#### Welcoming Remarks from the Town of Winchester

#### **Bart Clark**

#### **Town of Winchester**

Project Administrator

Phone: (860) 379-4070 ext. 105

engineering@townofwinchester.org

#### **Jim Rollins**

#### **Town of Winchester**

**Director of Public Works** 

Phone: (860) 379-4101 ext. 104

jrollins@townofwinchester.org

#### Jeremy DeCarli

**Tyche Planning & Policy Group** 

Interim Town Planner

Phone: (860) 738-6593 ext. 312

townplanner@townofwinchester.org





## State Project Nos. 0162-0161/0162-0162 Public Information Meeting

Replacement of Bridge No. 05126
White Street over Still River
Replacement of Bridge No 05132
Grantville Road over Mad River
Winchester, CT



Monday, June 9th, 6:30 p.m.

Join us for a Question-and-Answer session following the formal presentation.

PROJECT EMAIL: DOT-FLBP@ct.gov

**PHONE:** (860) 594-2020 (voicemail only)

**PROJECT WEBPAGE:** 

https://portal.ct.gov/DOTWinchester0162







## State Project No. 0162-0161/0162-0162

Replacement of Bridge No. 05126, White Street over Still River, Winchester, CT Replacement of Bridge No. 05132, Grantville Road over Mad River, Winchester, CT Public Information Meeting

#### **Meeting Overview**

- Housekeeping Project Team and meeting interaction
- Formal Presentation of Design for Project 0162-0161
  - Explain existing conditions
  - Define Purpose and Need
  - Proposed replacement
  - Question and Answer (Q&A) Session
- Formal Presentation of Design of Project 0162-0162
  - Explain existing conditions
  - Define Purpose and Need
  - Proposed replacement
  - Question and Answer (Q&A) Session



## Title VI - Your 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.

- Voluntary Post-Meeting Survey:
  - https://portal.ct.gov/ctdotsurvey



- Civil Rights information:
  - https://portal.ct.gov/DOT/Business/Office-of-Equity/Title-VI-Page

A recording of this presentation will be posted to YouTube after the event.

Closed captioning—including non-English translation options—are available on Zoom and YouTube.





Individuals and organizations may file a complaint by completing the Title VI complaint form (https://highways.dot.gov/civil-rights/title-vi-complaint). Complaints should be signed and include contact information and should be sent to: Office of Civil Rights Federal Highway Administration 1200 New Jersey Avenue, Washington, DC 20590



## Connecticut Department of Transportation Title VI Notice to the Public

The Connecticut Department of Transportation (CTDOT) operates its programs and services without regard to race, color, and national origin in accordance with Title VI of the Civil Rights Act. Any person who believes she or he has been aggrieved by any unlawful discriminatory practice under Title VI may file a complaint with the CTDOT.

For more information on the CTDOT's civil rights program, and the procedures to file a complaint, contact the CTDOT Title VI Coordinator at (860) 594-2169, TRS 711; <a href="mailto:Debra.Goss@ct.gov">Debra.Goss@ct.gov</a>; or visit our administrative office at 2800 Berlin Turnpike, Newington, CT 06131. For more information, visit <a href="mailto:www.ct.gov/dot">www.ct.gov/dot</a>

A complainant may file a complaint directly with the Federal Transit Administration by filing a complaint with the FTA Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5<sup>th</sup> Floor-TCR, 1200 New Jersey Ave., SE, Washington, DC 20590

A complainant may file a complaint directly with the Federal Highway Administration by filing a complaint with the FHWA Office of Civil Rights, Attention: Title VI Program Coordinator, 8<sup>th</sup> Floor E81-105, 1200 New Jersey Ave., SE, Washington, DE 20590

#### 如需更多信息或免费语言协助,请致电(860)594-2109

Para información adicional, o asistencia lingüística gratuita, por favor llame al (860) 594-2109
Per informazioni aggiuntive o assistenza linguistica gratuita, chiamare il numero (860) 594-2109
Para obter mais informações, ou para auxílio gratuito em outro idioma, ligue para (860) 594-2109
Aby uzyskać dodatkowe informacje lub bezpłatną pomoc tłumacza, proszę dzwonić pod numer (860) 594-2109
Для получения подробной информации или бесплатных услуг перевода звоните по телефону (860) 594-2109
Pou jwenn plis enfòmasyon, oswa asistans ak lang gratis, ranpri rele (860) 594-2109
Pou jwenn plis enfòmasyon, oswa asistans ak lang gratis, ranpri rele (860) 594-2109
Si vous souhaitez en savoir plus ou bénéficier d'une assistance linguistique gratuite, merci de composer le numéro suivant (860) 594-2109

अधिक जानकारी या निःशल्क भाषा संबंधी सहायता के लिए कपया (860) 594-2109 पर कॉल करें।

추가 정보가 필요하거나 무료 언어 지원이 필요하시면 (860) 594-2109로 전화주십시오

Để có thêm thông tin hoặc hỗ trợ ngôn ngữ miễn phí, vui lòng gọi (860) 594-2109



Individuals and organizations may file a complaint by completing the Title VI complaint form (https://highways.dot.gov/civil-rights/title-vi-complaint). Complaints should be signed and include contact information and should be sent to: Office of Civil Rights Federal Highway Administration 1200 New Jersey Avenue, Washington, DC 20590



#### Departamento de Transporte de Connecticut

#### Título VI Aviso al Público

- El Departamento de Transporte de Connecticut (CTDOT) se compromete a asegurar que ninguna persona sea excluida de participar en, o le sean negados los beneficios de, sus servicios de transporte basándose en la raza, color o país de origen de la persona protegida por el Título VI de la Ley de los Derechos Civiles. Si a usted le parece que ha sido objeto de discriminación en lo que corresponde al Titulo VI, puede presentar una queja al CTDOT.
- Para más información sobre el programa de derechos civiles del CTDOT y el proceso de presentar una queja, comuníquese con el Coordinadora del Título VI del CTDOT al teléfono (860) 594-2169, TRS 711; Debra.Goss@ct.gov. Tambien puede visitar nuestra oficina administrativa en 2800 Berlin Turnpike, Newington, CT 06131. Para más información, visite www.ct.gov/dot.
- Un denunciante puede presentar una queja directamente ante la Federal Transit Administration si lo hace ante la FTA Office of Civil Rights, Attention: Title VI Program Coordinator, East Building, 5th Floor-TCR, 1200 New Jersey Ave., SE, Washington, DC 20590.
- Un denunciante podrá presentar una queja directamente ante la Federal Highway Administration si lo hace ante la FHWA Office of Civil Rights, Attention: Title VI Program Coordinator, 8th Floor E81-105, 1200 New Jersey Ave., SE, Washington, DC 20590.
- Para recibir más información o ayuda gratuita en otros idiomas, llame al (860) 594-2109.

## **Funding for Project**

#### Federal Local Bridge Program – "Design Managed by State" (DMS)

<u>Traditional Fed. Local Program</u>: 80% Federal and 20% Town for Design, ROW, and CN

**DMS**: Design, ROW, and CN Phases are funded with 80% Federal and 20% State Funds

- Design, ROW, and CN Phases are at zero cost to the Town
- Design is "Full Partnership" and Coordination with the Town

#### **Goals of DMS**:

- Provide a "Streamlined approach to Design" using full DOT resources
- Aid the Towns to Keep their bridges in "State of Good Repair" by effective use of funds
- Decrease typical design time
- Utilize Accelerated Bridge Construction (ABC) techniques to shorten construction duration
- Increase the number of municipal projects delivered to construction each year



### **Project Team**



Derick Lessard, P.E.

Division Chief of Bridges

**CTDOT** 



Marc Byrnes, P.E.

Supervising Engineer

**CTDOT** 



**Andrew Shields, P.E.** 

Project Engineer

**CTDOT** 



**Jack Carlson** 

Right-of-Way Project Coordinator

**CTDOT** 



#### **Project Team**



Anand Seshadri, P.E.

CLE Team Leader

CHA Consulting



Stephany Dubina
CLE Project Manager
CHA Consulting



John Parrelli, P.E.

Highway Lead

CHA Consulting



Jeff LeMay, P.E.
Highway Lead
CHA Consulting



Scott Young, P.E.

Hydraulics & Permitting
Lead

CHA Consulting



#### **Bridge Structural Elements**

## Bridge Condition Ratings

Scale: 1 to 9

9 - Excellent

8 – Very Good 7 – Good

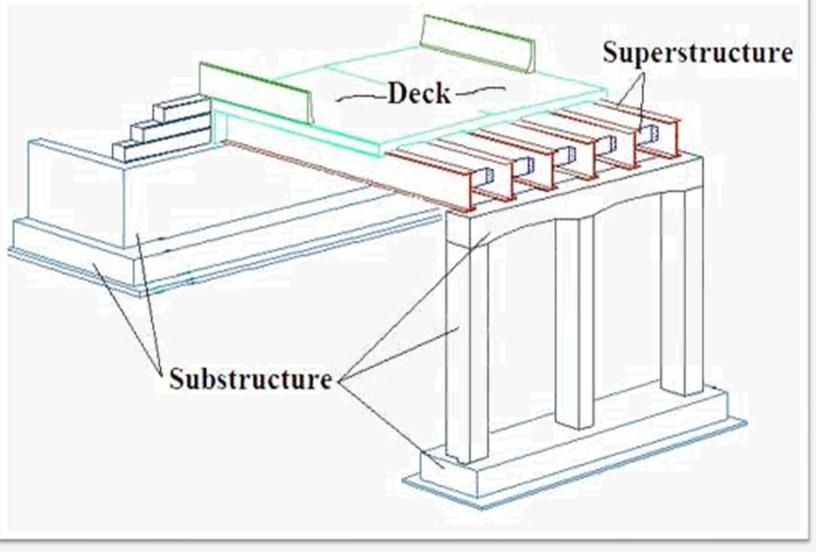
6 – Satisfactory 5 – Fair

4 – Poor

3 – Serious

2 - Critical

1 – Imminent Failure





### **Examples of Concrete Deterioration**







**Efflorescence** 

Honeycombing

Scaling







**Spalling** 





# State Project Number 0162-0161

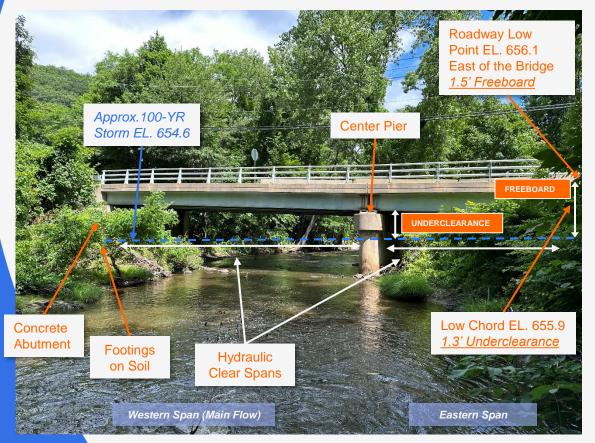
Replacement of White Street Bridge in Winchester

## **Project Location**





#### Bridge No. 05126 Information



- Built in 1956; Rehabilitated in 1991
- Span Length: (2) 64'-0" Spans; Total Length = 134'-0"
- Superstructure (5) Steel Beams with Welded Cover Plates and CIP Concrete Deck overlaid with Bituminous Concrete
- Substructure Concrete Abutments, Center Pier & Flared Concrete Wingwalls
- Roadway Width = 22'-0" (State Std.= 24'-0"; Federal Std. = 22'-0")
- Sidewalk Width = 5'-0" (State Std.=5'-6")
- Average Daily Traffic = 589 vehicles per day (2024)
- Hydraulics: (100-Yr Design Storm)
  - 42.3 square mile watershed
  - 124' Hydraulic Clear Span > 61.2' = 1.2 \* BFW (51.0')
  - 1.3' Underclearance < 2.0' Min
  - 1.5' Freeboard > 1.0' Min
  - 1.0′ Backwater = 1.0′ Max
- Scour Analysis:
  - Bridge Foundation is Scour Susceptible



## **Existing Bridge Condition Ratings**

## BRIDGE INSPECTION REPORT RATING SUMMARY (Routine Inspection Report: 05/15/2024)

ITEM	CONDITION	RATING
Deck	Poor	4
Overlay (Bit. Concrete)	Satisfactory	7
Deck (Struct. Cond.)	Poor	4
Curbs	Satisfactory	6
Sidewalk	Satisfactory	6
Railing	Good	7*
Scupper Drains	Satisfactory	6
Expansion Joint	Fair	5
Approach	Fair	5
Guide Rail	Good	7*
Pavement	Fair	5
Embankment	Very Good	8
Superstructure	Satisfactory	6
Bearings	Satisfactory	6
Girders	Satisfactory	6

## BRIDGE INSPECTION REPORT RATING SUMMARY (Routine Inspection Report: 05/15/2024)

ITEM	CONDITION	RATING
		KATING
Substructure	Satisfactory	6
Abutments – Stem	Satisfactory	6
Abutments – Backwall	Satisfactory	6
Abutment – Footings	N/A	N/A
Abutment – Wingwalls	Good	7
Pier Cap	Satisfactory	6
Pier Column	Satisfactory	6
Erosion - Scour	Satisfactory	6
Channel and Channel Protection	Satisfactory	6
Channel - Scour	Satisfactory	6
Embankment - Erosion	Good	7
Debris	Good	7
Vegetation	Good	7
Channel Change	Good	7

#### **STRUCTURAL ELVALUATION = 6**

Meets Present Minimum Criteria



#### **Existing Load Rating**

- CTDOT Load Rating completed August 2020
- Inventory HL-93 Rating = 0.32 < 1.00 (Substandard)</li>
- AASHTO and CT Legal Load Ratings < 1.00 (Requires Weight Restrictions)
- Currently no posted weight restrictions
- 2022 Town installed barriers for alternating 1-way traffic
- April 2025 CTDOT informed Town to perform urgent steel repairs to avoid risk of full bridge closure
- Town is programming Steel Repairs



## **Existing Site Photos**



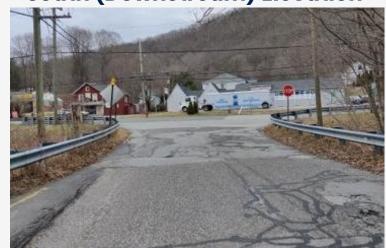
North (Upstream) Elevation



**East Approach** 



South (Downstream) Elevation



**West Approach** 

## **Existing Site Photos**



**Sidewalk and Rail Condition** 



Barriers and Alternating 1-way Traffic



**Pavement and Rail Condition** 



**Underside of Deck and Utilities** 



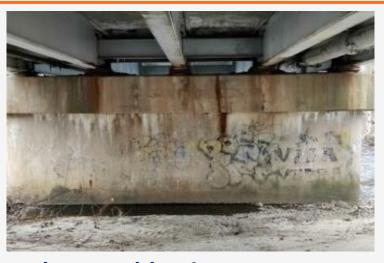
## **Existing Site Photos**



**Condition of West Abutment** 



Upstream Channel of the Still River



Pier Condition from East Span



Downstream Channel of the Still River



#### **Project Purpose & Need**

- Increase load rating capacity of beams to carry Legal Loads to avoid weight restrictions.
- Address Poor Condition of the Deck
- Increase Roadway Width to 24' minimum to meet State Standards
- Replace Bridge & Approach Rail Systems to Meet Current Safety Standards
- Bridge in service for 69 years; Typical Service Life is 50-75 years

#### PROPOSED REHABILITATION

Full Bridge Replacement

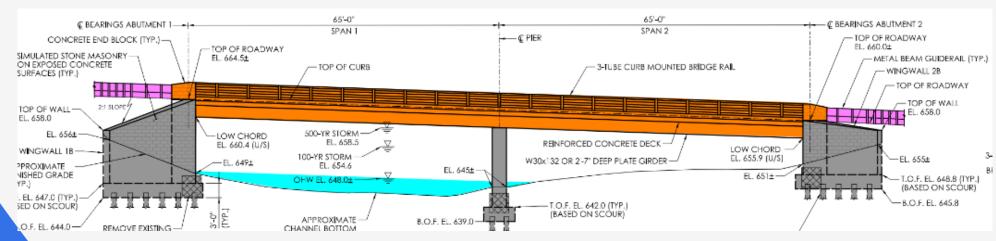


**Note:** Despite deficiencies, the bridge is safe for the traveling public and is inspected by CTDOT.

#### **Proposed Improvements**

#### New Steel Beam Bridge

- o (2) 65'-0" Span Steel Beam Bridge with reinforced concrete deck
- o Reinforced Concrete Abutments, Center Pier & Wingwalls with Micropiles socketed to bedrock
- Safely carry AASHTO Design, Legal & Permit Vehicles
- 75-year Service Life & Minimal Maintenance
- o 24'-wide Roadway including (2) 10' travel lanes, (2) 2' shoulders & (1) 5'-6" northern sidewalk
- Roadway Drainage Improvements
- Open Bridge Rail & Approach Rail System Meeting Standards



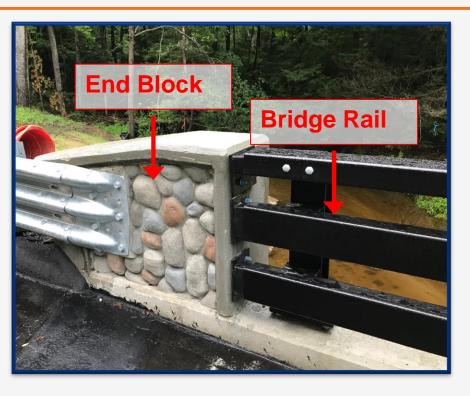


## **Proposed Improvements**

#### **Improve Aesthetics**

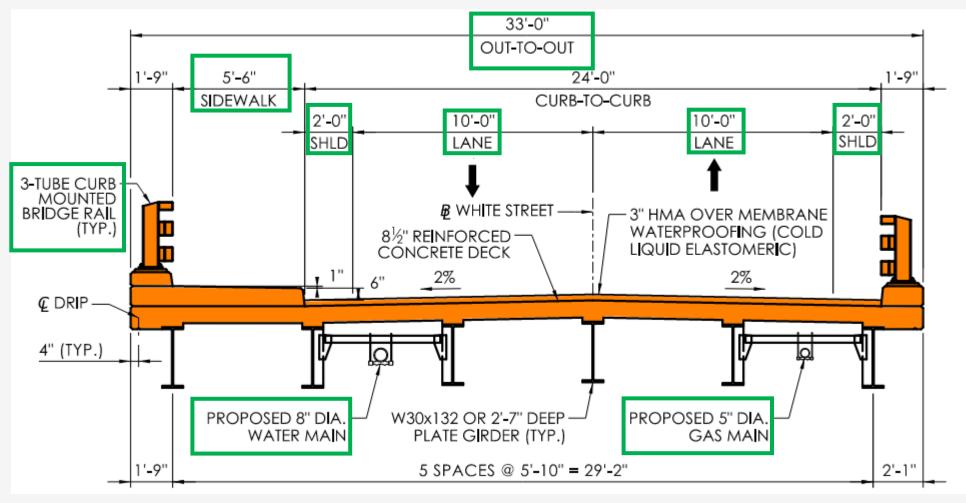
- Form Liner Applied To Concrete Simulating Stones (End Blocks and Wingwalls)
- Metalized Steel Bridge Beams & Rail to Town's Color Choice







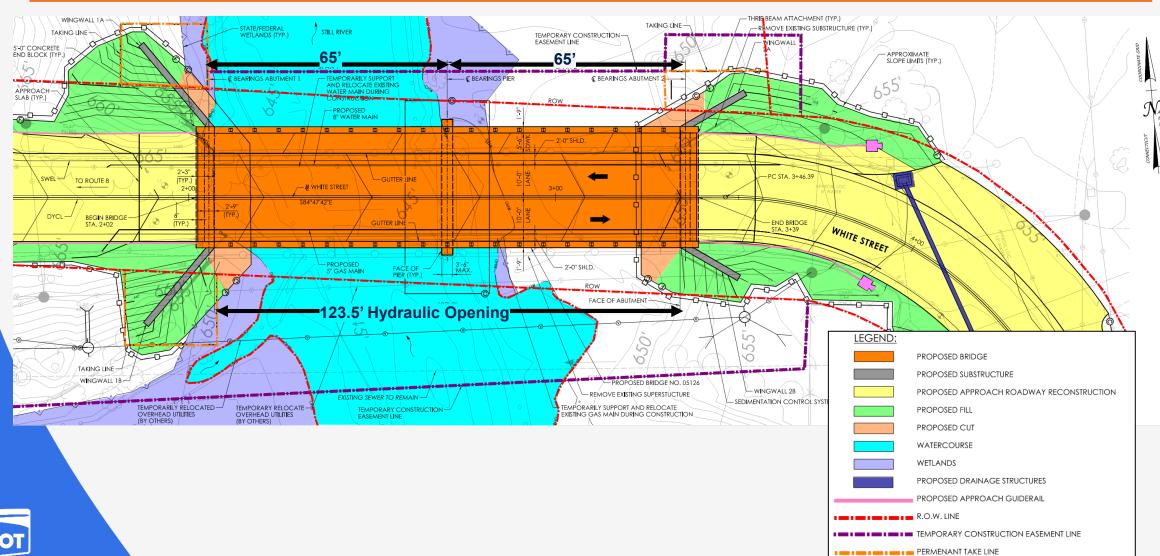
#### **Proposed - Cross Section**





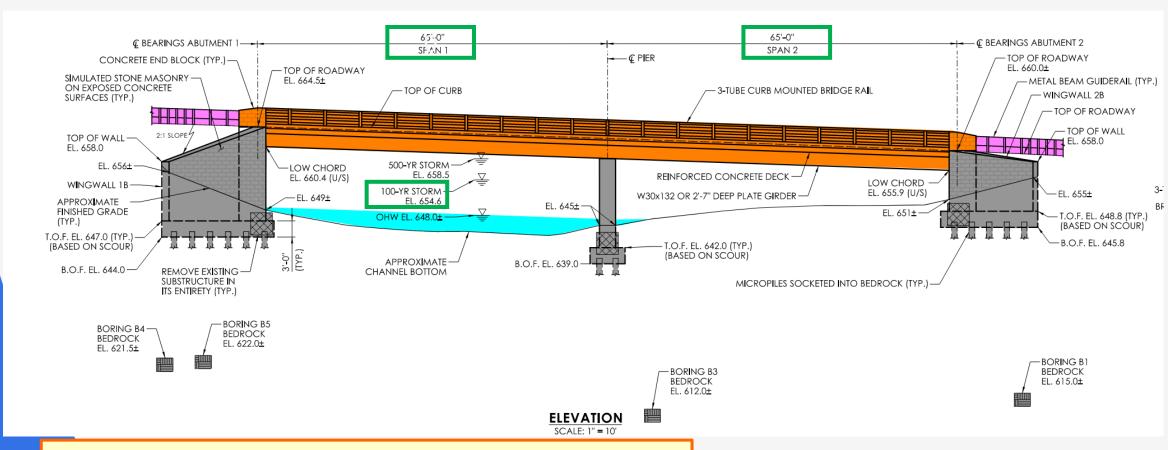
(Looking East)

## Proposed - Bridge Plan





#### Proposed – Bridge Elevation



#### **100-YR STORM**

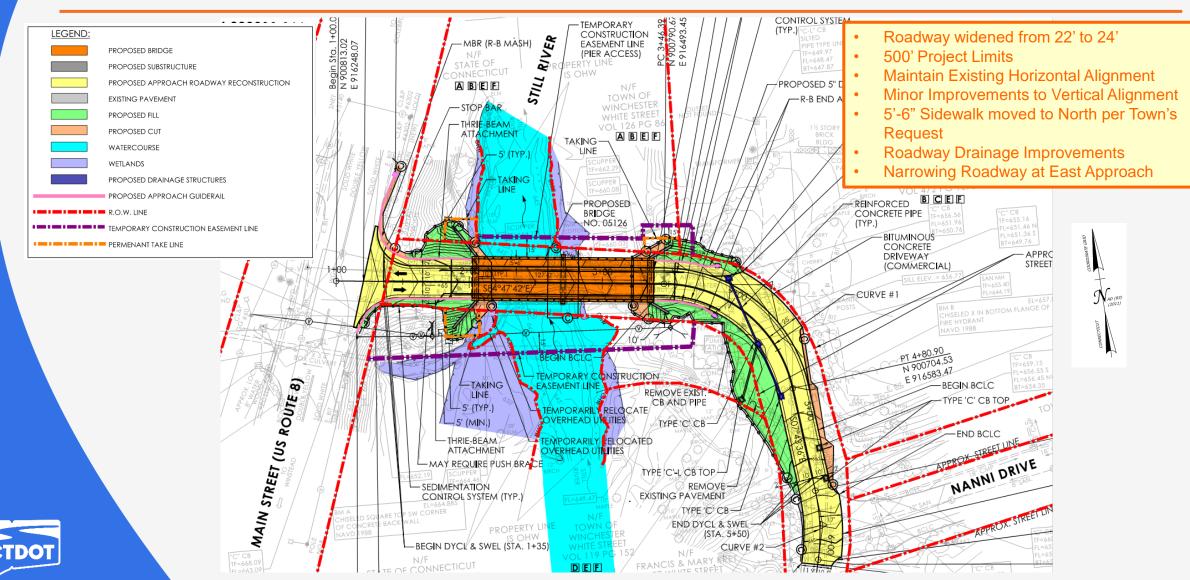


- 1.5' Freeboard (> 1' Min. Std.)
- 1.0' Backwater elevation change (1' Max. Std.)

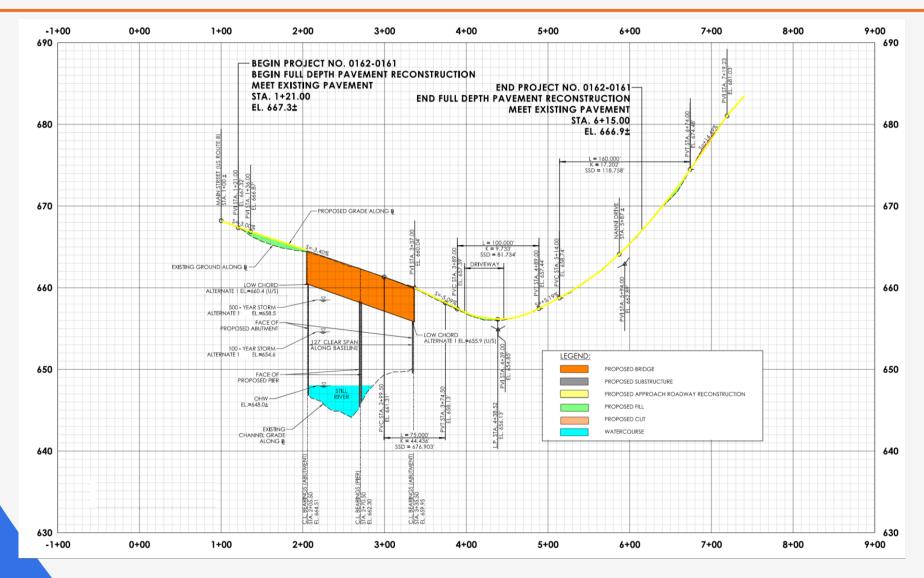
ALL PROPOSED HYDRAULIC CONDITIONS MATCH EXISTING



## Proposed - Roadway Plan

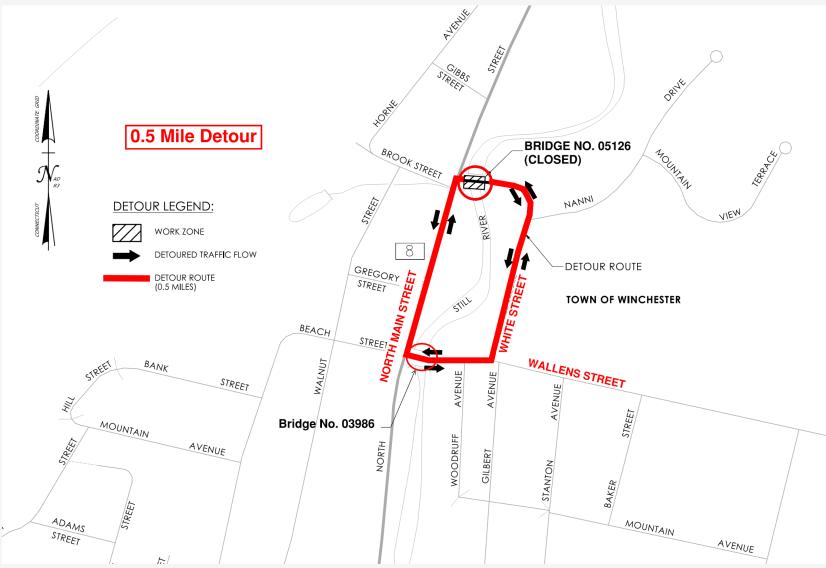


## Proposed – Roadway Profile





### **Proposed - Roadway Detour**





## Utility, Environmental and Historical Impacts

#### □ Utility Impacts:

- Overhead
  - Present on south side
  - Temporarily/Permanently relocated further to south
- Gas & Water
  - Present under the bridge
  - > Temporarily relocated & supported off the bridge
  - Permanently supported by new bridge

#### ■ Environmental Impacts:

- Temporary & Permanent Wetland Impacts
- Minimal work in Waterway
- Best-Management Practices for Fish & Wildlife

#### ☐ Historical Impacts:

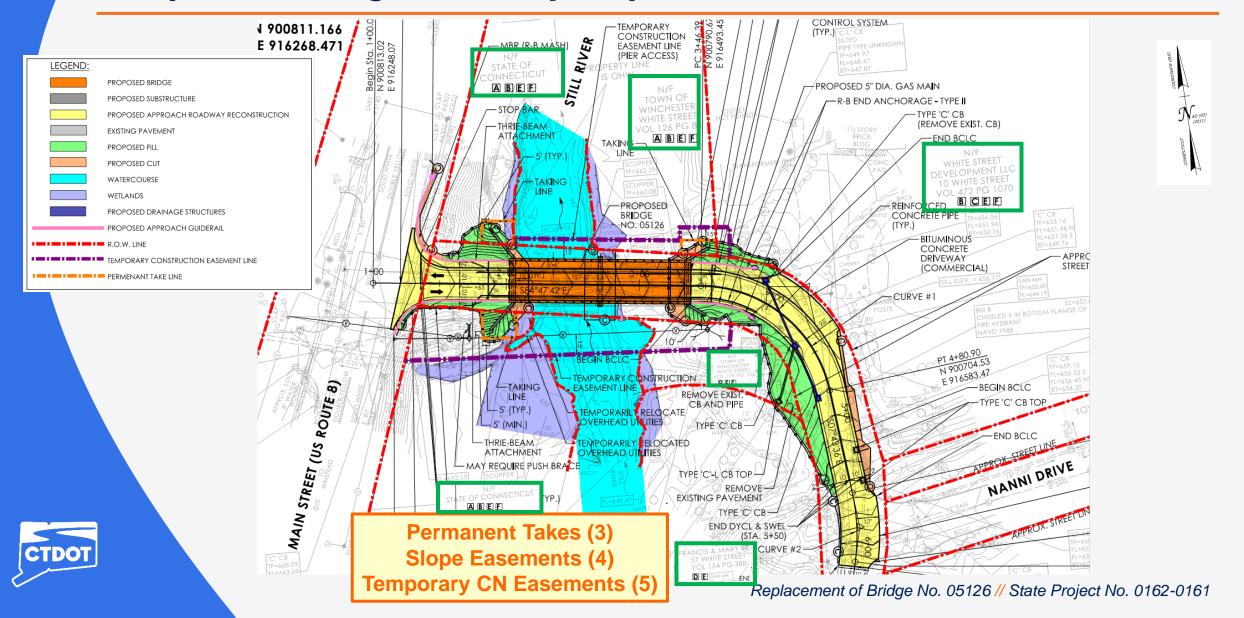
- No Historical Impacts Anticipated
- Anticipated Permits:
  - Town of Winchester Inland Wetlands & Watercourses Permit
  - CTDOT FMC-MOU
  - US Army Corps of Engineers Self Verification Registration







#### Proposed – Right of Way Impacts



## Right-of-Way Relevant Law

#### **State of Connecticut**

C.G.S. Sections 13a-73 & 13a-98e

#### **Federal**

 Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.





## Right-of-Way Acquisition Process

Letter of Intent to Acquire

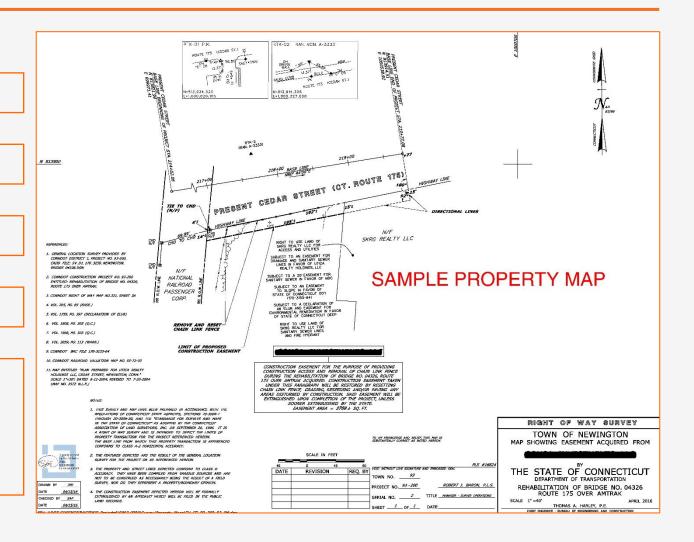
Valuation

Offer of Just Compensation

Negotiation

#### Acquisition

- Agreement
- Eminent Domain/Condemnation
- 6-month Appeal Period





#### **Project Schedule & Construction Cost**

#### **□** Schedule

- Construction Start: Spring 2027 (subject to ROW and permit approvals)
- Construction Duration: 2 Season (16 Months)
- ☐ Construction Cost: \$9,680,000
  - 80% Federal Funds & 20% State Funds
  - No Cost to the Town of Winchester

Note: The cost and schedule are preliminary and are subject to change



#### **Question & Answer Session**



By Email: <a href="mailto:DOT-FLBP@ct.gov">DOT-FLBP@ct.gov</a>



By Phone: (860) 594-2020 (voicemail)



Project Webpage: https://portal.ct.gov/DOTWinchester0162

Note: Comment period is open through June 23, 2025

\*The public can submit comments and questions during two-week public comment period following meeting. Direct comments and questions by June 23, 2025, to Andrew Shields, Project Engineer, by email at <a href="mailto:Andrew.Shields@ct.gov">Andrew.Shields@ct.gov</a> or by phone at (860) 594-2077.





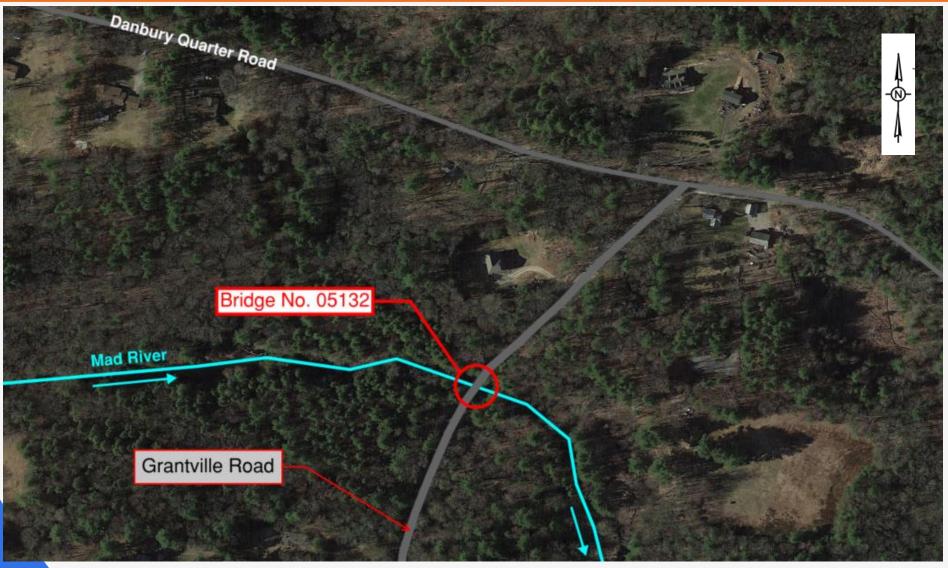
## **Thank You!**



# State Project Number 0162-0162

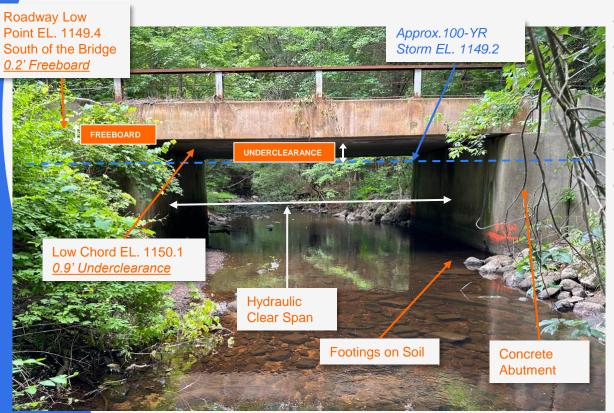
Replacement of Grantville Road Bridge Winchester

# **Project Location**





### Bridge No. 05132 Information



- Built in 1956
- Span Length: Single Span, 29'-10"
- Superstructure Prestressed Concrete Deck Units
- Substructure –Concrete Abutments and Footings founded on Soil
- Roadway Width = 22'-4"
- Average Daily Traffic = 60 vehicles per day (2024)
- Hydraulics: (100-Yr Design Storm)
  - 7.5 square mile watershed
  - 28' Hydraulic Clear Span < 31.2' = 1.2 \* BFW</p>
  - 0.9' Underclearance < 1.0' Min</li>
  - 0.2' Freeboard < 1.0' Min</li>
  - 1.3' Backwater > 1.0' Max
- Scour Analysis:
  - Bridge Foundation is Scour Susceptible



## **Existing Bridge Condition Ratings**

BRIDGE INSPECTION REPORT RATING SUMMARY
(Routine Inspection Report: 05/15/2024)

(Redding mapestion report, correred by			
ITEM	CONDITION	RATING	
Deck	Poor	4	
Overlay	Satisfactory	6	
Deck (Struct. Cond.)	Poor	4	
Curbs	N	N	
Parapet	Serious	3	
Railing	Fair	5*	
Approach	Satisfactory	6	
Guide Rail	Serious	3*	
Pavement	Satisfactory	6	
Embankment	Very Good	8	
Superstructure	Poor	4	
Bearings	Satisfactory	6	
Girders	Satisfactory	6	

# BRIDGE INSPECTION REPORT RATING SUMMARY (Routine Inspection Report: 05/15/2024)

ITEM	CONDITION	RATING
Substructure	Good	7
Abutments – Stem	Good	7
Abutments – Backwall	N/A	N/A
Abutment – Footings	N/A	N/A
Abutment – Wingwalls	Good	7
Erosion - Scour	Very Good	8
Channel and Channel Protection	Good	7
Channel - Scour	Very Good	8
Embankment - Erosion	Good	7
Debris	Good	7
Vegetation	Good	7
Channel Change	Good	7

#### **STRUCTURAL ELVALUATION = 4**

Meets minimum tolerable limits to be left in place as is



## **Existing Load Rating**

- CTDOT Load Rating completed May 2022
- Inventory HL-93 Rating = 1.20 > 1.00 (standard)
- AASHTO and CT Legal Load Ratings > 1.00 (standard)

#### NO WEIGHT RESTRICTIONS



# **Existing Site Photos**



East (Downstream) Elevation



**South Approach** 

**CTDO** 



West (Upstream) Elevation



North Approach

## **Existing Site Photos**



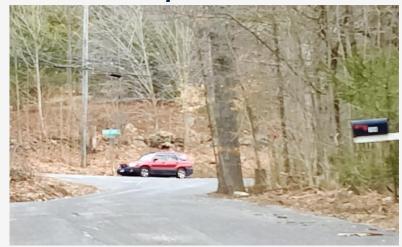
**Overlay and Bridge Rail Condition** 



South Roadway Approach & Overhead Utilities



South Abutment/West Facia Condition



North Roadway Approach & Danbury Quarter Road Intersection
Replacement of Bridge No. 05132 // State Project No. 0162-0162



# **Existing Site Photos**



**Rail Post & Facia Deck Unit Condition** 



**Upstream Channel of Mad River** 



**Underside of Prestressed Concrete Deck** 



**Downstream Channel of Mad River** 



### **Project Purpose & Need**

- Address Poor Condition of the Deck & Superstructure
- Bridge in service for 69 years; Typical service life is 50-75 years
- Increase Roadway Width to 24' minimum to meet State Preferred Standards
- Replace Bridge & Approach Rail Systems to Meet Current Safety Standards
- Eliminate Scour Susceptible Rating
- Improve Hydraulic Performance
  - Provide 31.2' Hydraulic Clear Span (=1.2 x BFW)
  - Underclearance (Exist. = 0.9'; Std. = 1.0' Min.)
  - Freeboard (Exist. = 0.2'; Std. = 1.0' Min.)
  - Backwater Elevation (Exist. = 1.3'; Std. = 1.0' Max.)

#### **PROPOSED REHABILITATION:** Full Bridge Replacement

СТДОТ

**Note:** Despite deficiencies, the bridge is safe for the traveling public and is inspected by CTDOT.

### **Proposed Improvements**

## **NEW Prestressed Concrete Deck Unit Bridge**

- o 41'-3" Single-Span Prestressed Concrete Deck Unit Bridge (38' Hydraulic Clear Span)
- Reinforced Concrete Abutments, Wingwalls with Micropiles socketed to Bedrock
- Safely carry AASHTO Design, Legal & Permit Vehicles
- o 75-year Service Life & Minimal Maintenance
- o 24'-wide Roadway including (2) 12' travel lanes
- o Open Bridge Rail & Approach Rail System Meeting Standards
- Shift Roadway & Bridge to the east to improve sight lines



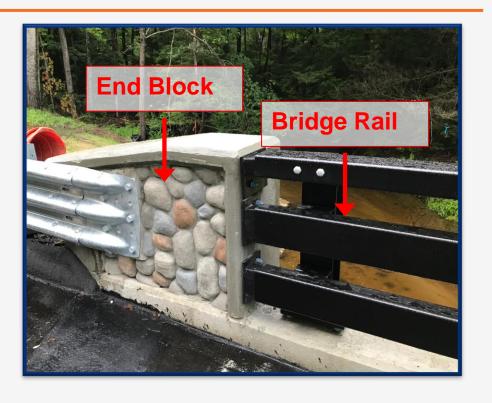


## **Proposed Improvements**

#### **Improve Aesthetics**

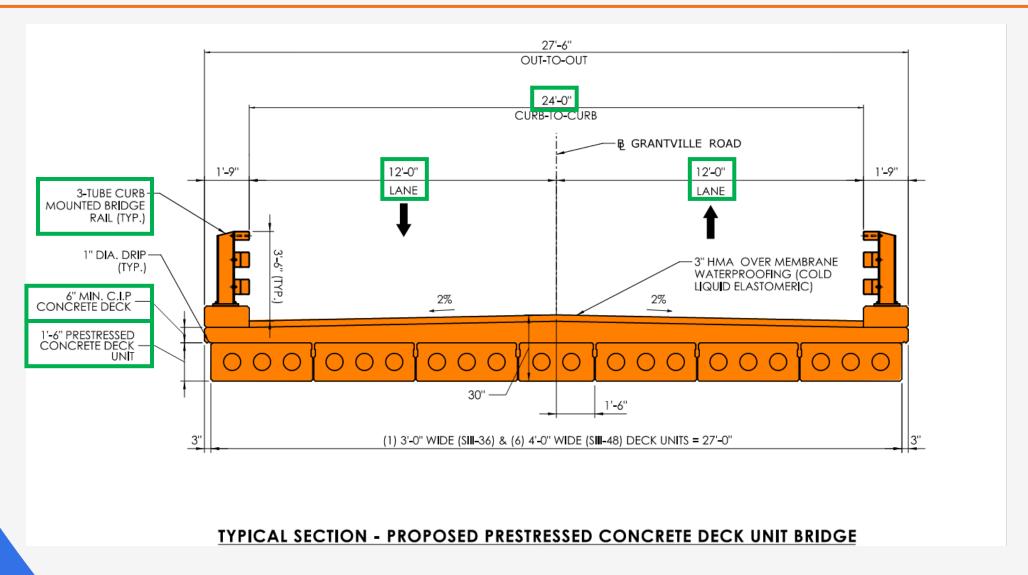
- Form Liner Applied To Concrete Simulating Stones (End Blocks and Wingwalls)
- Metalized Bridge Rail to Town's Color Choice





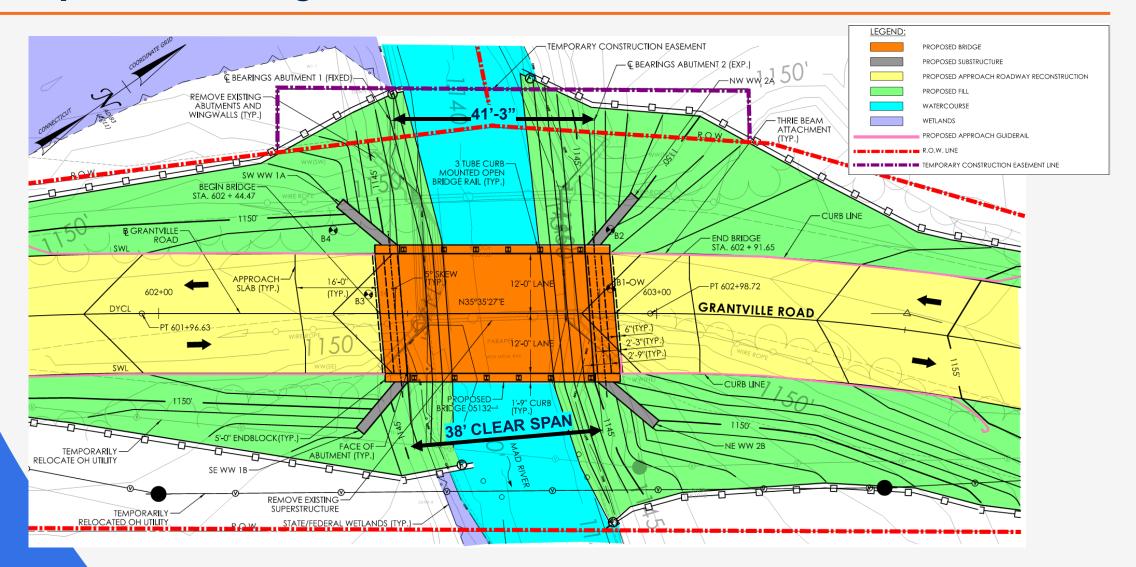


### **Proposed - Cross Section**





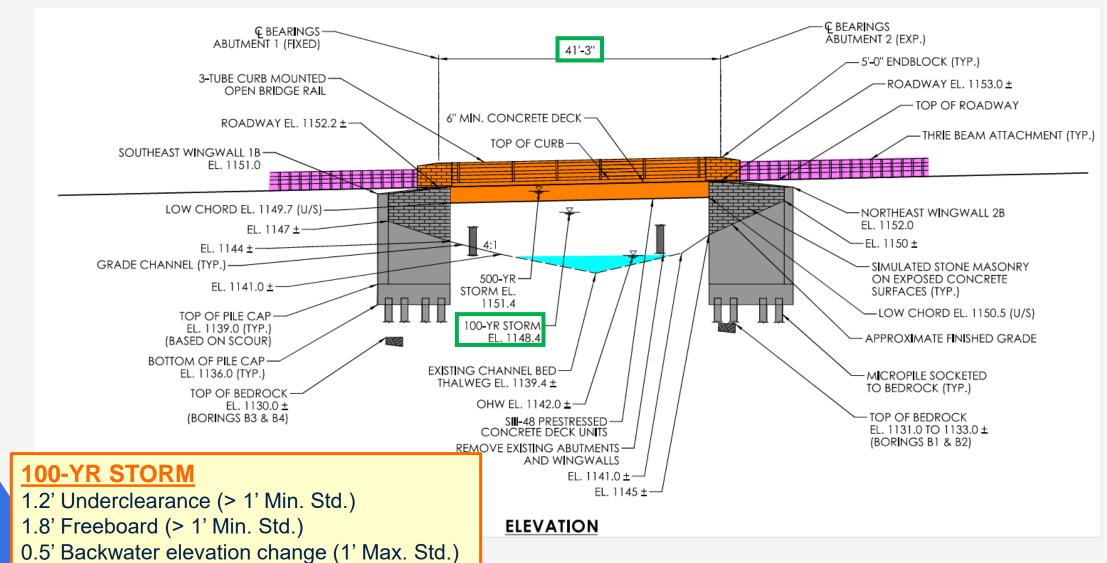
## Proposed - Bridge Plan





### Proposed – Bridge Elevation

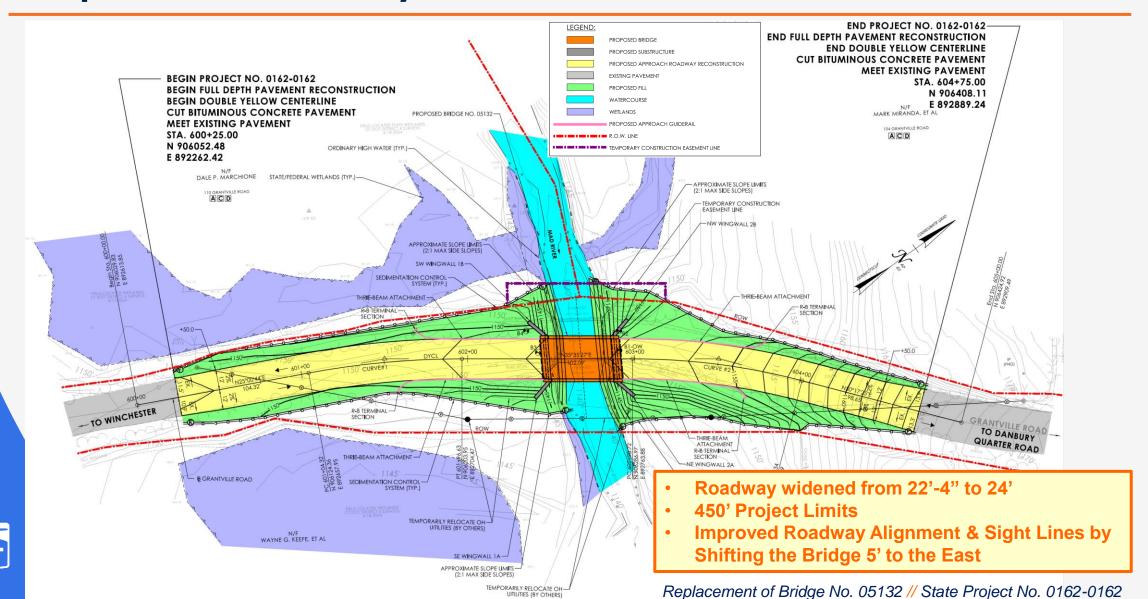
**ALL MEET STANDARDS** 



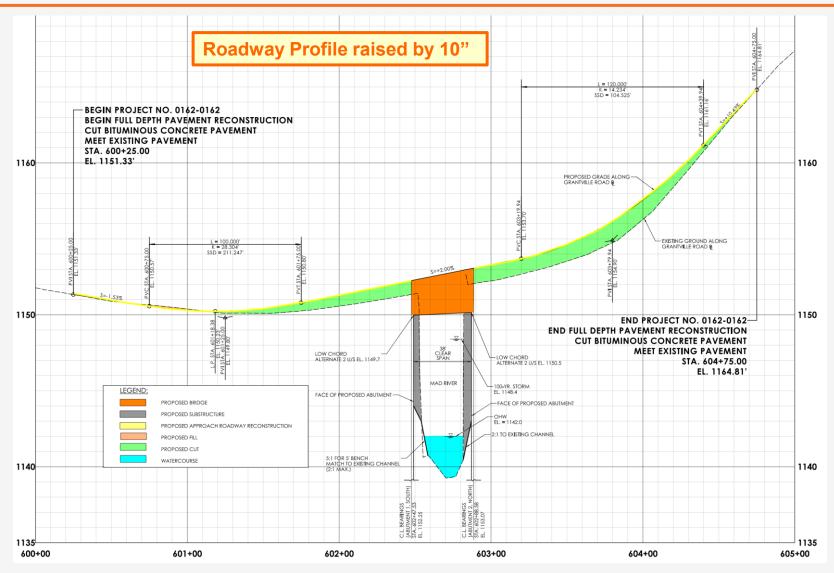


### Proposed - Roadway Plan

CTDO

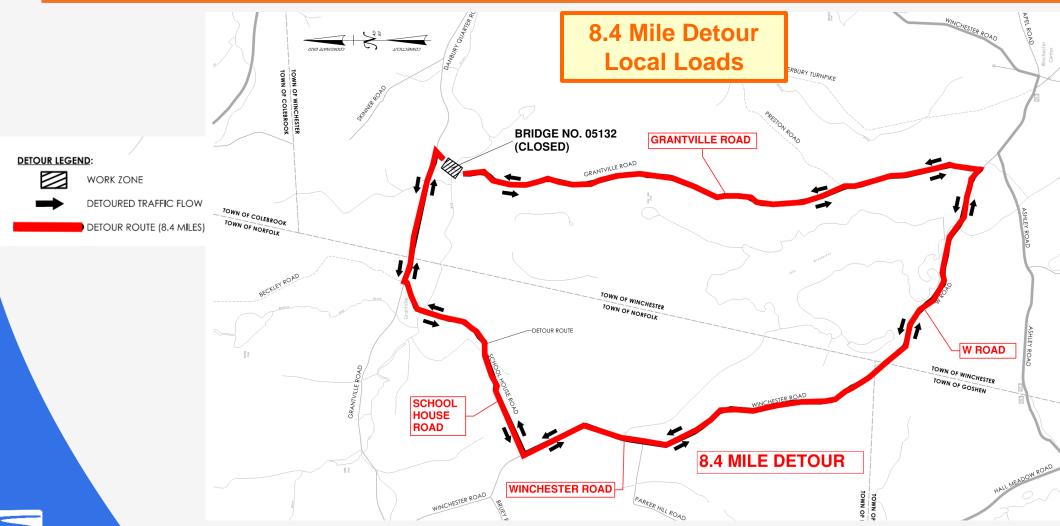


## Proposed – Roadway Profile





## **Proposed - Roadway Detour**





## Utility, Environmental and Historical Impacts

#### ☐ Utility Impacts:

 Overhead utilities located east side of the existing bridge to be temporarily or permanently relocated and maintained throughout construction

#### ■ Environmental Impacts:

- Temporary & Permanent Wetland Impacts
- Minimal work in Waterway
- Best-Management Practices for Fish & Wildlife

#### ☐ Historical Impacts:

No Historical Impacts Anticipated

#### ■ Anticipated Permits:

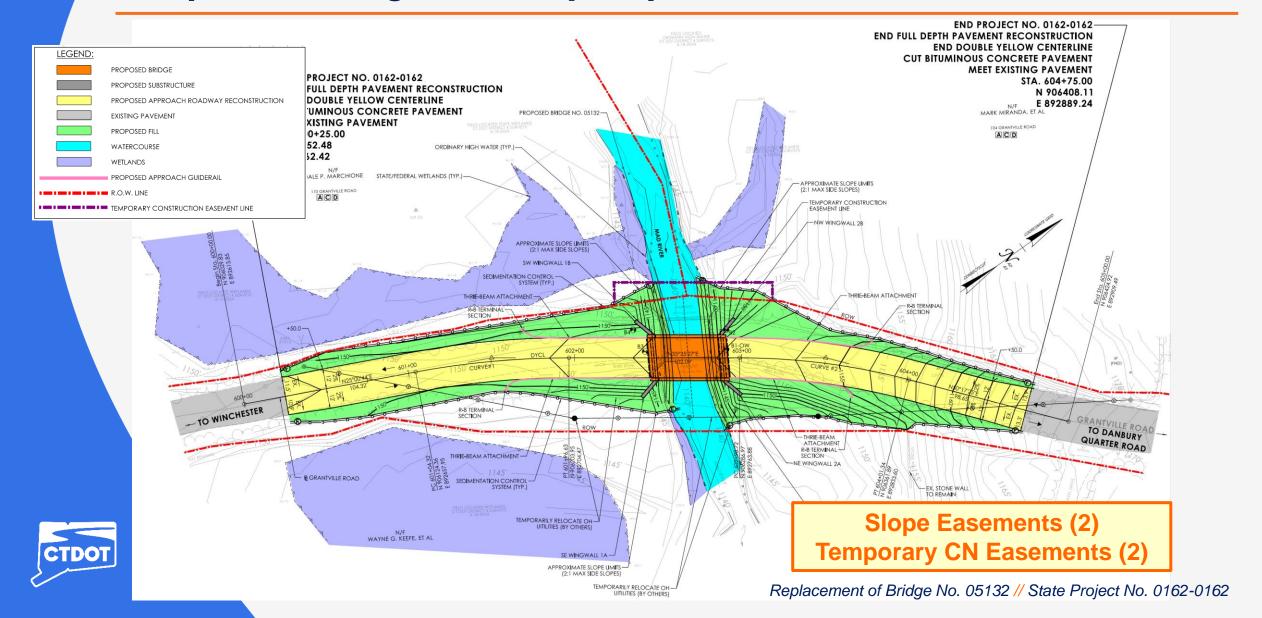
- Town of Winchester Inland Wetlands & Watercourses Permit
- CTDOT FMC-MOU
- US Army Corps of Engineers Self Verification Registration







## Proposed – Right of Way Impacts



# Right-of-Way Relevant Law

#### **State of Connecticut**

C.G.S. Sections 13a-73 & 13a-98e

#### **Federal**

 Uniform Relocation Assistance and Real Property Acquisition Policies Act of 1970, as amended.





# Right-of-Way Acquisition Process

Letter of Intent to Acquire

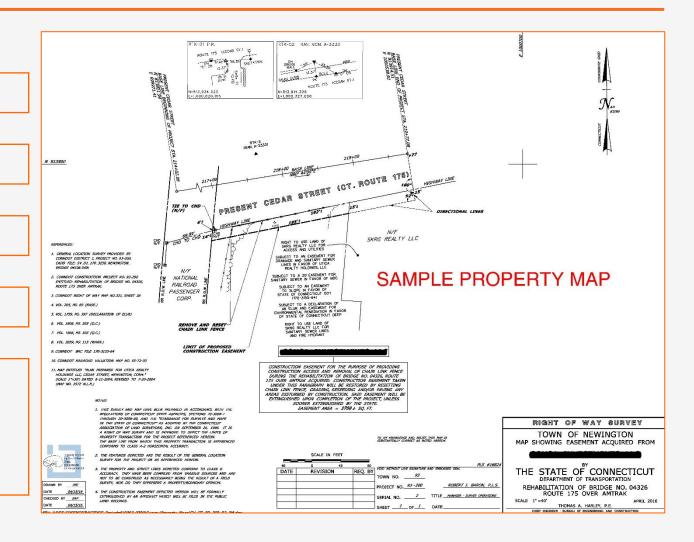
Valuation

Offer of Just Compensation

Negotiation

#### Acquisition

- Agreement
- Eminent Domain/Condemnation
- 6-month Appeal Period





### **Project Schedule & Construction Cost**

#### □ Schedule

- Construction Start: Spring 2027 (subject to ROW and permit approvals)
- Construction Duration: 1 Season (8 Months)
- ☐ Construction Cost: \$3,900,000
  - 80% Federal Funds & 20% State Funds
  - No Cost to the Town of Winchester

Note: The cost and schedule are preliminary and are subject to change



#### **Question & Answer Session**



By Email: <a href="mailto:DOT-FLBP@ct.gov">DOT-FLBP@ct.gov</a>



By Phone: (860) 594-2020 (voicemail)



Project Webpage: https://portal.ct.gov/DOTWinchester0162

Note: Comment period is open through June 23, 2025

\*The public can submit comments and questions during two-week public comment period following meeting. Direct comments and questions by June 23, 2025, to Andrew Shields, Project Engineer, by email at <a href="mailto:Andrew.Shields@ct.gov">Andrew.Shields@ct.gov</a> or by phone at (860) 594-2077.





# **Thank You!**