







Agenda



- 1 Introduction
 - ² General Project Overview
 - 3 Potential Mitigation Measures
 - 4 Public Engagement Process
 - 5 Next Steps
 - 6 Questions & Answer

Housekeeping



- Session is being recorded and will be posted to EngagePGH website
- Using the Chat Feature to ask questions
- Dedicated Q&A Segments after presentation
- Special Accommodations

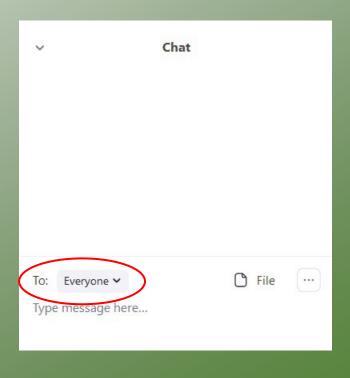


Technical Difficulties? - Chat Chad Williams



Joining by phone? - *6 - Toggle mute/unmute

*9 - Raise hand



Project Team





City of Pittsburgh,
Department of Mobility
and Infrastructure
(DOMI)



Pennsylvania Emergency Management Agency (PEMA)



Federal Emergency
Management Agency
(FEMA)

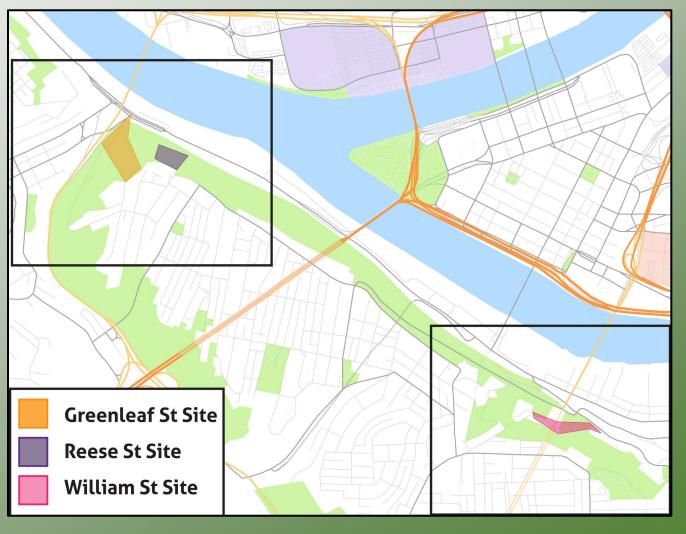


General Overview



- Three Areas on Mt Washington
 - William St
 - Greenleaf St
 - Reese St (CBS Tower)
- Design and construct mitigation solutions

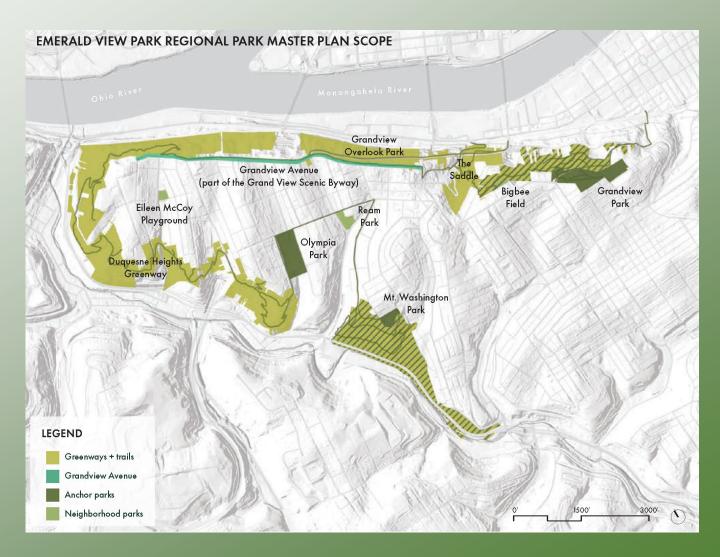




Goals

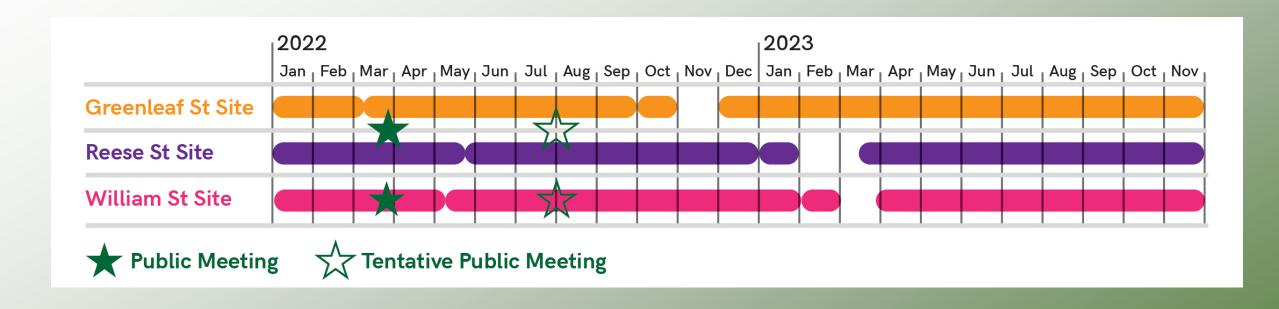


- Stabilize selected slopes to protect
 - Roadways
 - Properties
- Stabilize selected roadways
- Enhance the intersection Cola St & William St
- Consider Emerald
 Park Master Plan (EPMP)



General Project Timeline





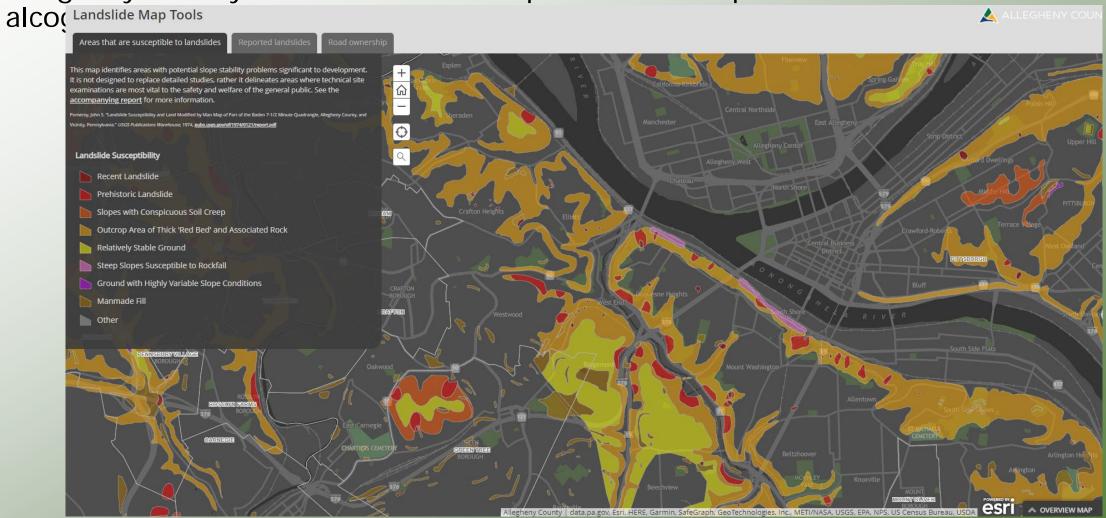
Three Project Phases: Preliminary Design; Final Design; Bid/Construction

Duration: January 2022 through November 2023

Landslide Potential



Allegheny County Landslide Portal: https://landslide-portal-



Site History



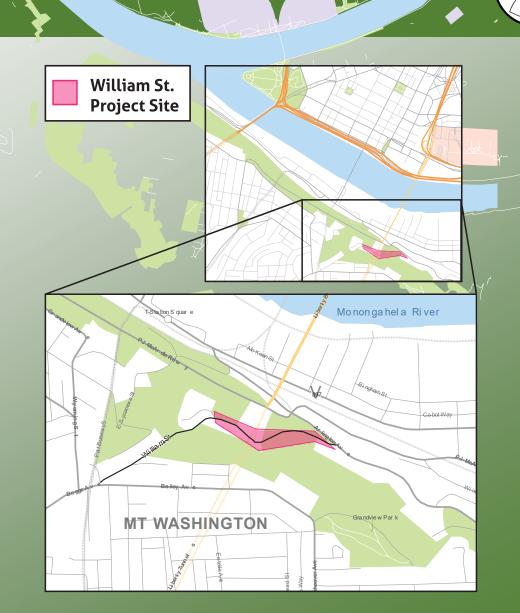
- Mt. Washington slopes very steep terrain
- Development occurs along the face of the slope supporting steel and tourism industry
- Significant landslides occur periodically





William Street

- Traverses Mt. Washington from Arlington Ave to Bailey Ave.
- Crosses over Liberty Tunnel
- Parallels PJ McArdle Roadway



William Street





William Street - Site Plan



Several slides

Remediation Areas

- Cola St Turn
- Central Portion
- 137 Driveway
- Lower Portion –
 Repairs
- Lower Portion –
 Additional Work
- PJ McArdle



William Street – Current Slides











Remediation Concepts



Single Concept Areas

- Cola St Turn Install retaining wall
- 137 Driveway Adjustment
- Lower William Retaining wall above Arlington
- McArdle Roadway Rock catchment zone on slope

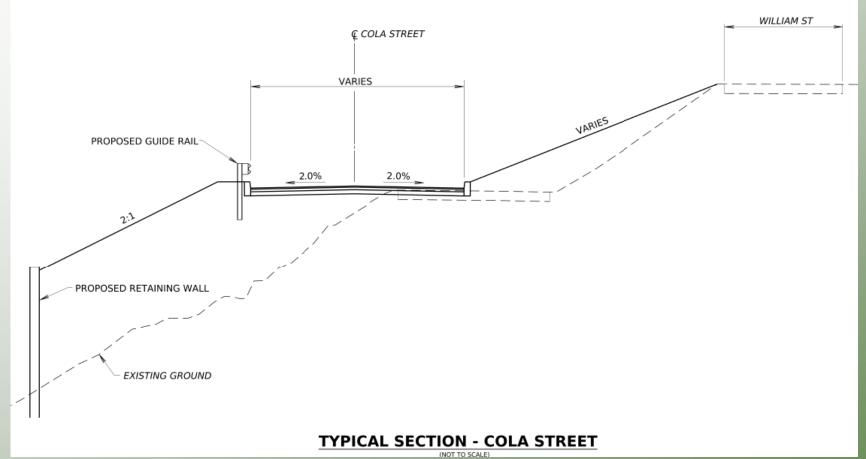
Central Portion over Liberty Tunnel Options

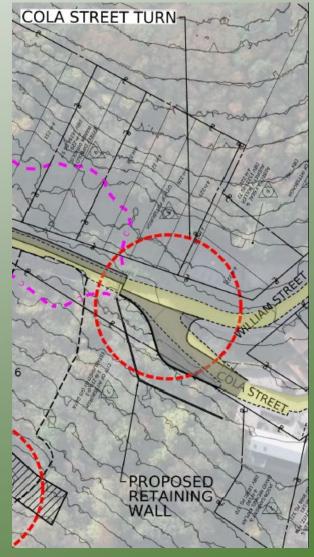
- Single Lane Roadway
- Mixed Use Trail

Cola Street Turn - Proposed



- Install retaining wall to remediate slide
- Improve turning radius for emergency vehicles



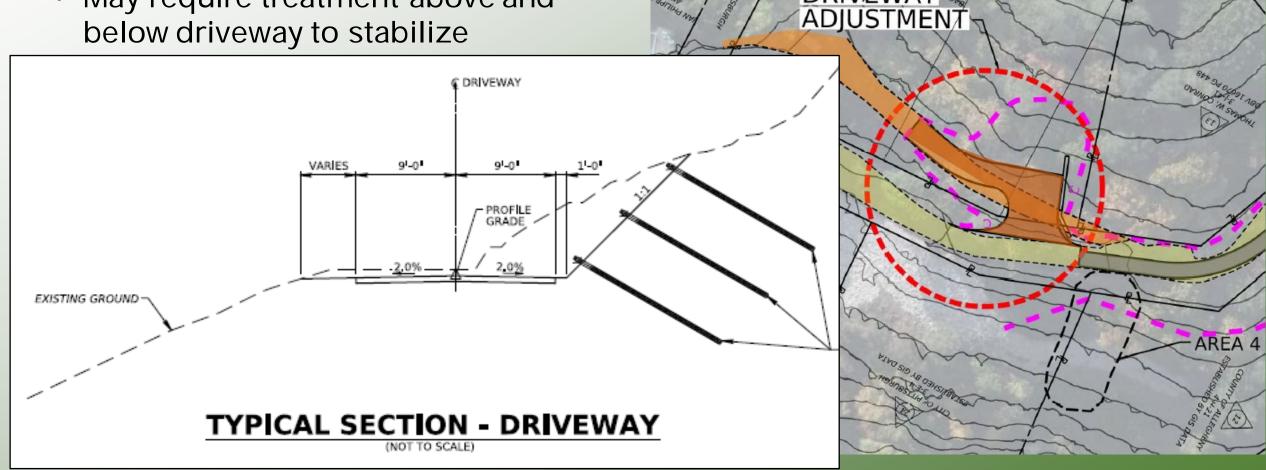


Driveway at 121/137 William Street



Adjust location to avoid slide

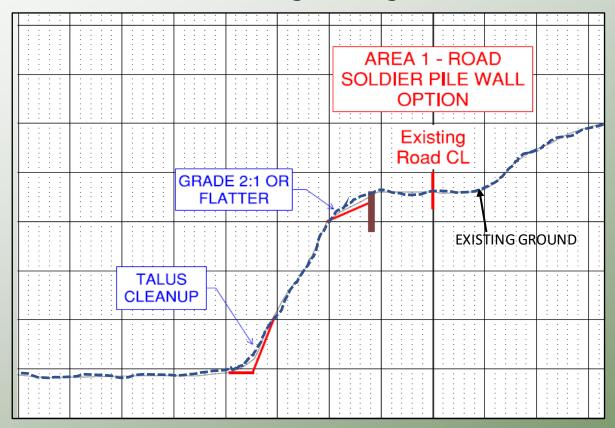
 May require treatment above and below driveway to stabilize

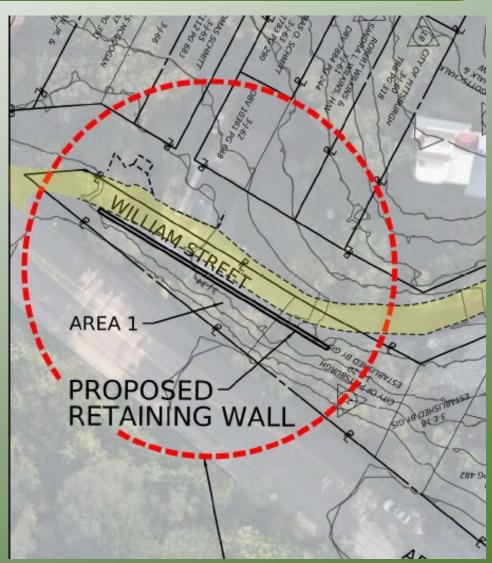


Lower Portion of William Street



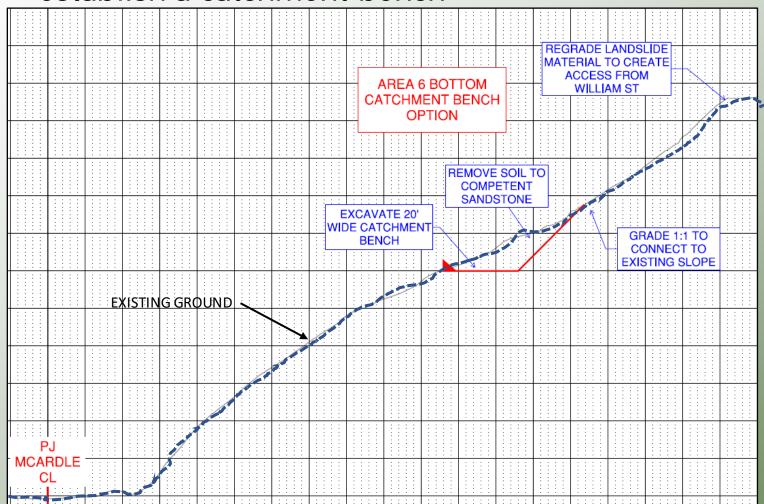
- Retaining wall to maintain existing roadway
- Other options would require utility relocations
- Remove debris along Arlington Sidewalk

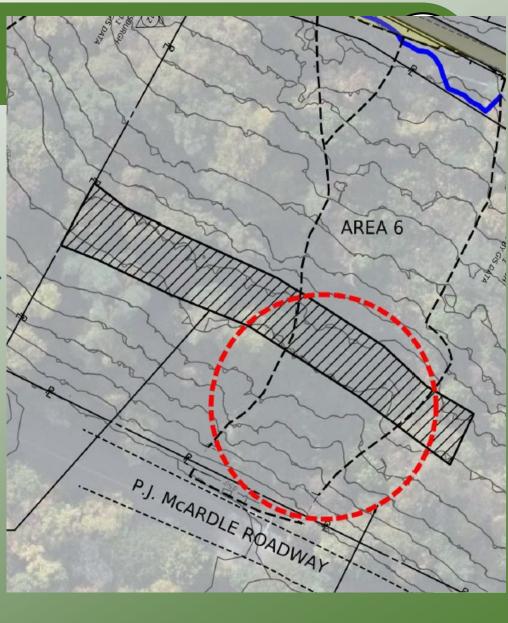




PJ McArdle Roadway

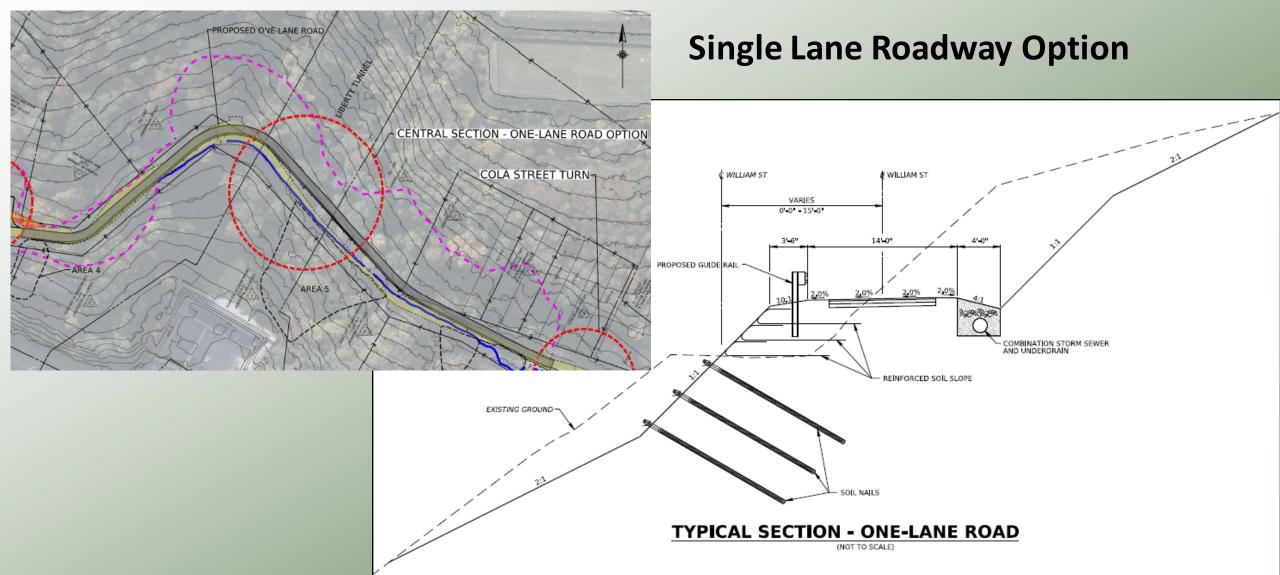
 Excavate slide debris to establish a catchment bench





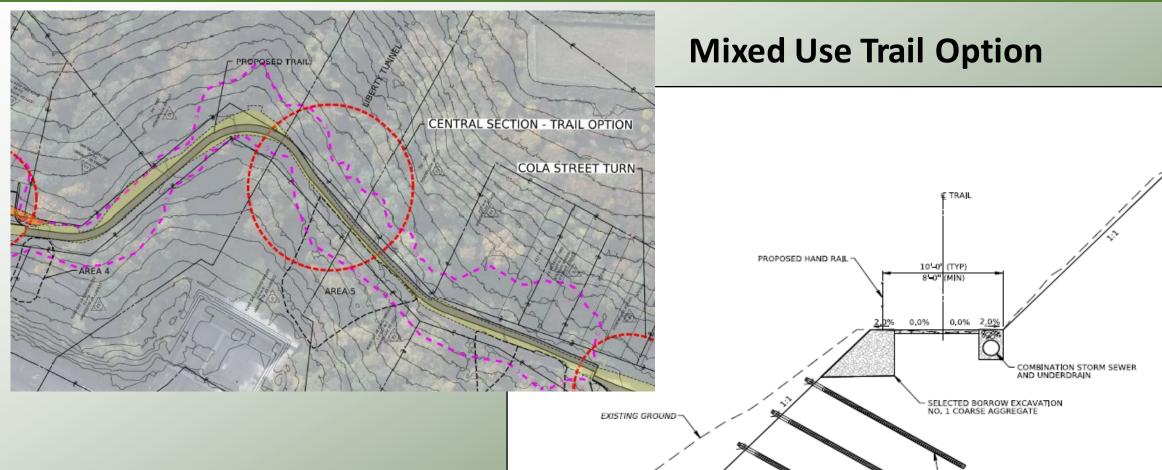
Central Portion over Liberty Tunnel





Central Portion over Liberty Tunnel





Central Portion Comparisons



Single Lane Roadway Option

- Re-establish single through lane traffic
- Requires significant soil excavation in slide prone area – risk
- Requires complex geotechnical and roadway designs to re-establish roadway in the very narrow, steep corridor.
- Additional geotechnical stabilization cost \$1.25M vs. Trail

Mixed Use Trail Option

- Improves safety of narrow corridor for vehicles vs. pedestrians/cyclists
- Less negative impact from vehicle traffic
- Reduced earth disturbance for remediation of slides
- Design geometry more flexible
- Potential connection to Emerald View Park Trail system
- Convenient alternate vehicle route via Sycamore and Wyoming St. nearby

Next Steps



- Field Surveying
- Soil Drilling
- Further develop design concepts
- Briefing with City Council and officials
- Finalize Mitigation Plan Design
- Public Meeting to preview mitigation approach/designs

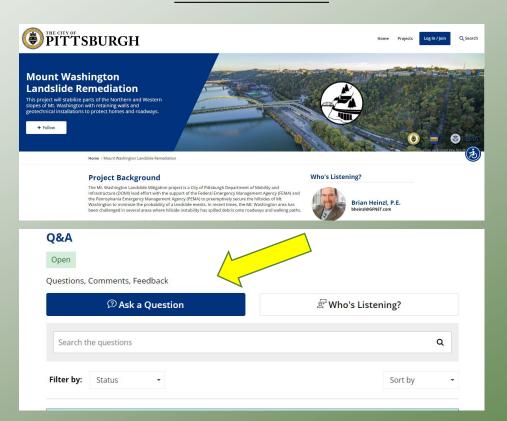
Public Engagement; How You Can Stay Informed





August 2022

EngagePgh Website engage.pittsburghpa.gov/
mount-washington-landslideremediation



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Questions and Answers