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 of and review of application
- Approval of Loan

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2020
- Letter of Interest Submitted 10/20

2021
- Invitation to Apply Received 1/21
- Application
- Funding Authorization 07/21
- Anticipated Application Submission 09/21

2022
- Anticipated Loan Closing 09/22

Project Execution
- Loan Closing + 5 Years (Primarily supporting North Tunnel)

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Planning
Project Execution
Finalize Application
Application Review
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

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Estimated Preconstruction: Utility Relocations Equip. Mobilization

Estimated Start 11/22
EC Safe & Sound – Extended North Tunnel

Extended North Tunnel

Patapsco River

8800 Block Frederick Road

Lot F Ellicott Mills Dr.

Lot B

Previous North Tunnel

Graphic: Extended North Tunnel Feasibility Study; McCormick Taylor
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

Start 07/21

2020
2021
2022

Design
Estimated 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

Estimated Construction Start 1/22
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

Estimated Preconstruction: Phasing, Equipment Acquisition

Four Building Removal

Anticipated Construction Start

*Expanded Tiber Park

* upon completion of subterranean construction

2020 2021 2022 2023

Section 106 Acquisition

Estimated Design

Estimated Construction (contingent upon CSX Approval)
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

2020  2021  2022  2023

- Concept 03/21
- Initial Regulatory Review
- Prelim. Design 11/21
- Anticipated Acquisition Funding 07/22
- Anticipated Construction Funding 07/23
- Estimated Construction Start 01/24

Planning Acquisition  Estimated Design  Estimated Construction
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

- Concept 04/21
- Initial Regulatory Review
- Prelim. Design 09/21
- Estimated Construction Start 02/23
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

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<th>Year</th>
<th>Planning</th>
<th>Acquisition</th>
<th>Estimated Design</th>
<th>Estimated Construction</th>
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<td>Construction Start TBD</td>
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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

Stabilization of Caplan’s
Funding 03/21
Const. Start 01/22
*Renovations

2020
2021
2022

Planning
Section 106
Estimated Design
Estimated Construction
Related Task

*pending approved program and funding
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

*Start contingent upon terms of HPC Conditional Approval
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

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**INITIATE the process**
- Determine undertaking
- Coordinate with other parties
- Identify SHPOs, IHS, Indian tribes/NHOs, and other parties
- Plan to involve the public

**IDENTIFY historic properties**
- Determine APE and scope of effort
- Make reasonable and good faith effort to identify
- Determine National Register eligibility
- Consult SHPOs, IHS, Indian tribes/NHOs, and other parties
- Involve the public

**ASSESS adverse effects**
- Apply Criteria of Adverse Effects
- Consult SHPOs, IHS, Indian tribes/NHOs, and other parties
- Involve the public

**RESOLVE adverse effects**
- Develop and consider alternatives or modifications to avoid, minimize, or mitigate adverse effects
- Notify the ACHP
- Consult SHPOs, IHS, Indian tribes/NHOs, and other parties
- Involve the public

**AGREEMENT or Council Comment**

**Anticipated Completion 09/21**

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**Project Execution:** Four Building Removal, Six Building Partial Removal, Maryland Ave Culvert, & North Tunnel

**Related Tasks:** Execution of stipulations in the PA, including recordation, interpretation, & education
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

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<th>Estimated Design</th>
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*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.
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)
County Consultants & Staff are available for questions and answers at project stations until 7:30 PM.

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

Thank you for attending!
THANK YOU!