New Mix Public Meeting 3 January 31, 2023







Welcome!







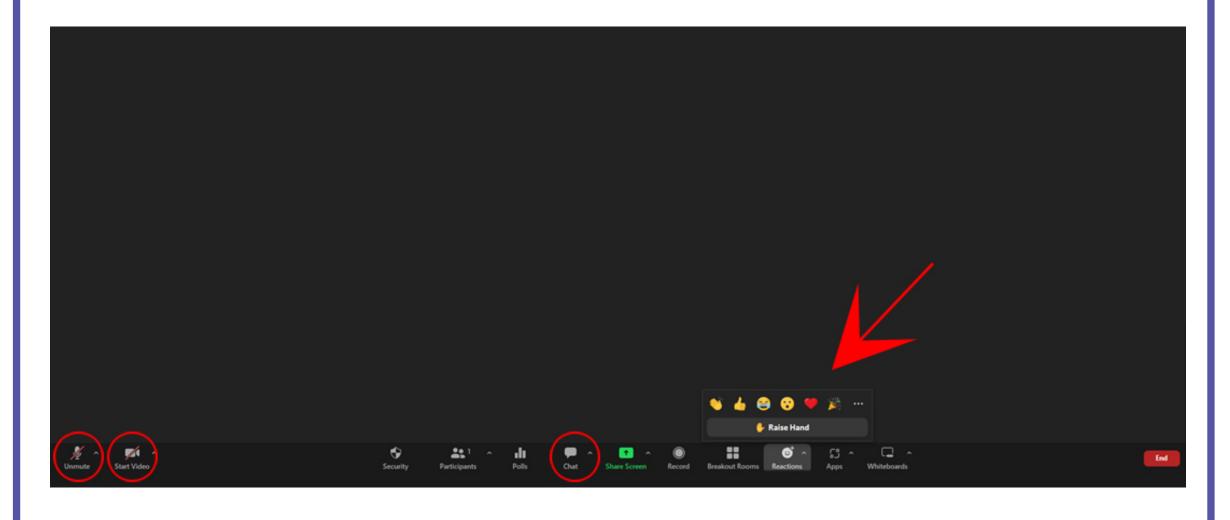
Zoom Meeting Protocols

To ensure meetings are productive, friendly, and efficient, we request that attendees adhere to the following:

- Use respectful language & standard, professional meeting decorum.
- Remain muted when not speaking.
- Hold questions until after the presentation.
- Please note that if a backlog of pending questions and/or comments occurs we will ask that attendees limit initial comments to 2 minutes so that everyone has a chance to speak. Once everyone has had the opportunity to speak, we will then allow attendees who have additional comments more time.



How To Zoom: Mute, Start Video, Chat, & Raise Hand



How To Zoom: Select Real-Time Translation Real Time Translation:

Title VI - Civil Rights

No Person shall, on the basis of race, color or national origin, be excluded from participation or subject to discrimination in the development of this project.





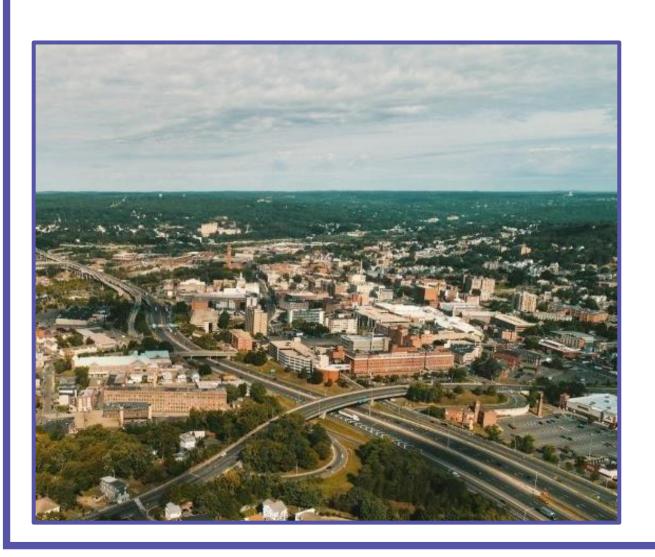
Demographic Survey appreciated:

https://bit.ly/CTDOT-Feedback

CTDOT may adopt or incorporate Planning Products from this PEL Study into a federal or state environmental review process, pursuant to Title 23 U.S.C. § 168(d)(4). The project is formally identified as State Project No. 0151-0331.



The New Mix Leadership Team



Connecticut Department of Transportation

- Michael N. Calabrese, PE, Division Chief
- Nilesh Patel, PE, Principal Engineer
- Jonathan Dean, PE, Project Manager
- Joe Belrose, EIT, Project Engineer

HNTB Corporation

- Jacob Argiro, PE, Project Manager
- David Schweitzer, PE, Deputy Project Manager
- Chris Fagan, PE, Project Engineer
- Naomi Hodges, Environmental Lead
- Anna Mariotti, Public Information & Involvement



Agenda

The New Mix Project

What is the New Mix? Why is it occurring?

Early Planning for the New Mix: the Planning and Environmental Linkages (PEL) Study

What is the New Mix PEL Study?

Screening the Universe of Alternatives: Evaluations to find a Range of Reasonable Alternatives

How is the PEL Study progressing?

Getting to New Mix Construction: the Process and Anticipated Schedule When and How will Construction occur?

Learn More, Provide Input & Stay Involved with the New Mix How to get involved and provide input?

Attendee Poll, Question & Answer Session





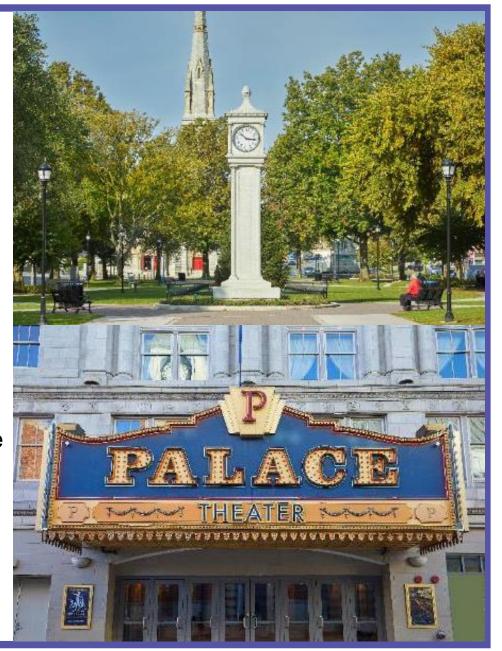
The New Mix Project

What is the New Mix Project? What does it aim to achieve?

The New Mix project is planning for the *long-term* future of the Mixmaster, when it reaches end of its serviceable lifespan.

The New Mix project will analyze rehabilitation and replacement options that can be implemented by 2045 and will:

- Modernize
- Improve safety & functionality
- Improve function of local road network & the interchange
- Reduce congestion & improve air quality
- Align with economic development & community plans



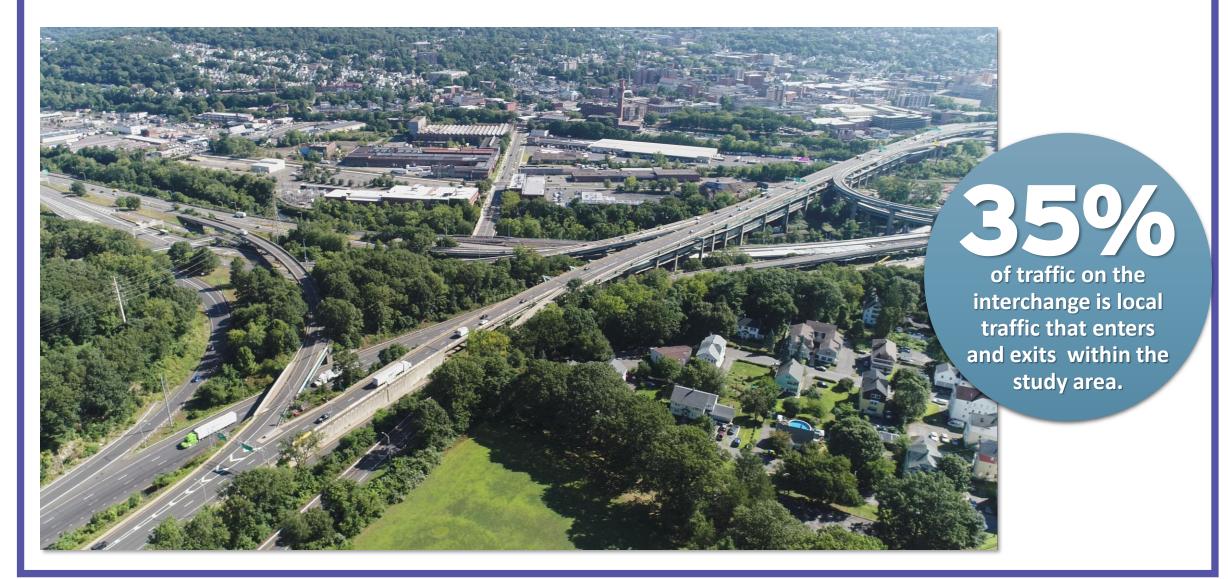
Why is the New Mix Project Needed?

The existing interchange is:

- Aging; various components reaching end of serviceable lifespan (Rehab project extends lifespan until about 2045)
- Not designed to current safety & operational standards (sight lines, narrow shoulders, interchange spacing, left exits, etc.)
- Stacked structures cause repairs and maintenance to be costly, lengthy, and extremely disruptive to traffic flow



Travel Patterns on the Mixmaster

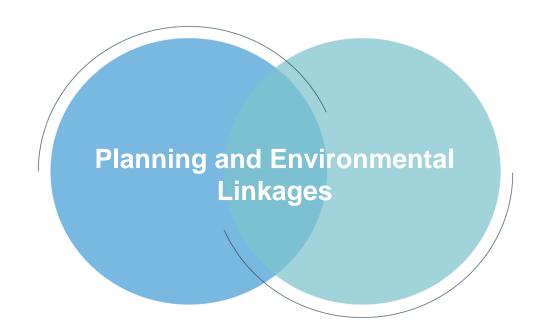


Early Planning for the New Mix

The Planning and Environmental Linkages (PEL) Study

What is the Planning and Environmental Linkages (PEL) Study that is being used for the New Mix?

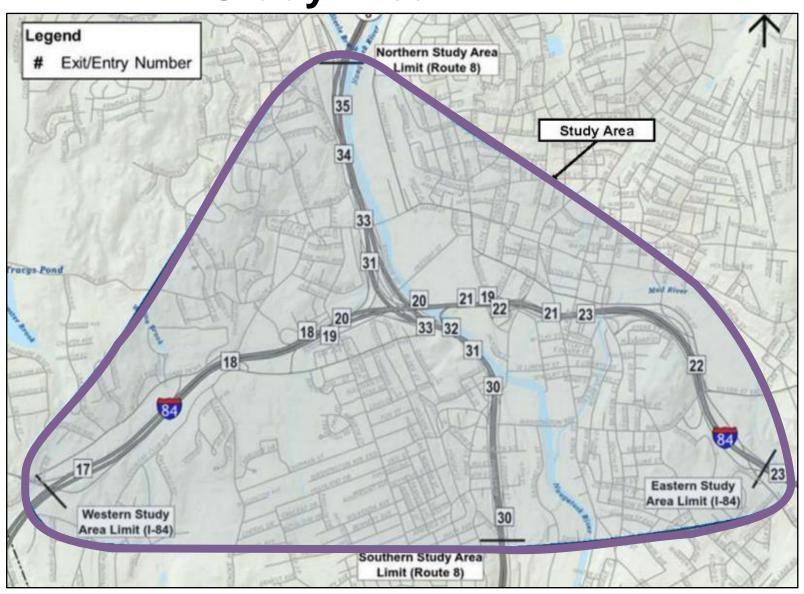
- Federal Highway Administration (FHWA) recognized process
- Early start on technical studies, outreach, and public involvement
- Connect transportation planning and environmental/community concerns
- Identify key issues and risks associated with transportation projects
- Informs the National Environmental Policy Act (NEPA) Process



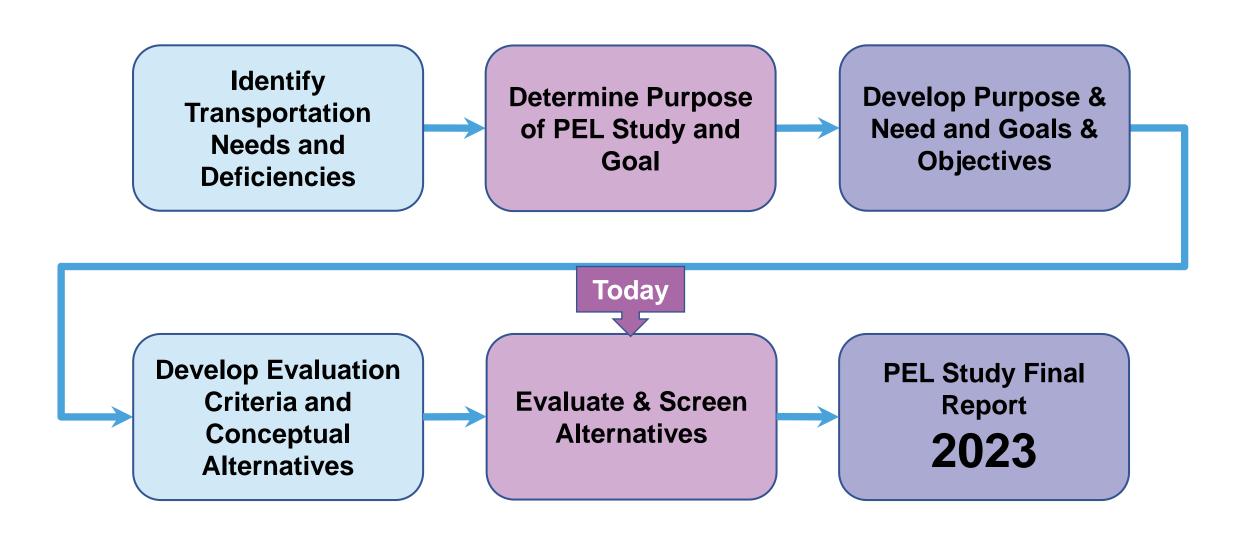
PEL Study= Pre-NEPA Process



The New Mix PEL Study Area



The New Mix PEL Study Process



Defining the problem and contextualizing the area:

- Existing and future transportation issues a.k.a. needs and deficiencies
- Multimodal, community and environmental context features





CTDOT desires to establish a vision, or master plan, for the interchange that addresses and balances the regional importance of the Mixmaster for commuter traffic and motor freight users, while also improving multi-modal services, local connections and livability within the city of Waterbury to enhance and support social equity and economic vitality.



NEEDS (problems)	PURPOSE (solutions)
Structural Deficiencies	To improve I-84/Route 8 bridge conditions.
Geometric Deficiencies	To improve I-84/Route 8 roadway conditions.
Operational (Traffic) Deficiencies (including congestion)	To improve the level of service of I-84/Route 8 and associated local road network.
GOALS & OBJECTIVES (Intended Outcomes)	
 Allow for connections to the Naugatuck River and Greenway; Enhance mobility equity and safety for bicyclists and pedestrians; 	Improve system performance;Reduce congestion;

- Integrate the Project with ongoing City projects;
- Improve access to Downtown and key destinations;
- Strengthen surrounding neighborhoods as gateways to the City's Central Business District (CBD);
- Support City revitalizing goals of the CBD;
- Enhance access to multimodal facilities:
- Avoid, minimize or mitigate potential Project consequences to the environment;

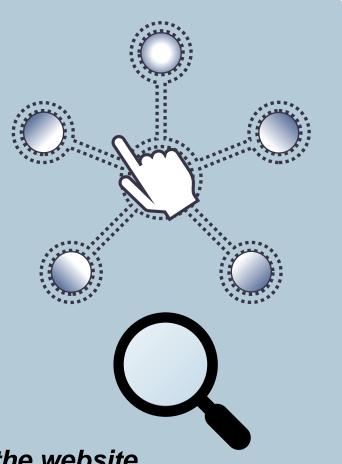
- Reduce crash rates;
- Maintain critical system linkages in Connecticut and the Northeast;
- Facilitate connectivity with Waterbury through the local road network including multimodal travel;
- Improve the local roadway network;
- Reduce interchange complexity;

May be further refined to incorporate issues and data identified during stakeholder and public involvement processes including coordination with project partners and the public.

The New Mix Universe of Alternatives (UOA)

Potential solutions for the long-term future of the Mixmaster interchange.

- Conceptual level of engineering performed, identifying the 24 alternatives that create the UOA.
- Includes many options such as: unstacking the mainlines, potential bypass routes, improving the local roadway network, and more.
- The UOA will be evaluated based on how well each alternative meets the project's Purpose, Needs, and Goals through three (3) levels of screening.



View the UOA on the Project Alternatives page of the website

Identify
Transportation
Needs and
Deficiencies

Determine Purpose of PEL Study and Goal

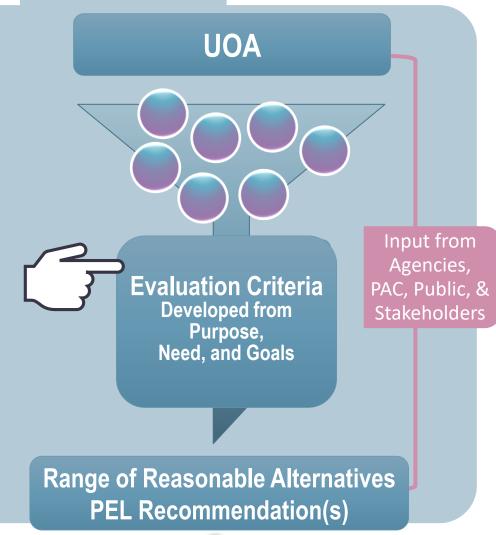
Develop Purpose & Need and Goals & Objectives

Develop Evaluation
Criteria and
Conceptual
Alternatives

Evaluate & Screen Alternatives

The New Mix PEL Process: Screening the Universe of Alternatives (UOA)

- Level 1: Evaluation of Fatal Flaws; engineering based on Purpose and Need
- Level 2: Evaluation of the Goals of the project: informed through public outreach
- Level 3: Evaluation of the Impacts and mitigation opportunities are identified
- Concludes with the identification of the Range of Reasonable Alternatives and PEL Recommendations for NEPA
- Public outreach occurs during all phases of the PEL



Screening the Universe of Alternatives

Evaluations to find a Range of Reasonable Alternatives

Develop Evaluation
Criteria and
Conceptual
Alternatives

Evaluate &
Screen
Alternatives

PEL Study Final
Report
2023

New Mix PEL Study Level 1 Screening Process



Can the Alternative Satisfy the Purpose of the Project?

Does it have any fatal flaws?



Level 1 Screening Preliminary* Results:

Total Conceptual Alternatives Evaluated



Conceptual Alternatives proposed to **ADVANCE**:

<u>Appear to address</u> the transportation need and not fatally flawed

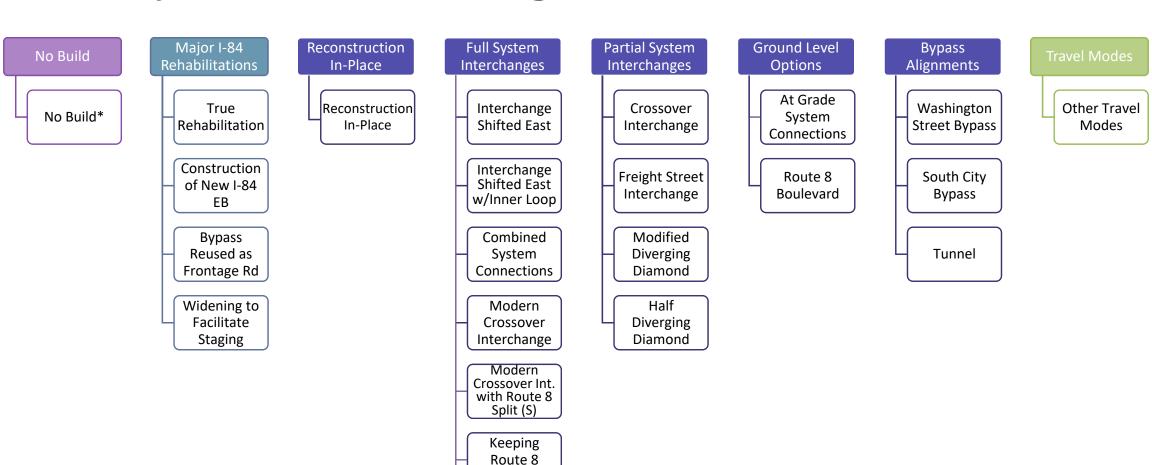


No-Build Alternative must be retained for future evaluations+

^{*}Results are not final until after public input is received

⁺ The No-Build Alternative failed to meet the criteria but must be retained for evaluation in the subsequent screening levels and NEPA analyses as required.

Preliminary Level 1 Screening Results



Stacked

Naugatuck

River Shift

Stacked I-84

Legend

Advancing Alternatives

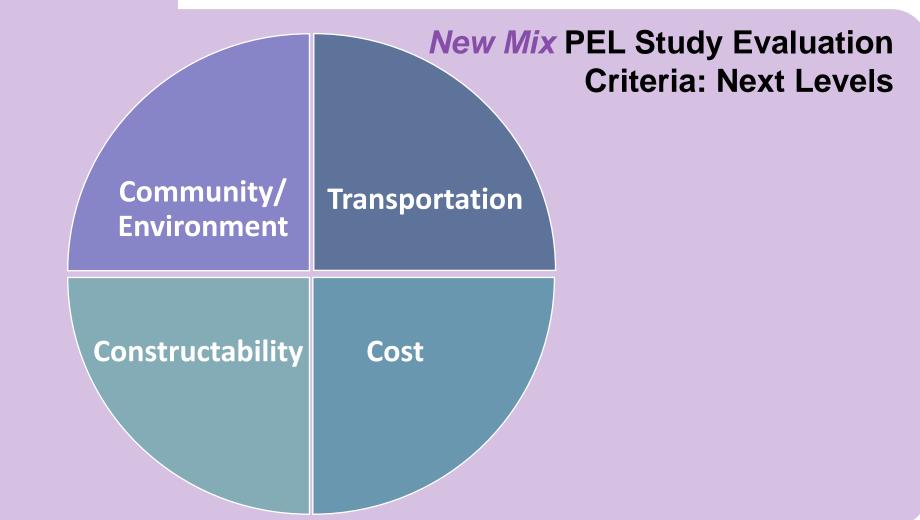
Alternatives not Advancing

Note

*The No-Build Alternative failed to meet the criteria but must be retained for evaluation in the subsequent screening levels and NEPA analyses as required.









- Enhance Connectivity & Mobility
- Enhance Modal Interrelationships
- Support Economic Development
- Avoid or Minimize Impacts (Community, Natural Resources, Cultural Resources, & Sensitive Populations)

Community/ Environment

Constructability

New Mix PEL Study Evaluation
Criteria: Next Levels

Transportation

- Improve system performance
- Reduce congestion
- Reduce crash rate
- Maintain critical linkages

• Maximize Ease of Construction

- Minimize Construction Impacts to Commuters and the Surrounding Community
- Provide phasing flexibility

Cost

- Financial resources can be made available
- Phasing opportunities and fundability

Getting to New Mix Construction

The Process and Anticipated Schedule

Why is the New Mix Project beginning now? Getting to Construction: High Level Overview & Timeline

PEL Study

- Links transportation planning and environmental / community concerns
- Will identify a <u>Range of</u> Reasonable Alternatives

National Environmental Policy Act (NEPA) Process

- The Environmental Review Process for compliance with environmental laws
- Will identify a <u>Preferred</u>
 Alternative

Design and Permitting

- Advanced design of the Preferred Alternative and associated break out projects
- State and Federal Permit Procurement

Construction

 Includes the Near-term, and Long-term breakout projects
 Anticipated completion in 2045

Today through 2023

2-4 years

4-6 years

Initiating early 2030s



How will construction occur? Projects to Occur Over Time







Early Action Projects

Standalone improvements to the highway and local roadway network



Improvements to highway approaching Mixmaster compatible with Long-Term Projects





Reconstruction of core interchange structures





Early Action Projects

- Smaller, standalone improvements to the highway and local roadway network:
- Intended to improve traffic flow and safety, while the longterm planning for the New Mix is ongoing.
- Carried out in coordination with the City of Waterbury
- Independent of the New Mix Project and will go through a separate process.
- Early Action Projects are progressing.
- More information about Early Action Projects will be available in the coming months.





Learn More, Provide Input, and Stay Involved with the New Mix

Next Public Meeting

Public Mtg #4 April/May 2023

Where:

Anticipated In-Person & Virtual Sessions

Topics:

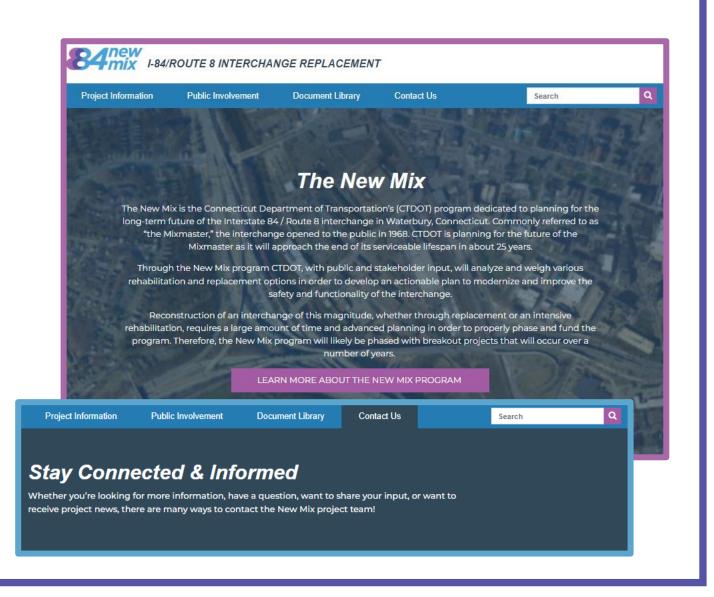
Present Level 2 & 3 Screening Results, the Range of Reasonable Alternatives, and obtain input from public



Learn More, Provide Input, and Stay Involved

NEWMIXWATERBURY.COM

- Learn about Project Alternatives History, FAQ, and more.
- Leave comments, ask questions 24hours a day.
- Subscribe to New Mix email updates to be informed of future Public Meetings and opinion surveys.
- Watch videos of past public meetings.



Question & Answer Session

State Project # 151-331

Share your feedback, input and ask questions:



Call us at 203-805-8018



Project Email: thenewmixwaterbury@gmail.com



Webpage: <u>newmixwaterbury.com</u>



Signup to be alerted about future Public Meetings: bit.ly/NewMixEmail









Thank you.





