



DATE: March 17, 2021
TO: Transportation Commission
FROM: Paul Jesaitis, Region 1 Director
SUBJECT: Floyd Hill Project Update

Purpose

This memorandum provides a status update for the Floyd Hill to Veterans Memorial Tunnel Project, a potential strategy for a phased project delivery, and how portions of the project could be implemented in the near term using Senate Bill 267 Year 3 funding.

Action

No action is required.

Background

The Floyd Hill to Veterans Memorial Project began the preliminary design and NEPA phase in 2017. The project is a Tier II NEPA Project (Environmental Assessment) under the overarching Tier I I-70 Mountain Corridor Record of Decision completed in 2011. The project was developed using a robust Context Sensitive Solutions Process that engaged project stakeholders and the public throughout the design and environmental process. CDOT has completed the preliminary design, the evaluation of alternatives, and is preparing for the release of the Environmental Assessment this spring. A Public Engagement Event will follow the release to collect additional input on the project.

Details

At the March meeting, CDOT staff will provide an overview of the project status, the delivery strategy, and a proposal for the use of SB 267 Year 3 funds to advance early project elements that could be built soon leveraging the funding that is available while CDOT continues to evaluate options for funding for the rest of the project.

The total project cost is estimated at \$700 million (M) but has been broken into the following distinct scope or packages to facilitate delivery incrementally as funds become available for the project. These costs are all-inclusive and include everything from preconstruction through construction.



Package 0: Total cost \$110 M

- Wildlife Crossings - Two wildlife crossings at strategic locations to reduce animal vehicles collisions, improve wildlife connectivity, and to improve safety.
- Roundabouts and Local Transit Improvements - Two new intersection roundabouts to improve community access and operations. Transit improvements that could include upgrades to park and ride locations along US 40 and micromobility shuttles.
- West Project Section Improvements - Widening and partial reconstruction from the Veterans Memorial Tunnel to the Hidden Valley interchange. This work will add a third westbound lane, flatten curves, restore a short section of Clear Creek, and improve safety through the western portion of the project.
- Floyd Hill eastbound I-70 widening and auxiliary lane - Widening in the east portion of the project and addition of an eastbound auxiliary lane up Floyd Hill for heavy moving vehicles to improve operations and mobility.

Package 1: Total Cost \$340 M (Future)

- Westbound widening for third lane from top of Floyd Hill to Hidden Valley Interchange.
- Westbound viaduct structure replacing Bridge Enterprise eligible structure.
- Interchange reconfiguration/improvements at US 6 and I-70.

Package 2: Total Cost \$250 M (Future)

- Eastbound reconstruction and curve flattening from the Hidden Valley Interchange to the top of Floyd Hill.
- Eastbound viaduct structure.
- Frontage road extension from the Hidden Valley Interchange to the US 6 interchange.

This approach remains consistent with the 10-Year Plan strategic pipeline of projects and provides the opportunity to use available funding to complete some of the essential project elements that build toward the entire project without throwaway work.

Timeline

March:
Transportation Commission Workshop - Project Update

April:
TBD

Attachments

Presentation





COLORADO

Department of Transportation

FLOYD HILL PROJECT UPDATE

March 17th, 2021 Transportation Commission



Agenda

- Project Status
- Delivery Strategy (Packages 0, 1, 2)
- Funding and Costs (Packages 0, 1, 2)
- Potential Schedule and Next Steps



Project Status

- Two alternatives evaluated in the Environmental Assessment (EA)
 - Canyon Viaduct Alternative (*Preferred Alternative*)
 - Tunnel Alternative

- Project Status
 - Preliminary design complete (20% Level)
 - EA anticipated to be complete in Spring 2021
 - Project total cost estimated at \$700M (Packages 0, 1, 2)
 - Strong stakeholder and public support
 - Phased implementation delivery strategy





Phased/Packaged Project Delivery Strategy

- Advance Early Improvement Packages with available SB 267 funding
- No throwaway work
- Packages 1 and 2 to build off of Package 0
- Package 0 - Early Improvement Packages - \$110 M
 - Two wildlife crossings
 - Roundabouts
 - Local transit improvements (e.g. micromobility shuttle)
 - West Section (Veterans Memorial Tunnel to Hidden Valley) Rock cuts, curve flattening, stream restoration, and widening
 - East Section (Floyd Hill section) Eastbound I-70 reconstruction and eastbound auxiliary lane for heavy/slow moving vehicles
- Package 1 - Westbound I-70 - \$340 M
- Package 2 - Eastbound I-70 and Frontage Road - \$250 M





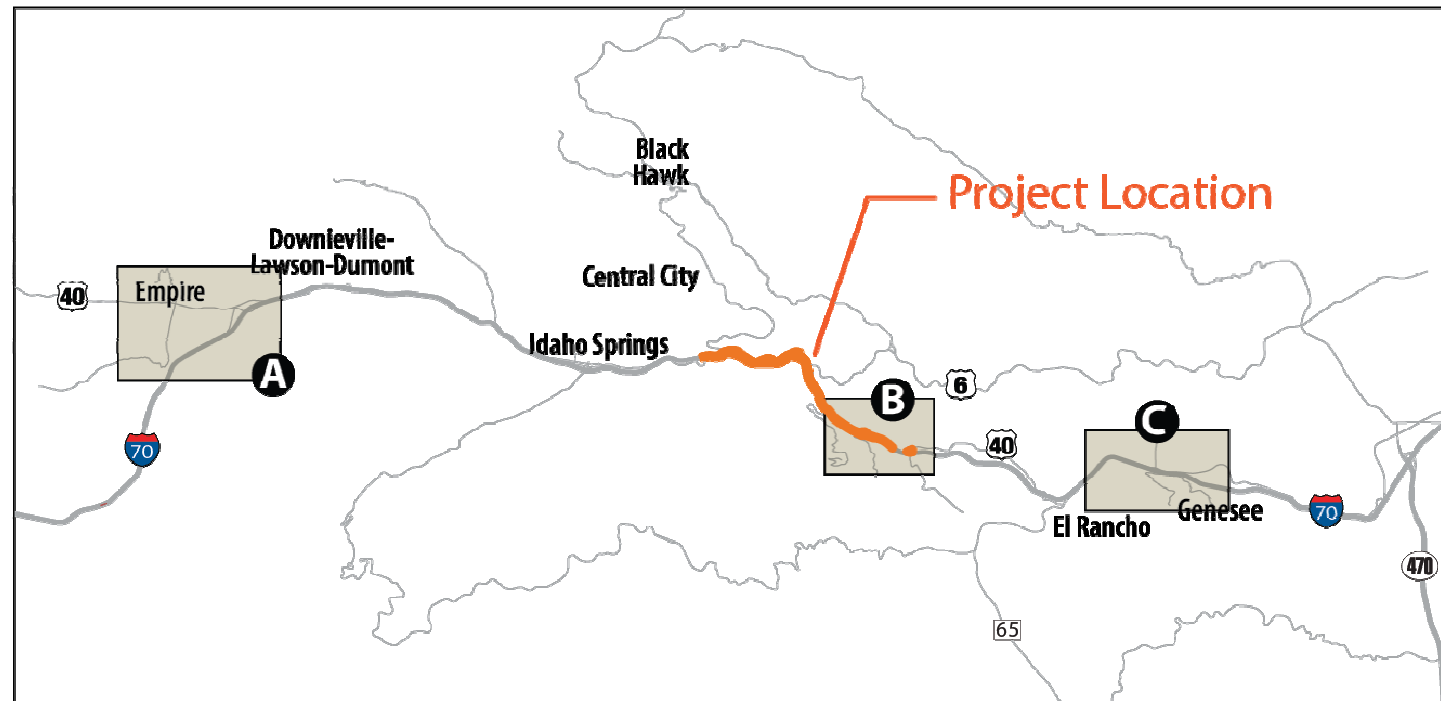
Early Improvement Elements - Package 0

➤ Wildlife Crossings (A,C)

- Reduce wildlife vehicle collisions and improve wildlife connectivity and safety
- Genesee underpass
- Empire overpass

➤ Roundabouts (B)

- Improve community access and operations
- US 40 and Homestead Road
- US 40 and County Road 65





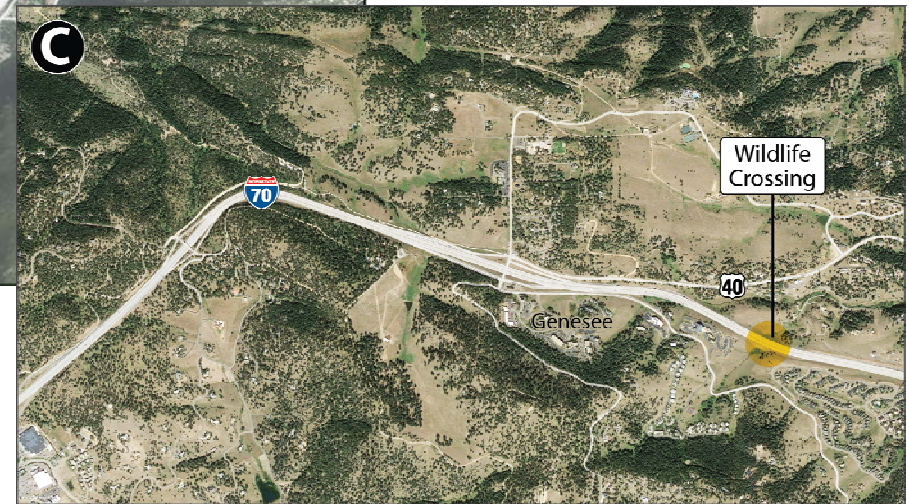
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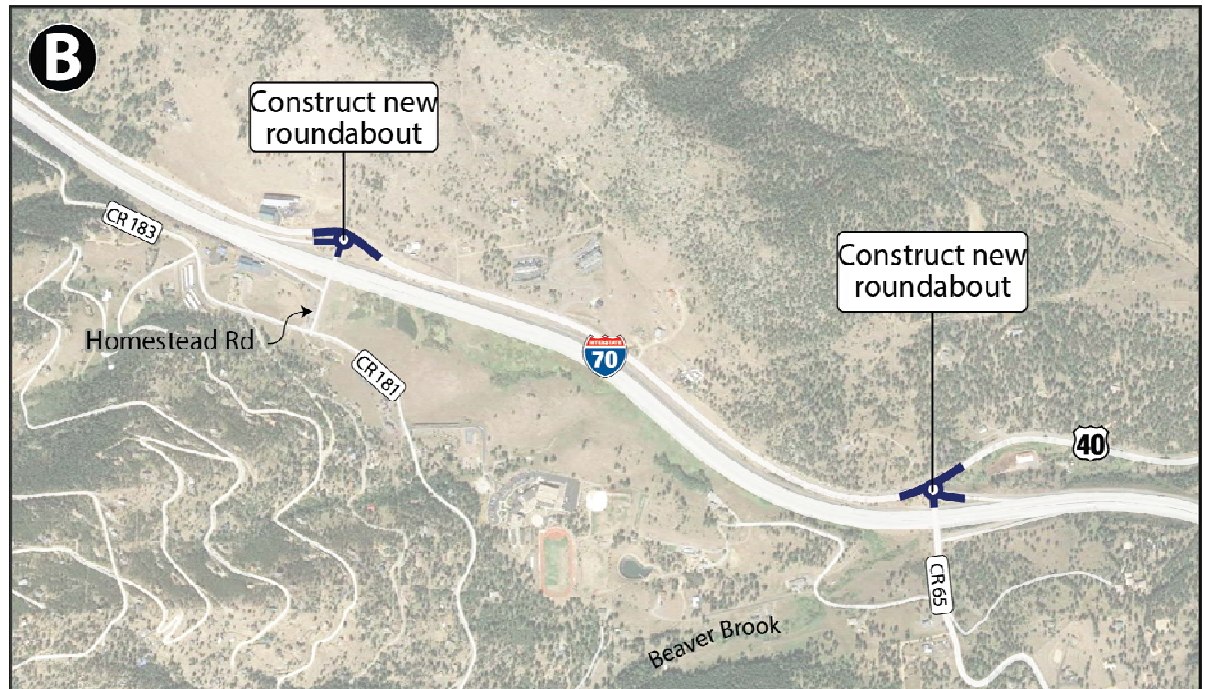
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➤ Roundabouts (B)

- Improve community access and operations
- US 40 and Homestead Road
- US 40 and County Road 65
- Local transit/micromobility





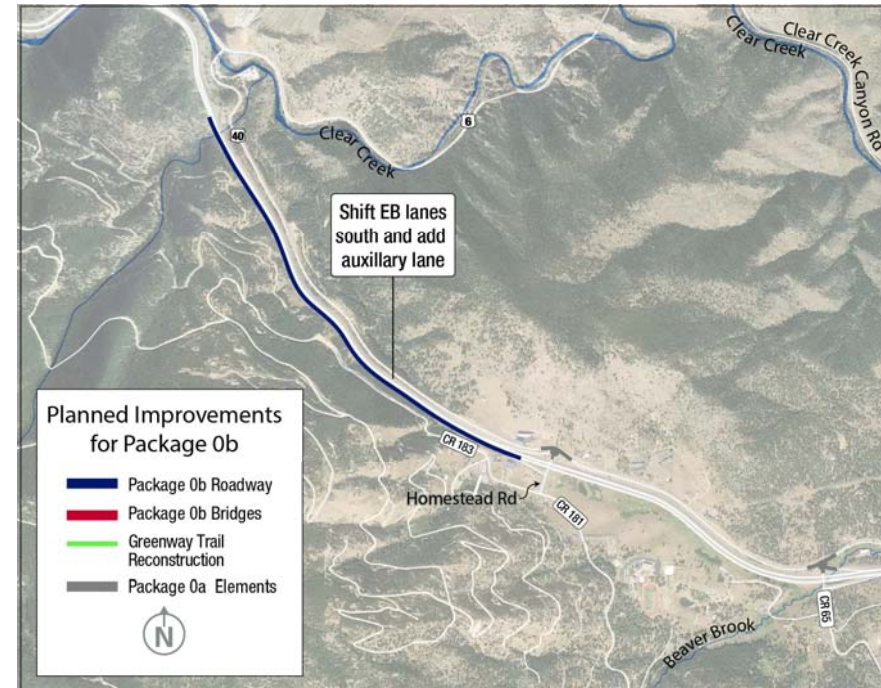
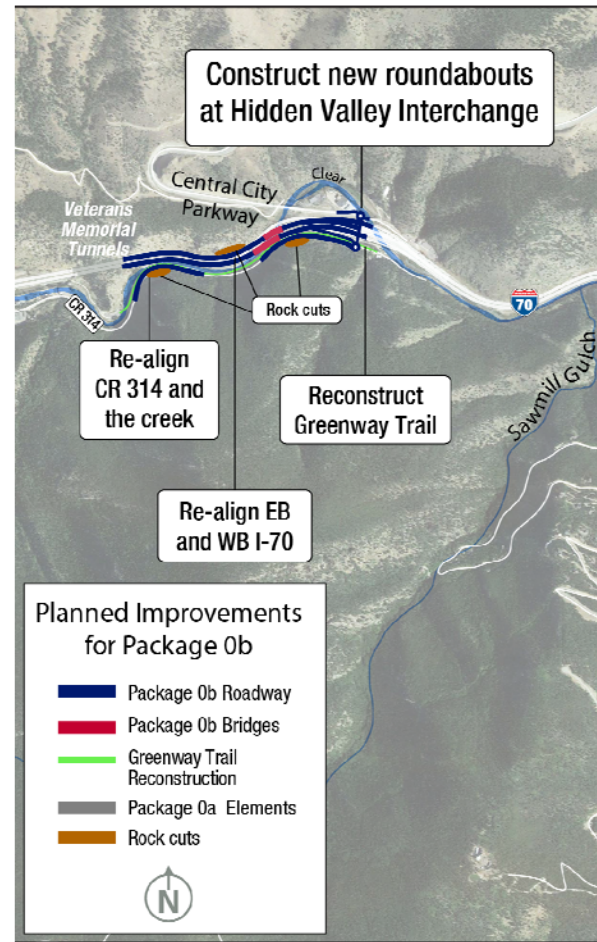
Early Improvement Elements - Package 0

➤ West Section

- Curve flattening
- Rock cuts
- Widening
- Stream restoration
- Hidden Valley Interchange Improvements

➤ East Section

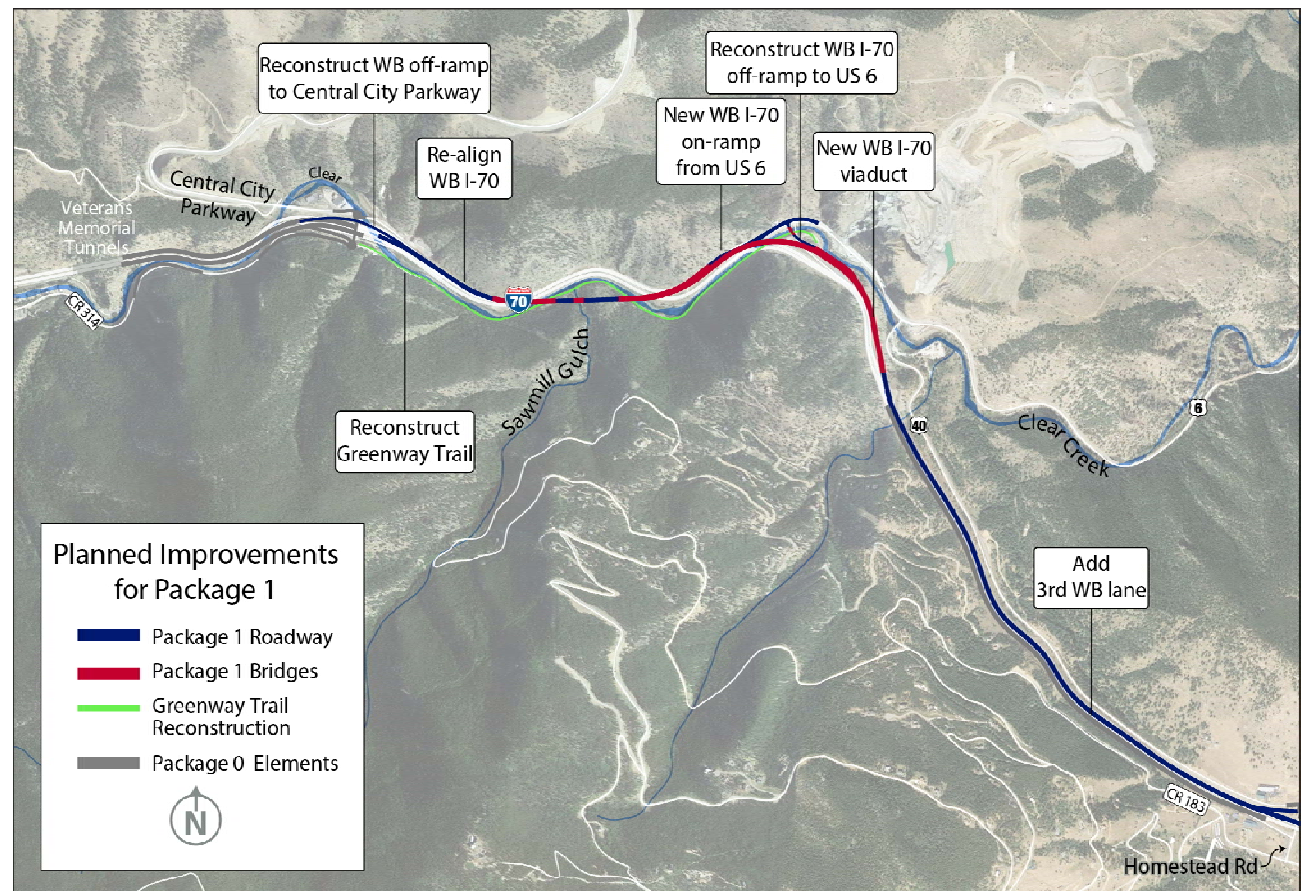
- Shift and reconstruct eastbound I-70 to accommodate westbound widening in Package 1
- Eastbound auxiliary lane





Package 1 Project Elements

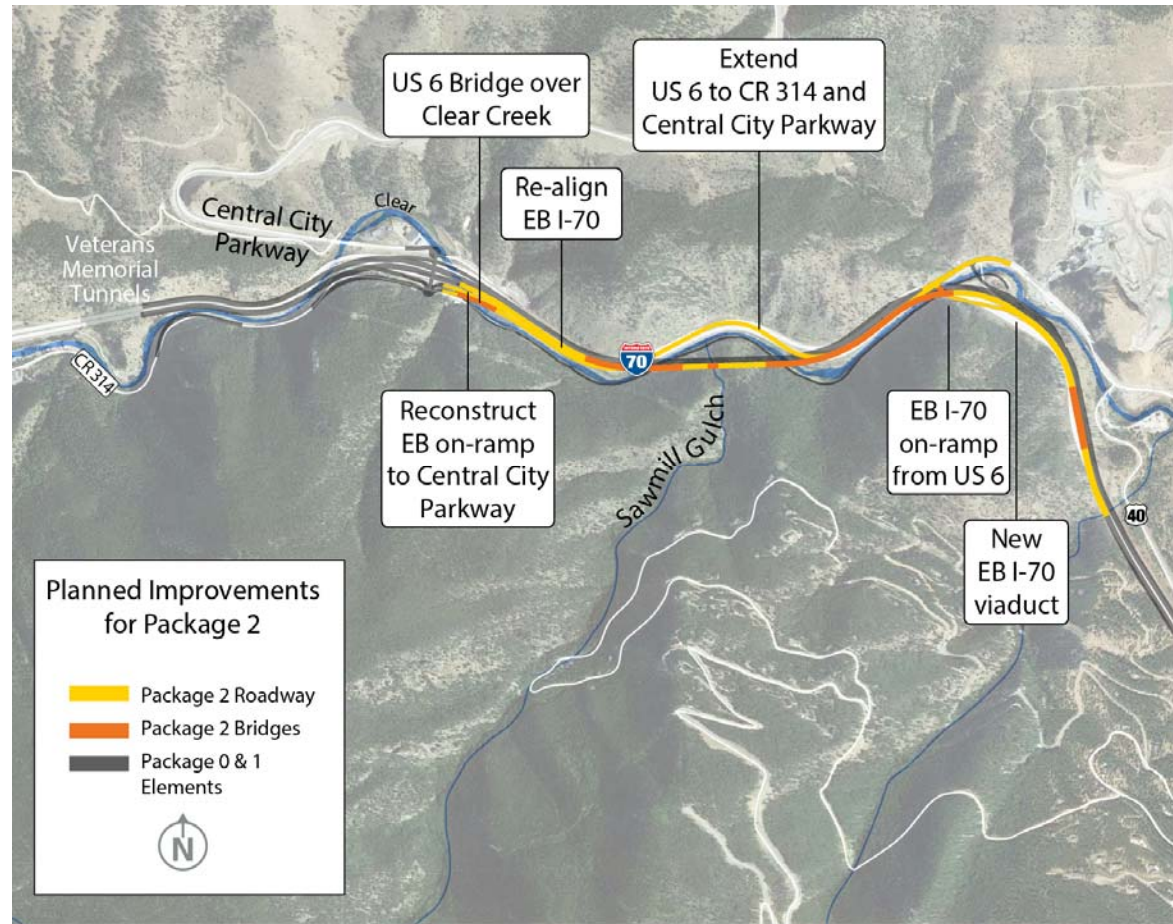
- Package 1 (\$340 M)
- Westbound I-70 viaduct
- Widening to accommodate third westbound travel lane
- Replacement of two Bridge Enterprise eligible bridges
- Interchange improvements at US 6 and Hidden Valley
- Greenway trail reconstruction





Package 2 Project Elements

- Package 2 (\$250 M)
- Eastbound I-70 viaduct
- Frontage road extension
- Eastbound ramps at interchanges





Project Costs and Funding

Project Costs and Anticipated Funding (\$ in Millions)

Phase Costs	Package 0		Package 1	=	Package 0+1	+	Package 2	=	Totals
Preconstruction	\$7.0	+	\$25.0	=	\$32.0	+	\$13.0	=	\$45.0
Construction Management	\$8.0		\$25.0		\$33.0		\$20.0		\$53.0
Construction	\$95.0		\$290.0		\$385.0		\$217.0		\$602.0
Total	\$110.0		\$340.0		\$450.0		\$250.0		\$700.0

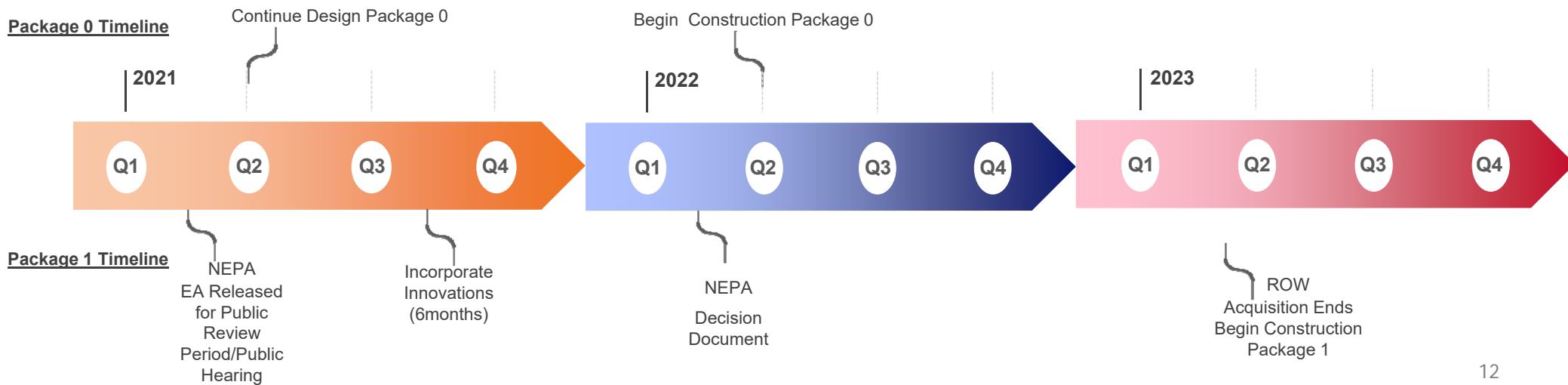
Funding	Package 0		Package 1	=	Package 0+1	+	Package 2	=	Totals
SB 267 (YR 3)	\$110.0		\$25.0		\$135.0		\$0.0		\$135.0
BE*	\$0.0	+	\$250.0	=	\$250.0	+	\$0.0	=	\$250.0
HPTE*	\$0.0		\$65.0		\$65.0		\$0.0		\$65.0
Total	\$110.0		\$340.0		\$450.0		\$0.0		\$450.0

* Package 1 Bridge Enterprise and HPTE contributions are approximate and still TBD. Funding Gap Study currently underway to evaluate options on how to close the remaining project funding gap including future grant opportunities.



Potential Schedule/Next Steps

- SB 267 Project List consideration
- Advance design
- Spring 2021 Environmental Assessment Release
- Virtual Public Engagement Event
- Finalize BE/HPTE contributions to project through 2021
- Potentially start early package work summer 2022





Questions and Comments?

