

State Project 0073-0194: Replacement of Bridge No. 02231 Carrying Route 202 (Bantam Road) over Still Brook in Litchfield

In Person Event: Tuesday, January 24th, 7:00 PM

Located at Borough of Bantam Hall

890 Bantam Rd, Litchfield CT 06750

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

Project Email:

DOTProject73-194@ct.gov

Phone: [\(860\) 594-2020](tel:(860)594-2020) (voicemail only)

Visit the Project Webpage:

- <https://portal.ct.gov/DOTLitchfield0073-0194>

Comment Period open through: February 7th, 2023



Purpose of Tonight's Meeting

- Introduce the Project Team
- Formal Presentation of the Design
 - Overview of the Existing Bridge
 - Review the Purpose and Need for the project
 - Review the Proposed Bridge Design
 - Overview of Design Schedule
 - Overview of Construction Schedule & Impacts
- Rights of Way Process
- Open Q&A session



Replacement of Bridge No. 01547 // State Project No. 0052-0093



Title VI – Civil Rights Act

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://survey123.arcgis.com/share/8f49e1ad5d3946d083f71825ee49f67f>

- **Title VI Notice to the Public Available:**

- <https://portal.ct.gov/DOT/Business/Office-of-Equity/Title-VI-Page/Contract-Compliance/Title-VI-Page>

The above links are available on the project webpage:

<https://portal.ct.gov/DOTLitchfield0073-0194>



Team Introduction



**Bart Sweeney,
P.E.**
Division Chief of
Bridges – CTDOT



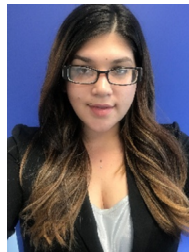
**Andrew
Cardinali, P.E.**
Principal Engineer
– CTDOT, Bridge
Design



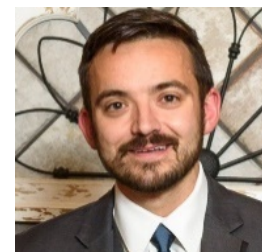
**Jonathan
Kempf, P.E.**
Project Manager
– CTDOT, Bridge
Design



**Ostap
Lisowitch**
Project Engineer
– CTDOT, Bridge
Design



**Michelle
Rame**
Design Engineer
– CTDOT, Bridge
Design



**Matt
Geanacopoulos**
Rights-of-Way
Coordinator –
CTDOT, Office of
Rights of Way

Replacement of Bridge No. 02231 // State Project No. 0073-0194



The Question & Answer (Q&A) Session

There are 3 means of communicating with us:

- Email: DOTProject73-194@ct.gov (preferred)
- Phone: (860) 954-2020 (please leave a voicemail)
- Public Information Meeting Q&A (only available during meeting immediately following the presentation)

Note: The comment period is open through **Tuesday, February 7th.**

Visit the Project Webpage:

<https://portal.ct.gov/DOTLitchfield0073-0194> Litchfield (ct.gov)



Replacement of Bridge No. 02231 // State Project No. 0073-0194



State Project No. 0073-0194
Replacement of Bridge No. 02231
CT Route 202 Over Still Brook
Town of Litchfield

PUBLIC INFORMATION MEETING

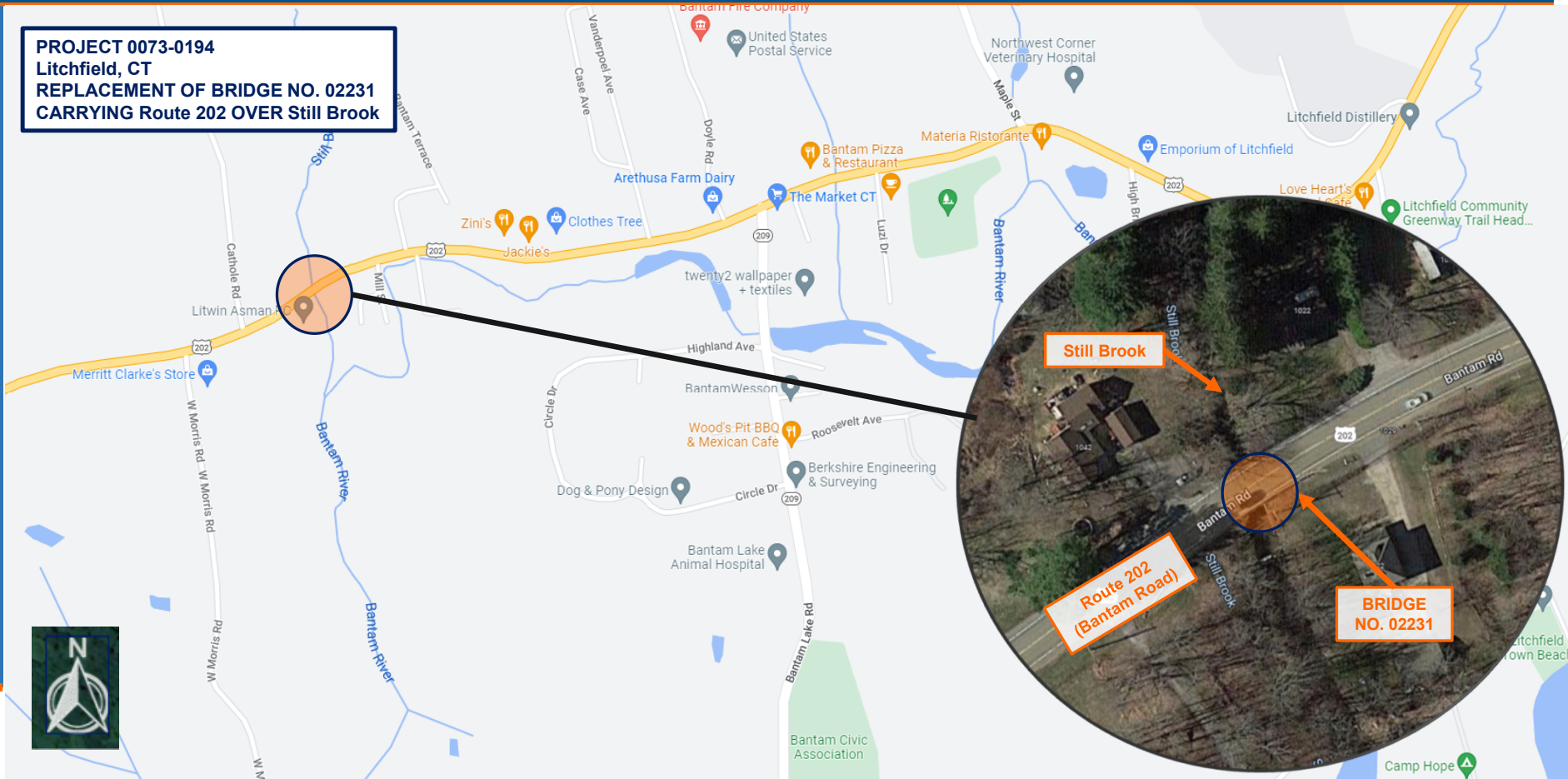


Replacement of Bridge
No. 02231



Project Location

PROJECT 0073-0194
Litchfield, CT
REPLACEMENT OF BRIDGE NO. 02231
CARRYING Route 202 OVER Still Brook



Replacement of Bridge No. 02231 // State Project No. 0073-0194



Project Location



Replacement of Bridge No. 02231 // State Project No. 0073-0194

Existing Bridge Data

STRUCTURE DESCRIPTION

- Bridge Number 02231
- Built in 1928
- Structure Type: Single span, concrete slab bridge on masonry abutments with a reinforced concrete deck
- Span Length: 11'
- Curb-to-Curb width: 29'-8"
- Overall width: 32'-1"



Replacement of Bridge No. 02231 // State Project No. 0073-0194



Existing Bridge Data

FUNCTION

- Carries Route 202 (Bantam Road) over Still Brook
 - One lane of traffic for each direction
- Estimated Average Daily Traffic (ADT, 200)=7400 Vehicles (6% Trucks)



Bridge From East Approach



Purpose and Need

9 - Excellent
8 - Very Good
7 - Good
6 - Satisfactory
5 - Fair
4 - Poor
3 - Serious
2 - Critical
1 - Imminent Failure

Bridge Condition Ratings

- **Purpose**

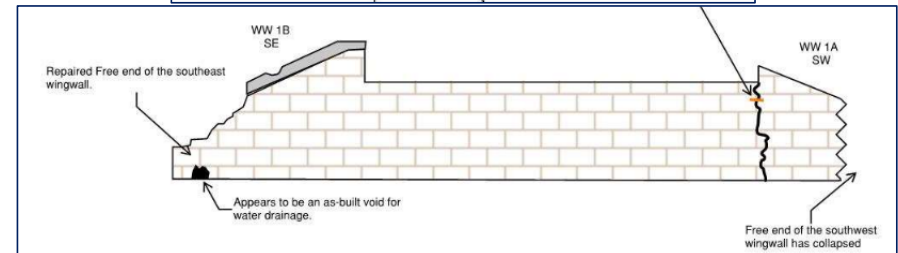
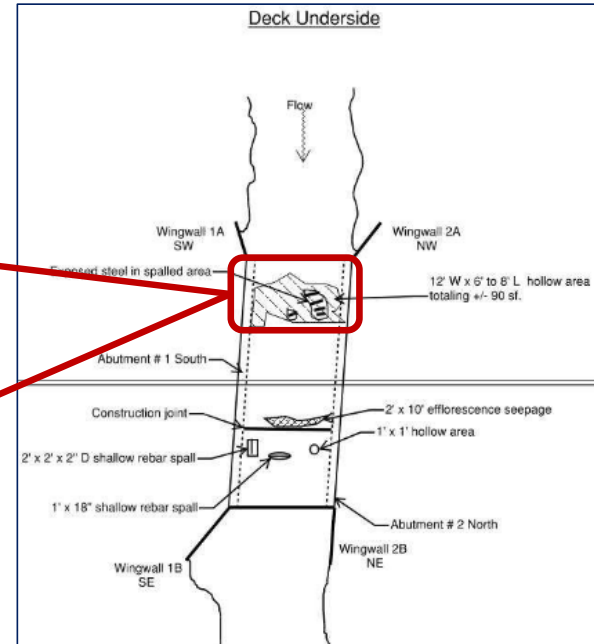
Address the structural deficiencies of the existing structure to improve the conditions of the bridge to a state of good repair

- **Need**

Superstructure is in “poor” condition (rating = 4) and the substructure is in “fair” condition (rating = 5)



Existing Site Condition



Replacement of Bridge No. 02231 // State Project No. 0073-0194



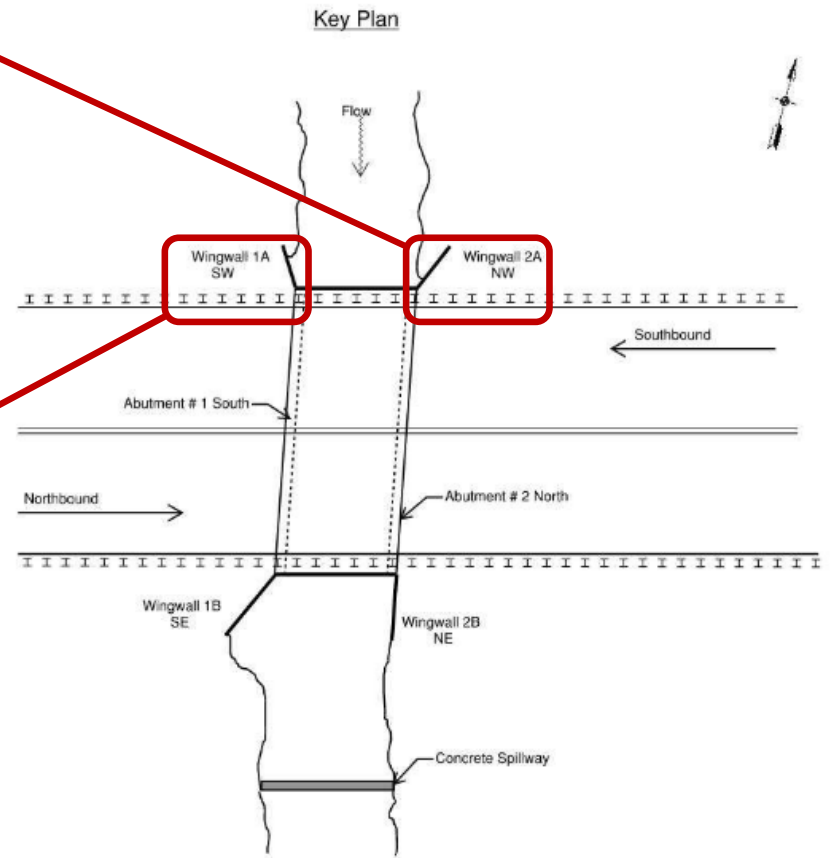
Existing Site Condition



Northwest Wing-Wall



Southwest Wing-Wall

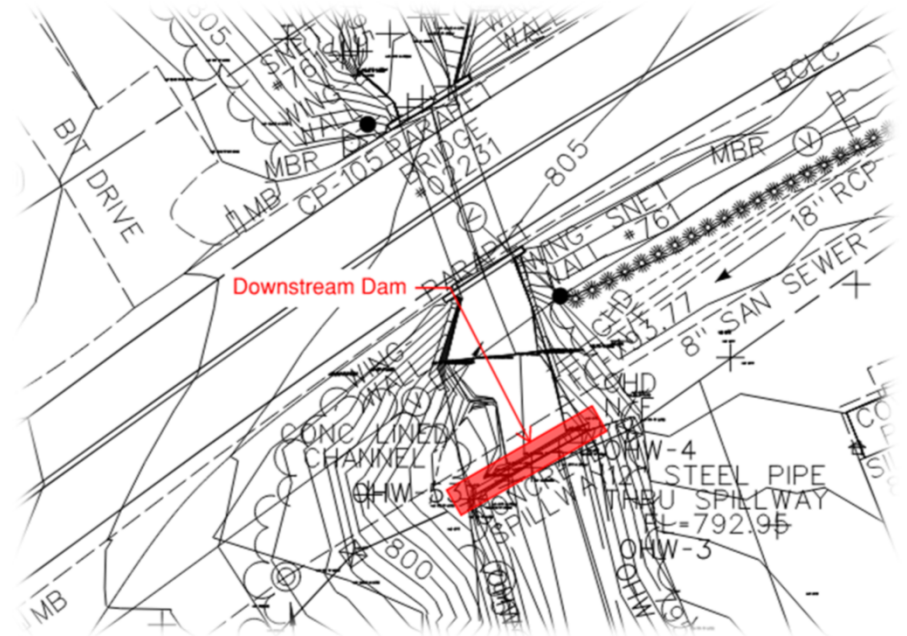


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Environmental Consideration

- DEEP fisheries division recommends to remove the concrete apron and partially remove the existing concrete dam downstream from the bridge to provide an additional 3.75 miles of fish passage.



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Existing Site Condition



Existing Concrete Dam
– Looking Downstream

Existing Concrete Dam
– Looking Upstream
(Breached)

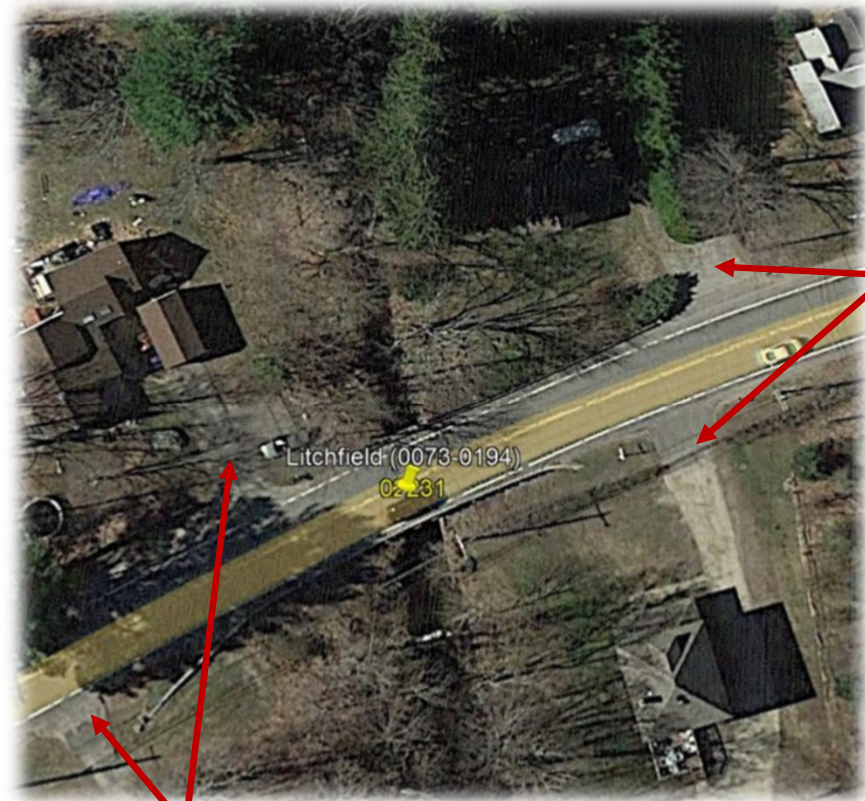


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Site Constraints

- Challenging Site Conditions
 - Unknown Foundations
- Hydraulic Constraints
- Utility Considerations
 - Service Poles
 - Sanitary Sewer
 - Roadway Runoff
- ROW



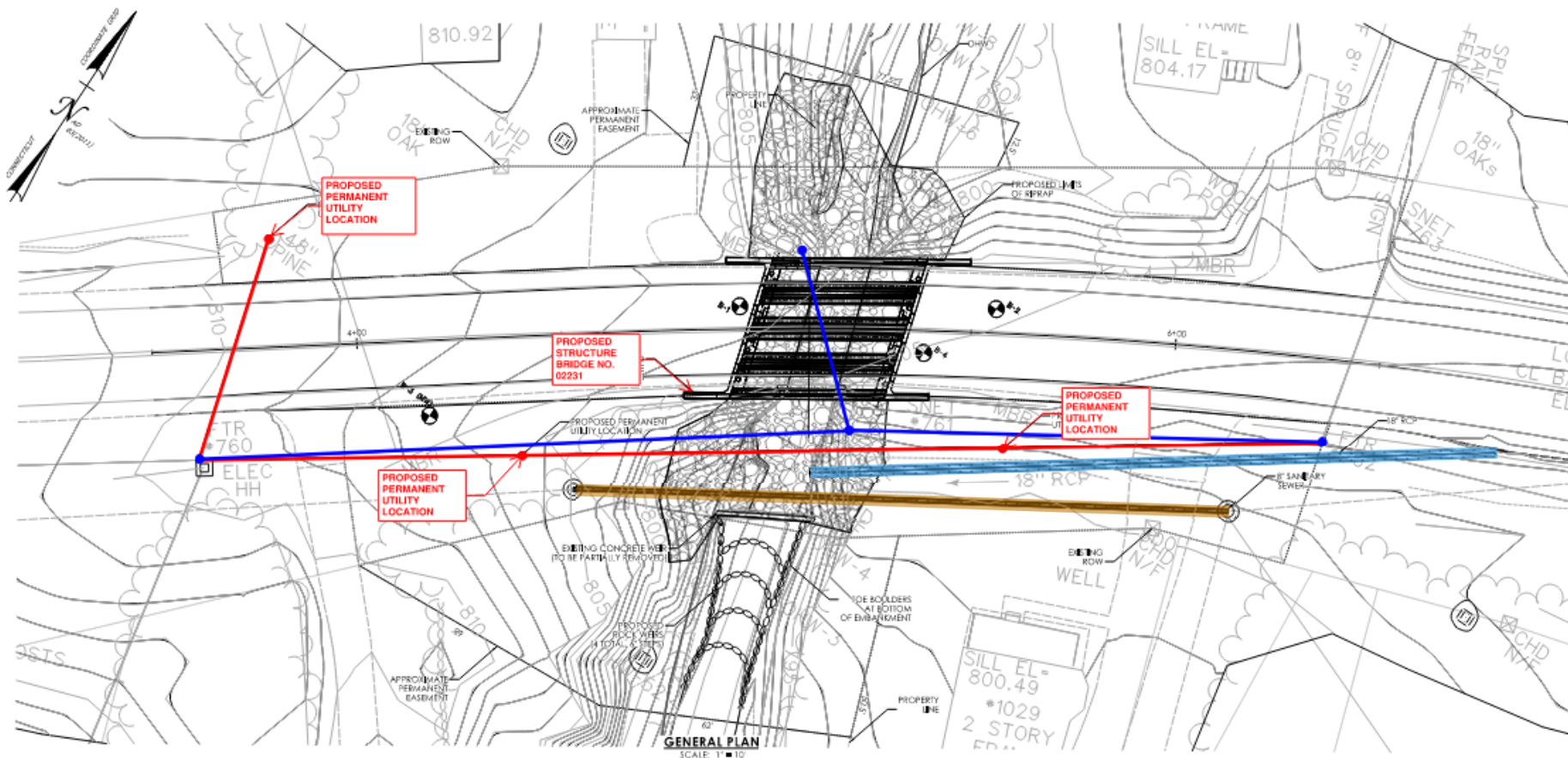
Residential Driveways

Residential Driveways

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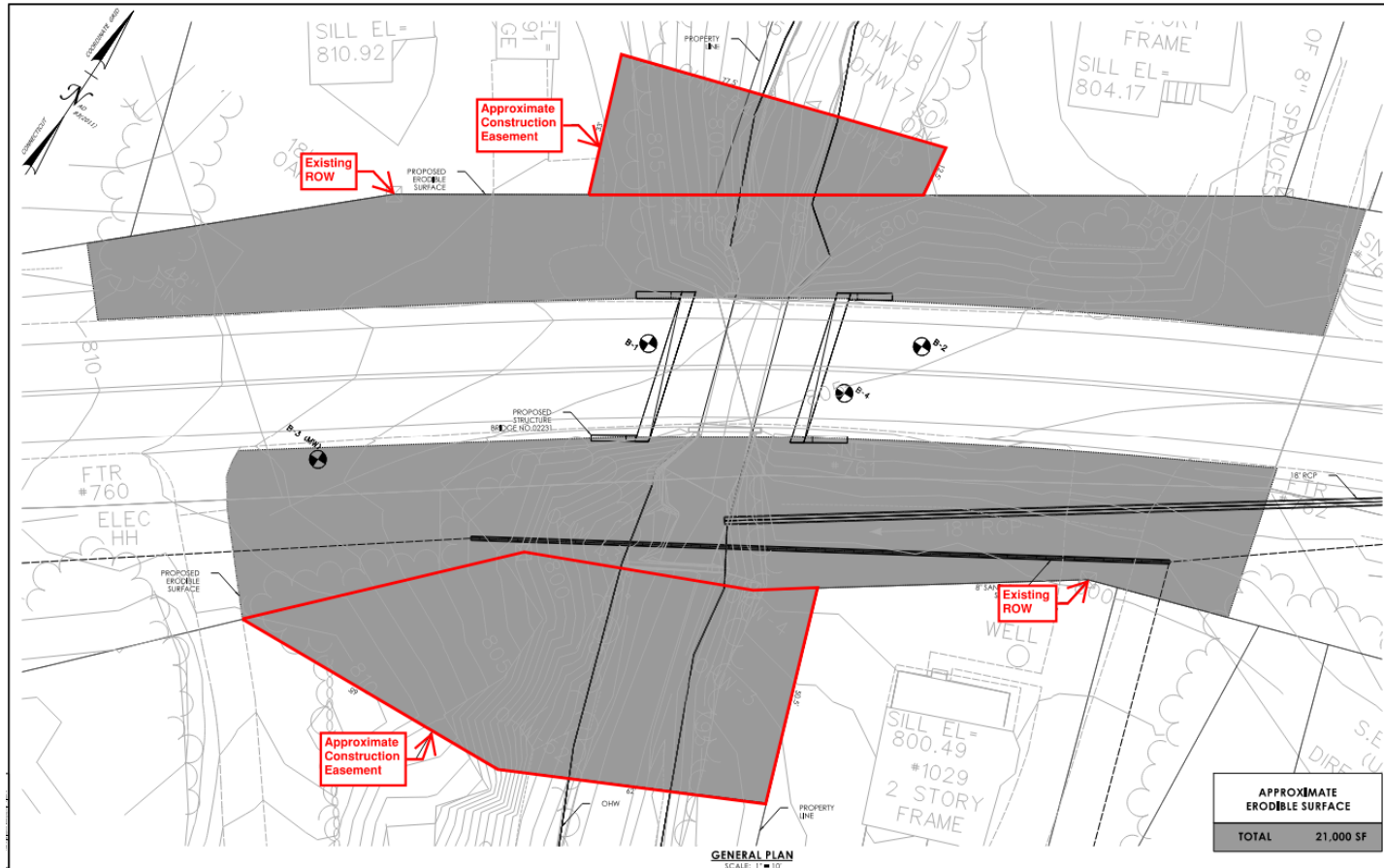
General Plan and Utility Considerations



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Rights of Way Impacts



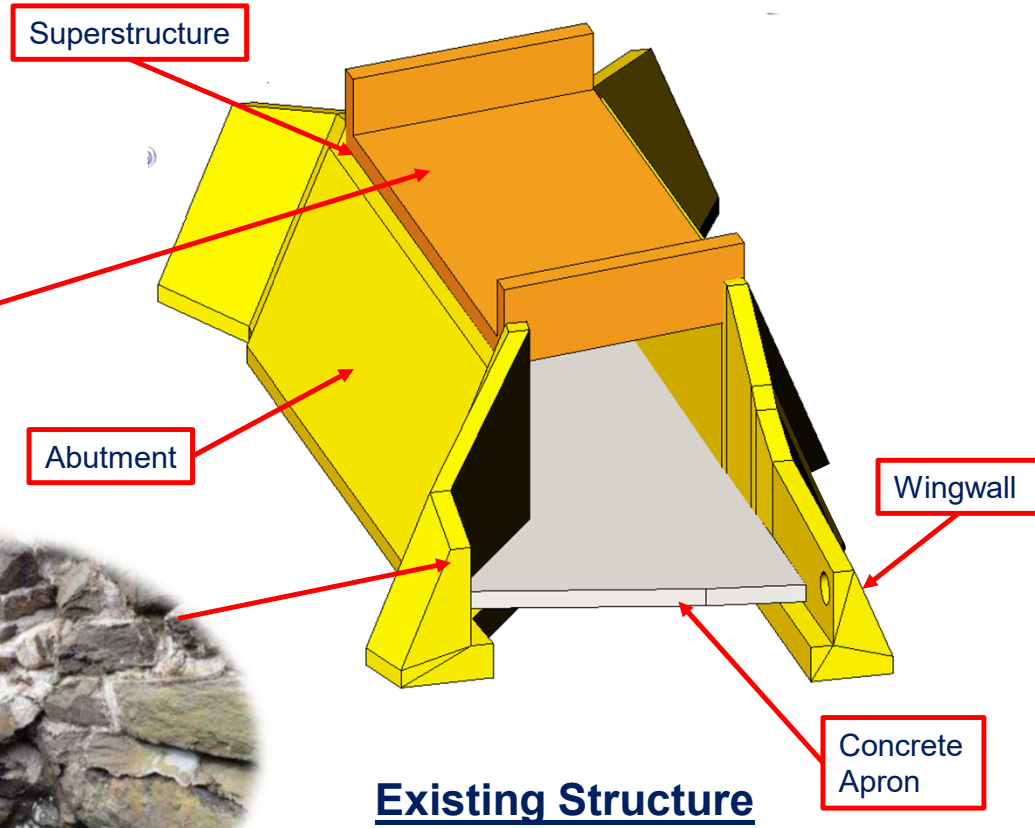
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Proposed Project No. 0073-0194

Reasoning:

- Superstructure is in “poor” condition (rating = 4)
- Substructure is in “fair” condition (rating = 5)

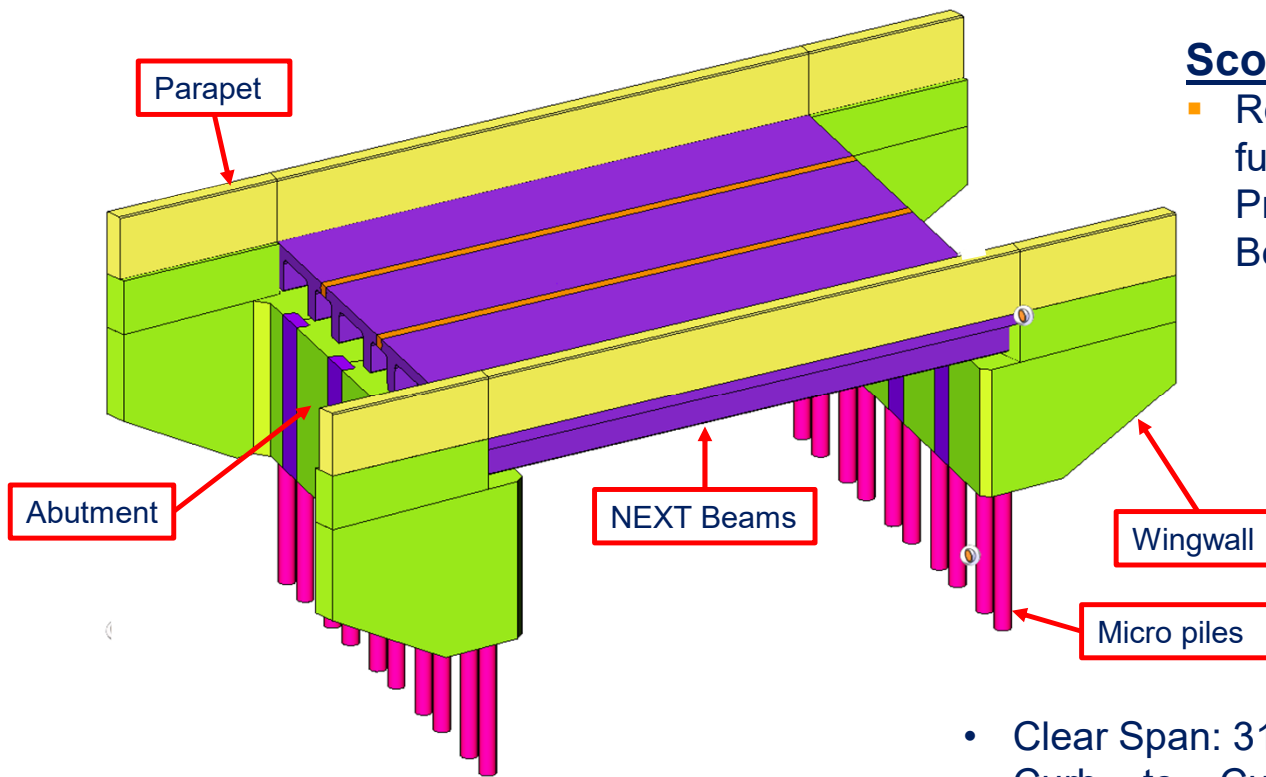


Existing Structure

Replacement of Bridge No. 02231 // State Project No. 0073-0194



Proposed Structural Plan



Proposed Structure

Scope:

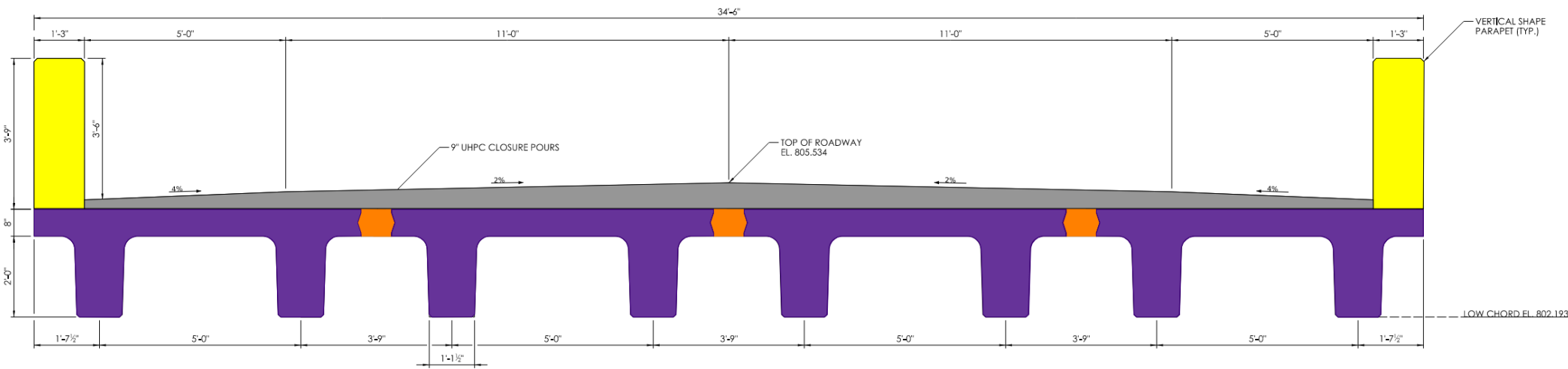
- Replace the existing bridge with fully integral precast abutments, Prestressed concrete NEXT Beams and precast wingwalls

- Clear Span: 31 feet
- Curb – to – Curb: 32 feet
 - 2 – 11-foot lanes and 5-foot shoulders

Replacement of Bridge No. 02231 // State Project No. 0073-0194



Proposed Structure: Superstructure Cross Section



PROPOSED TYPICAL SECTION
SCALE: 3/4"=1'-0"



Estimated Project Schedule/Cost

Schedule:

- Anticipated construction schedule start: Spring 2025

Cost:

- Total project cost is approximately \$4.1 Million
- 80% Federal – 20% State

Duration:

- 1 Construction Season

Construction Method:

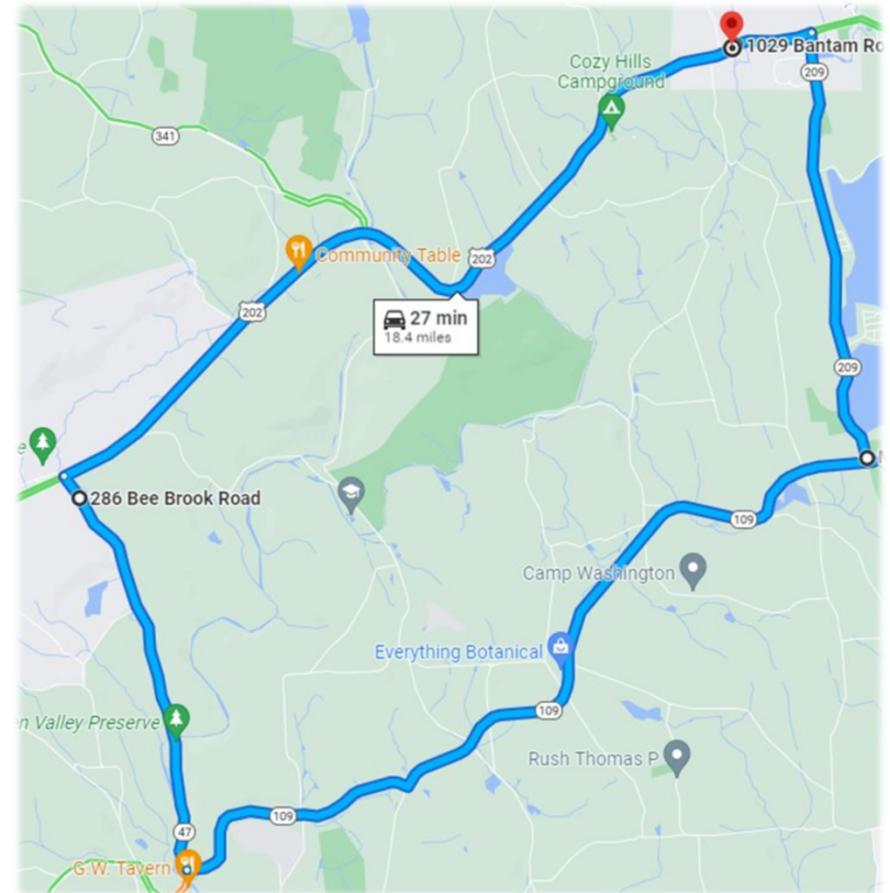
- 10 Week – full road closure at the bridge location
 - Late summer into fall
 - Litchfield Hills Road Race



State Road Detour

- Proposed state route detour at 18.4 miles or about 27 minutes.
 - Posted detour is primarily for truck traffic.
- Detour duration - 10 weeks.
- The detour shown here will be using the 4 state Routes:
 - Route 202
 - Route 209
 - Route 109
 - Route 47

Residents will be able to use surrounding roads to maneuver around construction with local detours available as short as 3.4 miles, but there will not be a posted and signed local detour.



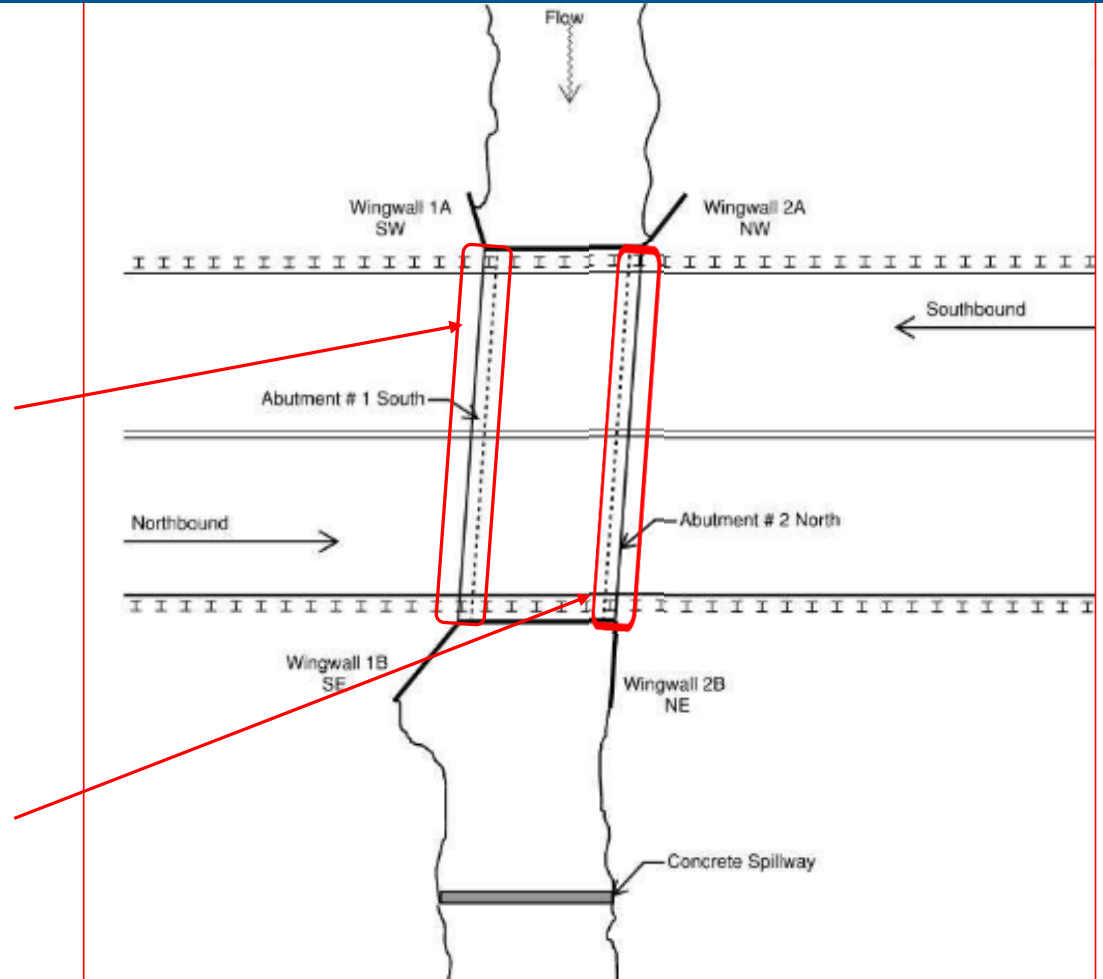
Concerns with Staging



Abutment #1 (South)



Abutment #2 (North)



Concerns with Staging - Lessons Learned

Replacement of Bridge 01379 (Route 150 over Wharton Brook) Wallingford, CT

- 2017 – 2020 (3.5 years to complete)
- 63% over contract duration
- Residents had to endure a total shutdown for almost 2 years



Concerns with Staging - Lessons Learned

Replacement of Bridge 00617 (State Route 800 over Mad River) Winchester, CT

- Constructed in 2022
- Masonry retaining wall collapse
- Construction stopped to assess damage and safety moving forward



Benefits of an Extended Road Closure

Full road closures can improve the road rehabilitation process, creating efficiencies that reduce project duration and, in some cases, overall costs, while improving safety.

- Shorter Overall Project Duration
- Avoid Complications with Unknown Footings
- Allows for a Shorter Span Length and Width
- Safer Construction Site for Workers and Road Users
- Liquidated Damages in Place to Ensure the Project Completion Date



Right-of-Way Relevant Law

State of Connecticut

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



Matt Geanacopoulos
Rights-of-Way Coordinator

Federal

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



Right-of-Way Acquisition Process

Letter of Intent to Acquire

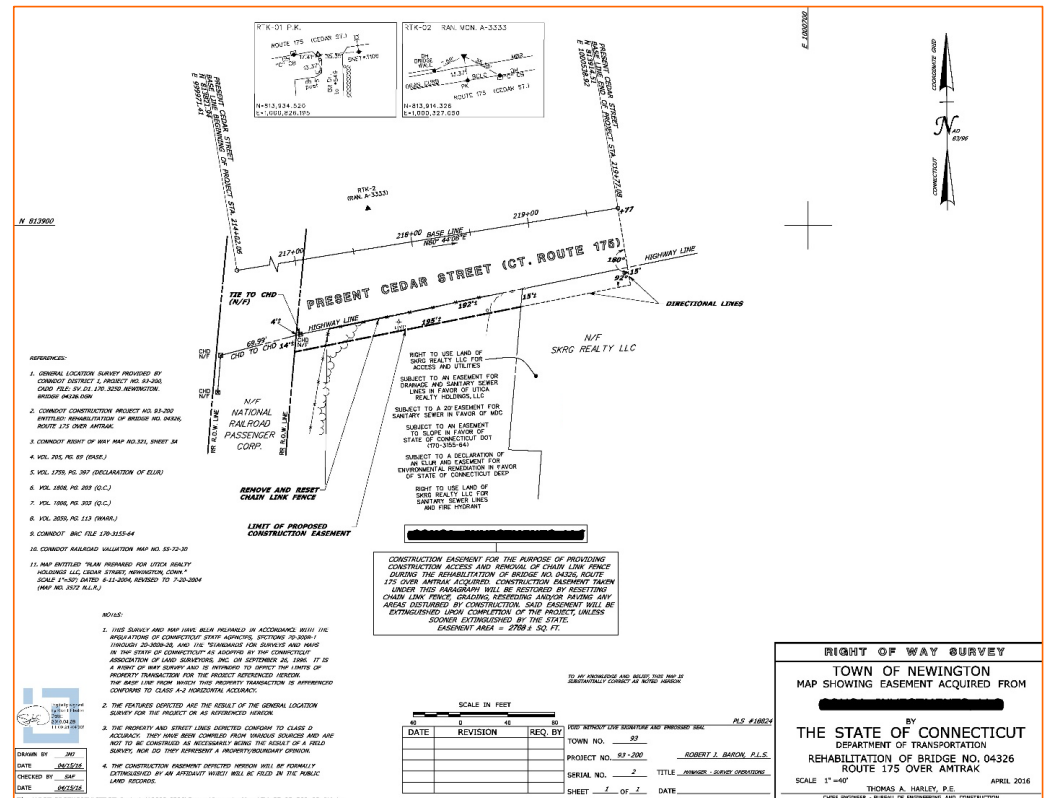
Valuation

Offer of Just Compensation

Negotiation

Acquisition

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



Sample Property Map

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Survey

Please complete our survey:

<https://survey123.arcgis.com/share/8f49e1ad5d3946d083f71825ee49f67f>

The survey link is also available on our webpage:

<https://portal.ct.gov/DOTLitchfield0073-0194>

Results from the survey will be used to provide enhancements to our future presentations.

Your comments and questions from tonight's Q&A session, and our answers to those questions, will be posted to the project webpage as a Report of Meeting in the coming days.



Send a Question or Comment



by email: DOTProject73-194@ct.gov



by phone: (860) 594-2020



by chat: Post Presentation Q&A

Note: The comment period is open through **Tuesday, February 7th ***

*Access by Email and Phone only. Live Q&A only available
Immediately following the in-person presentation.

