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

Completed Rear Stabilization

Future Resilient Facade

Rear Removal & Future Re-Use
Extended North Tunnel - Alignment

Entrance / Inflow Site

Extended

Lot F Drop Shaft

Extended North Tunnel - Alignment

Original

Proposed Alignment

Alignment to be determined

Patapsco River Discharge

Rogers Ave. Potential Drop Shaft
Extended North Tunnel - Profile

- Entrance / Inflow Site
- Rogers Ave. Potential Drop Shaft
- Lot F Drop Shaft
- Patapsco River Discharge

Slopes:
- ~.5% Slope
- ~ 1% Slope
- ~ 2% Slope

Existing Ground
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

Profile A – 8125-8113 Main St.

Approximate Grade
1% Slope from River
Test Pit (TP)

Refusal (Rock or similar)
Potential Sediment Removal

Profile E – 8095 Main St.

Profile F – 8085 Main St.

Profile D – 8113 Main St.

Profile B – Tiber Park

Profile C – Maryland Ave.
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

EXAMPLE PHOTOS

PROPOSED CONCRETE LOW FLOW WEIR
PROPOSED CONCRETE HIGH FLOW WEIR
EXAMPLE DURING FLOOD CONDITIONS
EMBANKMENT
PILOT CHANNEL
CONCEPT DESIGN - T1
FLOOD ATTENUATION FACILITY

EXAMPLE PHOTOS

POSSIBLE PILOT CHANNEL
POSSIBLE RISER EMBANKMENT
POSSIBLE CONTROL STRUCTURE - WEIR
POSSIBLE CONTROL STRUCTURE - RISER AND EMBANKMENT

Control Structure
Existing Sewer Line
Pilot Channel
Facility Bottom
Tiber Branch
Dam Embankment
Approximate Project Limits