

# Burlington City Council Meeting

Burlington-Winooski BF RAIZ(2)  
Burlington STP 5000(29)

January 16, 2024

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# Introductions

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- **Bob Klinefelter** – VTrans Structures Project Manager
- **Mike LaCroix** – VTrans Traffic Project Manager
- **Josh Olund** – HNTB Structures Project Manager
- **Steve Spear** – HNTB Roadway Project Manager

# Agenda

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Project Location



Past Efforts



Current Efforts



Future Efforts

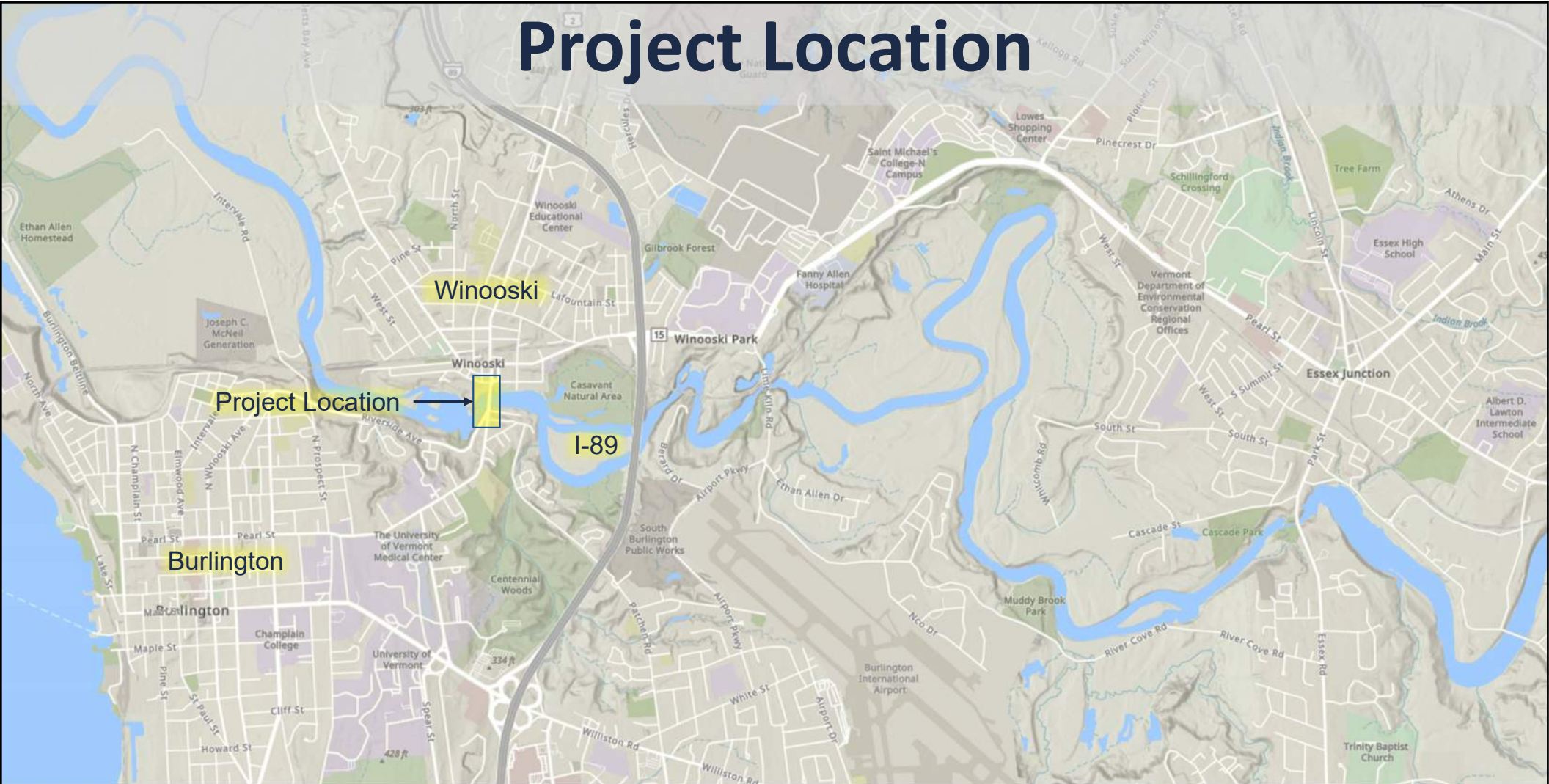


Project Delivery

# Project Location



# Project Location



# Project Site

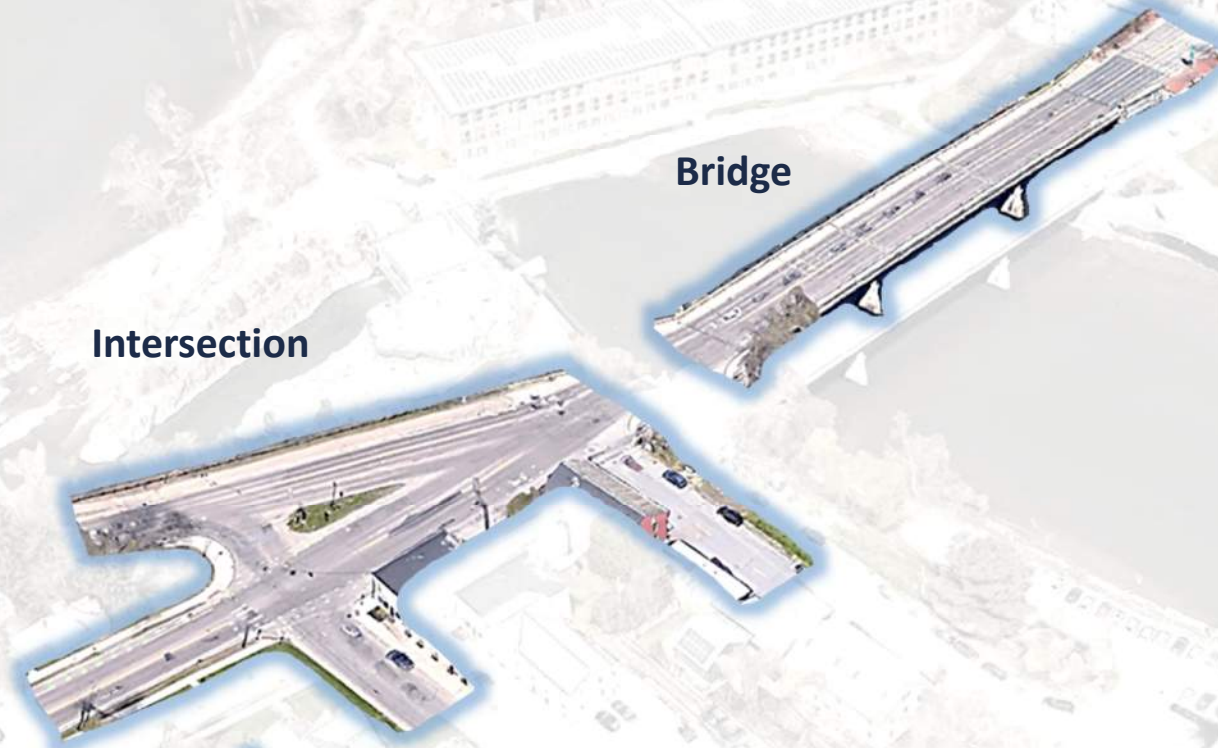


Image Landsat / Copernicus

# Project Area



# Project Focal Points



Bridge

Intersection



# Past Efforts



# Project Definition

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April 2017 – May 2019

- Purpose and Need Established
- Public Meetings
- Project Advisory Committee Meetings
- City Council Meetings
- Traffic Study
- Alternatives Evaluation
- Preferred Alternative Defined

# Project Reports

- Bridge Scoping Report
- Intersection Scoping Report
- Bridge Grant Application



CHITTENDEN COUNTY REGIONAL PLANNING COMMISSION

SCOPING REPORT

FOR

MAIN STREET BRIDGE (US ROUTES 2 & 7) OVER THE  
WINOOSKI RIVER

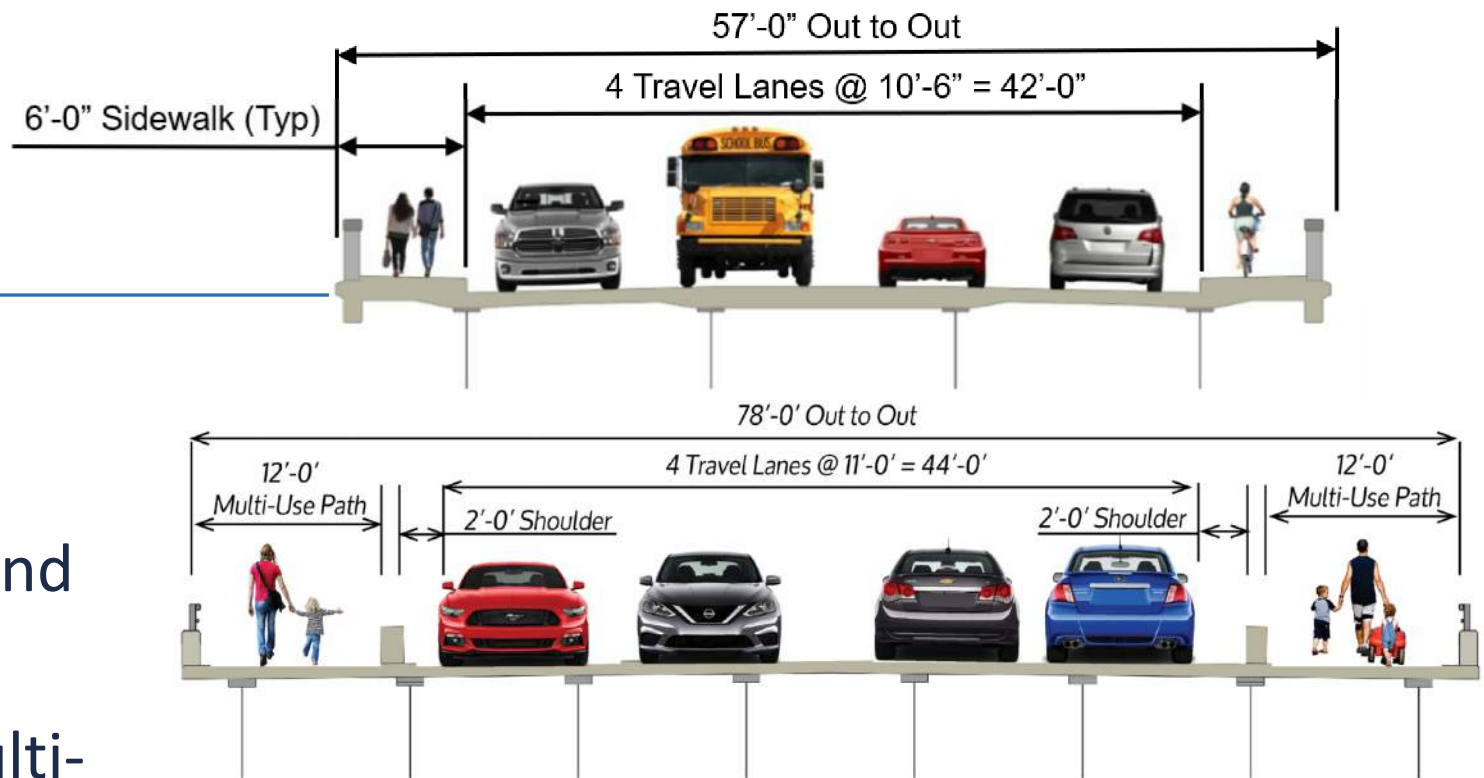
# Bridge Scoping Report (2019)

- Recommended replacement
- Focus on bike/pedestrian accommodations
- Conceptual construction methods



# Bridge Features

- Complete replacement
- Wider lanes and shoulders
- Separated multi-use paths



# Intersection Scoping Report (2019)

- Recommended 4-Way intersection
- Focus on bike/pedestrian accommodations, mobility, and safety

COLCHESTER AVENUE/RIVERSIDE AVENUE  
Burlington, Vermont

Final Scoping Report



Prepared by:

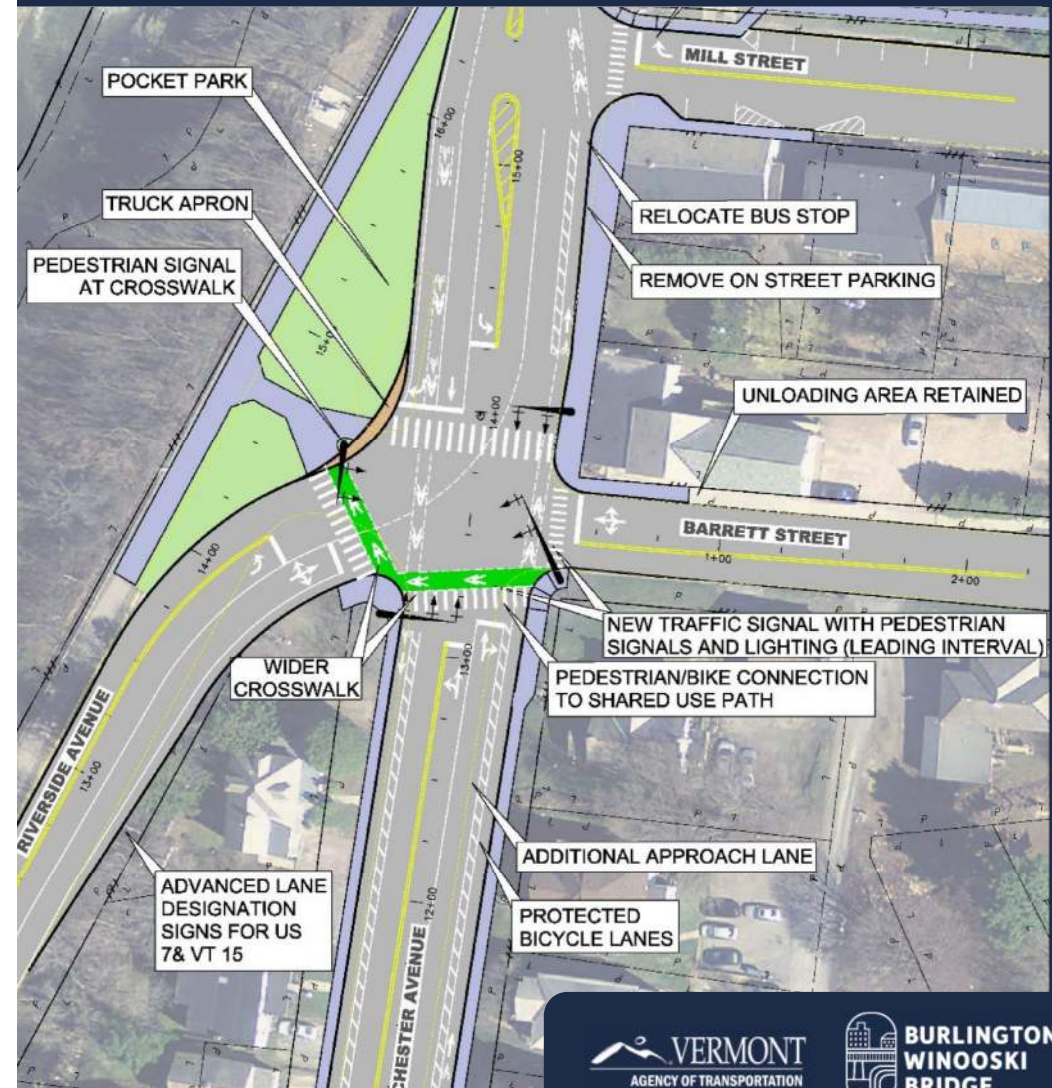


Prepared for:



# Intersection Features

- Consolidated intersection
  - Improved safety and mobility
- Emphasis on Bike/Pedestrian improvements



# Bridge Grant Application (2022)

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- Obligated to:
  - Improve safety
  - Address bike/pedestrian accommodations
  - Complement the natural and cultural environment
  - Provide appealing bridge



**WINOOSKI RIVER  
BRIDGE REPLACEMENT**  
Enhancing the Economic and  
Social Connections Between Communities  
*CHITTENDEN COUNTY  
CITIES OF BURLINGTON AND WINOOSKI, VERMONT*



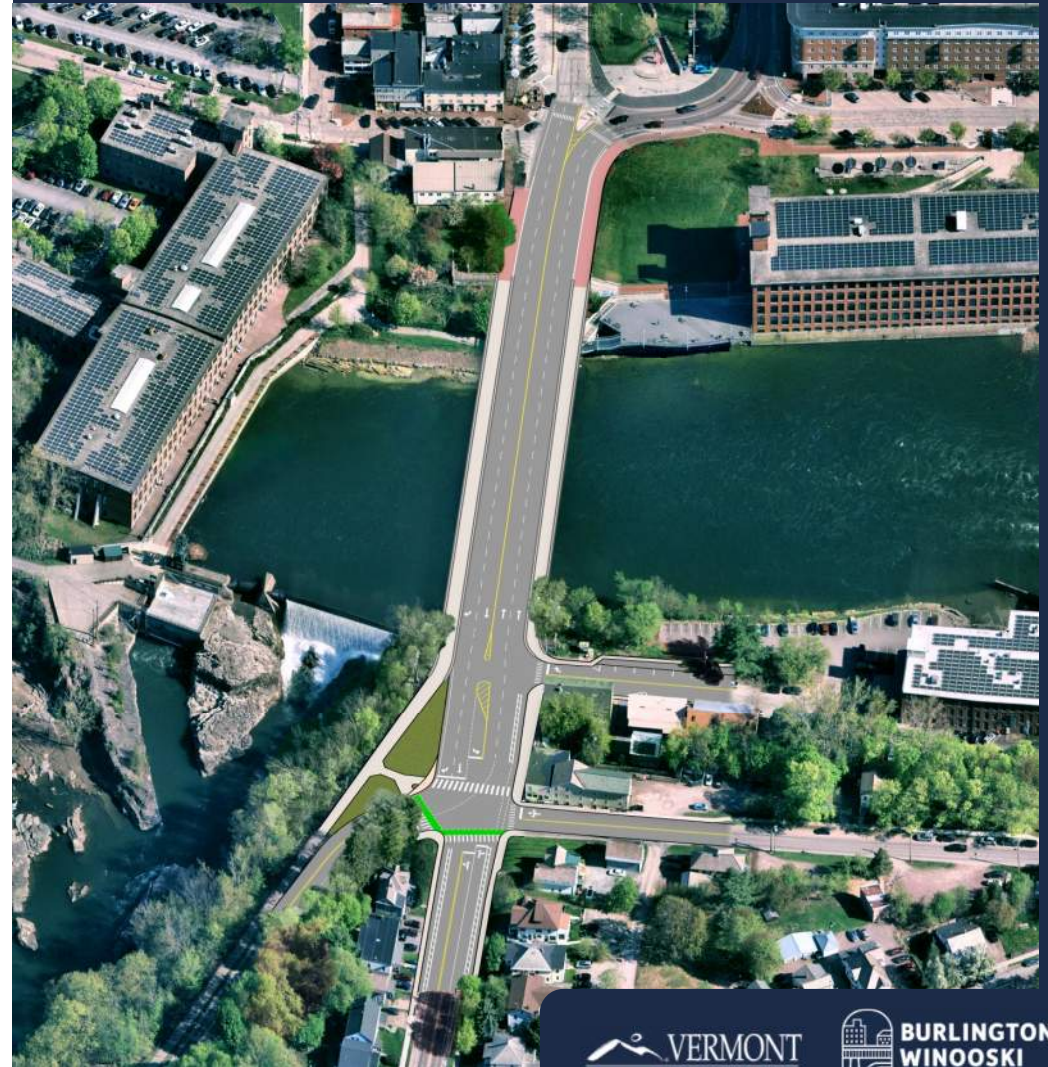
# Current Efforts



# Project Compilation

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- Concept Plans complete
- Need to combine recommendations of intersection and bridge project



# Project Design

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Feb 2023 – June 2026 *(est)*

- Selected Alternative Refinement
- Preliminary Design
- Traffic Control
- ROW Process
- Utility Relocation
- Environmental Permitting
- RFQ and RFP Development  
*(Design-Build Contracting)*

# Project Design

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Feb 2023 – June 2026 *(est)*

- Selected Alternative Refinement
- Preliminary Design
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- RFQ and RFP Development  
*(Design-Build Contracting)*

# Selected Alternative Refinement

- Public Outreach
- Stakeholder Engagement
- Property Owner Meetings
- Initial Utility Coordination
- Initial Environmental Coordination

Traffic Calming

Aesthetics

Construction Congestion

Bike/Ped Safety

Mobility

Business Impacts

Construction Costs

Contaminated Soils

Historic Significance



# Targeted Public Outreach

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- Equity Dashboard to track outreach to date and target outreach to ensure thorough representation
- Emergency Services and Transit Coordination
- Travel Survey to capture regional data
- LEP outreach with CCRPC and AALV, translation of project materials



# Preliminary Design

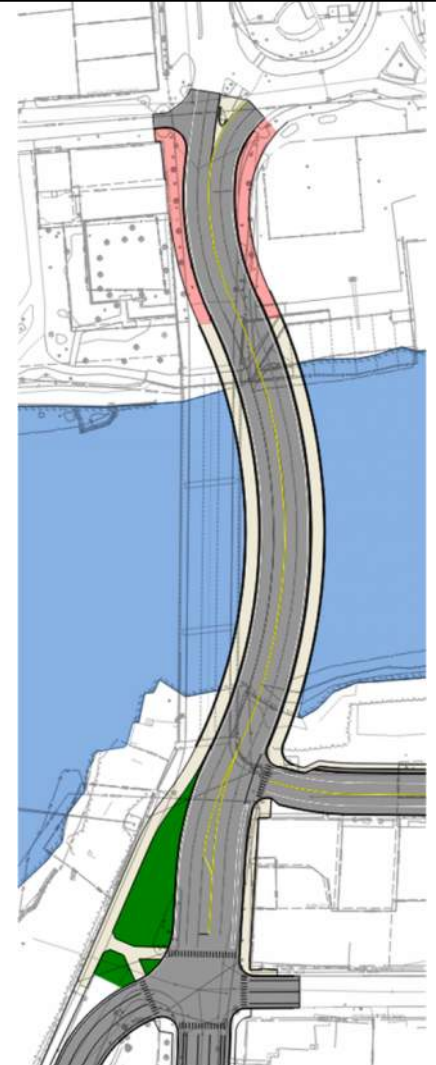
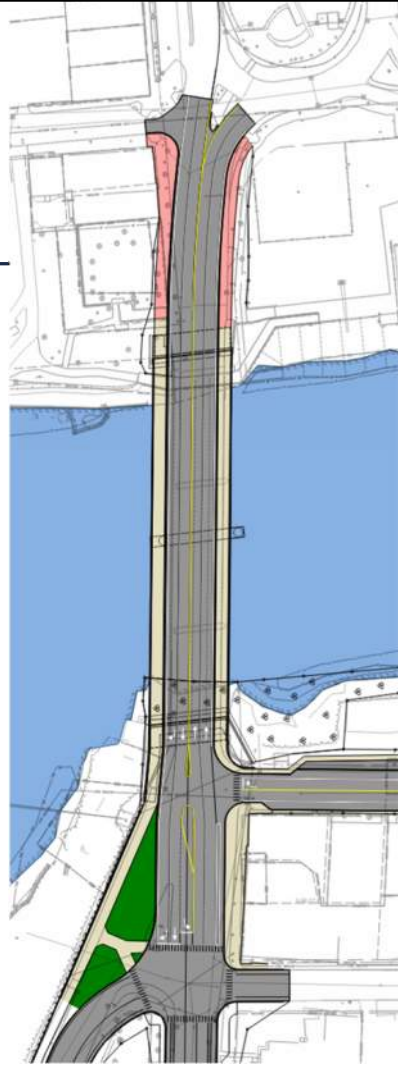
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- Ground Survey
- Combining Bridge and Intersection
- Reviewing Constructability



# Alignments

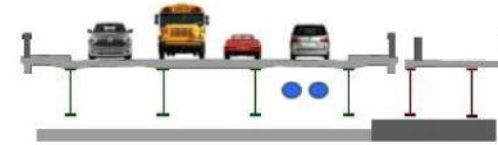
- Multiple Variations Explored
- Different Phasing, Traffic Control





# Bridge Phasing

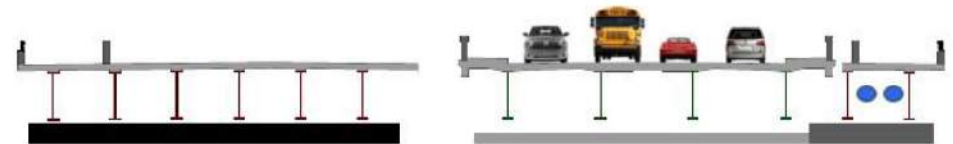
- Build new bridge, next to existing bridge
- Transfer Pedestrians and utilities
- Temporary 4 to 6 week closure for demolition and sliding new bridge together



Phase 1 – Widened Portion of Substructure Units and Superstructure Constructed



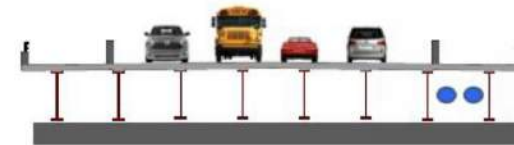
Phase 1a – Utilities Relocated



Phase 2 – New Bridge Superstructure Built Adjacent to Existing Bridge on Temporary Supports



Phase 3 – Bridge Closed to Traffic, Existing Bridge Superstructure Removed, and New Bridge Superstructure Slid to Final Location



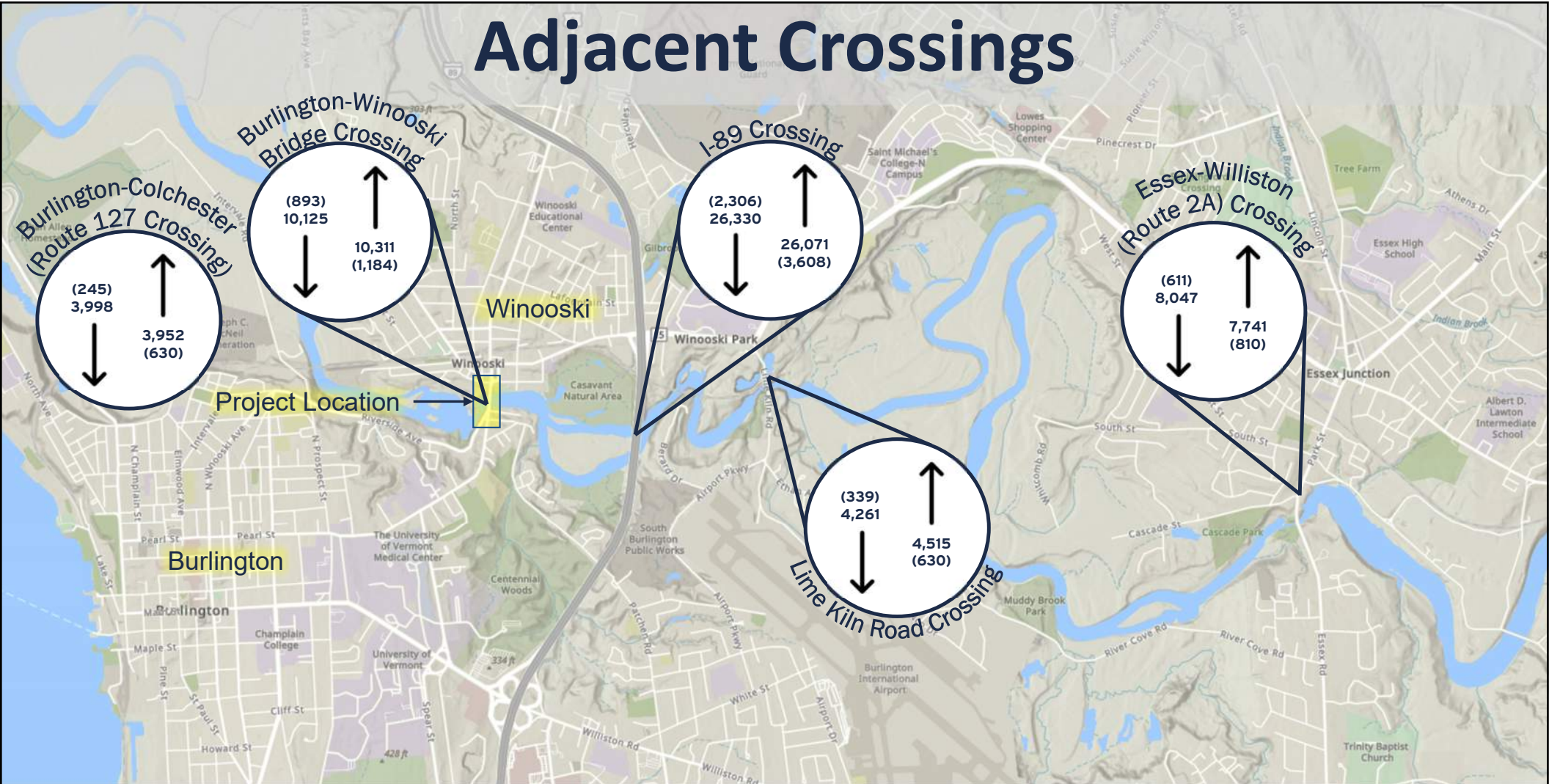
Phase 4 - New Bridge Opened to Traffic

# Maintenance of Traffic

- 25,000 Vehicles & 300 Pedestrians per day
- Need to balance:
  - Minimize impact to traveling public, and
  - Safe, sufficient construction site
- Utilize combination of:
  - Temporary lane closures
  - Temporary bridge closure

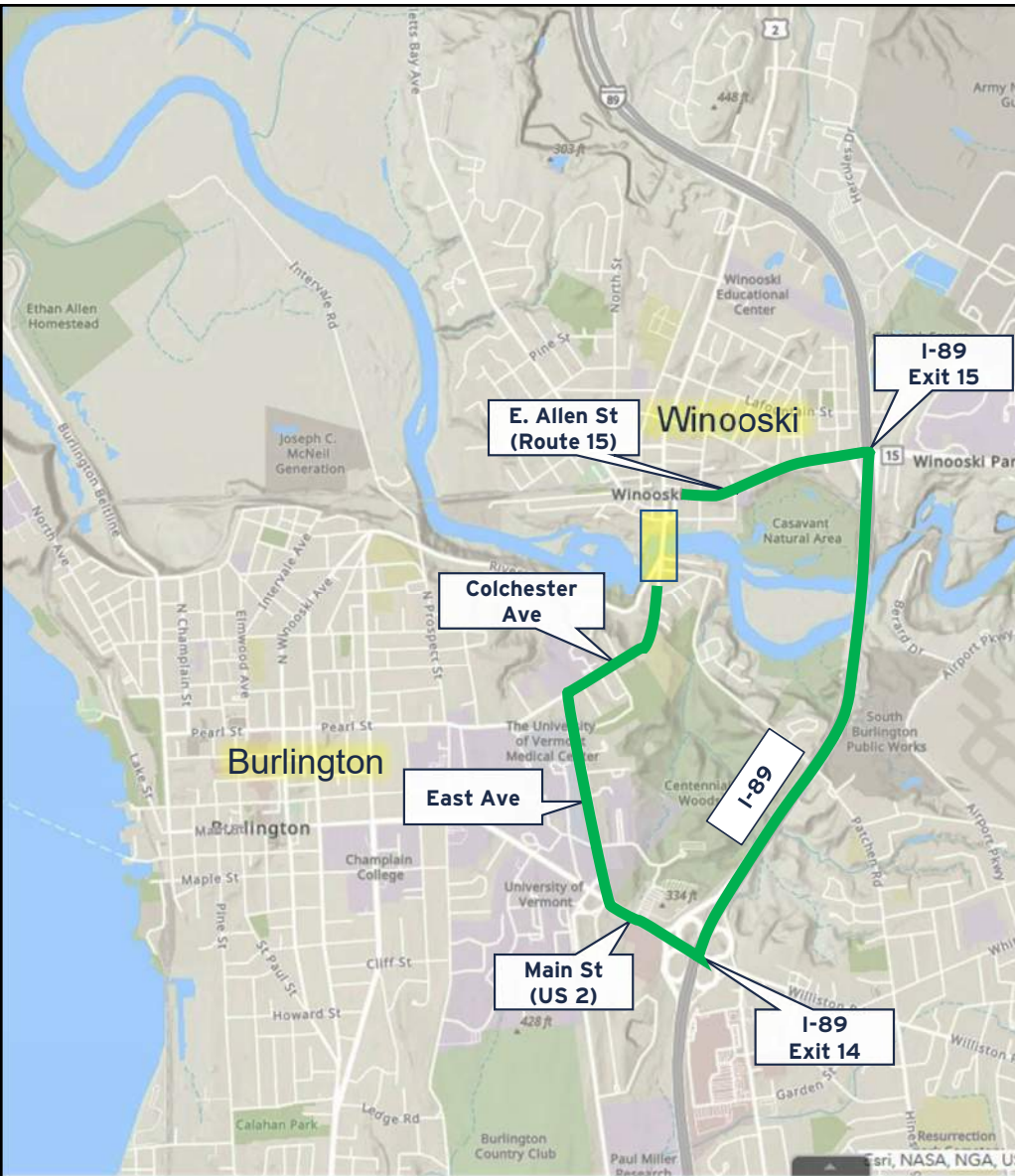


# Adjacent Crossings



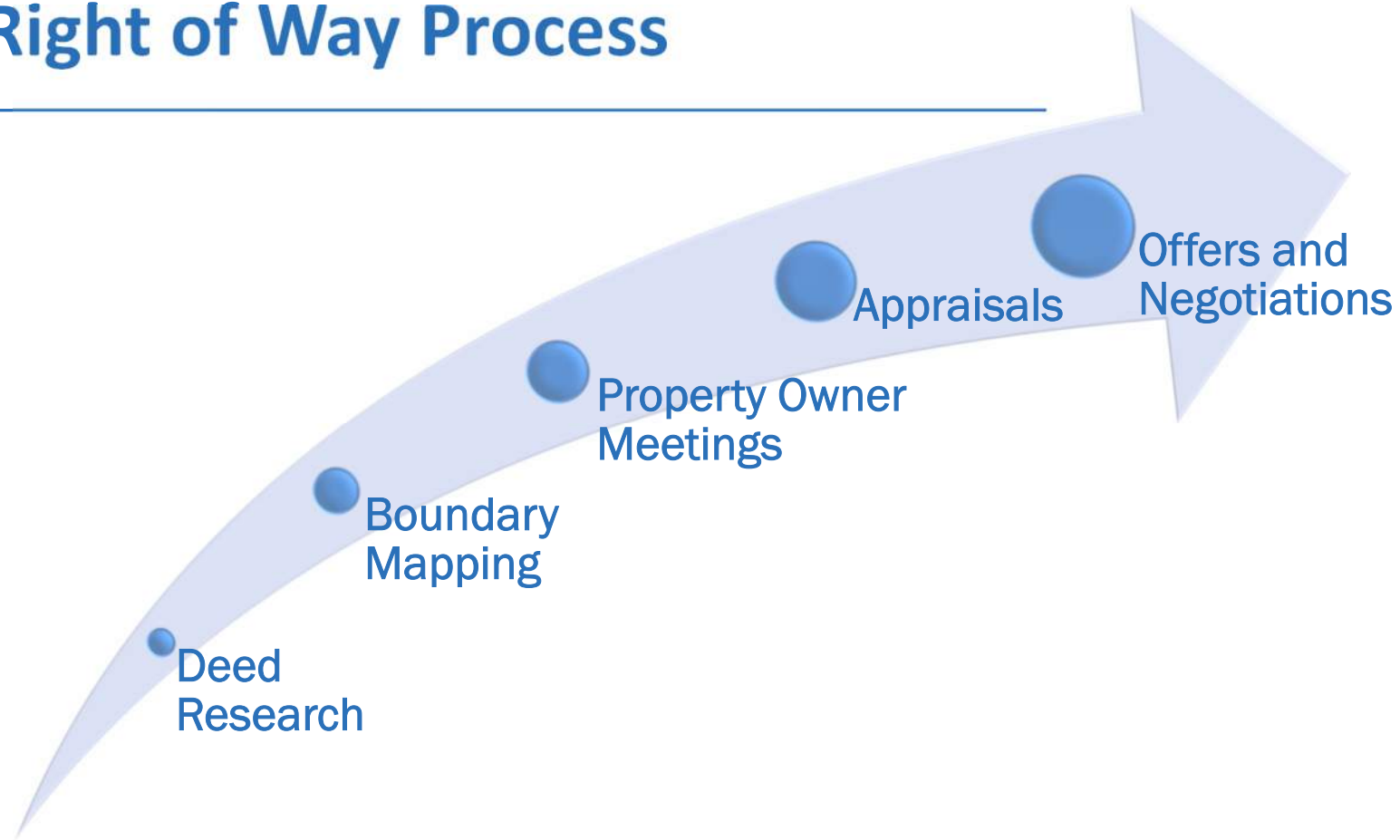
# Temporary Detour

- Shortest vehicular detour
- Effects on adjacent roads and intersections
- **All Pedestrians Maintained On Site!**



# Right of Way Process

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# Future Efforts



# Project Design

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Feb 2023 – June 2026 *(est)*

- Preferred Alternative Refinement
- Preliminary Design
- Traffic Control
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- Environmental Permitting
- RFQ and RFP Development  
*(Design-Build Contracting)*

# Utility Relocation

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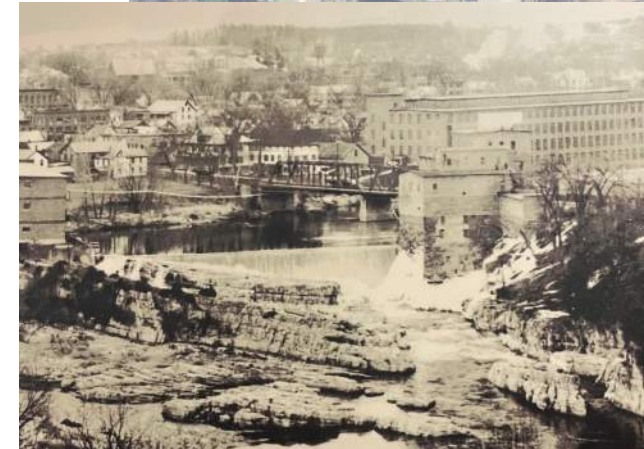
- Test Pits
- Relocation Plans and Construction Sequencing
- Utility Agreements
- *Municipal Utility Relocations are Project Reimbursable*





# Environmental Permitting

- Permitting Restriction Commitments
- Historic Process (Section 106)
  - Bridge is listed on National Historic Register
  - Replacement will be an Adverse Effect
  - Consultation process for mitigation
  - Winooski Falls Historic District
  - Multiple Historic Properties



# What is Design-Build Contracting?

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Project delivery method that:

- Incorporates final design and construction into a single contract.
- Places increased responsibilities on the Contractor in an attempt to reduce risks and costs to the State.

# Why Use Design-Build Contracting?

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**Promotes Innovation**



**Improves Design/Construction Efficiencies**



**Reduces Construction Costs**



**Reduces Construction Schedule**

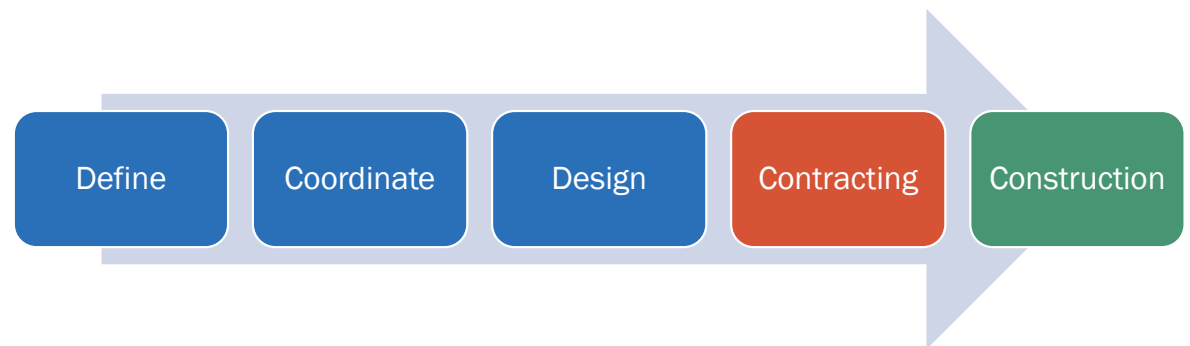
# Design-Bid-Build (Traditional) Contracting

## VTrans

- Preliminary Design
- Environmental Coordination
- Final Design
- Right of Way Process
- Permitting
- Utility Relocation
- Construction Contracting
- Public Outreach
- Construction Inspection
- Construction Oversight

## Contractor

- Construction



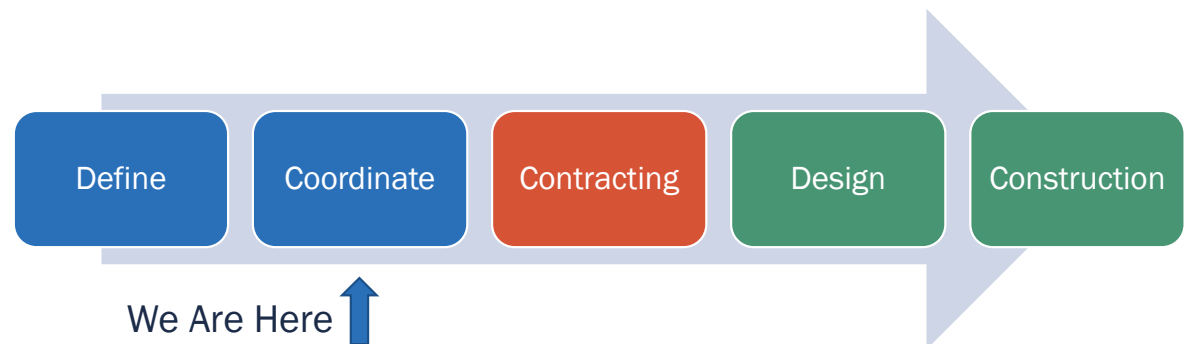
# Design-Build Contracting

## VTrans

- Preliminary Design
- Environmental Coordination
- ~~Final Design~~
- Right of Way Process
- ~~Permitting~~
- Utility Coordination
- Construction Contracting
- Public Outreach
- Construction Inspection
- Construction Oversight

## Contractor

- Final Design
- Utility Relocation
- Permitting
- Public Outreach
- Construction



# What Does This Mean?

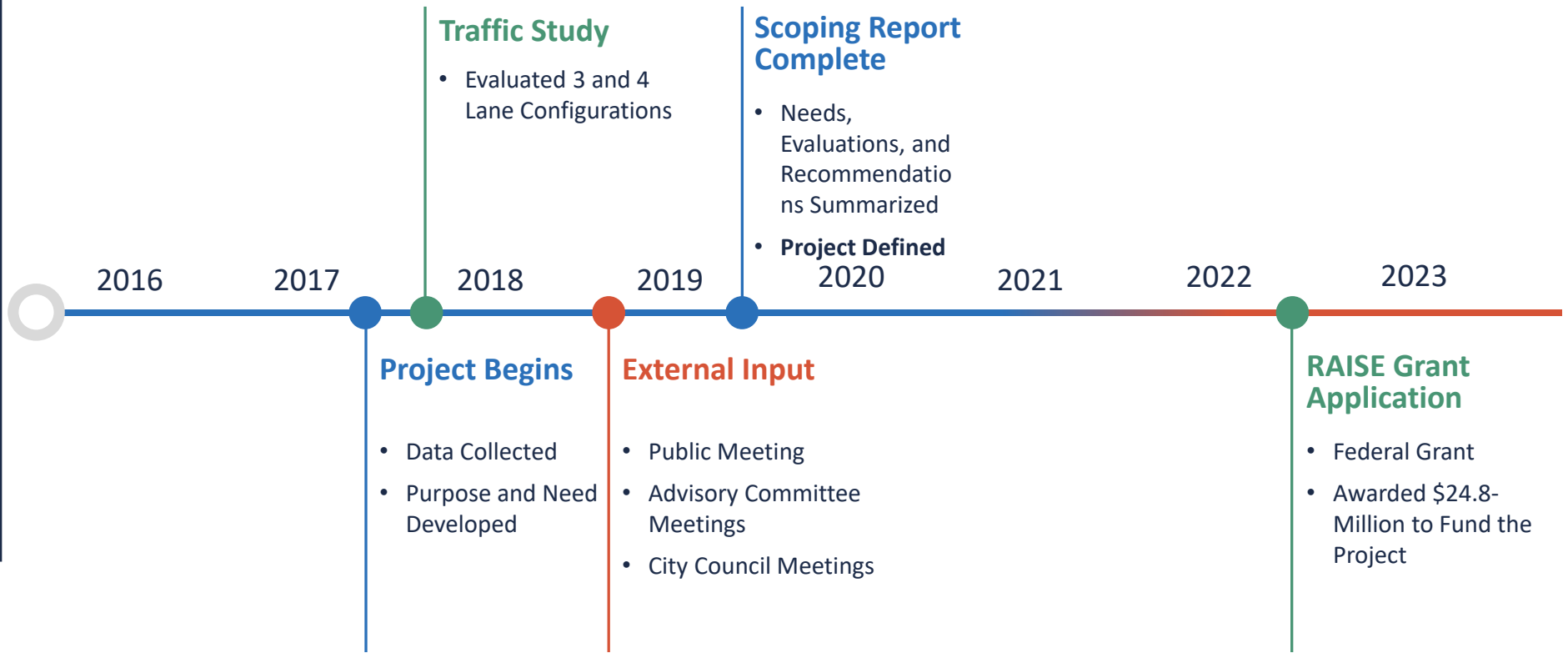
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- VTrans will develop design and construction guidelines – need to provide leeway for innovation to occur
- Final features (number of bridge girders, site restoration, etc) may be the decision of the Contractor
- Checks and balances with VTrans maintained

# Project Delivery



# Schedule – Past



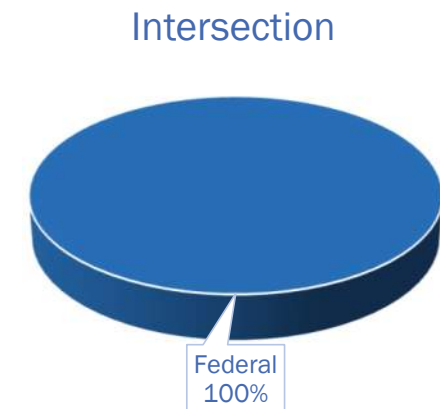
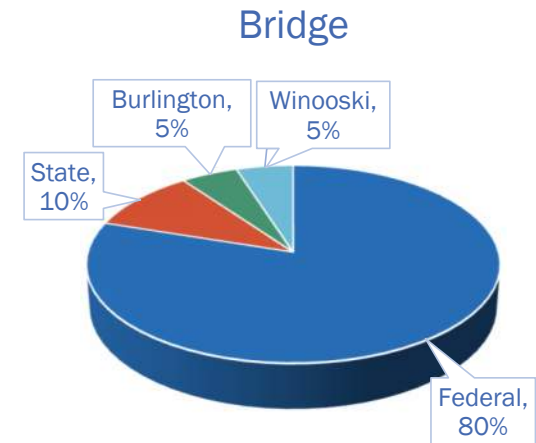


# Schedule – Current and Future



## Project Costs and Funding

- Project Received a Federal RAISE Grant worth approximately \$24.8-million
- Total Project costs are *conceptually* estimated to be approximately \$60-\$80-million



# Questions?



**BURLINGTON  
WINOOSKI  
BRIDGE**



<https://burlingtonwinooskibrige.vtransprojects.vermont.gov/>

