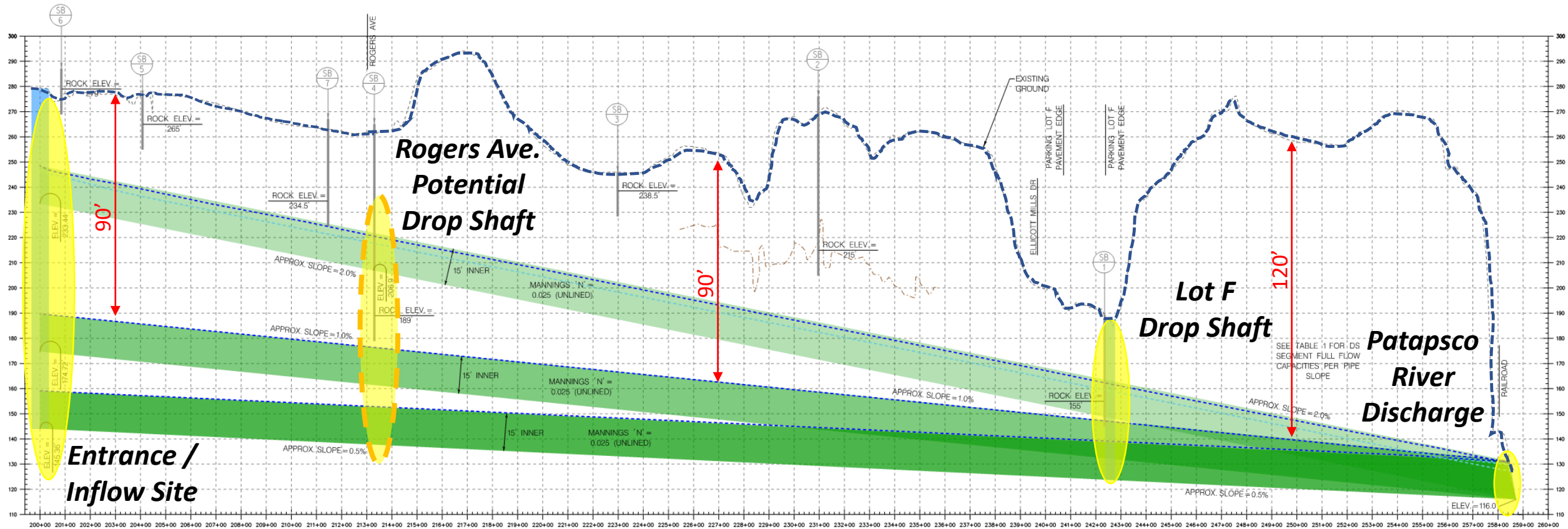
Four Building Removal + 6 Building Renovation



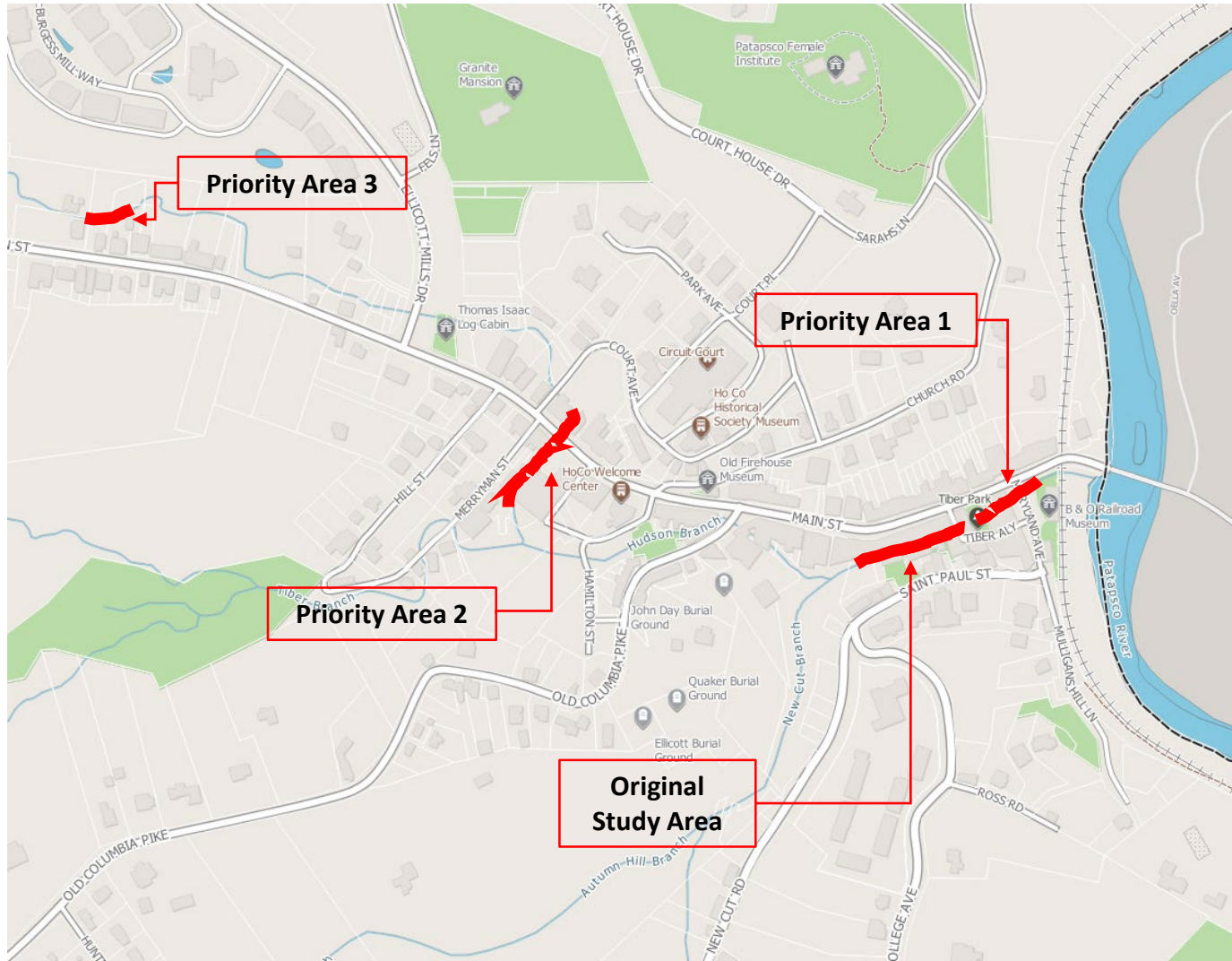
Extended North Tunnel - Alignment



Extended North Tunnel - Profile



Sediment Study - Overview

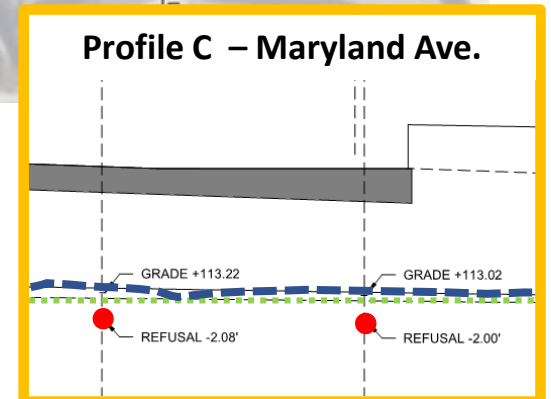
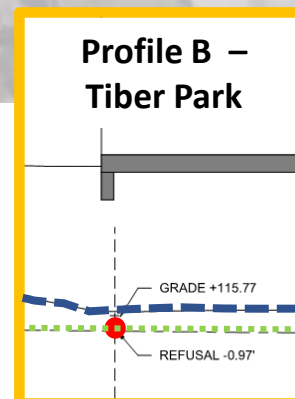
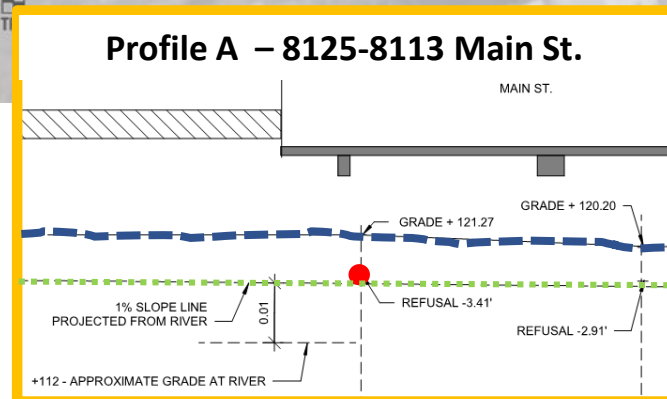
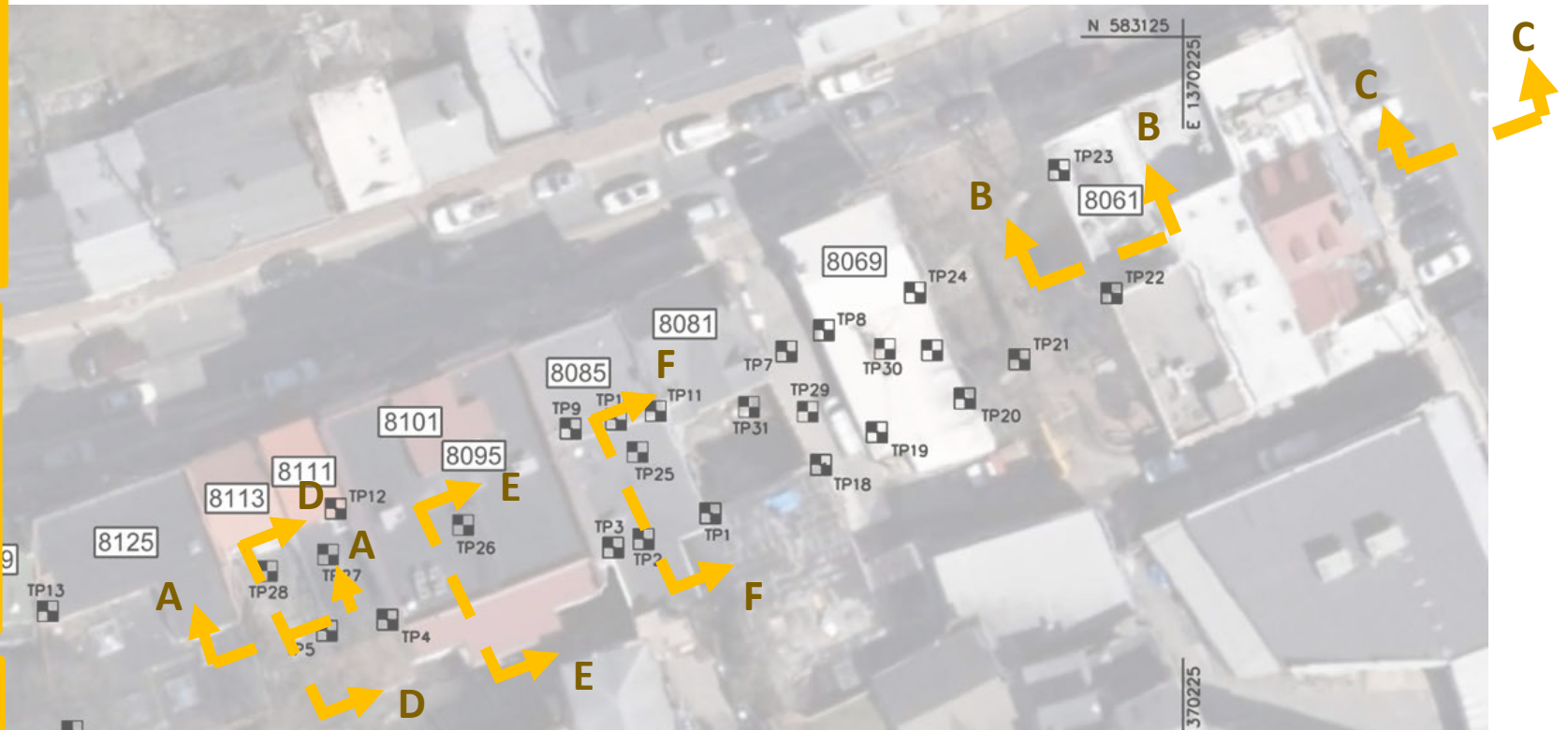
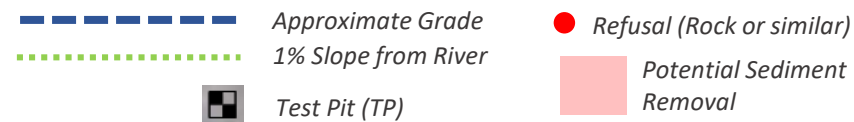
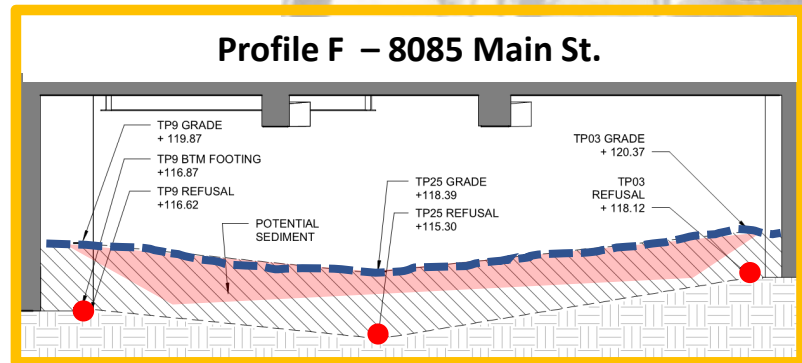
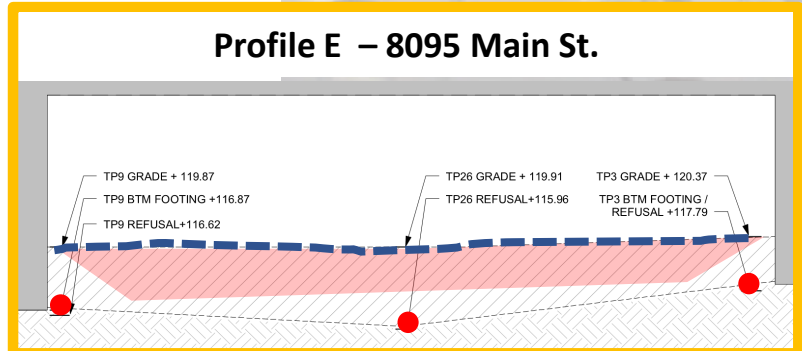
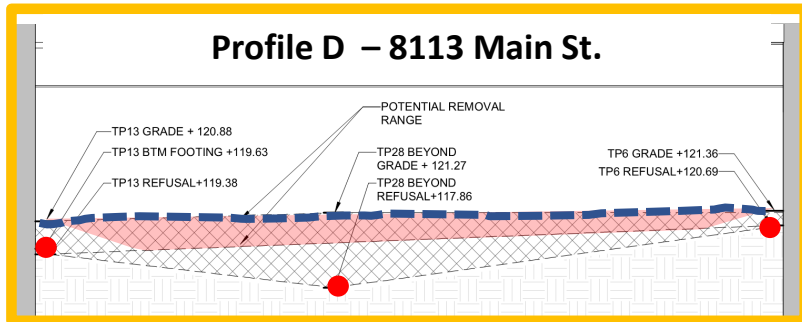


Summary of Findings:

While there is sediment present within the channel in certain areas, **removal of sediment alone will not result in a meaningful increase in flow capacity** of the conveyance network.

- While removal of material would have a localized hydraulic benefit, this benefit is extremely minimal due to channel constrictions further downstream.
- Removal of sediment is not likely to provide a long-term benefit as additional sediment would accumulate
- During storm events, high flow velocities will move the existing sediment and will redeposit sediment from elsewhere in the stream channel as the storm subsides, thereby replacing pre-storm material with new sediment.

Sediment Study - Profiles



WIFIA Process



Application & Approval

- Letter of Interest (LOI): 10/13/2020
- WIFIA Invitation to Apply: 01/11/2021
- Application Due Date: 09/30/2021
- Est. Application Approval: Q1 2022
 - Rate set*

Construction & Drawdown (5 Years)

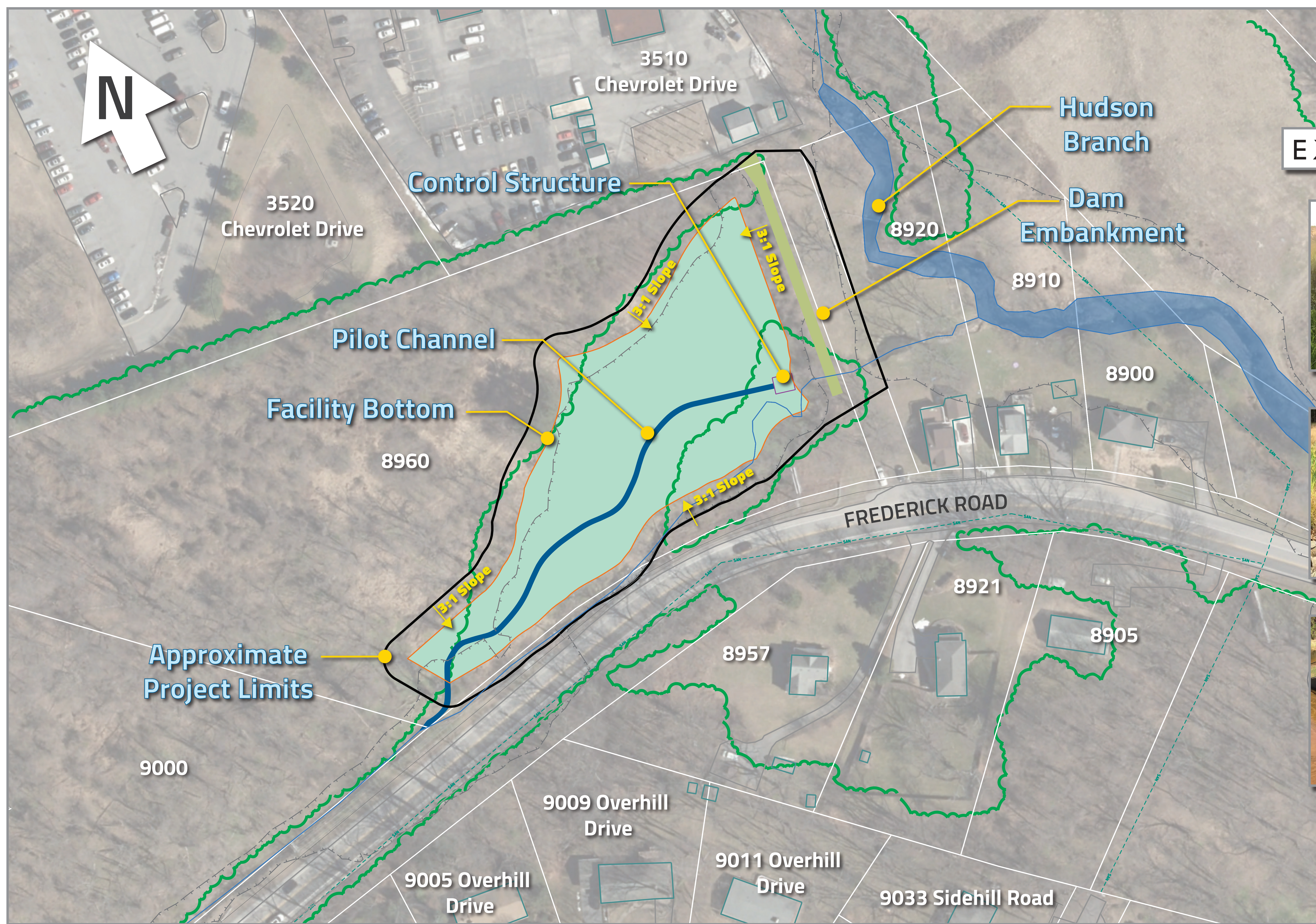
- BAN Facility:
 - WIFIA Interest Rate Locked Q1*
 - Borrow against BAN facility during construction
 - Repay facility with long-term financing

Financing & Operations

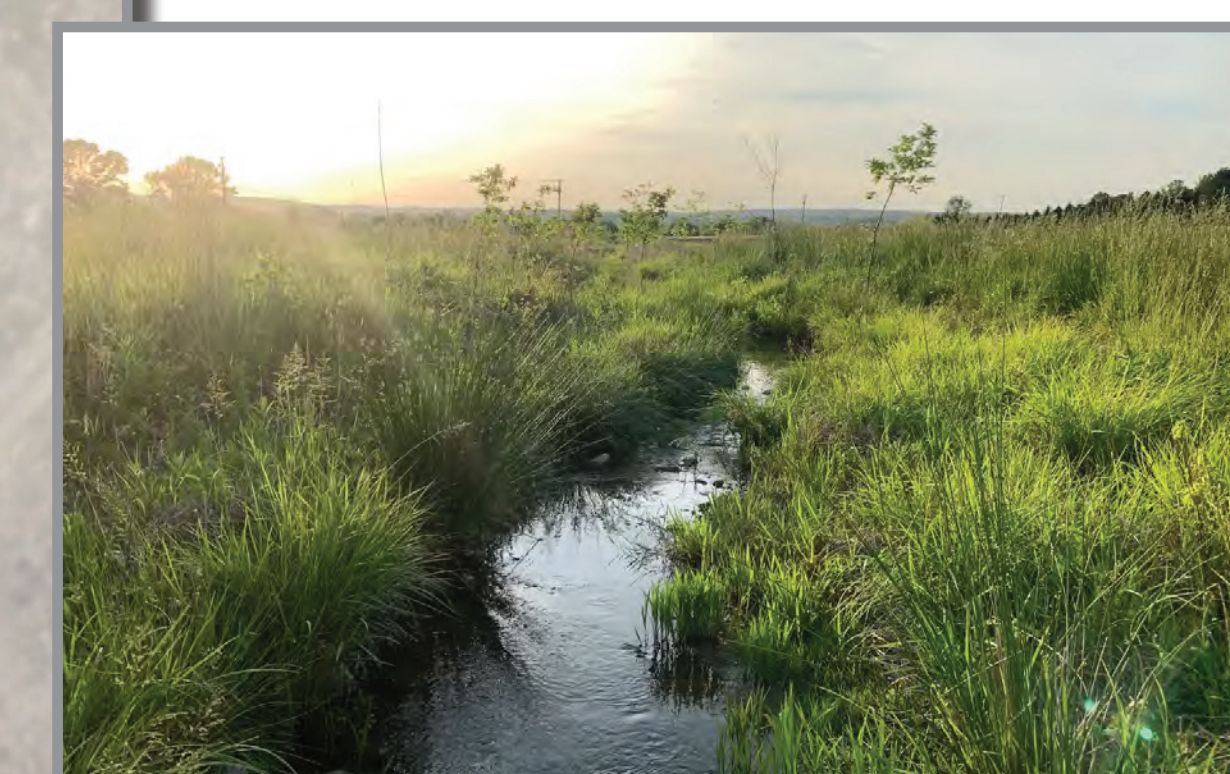
- Long-Term Financing:
 - Determined in year 5
 - Dependent on GO rates at the time*
 - Can be a combination of a WIFIA loan and GO Bonds
- Duration: 20 - 30 years



CONCEPT DESIGN - H4 FLOOD ATTENUATION FACILITY



EXAMPLE PHOTOS



POSSIBLE PILOT CHANNEL



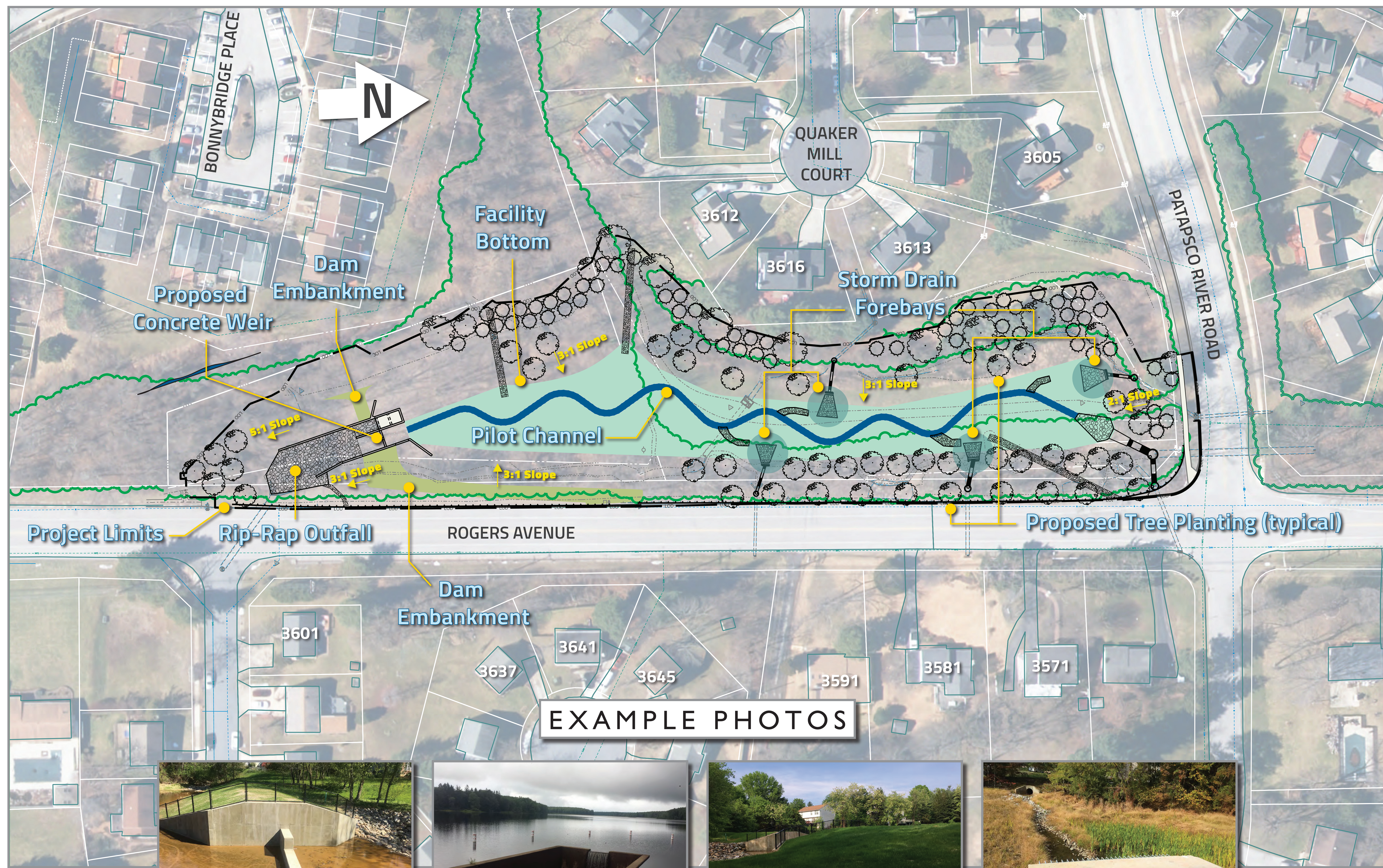
POSSIBLE CONTROL STRUCTURE-RISER



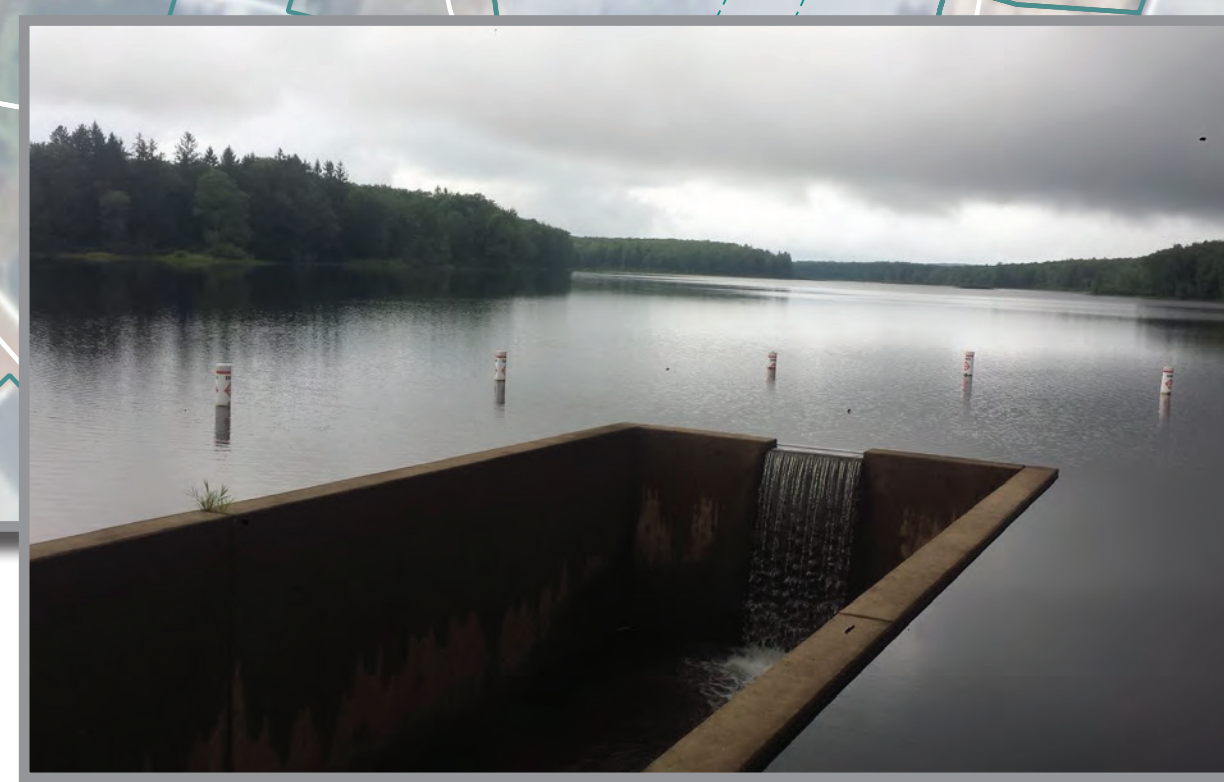
POSSIBLE CONTROL STRUCTURE- WEIR



QUAKER MILL COURT FLOOD ATTENUATION FACILITY



PROPOSED CONCRETE LOW FLOW WEIR



PROPOSED CONCRETE HIGHFLOW WEIR
(EXAMPLE DURING FLOOD CONDITIONS)



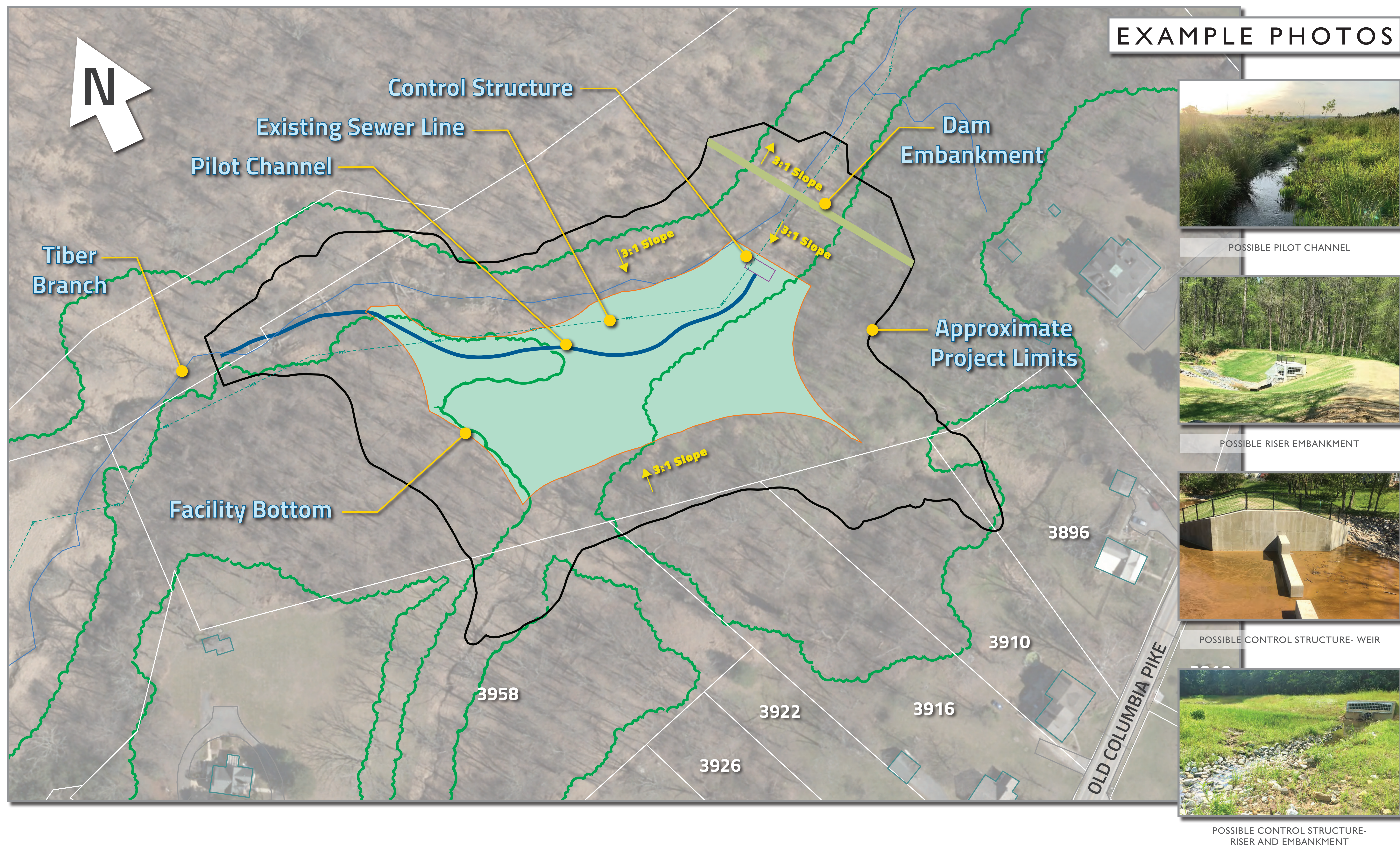
EMBANKMENT

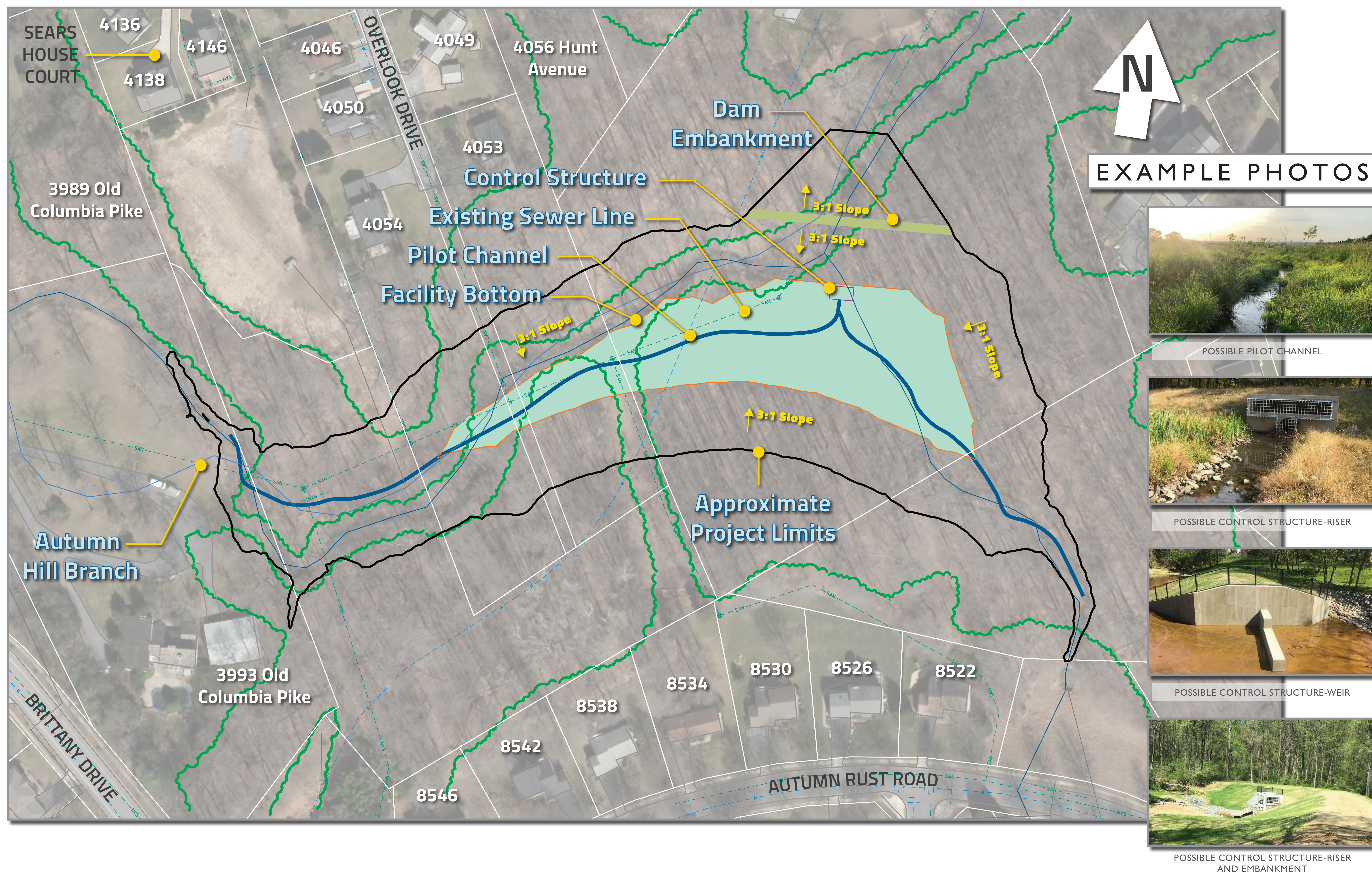


PILOT CHANNEL



CONCEPT DESIGN - T1 FLOOD ATTENUATION FACILITY







ELLICOTT CITY SITE H-7



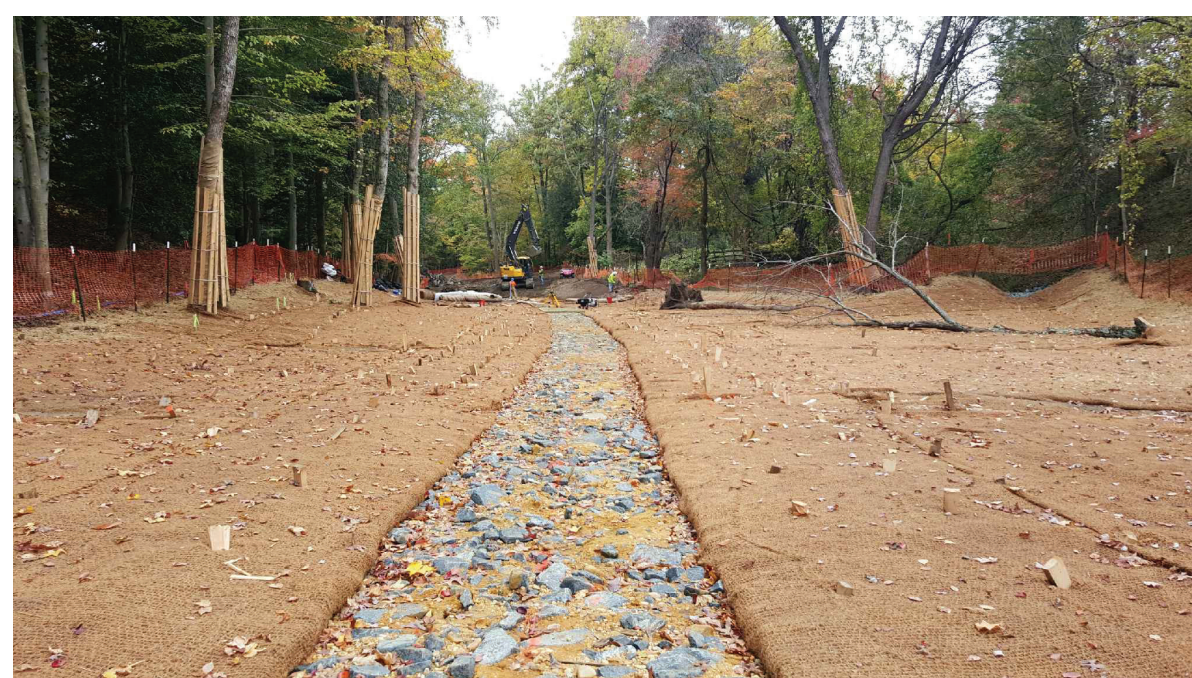
EXAMPLE PHOTOS



EMBANKMENT



WEIR WALL



STREAM RESTORATION - DURING CONSTRUCTION



STREAM RESTORATION - POST CONSTRUCTION

