

Ellicott City Safe and Sound Update

August 2, 2021

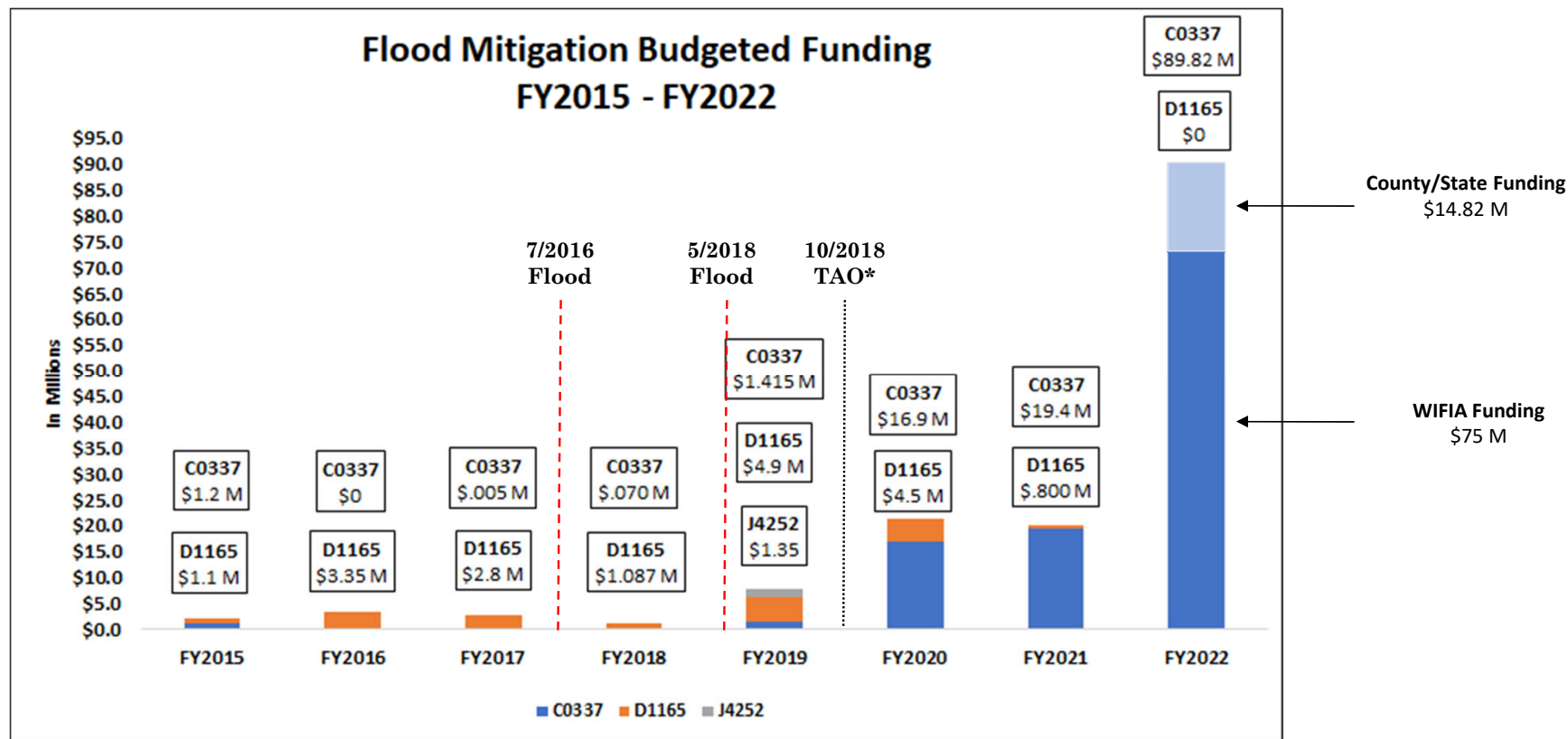


Meeting Logistics

1. Meeting Structure
2. Overview of EC Safe & Sound
3. Update of EC Safe & Sound Projects
4. Update on Associated Projects
5. Stations with Q+A

County Consultants & Staff will be available until 7:30 PM

Flood Mitigation Funding Overview



*Following the 2018 flood, a TAO was passed by the council providing \$15.98M to C0337 for the reconstruction of Ellicott Mills Drive, acquisition and demolition of Main Street properties, and to design Lower Main Street open space and Hudson Bend Stream Channel Expansion.

WIFIA

A \$75m loan from the Water Infrastructure Finance and Innovation Act of the Environmental Protection Agency

Recently Completed:

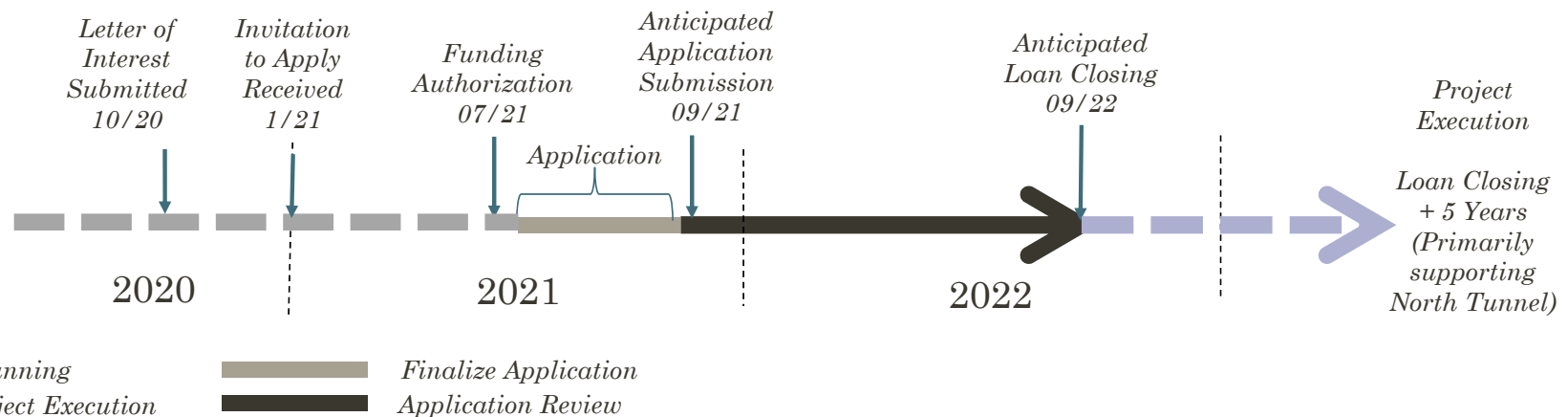
- Council authorization
- Review and analysis of financials

Current Status:

- Finalizing application

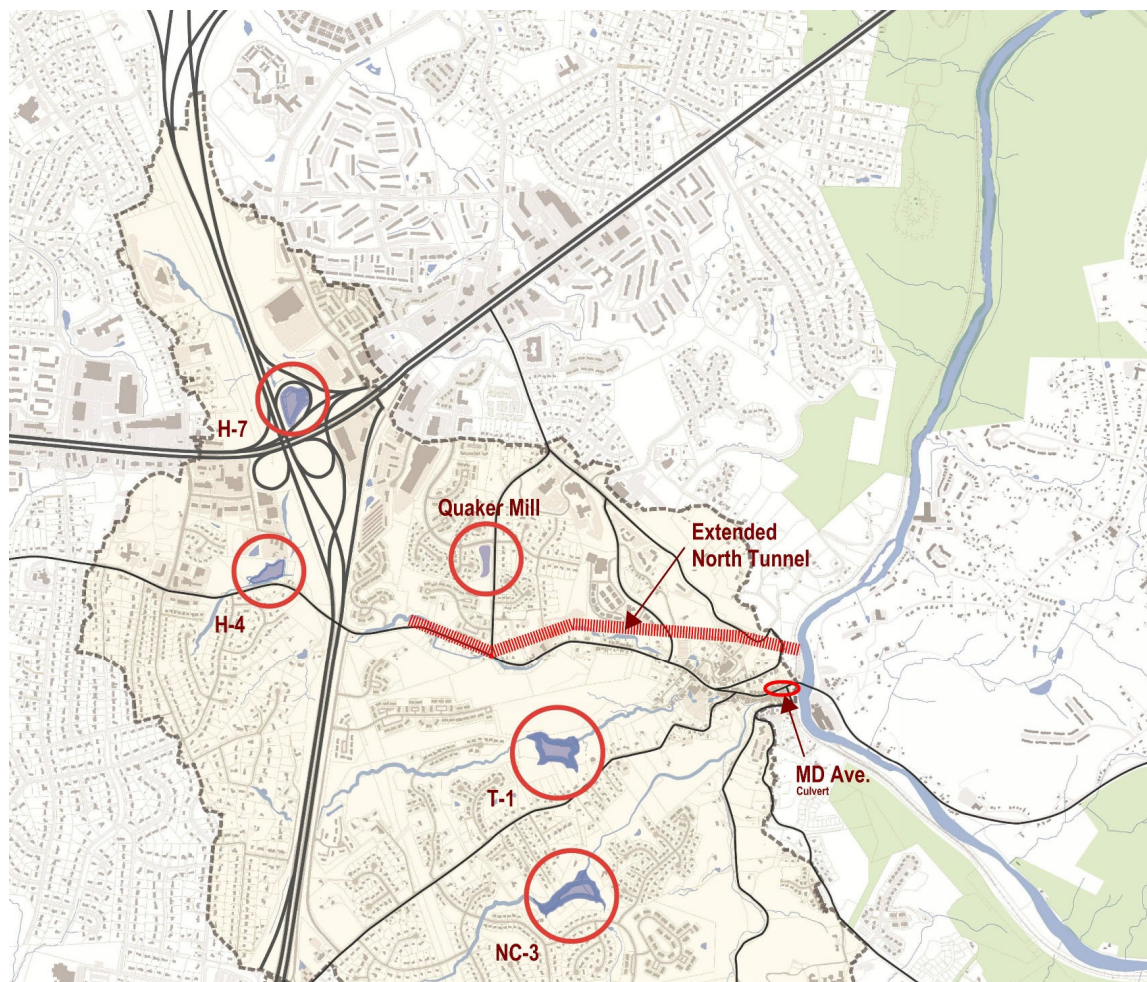
Next Steps:

- Submission and review of application
- Approval of Loan



Ellicott City Safe and Sound Projects

EC Safe & Sound – Overview



EC Safe & Sound – Extended North Tunnel

A 15-foot diameter tunnel extending from the West End to the Patapsco River

Recently Completed:

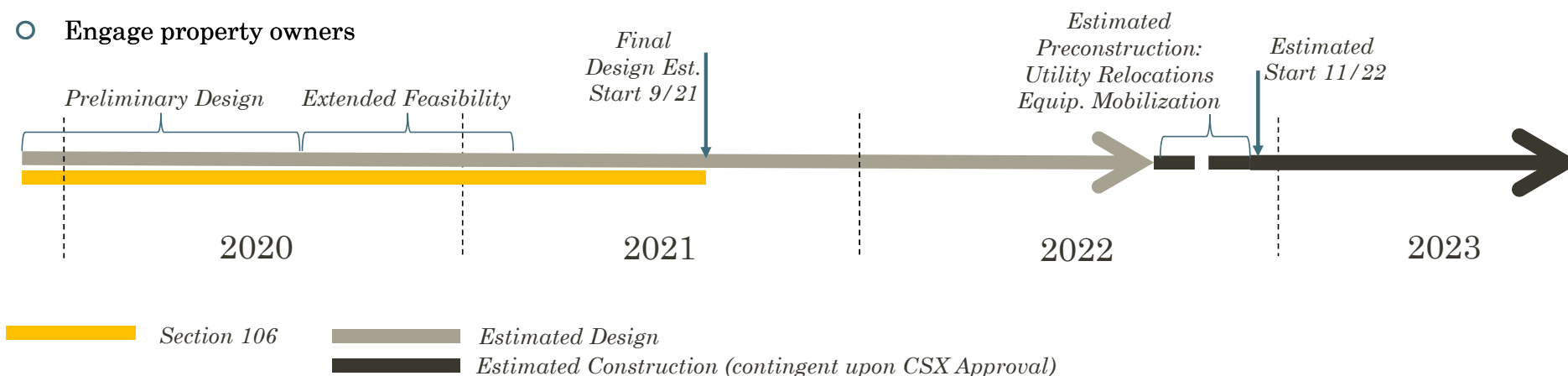
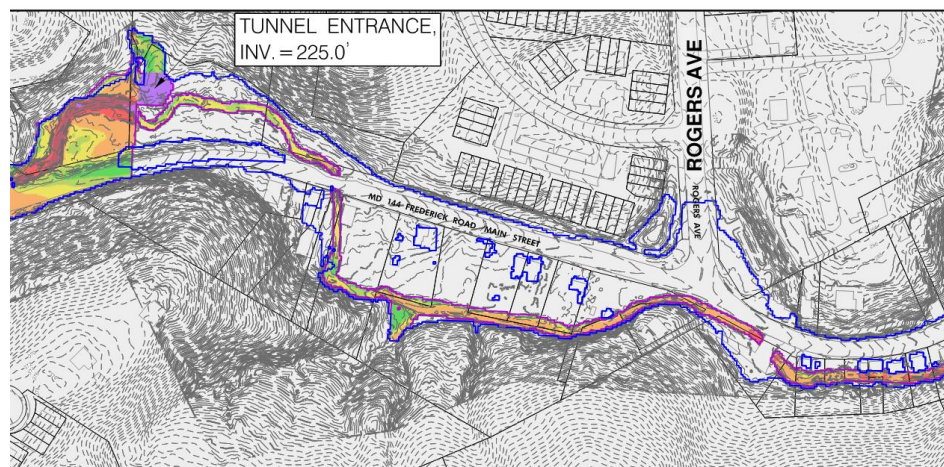
- Feasibility of extension of original North Tunnel
- Selected designer for Final Design phase

Current Status:

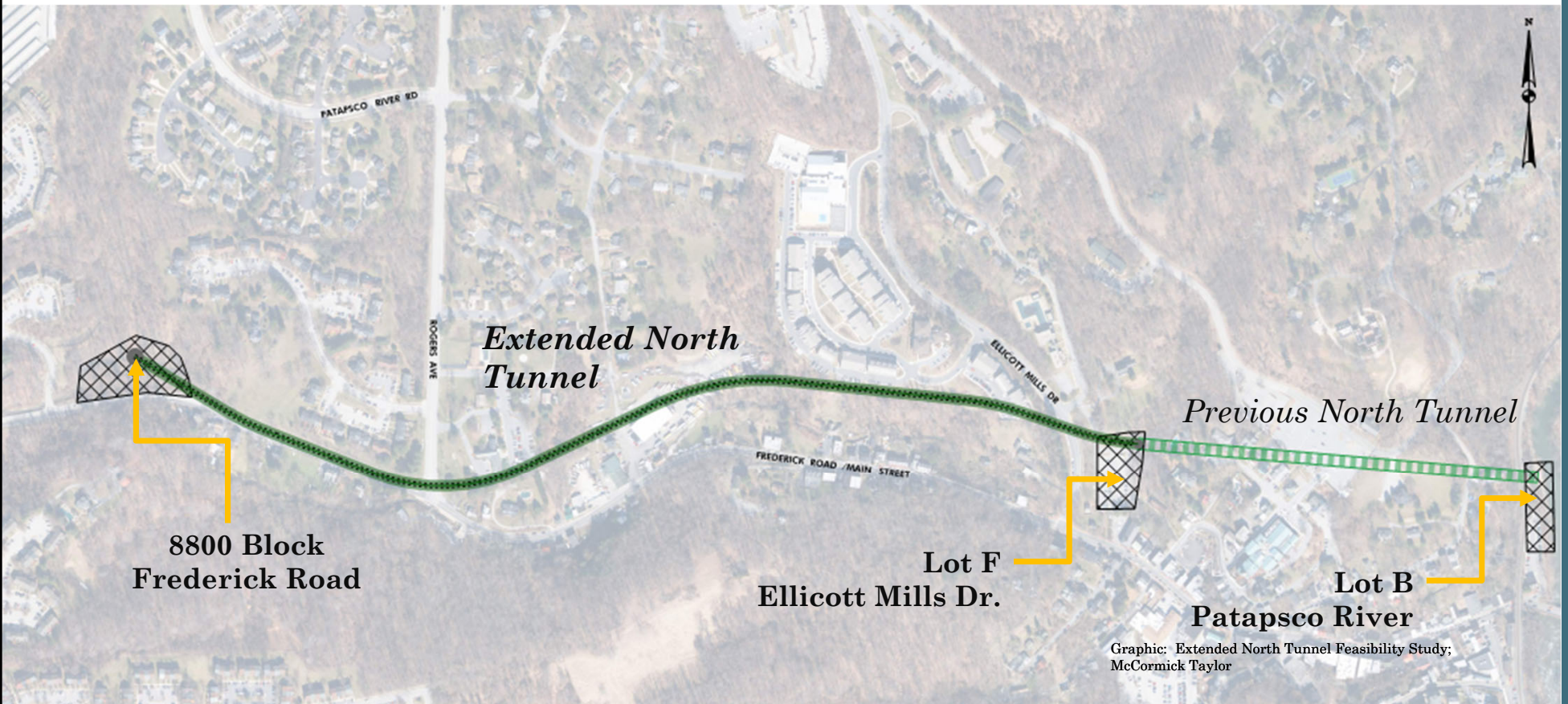
- Finalizing Final Design Scope & Fee
- Solicitation for Owner's Representative
- Ongoing CSX Engagement

Next Steps:

- Solicit for Construction Manager at Risk (CMAR)
- Finalize selection of Owner's Representative
- Engage property owners



EC Safe & Sound – Extended North Tunnel



EC Safe & Sound – H-7

A 13-acre-foot dry flood mitigation pond located in the US 40/US 29 interchange

December 2018 Status:

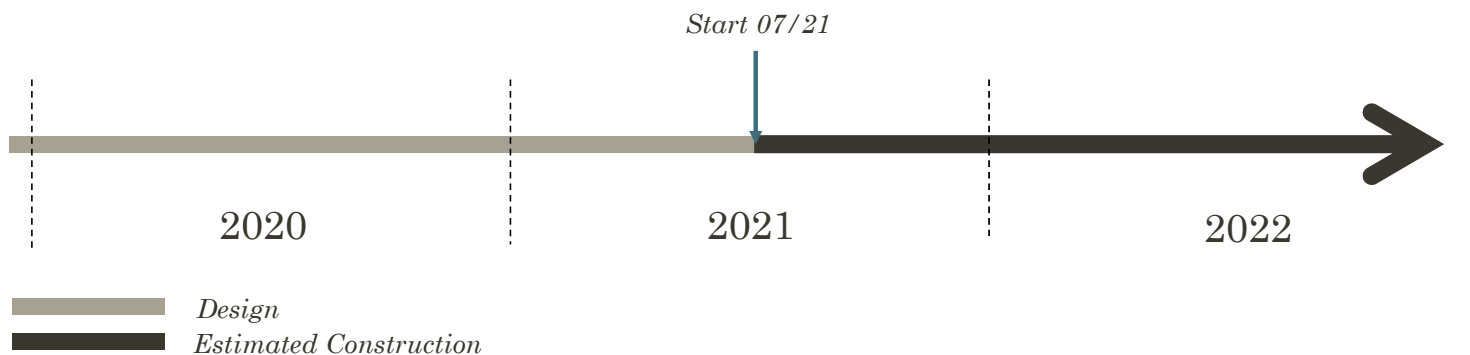
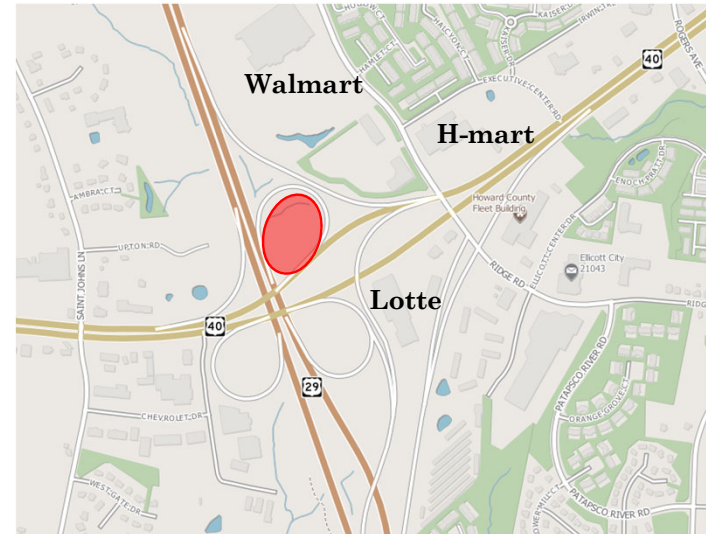
- 65% Design

Recently Completed:

- Secured total funding
- Final Design
- Permitting
- Bid project for construction
- Issued *Notice to Proceed* for construction

Current Status:

- Project Under Construction



EC Safe & Sound – Quaker Mill

A 10-acre-foot dry flood mitigation pond located off Rogers Avenue

December 2018 Status:

- 35% Design

Recently Completed:

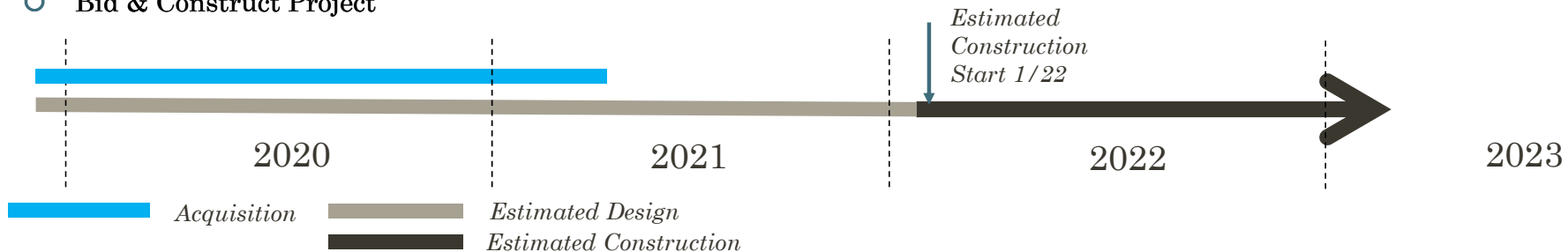
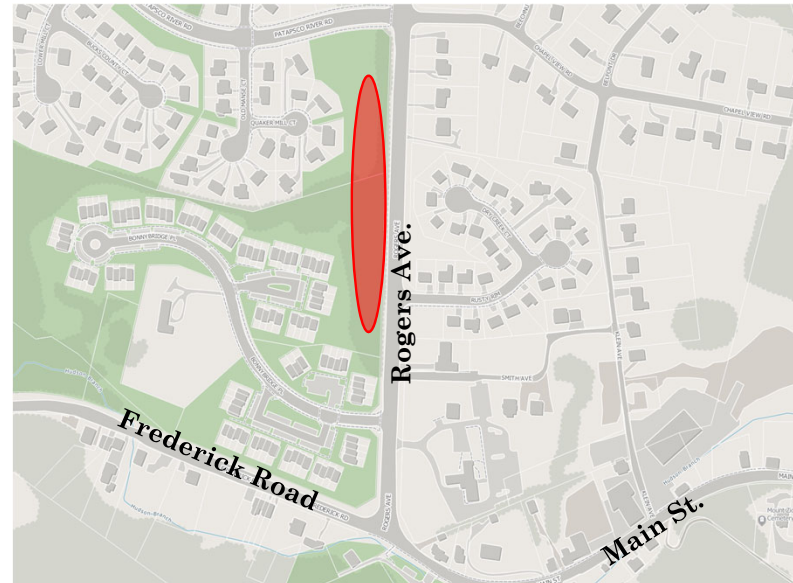
- Final Design
- Acquisition
- Preparing to bid project for construction

Current Status:

- Regulatory Approval
- Permitting
- Final Review of Solicitation Documents

Next Steps:

- Complete permitting
- Bid & Construct Project



EC Safe & Sound – Maryland Avenue Culvert

A culvert installed under Maryland Avenue connecting the Tiber-Hudson to the Patapsco

December 2018 Status:

- Preliminary Design

Recently Completed:

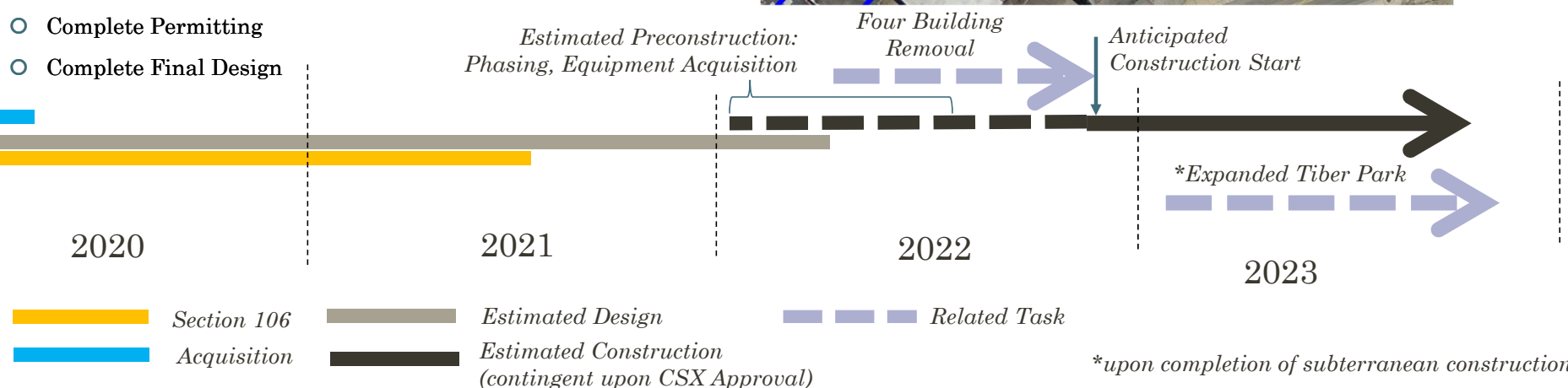
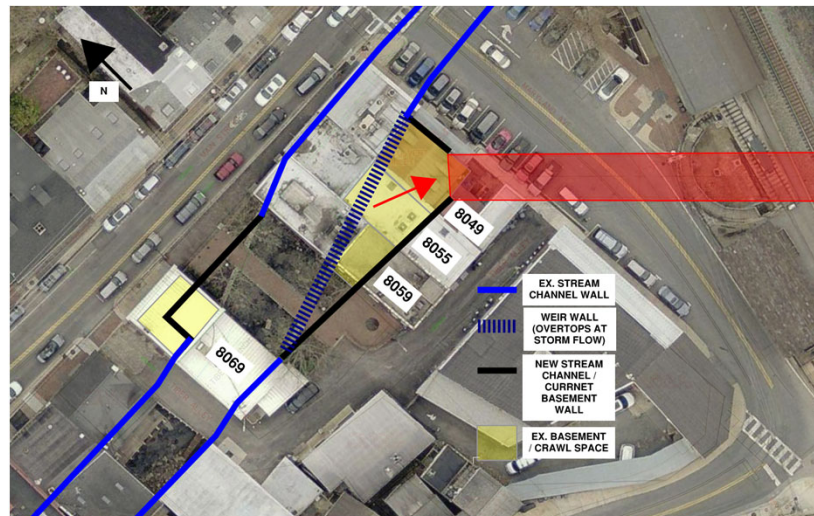
- Historic Preservation Commission conditional approval
- Funding secured

Current Status:

- 90% Design Review
- Ongoing CSX Engagement
- Permitting

Next Steps:

- Solicit for Construction Manager at Risk (CMAR)
- Complete Permitting
- Complete Final Design



EC Safe & Sound – NC-3

A 63-acre-foot dry flood mitigation pond located the Autumn Branch in the New Cut watershed

Recently Completed:

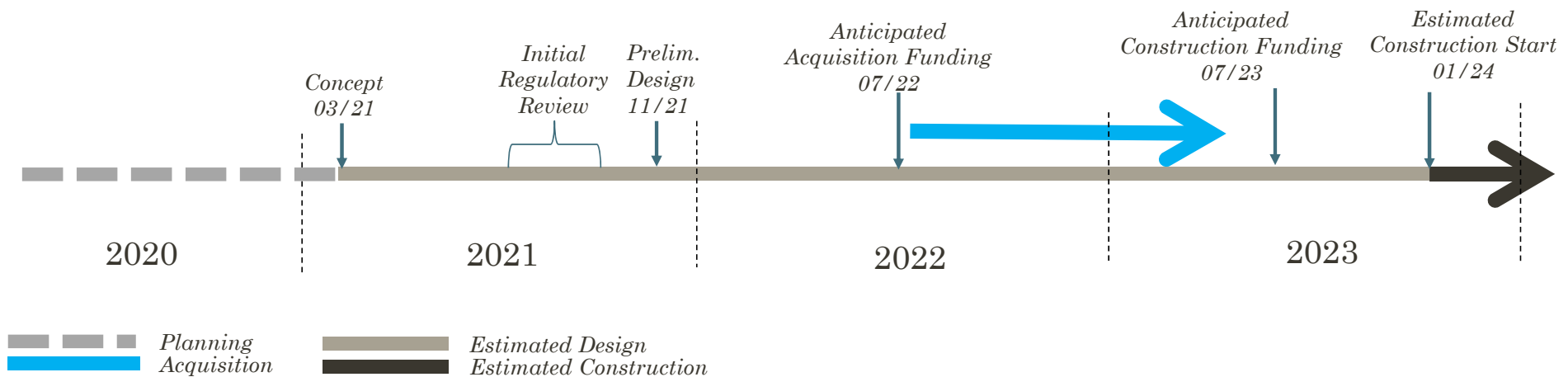
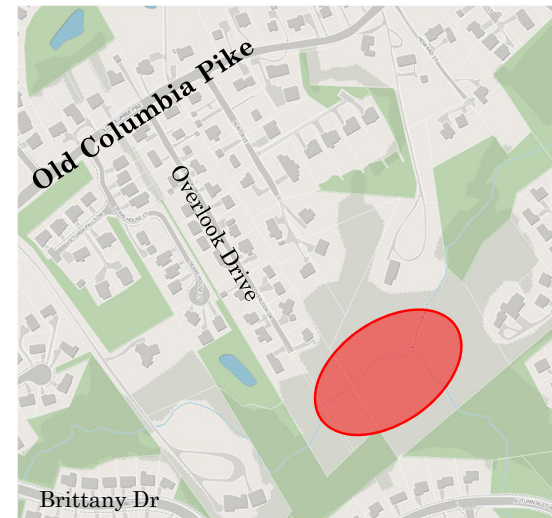
- Concept Design

Current Status:

- Regulatory review
- Engage property owners
- Design scope and fee development

Next Steps:

- Preliminary Design
- Acquisitions



EC Safe & Sound – H-4

A 15.6-acre-foot dry flood mitigation pond

Recently Completed:

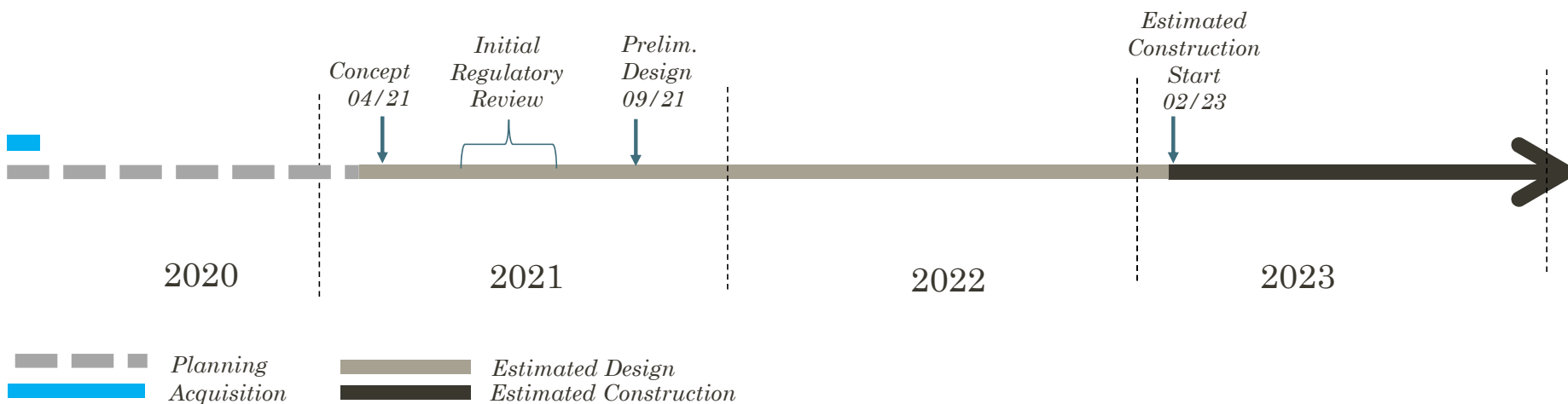
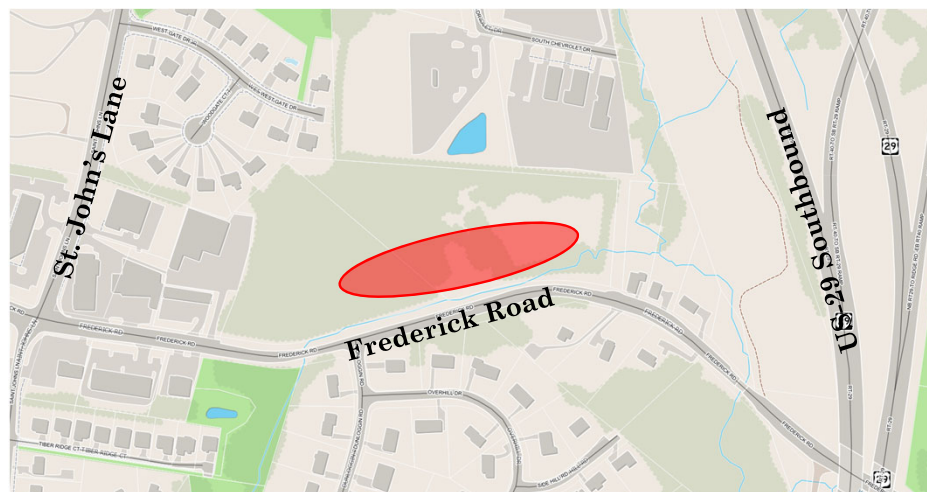
- Concept Design
- Secured Funding

Current Status:

- Regulatory review
- Design scope and fee development

Next Steps:

- Preliminary Design



EC Safe & Sound – T-1

A 70-acre-foot dry flood mitigation pond located on the Tiber tributary

December 2018 Status:

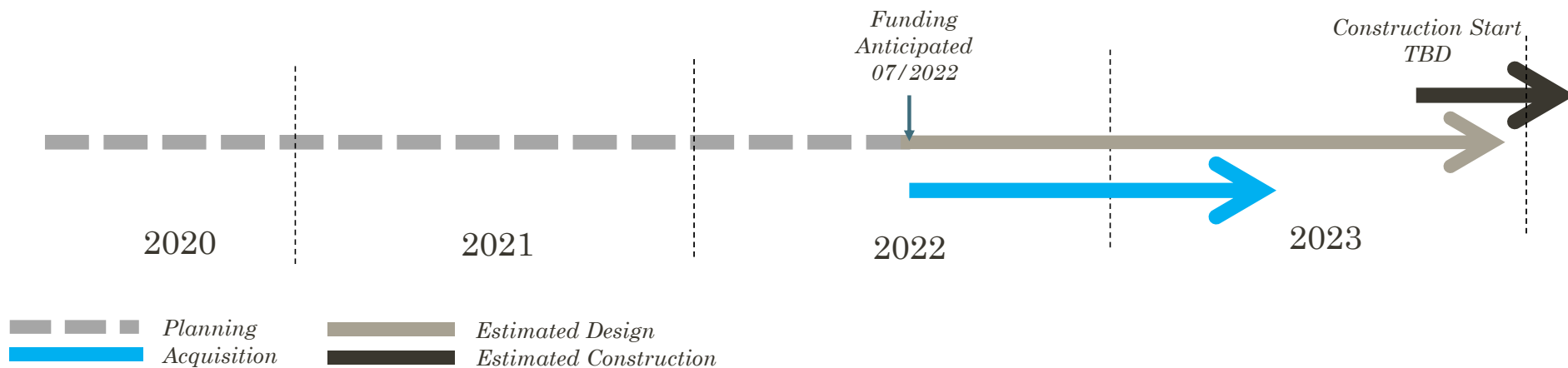
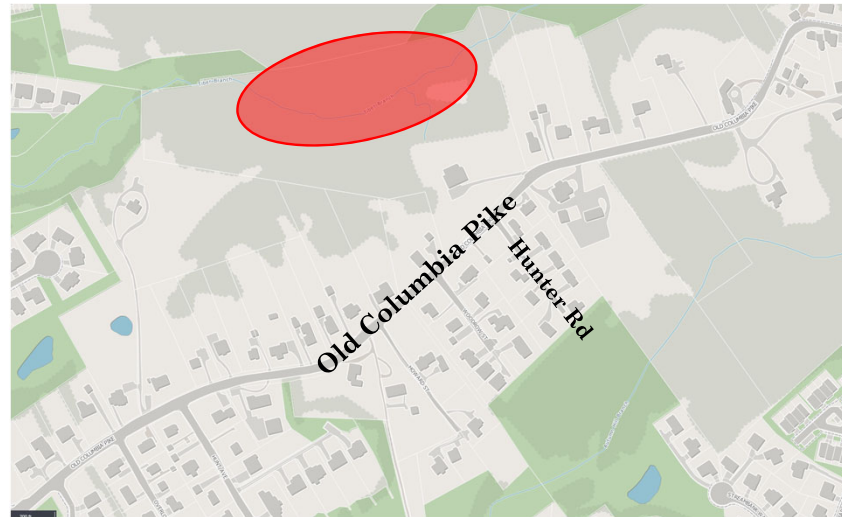
- Concept Only

Current Status:

- Continuing to analyze potential project delivery methods

Next Steps:

- Select project delivery method



Associated Projects

Six Building Partial Removal

Removal of the rear section of 8085, 8095, 8111-8113 and 8125 Main Street to alleviate constrictions above channel

Recently Completed:

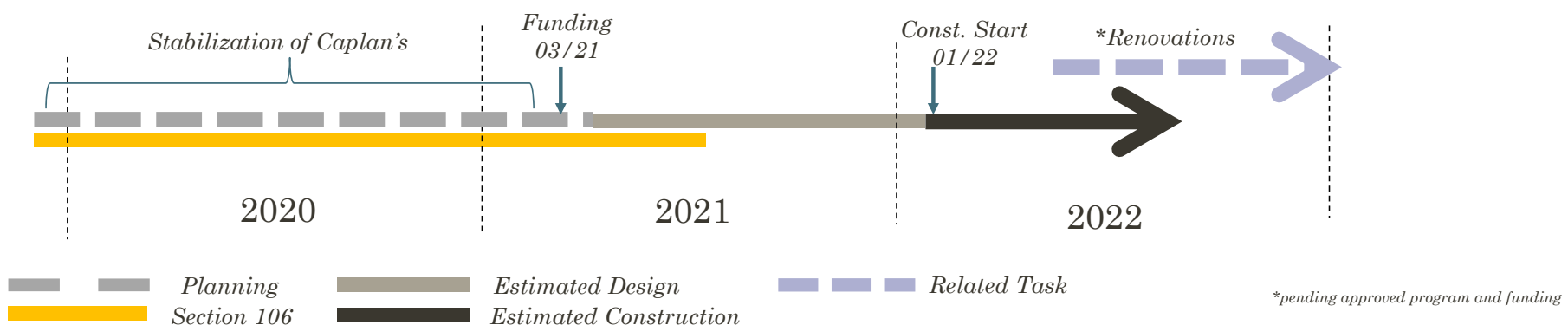
- Removal of rear of 8125 Caplan's

Current Status:

- Finalizing Code & Use Study
- Commencing Schematic Design for rear removals
- Section 106

Next Steps:

- Regulatory Approval (HPC, MHT)
- Complete Schematic Design



Four Building Removal

Removal of 8049, 8055, 8059 & 8069 Main Street to facilitate Maryland Avenue Culvert

Recently Completed:

- HPC Conditional Approval
- Final Design
- Hazardous Material Assessment

Current Status:

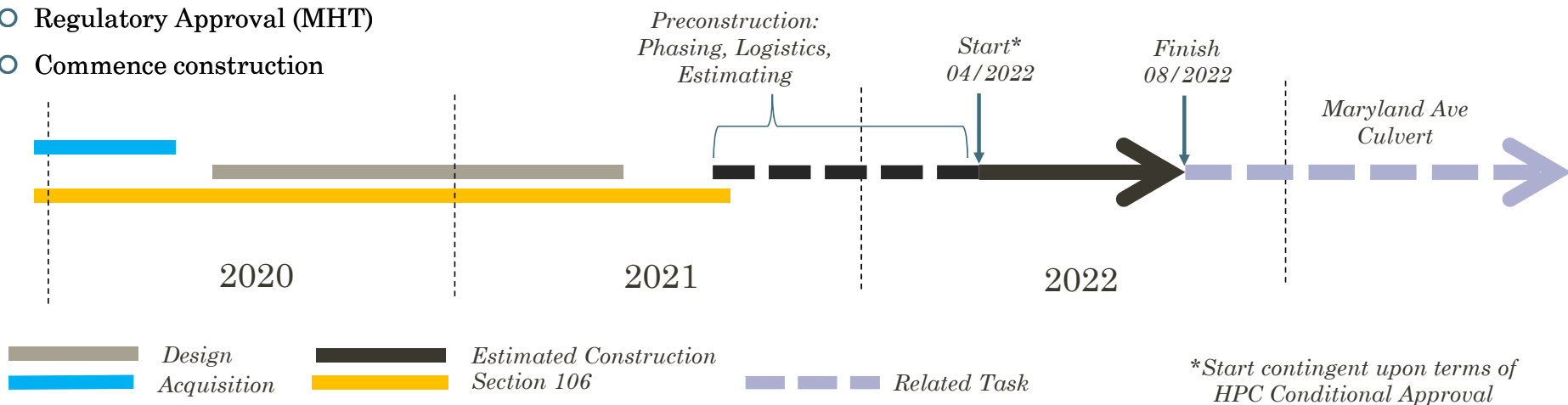
- Preconstruction Review
- Construction pricing
- Section 106

Next Steps:

- Regulatory Approval (MHT)
- Commence construction



Remove / Salvage	Remove	Remove / Salvage	Remove / Salvage
Phoenix Emporium 8049 Main St. Brick: c. 1851 Frame: c. 1870s	Discoveries 8055 Main St. Block: c. 1920s-30s	Bean Hollow 8059 Main St. Stone & Frame: c. 1930s	Great Panes 8069 Main St. Brick & Stone: c. 1841



Section 106 Process

Federally led review of the effects of the EC Safe and Sound Plan on historic properties

Recently Completed:

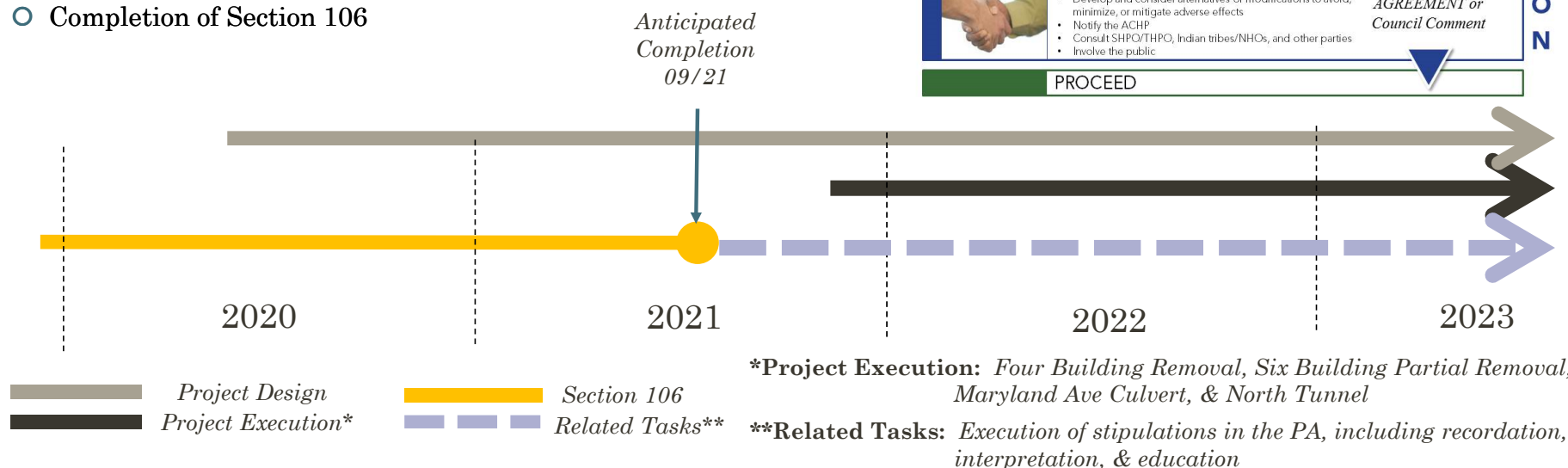
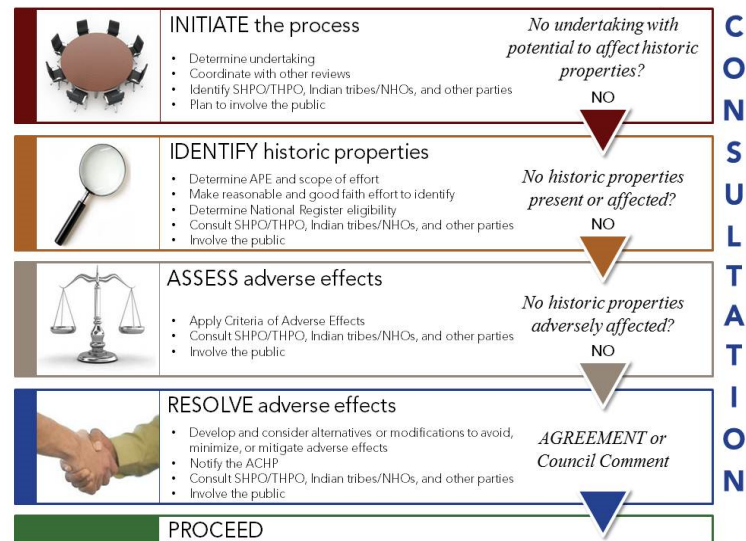
- Second Consulting Party Meeting
- Review of draft Programmatic Agreement by MHT, USACE & ACHP

Current Status:

- Finalizing Programmatic Agreement (PA)

Next Steps:

- Circulate PA for Signature
- Completion of Section 106



Tiber Park Expansion

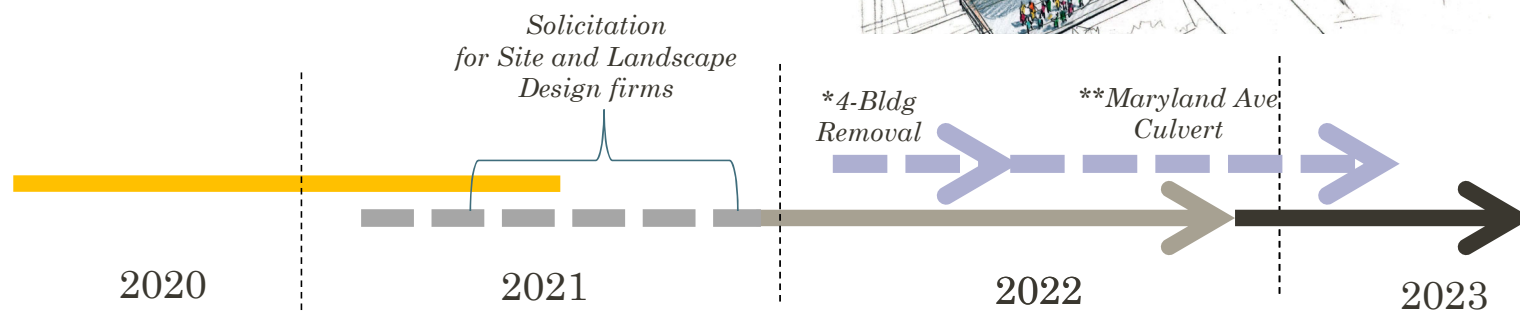
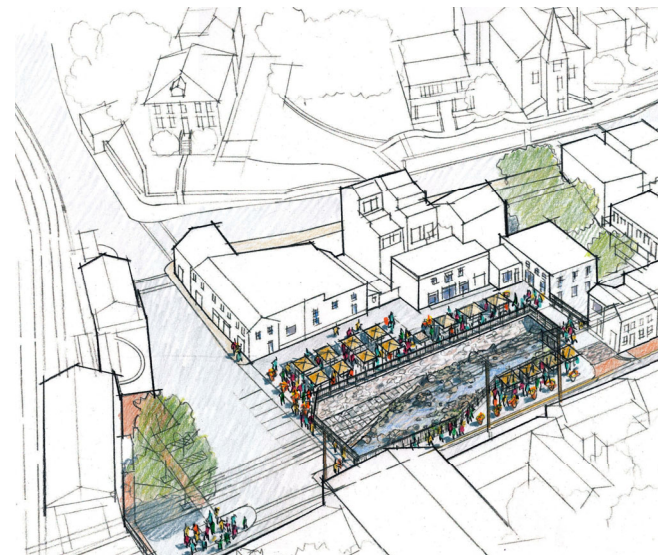
Activated pedestrian square at the intersection of Maryland Avenue & Main Street

Current Status:

- Issued Expression of Interest (EOI) to solicit *Site and Landscape Design* firms

Next Steps:

- Evaluate EOI respondents
- Design Scope and Fee Development



■ Planning
■ Section 106
■ Estimated Design
■ Estimated Construction
■ Related Task

*Completion prior to Maryland Ave Culvert
** Construction Start and completion dates dependent on start of Maryland Ave. Culvert

Sediment Study

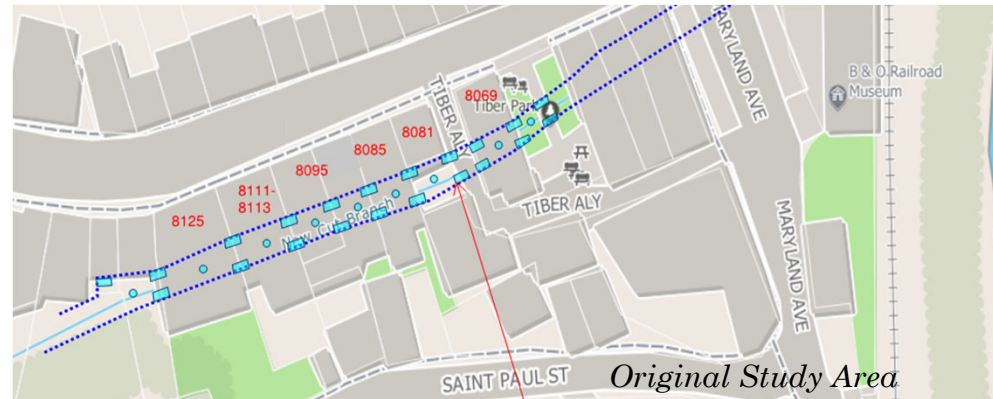
A study to ascertain the potential accumulation of sediment within the Tiber-Hudson stream channel network

Background:

- Undertaken to determine the overall accumulation of sediment, or bedload, within the channel
- Whether removal of that material would be both feasible and hydraulically beneficial.
- Analysis of four study areas

Process:

- Field work to determine depth of rock below sediment
- Review of bearing condition of channel walls
- Analysis of findings, including modeling of data (H&H Model)
- Summary of Findings



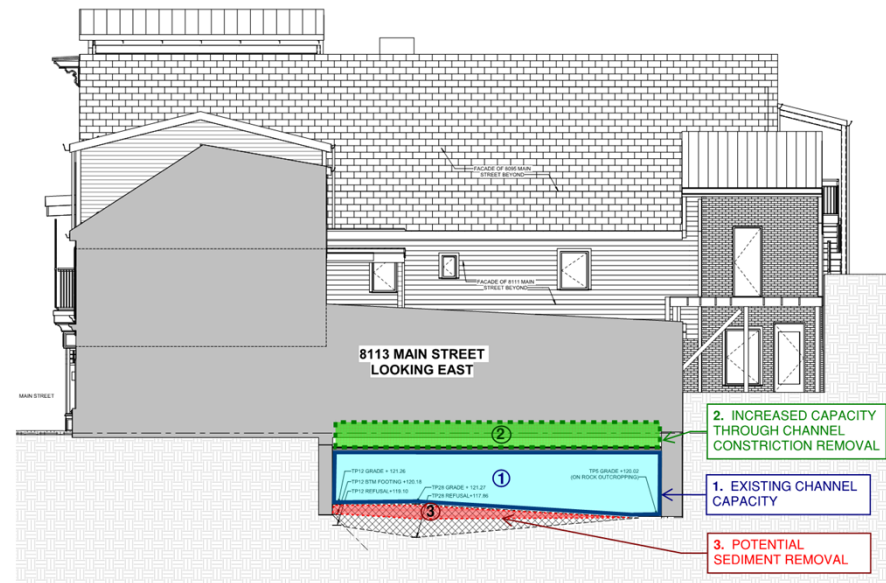
Sediment Study

A study to ascertain the potential accumulation of sediment within the Tiber-Hudson stream channel network

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.



Profile of Stream Channel @ 8111-8113 Main Street

Station Breakouts

- **North Tunnel:**

- Dave Corkum (McMillen Jacobs) & Mark DeLuca (DPW Environmental Services)

- **Maryland Avenue Culvert & Sediment Study:**

- Andy McLean (McCormick Taylor), Brian Cleary & Zach Hollenbeck (DPW Environmental Services)

- **Buildings and Tiber Park:**

- Chelci Dell (SGH), Sharon Walsh (DPW Facilities) & Bob Linz (Rec & Parks)

- **Quaker Mill:**

- Mark Richmond (DPW Environmental Services)

- **H-7 & NC-3:**

- Greg Adolph (McCormick Taylor) & Avinash Dewani (DPW Environmental Services)

- **WIFIA:**

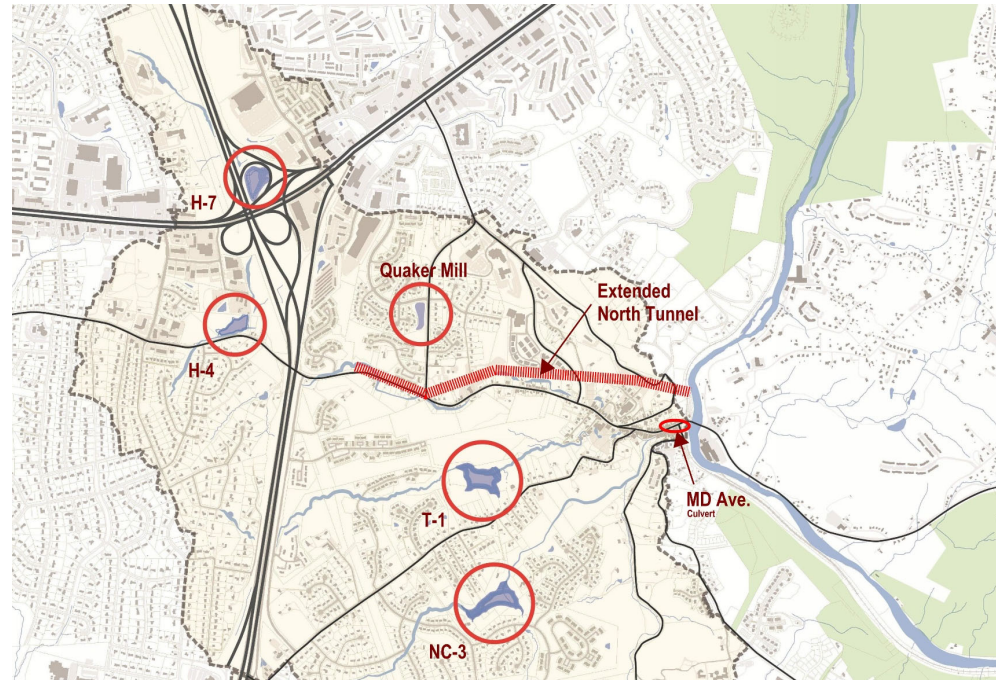
- Zack Karson (REBEL), Rafiu Ighile & John Vu (Finance)

- **H-4 & T-1:**

- Ryan Thomas (Century) & Michele Monde (DPW Environmental Services)

Meeting Logistics

*County Consultants & Staff
are available for questions
and answers at project
stations until 7:30 PM.*



Additional questions or comments may be sent to
ecsafesound@howardcountymd.gov

Thank you for attending!

THANK YOU!

