



PRESENTED TO

Town of Middlebury, VT

PRESENTED BY
VTrans, VHB, and Kubricky Construction

June 4, 2019



### **Community Project Goals**

- Protect safety of the community: people, property, environment
- Minimize project impact on vitality of the downtown community: businesses, residents, institutions
- Maintain traffic flow and pedestrian access
- Develop and maintain a credible schedule
- Engage with the local community and facilitate clear communication with all stakeholders



### Introductions





Federal Highway Administration





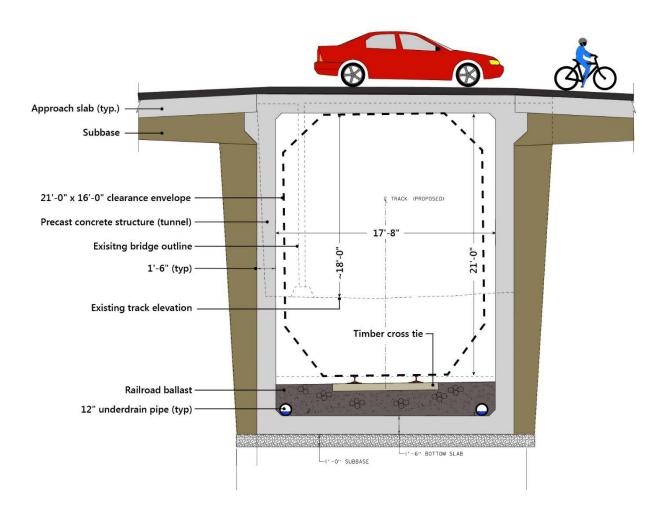








## New Tunnel Design





### New Tunnel Design

- Closed box structure
- 100-year design service life
- Design based on current design codes and standards
- Plan for future potential uses highway and railroad



### **Current Project Status**

- ✓ Early Work Package 1 Construction 2017
- ✓ Early Work Package 2 Construction 2018
- ✓ Project Design 2019
  - Main Project Construction to Begin July 2019



### **2018 Construction Summary**

- Temporary access roads
- Microtunneling for drainage system
- Underground utility infrastructure
- Tree Cutting

























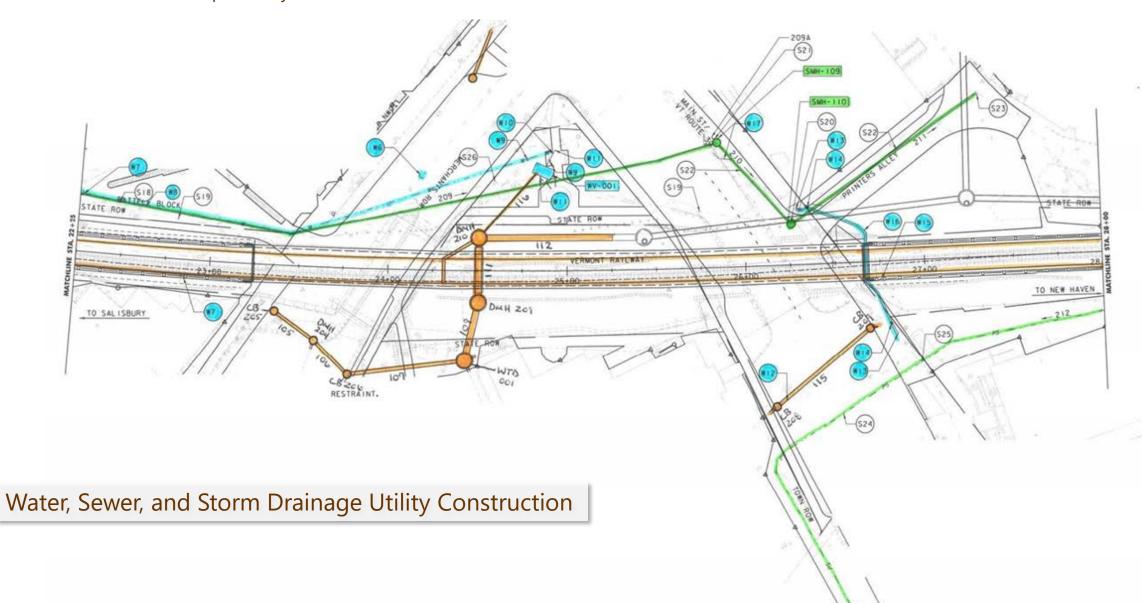
# 2018 Project Accomplishments

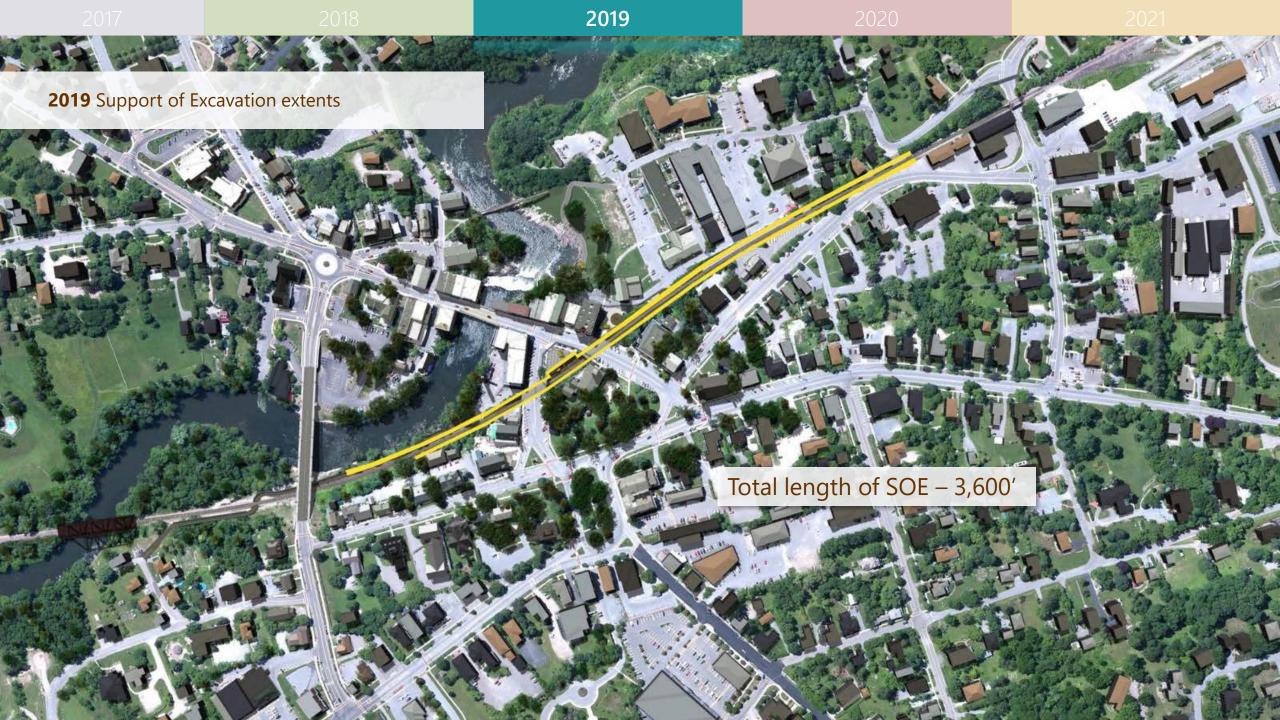
- Microtunneling drainage components completed
- New drainage outfall constructed below Otter Creek Falls
- Access Roads Constructed Battell Block and Outfall
- Utility Undergrounding in Printer's Alley
- Project clearing completed
- Project Design Completed Including Landscape Design Public Spaces
- We've set the stage for the Main Project Construction

## 2019 Planned Construction Activity

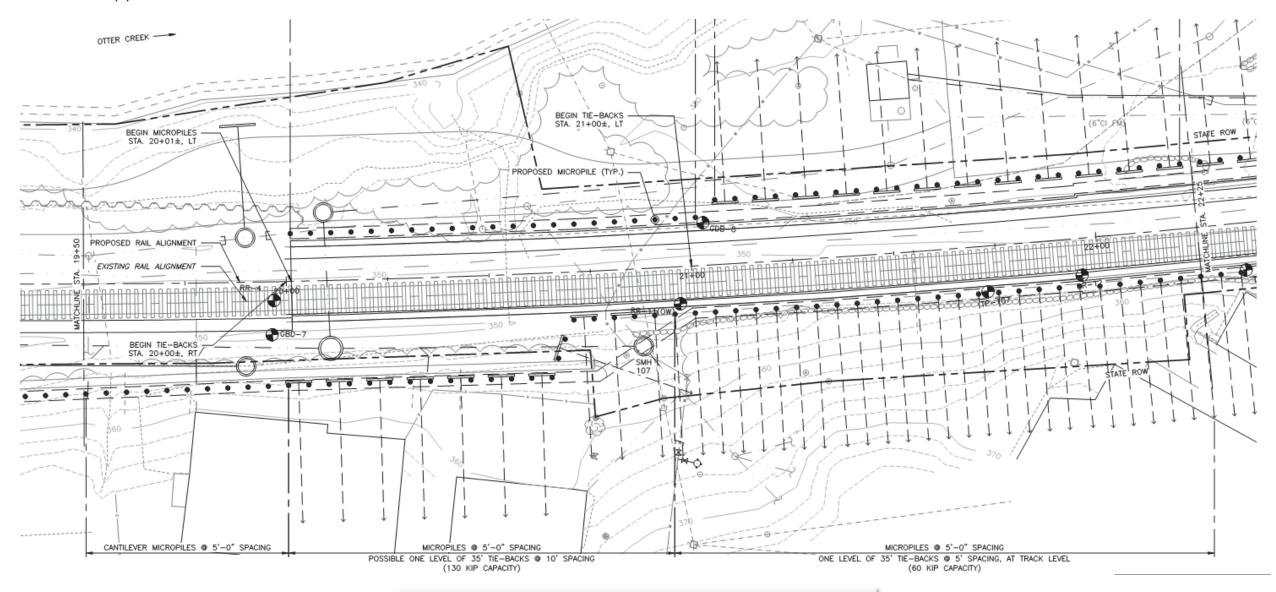
- Water, sewer, and storm drainage utility construction
- Support of excavation installation along railroad corridor
- Targeted areas of blasting along the railroad corridor

#### Downtown Municipal Utility Construction



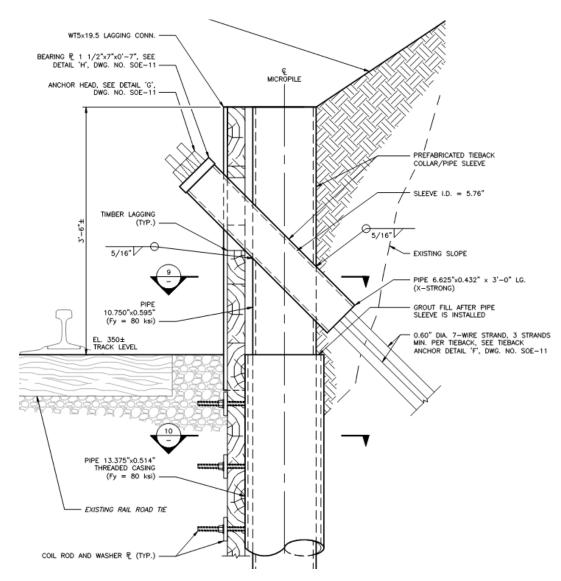


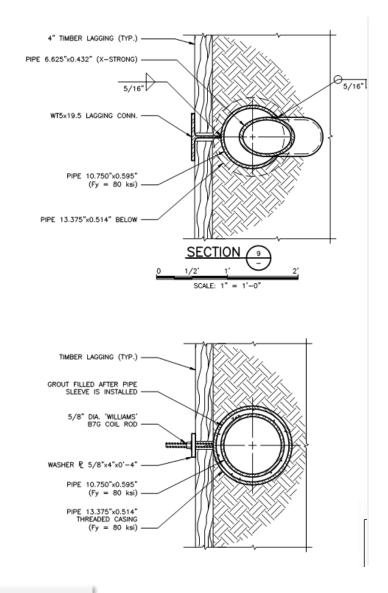
#### Support of Excavation Construction



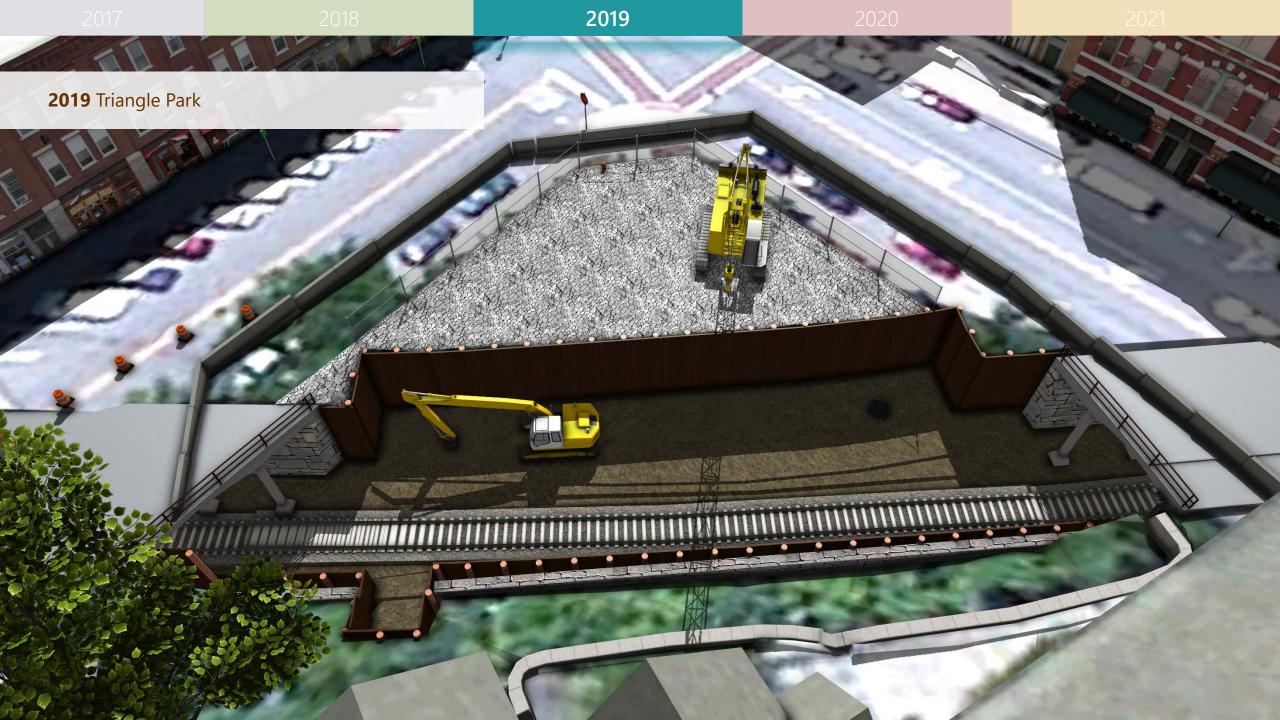
### Temporary Support of Excavation Example

#### Support of Excavation Construction





Temporary Support of Excavation Example



# 2019 Timeline and Hours of Operation

#### 2019 Calendar Year

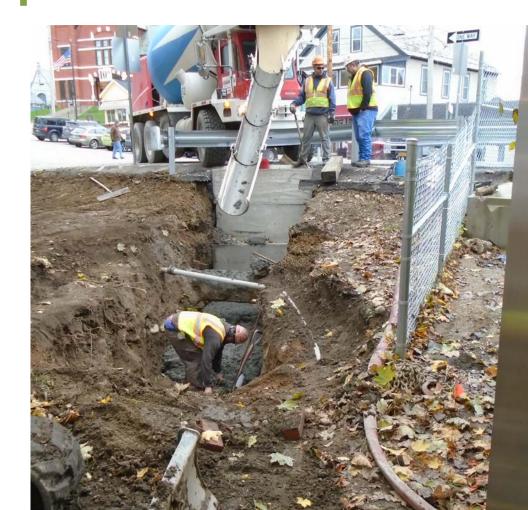
July	August	September	October	November	December
	July	July August	July August September	July August September October	July August September October November

### Working hours

- Anticipated weekday 7:00am–5:00pm (July)
- Anticipated weekday 7:00am-9:00pm (August through December)
- Anticipated 24 hours per day (weekend drilling and blasting periods)

## 2019 Merchant's Row Impacts

- 5 day closure late summer of 2019 installation of sewer and water line crossings
- 5 day closure fall of 2019 installation of stormwater catch basins and pipe crossing



### **2019 Main Street Lane Closures**

- 3 night closure (reopen during the daytime) Fall of 2019 –
   Installation of new sewer manholes and pipes
- 3-5 day lane closure Late Fall of 2019 Installation of Post Office sewer service, stormwater catch basins, and pipe crossings

2019 Printer's Alley Closures

 1 week closure – Fall of 2019 – Installation of new sewer manhole and sewer main



## 2019 Battell Block Driveway Closures

- 1 week closure –Late summer Installation of Water and Sewer lines
- 2 separate 1 week closures Late summer & Early Fall –
   Installation of support of excavation
- Temporary access road will be open during these timeframes
- Pedestrian access from Merchant's Row to lower parking lot to be maintained during these timeframes

## **2019 Other Anticipated Impacts**

- Installing temporary support of excavation will create noise and vibrations near construction operations
- Increased construction traffic truck traffic and equipment
- Limited parking impacts associated with construction activities contractor parking will be offsite and workers will be shuttled into Downtown Middlebury

### **2019 Downtown Impacts**

- 2019 downtown impacts will be similar to 2018
- On street impacts are limited to utility crossings on Main Street and Merchants Row
- Focused efforts to work along the railroad corridor
- All work during 2019 is geared toward preparing for 2020 shutdown

### **2019 Downtown Community Events**

- Peasant Market July 6
- Festival on the Green July 7 July 13
- Lions Club Auction July 17
- Middlebury New Filmmakers Festival August 22 August 25



#### **2019 Questions and Thoughts**

**Selectboard and Public Input Encouraged!** 

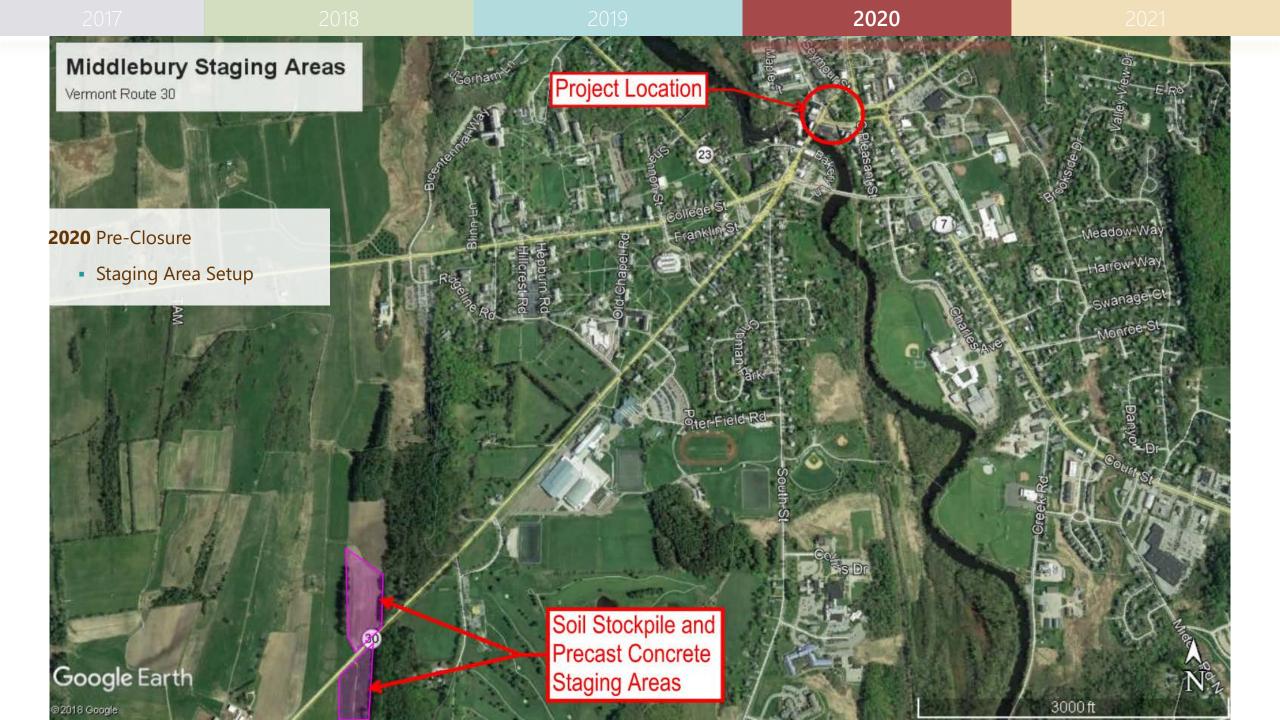


### **2020 Construction Activity**

- Pre-closure (April)
- Merchant's Row Closure (May 4 May 22)
- Full Closure (May 27 August 5)
  - Main Street and Merchants Row closures
  - Railroad detour
- Post-closure (August December)

#### **Pre-Closure**

- Mobilization of Equipment and Materials
- Staging area setup
- Delivery of Precast Concrete to Staging Area
- Crane Setup in Triangle Park, Marble Works, and Battell Block





## Merchant's Row Closure (May 4,2020 – May 22, 2020)

- Merchant's Row Closed and Temporary Bridge Removed
- Installation of Temporary Support of Excavation
- Demolition of Bridge Abutments/Ashlar Block Walls
- Merchant's Row Open May 23-May 26 (no temporary bridge)

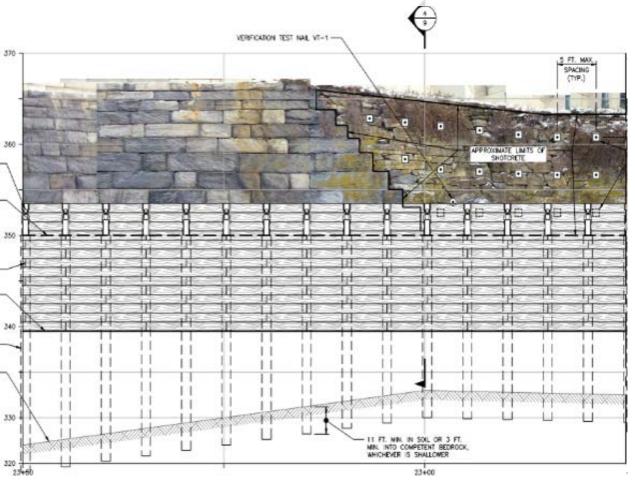
# 2020 Closure Activity (10 Weeks) (May 27, 2020 – August 5, 2020)

- Track removal/Main Street temporary bridge removal
- Excavation and Support of Excavation
- Pre-Cast Concrete Installation
- Roadway Reconstruction and Paving
- Railroad Track Reinstallation



#### **2020 Excavation and Support of Excavation**

- Railroad corridor excavation
- Support of Excavation Lagging

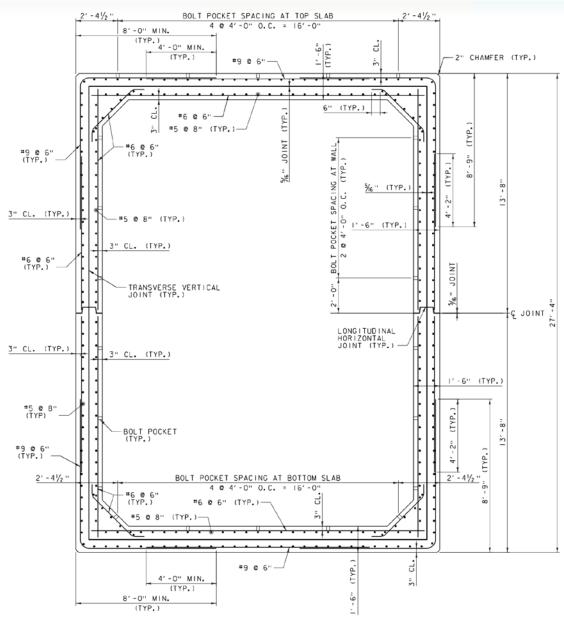






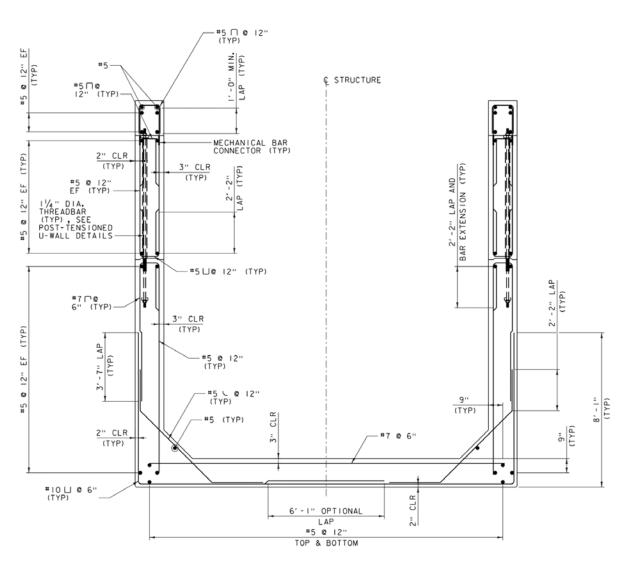
# 2020 Closure: Precast Concrete Installation

- 1.5 mile trip from staging area to downtown
- 300+ pieces to individually install
- Installing approximately 1 piece per hour



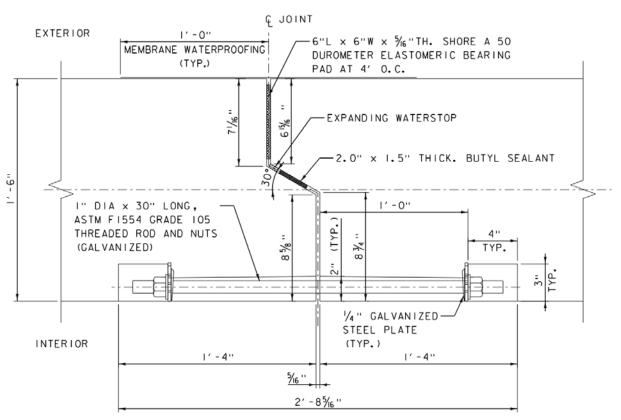
TYPICAL TUNNEL SECTION AT TRANSVERSE VERTICAL JOINT
STA. 53+26.25 - STA. 56+71.25

SCALE: 1/2" = 1'-0"



MID-HEIGHT U-WALL SECTION - REINFORCING

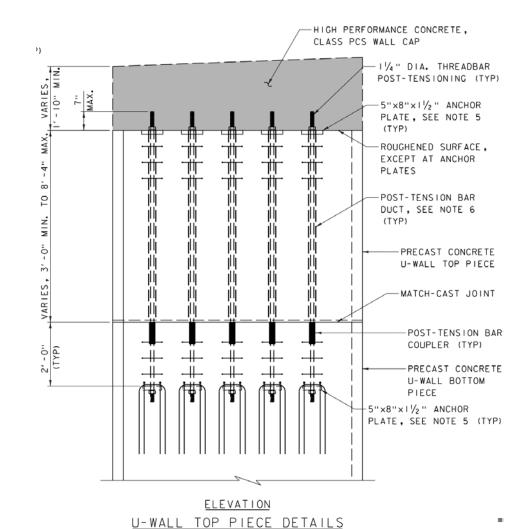
SCALE 1/2" = 1'-0"



NOTE: THE TRANSVERSE VERTICAL JOINT AT BOTTOM SLAB SIMILAR

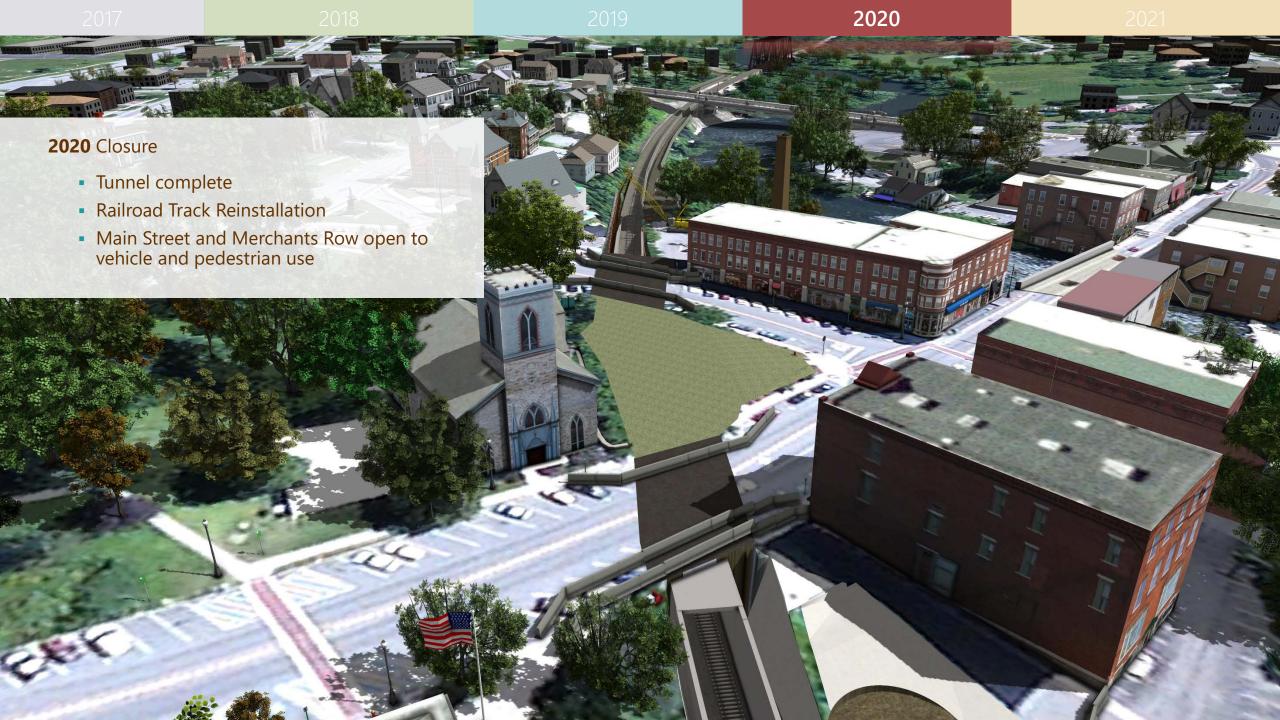
TRANSVERSE VERTICAL JOINT AT WALL

SCALE: 3" = 1'-0"



SCALE 3/4" = 1'-0"





### 2020 Post-Closure Activity

- Continuous Welded Rail Construction
- Railroad Surface and Final Grading
- U-Wall Cast-in-Place Concrete Caps and Pedestrian Railing Installation
- Fencing Installation
- Site Grading/Initial Planting and Vegetation

#### 2020 Timeline and Hours of Operation

#### 2020 Calendar Year

	April	May	June	July	August	September	October
Merchants Row Closed (May 4 - May 22)							
Main Street and Merchants Row Closed (May 27 - August 5)							
Temporary Support of Excavation							
Track Removal and Main Street Temporary Bridge Removal							
Excavation and Support of Excavation							
Precast Concrete Installation							
Roadway Reconstruction and Paving							
Cast-In-Place Concrete U-Wall Caps							
Sidewalk Reconstruction and Railings							
Railroad Track Reconstruction							
Fencing Installation							
Surface Restoration and Sign Installation							
Initial Landscaping and Planting							

- Anticipated weekday 7:00am–5:00pm (April)
- Anticipated weekday 7:00am–9:00pm (May 4 May 22)
- Anticipated 24 hours per day (May 27 August 5)

#### **2020 Pre-Closure Impacts**

- 3 night closure of Main Street for crane assembly
- Increased truck traffic on Route 30 south of Middlebury for precast concrete deliveries

#### 2020 Merchant's Row Closure Impacts

- Starting May 4, 2020 the temporary bridge will be removed resulting in discontinuity of vehicular and pedestrian traffic across the railroad
- Reduced parking capacity along Merchant's Row
- Construction will pause from May 23 May 26 and most of Merchant's Row will reopen, including parking areas

# 2020 Closure Impacts: Track Removal and Main St Temporary Bridge Removal

- Main Street and Merchant's Row will be closed through the Project area starting May 27, 2020
- Railroad Tracks and ties will be disassembled and removed from the railroad corridor

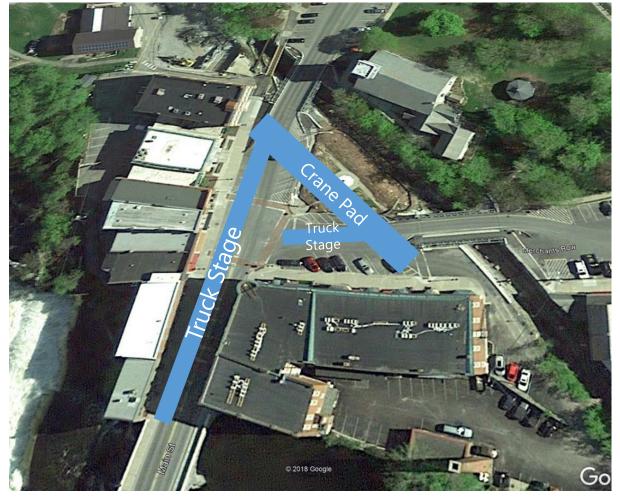
# 2020 Closure Impacts: Excavation and Support of Excavation

- Excavating 27,000 cubic yards of soil from the railroad corridor
- Increased truck traffic to haul soils approximately 1800 truck trips
- Delivery of timber lagging 30,000 square feet

# 2020 Closure Impacts: Precast Concrete Installation

- 300+ pieces of precast concrete to install
- Increased truck traffic along Route 30 for delivery of precast
- Precast will be delivered to Main/Merchants intersection, Marble Works, and Seymour Street

## 2020 Closure Impacts: Precast Concrete Installation



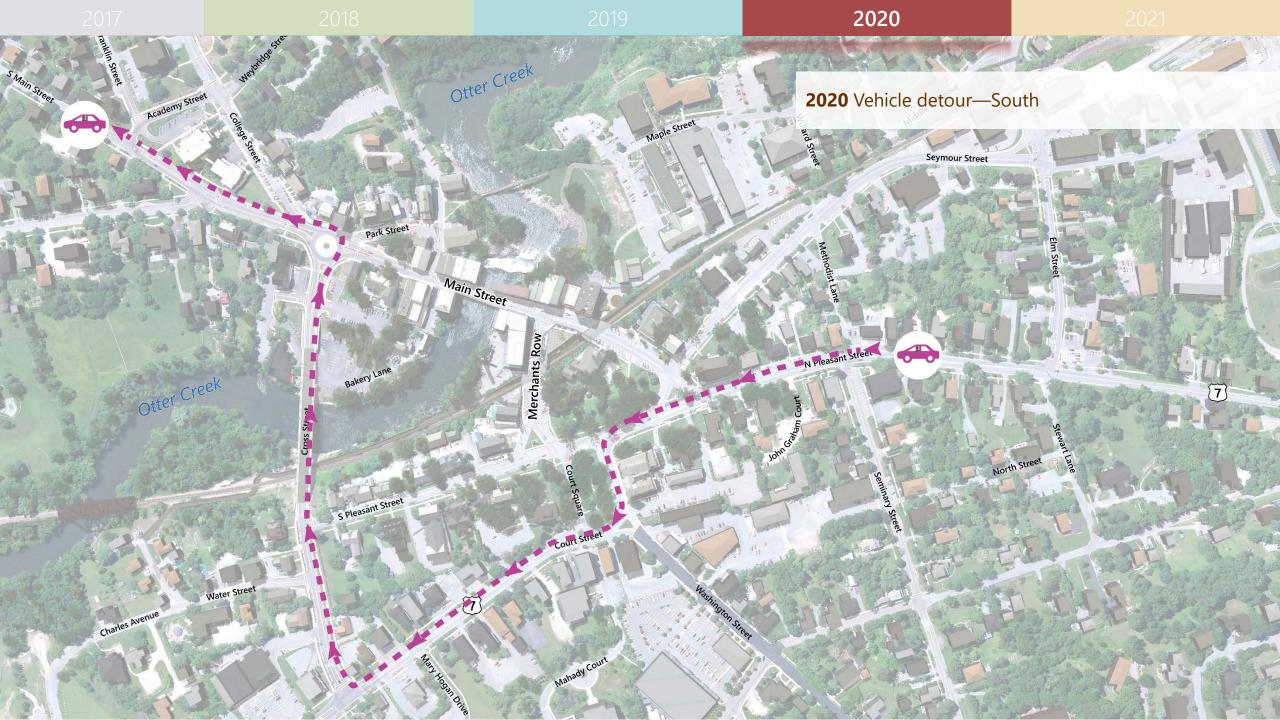


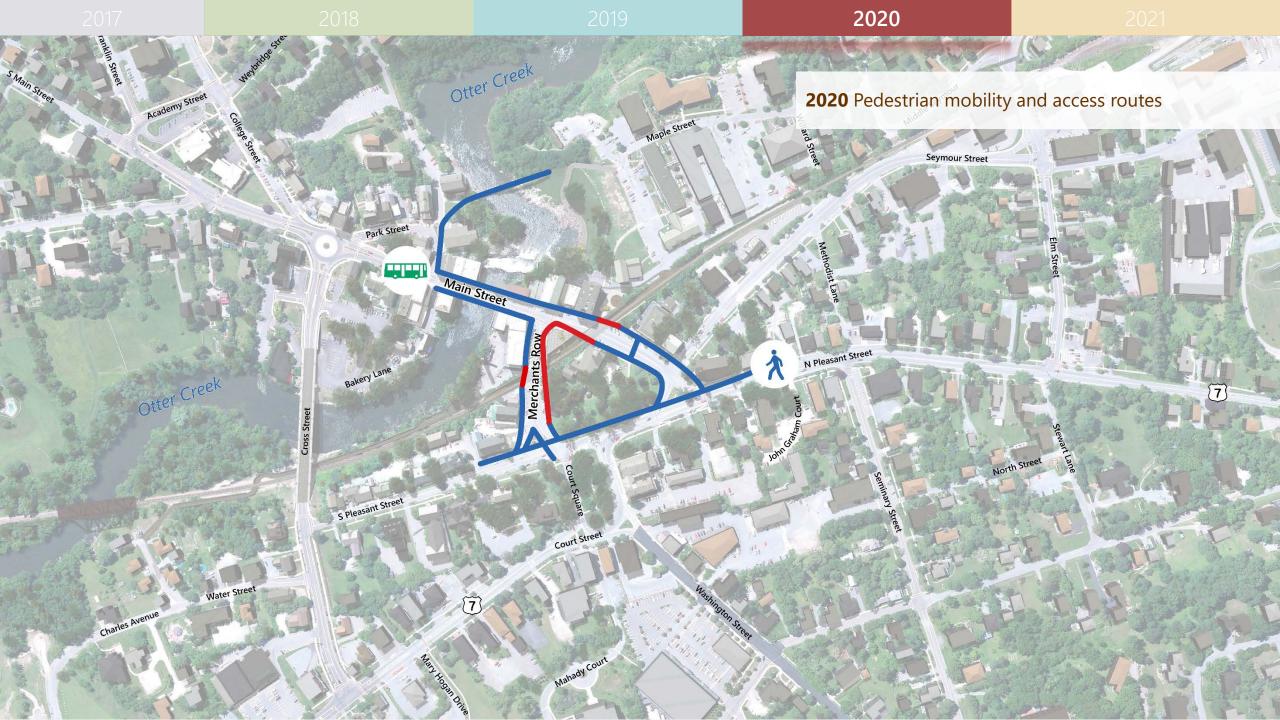
# 2020 Closure Impacts: Roadway Reconstruction and Paving

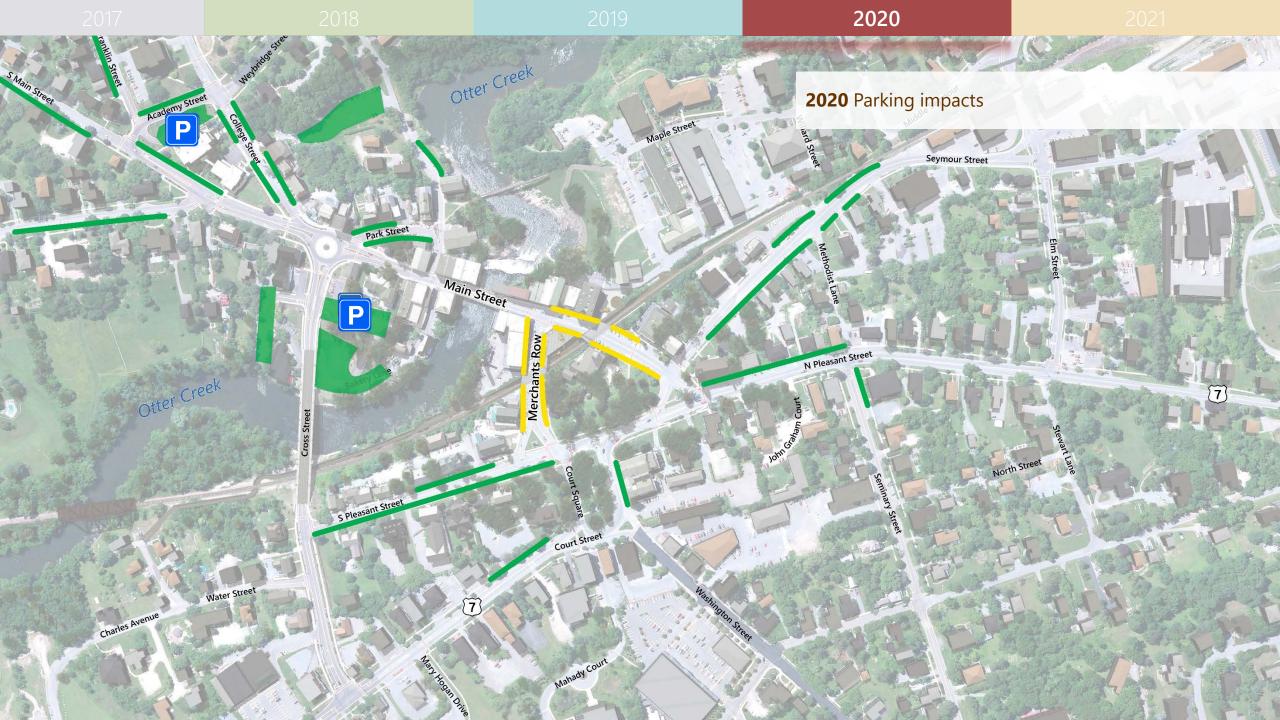
- Main Street and Merchant's Row excavation, subbase replacement, sidewalk reconstruction
- Phased sidewalk reconstruction to continue to allow pedestrian access to residences and business locations
- Base course of paving within the Project limits
- Main Street and Merchant' Row to reopen on August 5, 2020











#### **2020 Post-Closure Impacts**

- Intermittent short term lane closures on Main Street and Merchant's Row to facilitate site grading and landscaping
- Triangle Park area remains closed for landscaping
- Temporary sidewalk closures for sidewalk reconstruction

## 2020 Challenges

- Traffic Control
  - Cross and Court intersection
  - Roundabout
  - Delivery vehicles to downtown businesses
- Construction Site Constraints
  - Limited room for storing materials onsite
  - Offsite stockpiles result in increased truck traffic

## 2020 Challenges

- Unpredictable Weather
  - Construction limitations during inclement weather
- Working at Night
  - Lighting and noise limitations
  - Anticipated slower construction progress

## 2020 Downtown Accessibility

- Pedestrian shuttle service
- Phased sidewalk construction
- Middlebury Marketing Grant
- Neighbors, Together
  - Pop-Up Event Space "Bundle"
  - Special Events
  - Shop Local Campaign
  - Midd Money
  - Visitors Center



## 2020 Downtown Community Events

- Vermont Walk/Bike Summit May 8
- Middlebury New Filmmakers Festival August 27 August 30
- Be on the lookout for Neighbors, Together events



### 2020 Questions and Thoughts

**Selectboard and Public Input Encouraged!** 



## **2021 Construction Activity**

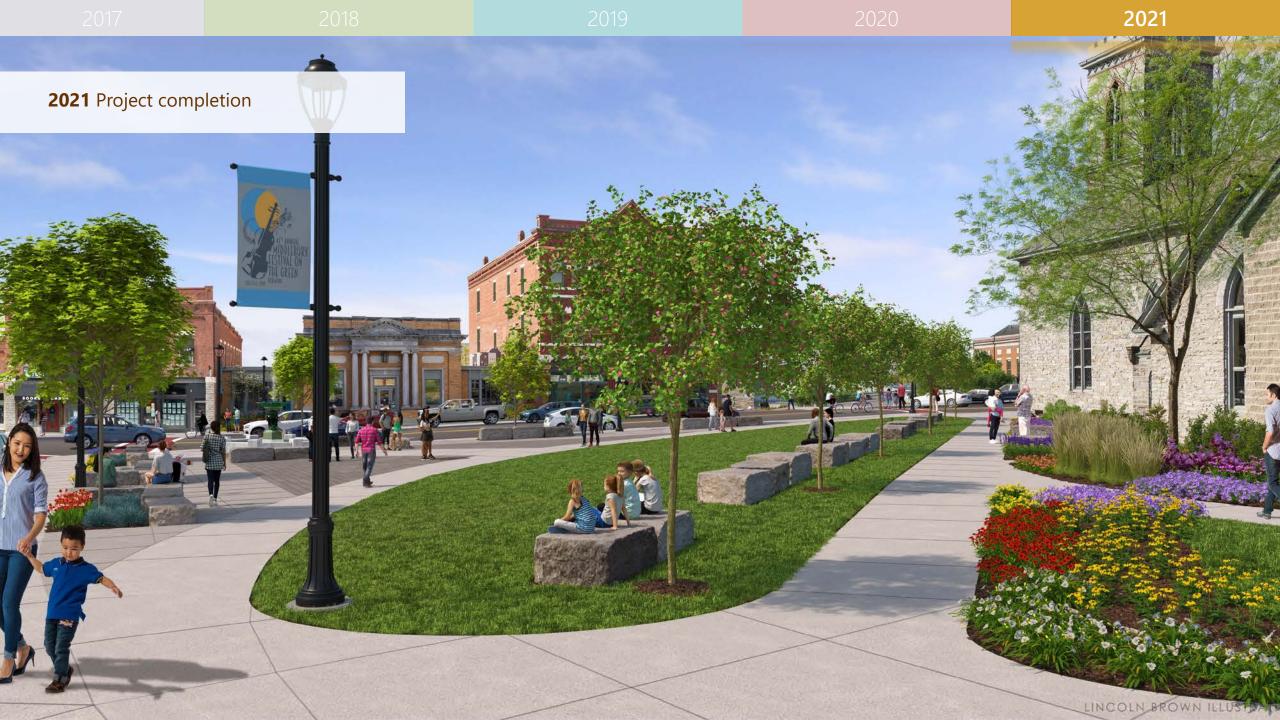
- Printers Alley Reconstruction
- Final Paving
- Landscaping
- Project Cleanup and Completion!

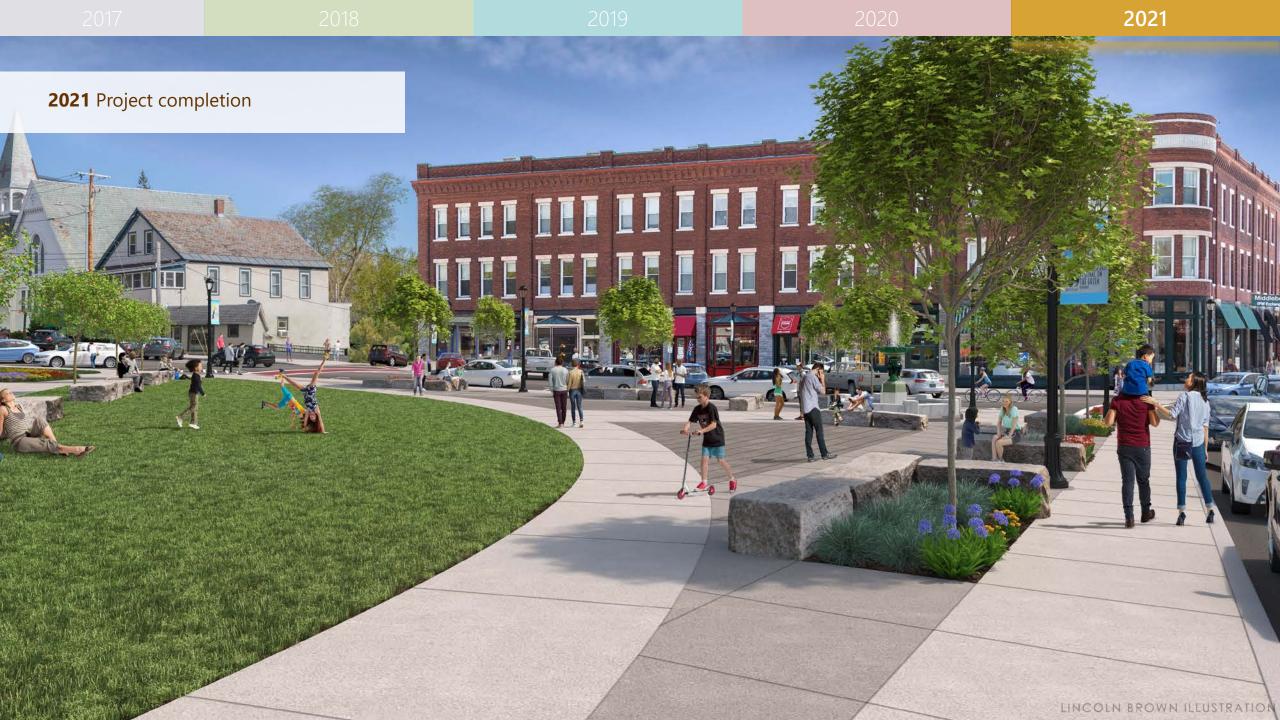
## **2021 Project Impacts**

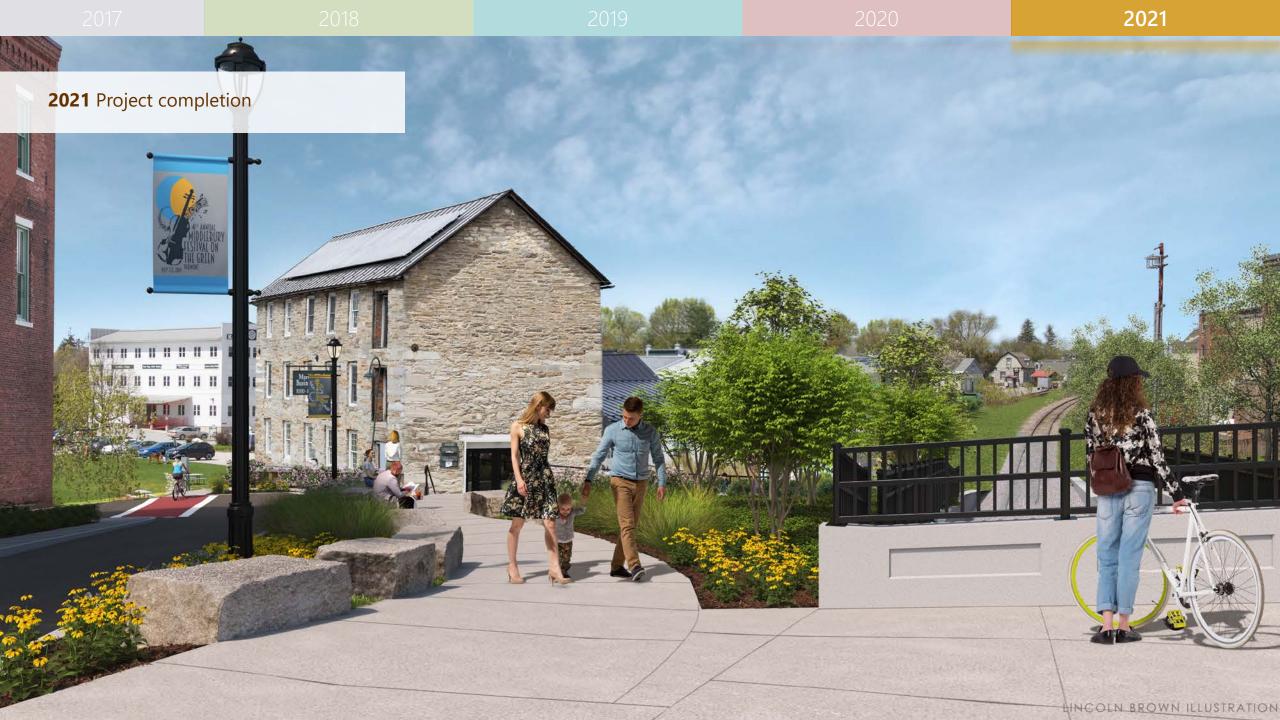
- Intermittent short term lane closures on Main Street and Merchant's Row to facilitate site grading and landscaping
- Lane closures for final paving
- Triangle Park area closed for landscaping
- Working hours
  - Anticipated 7:00am–5:00pm

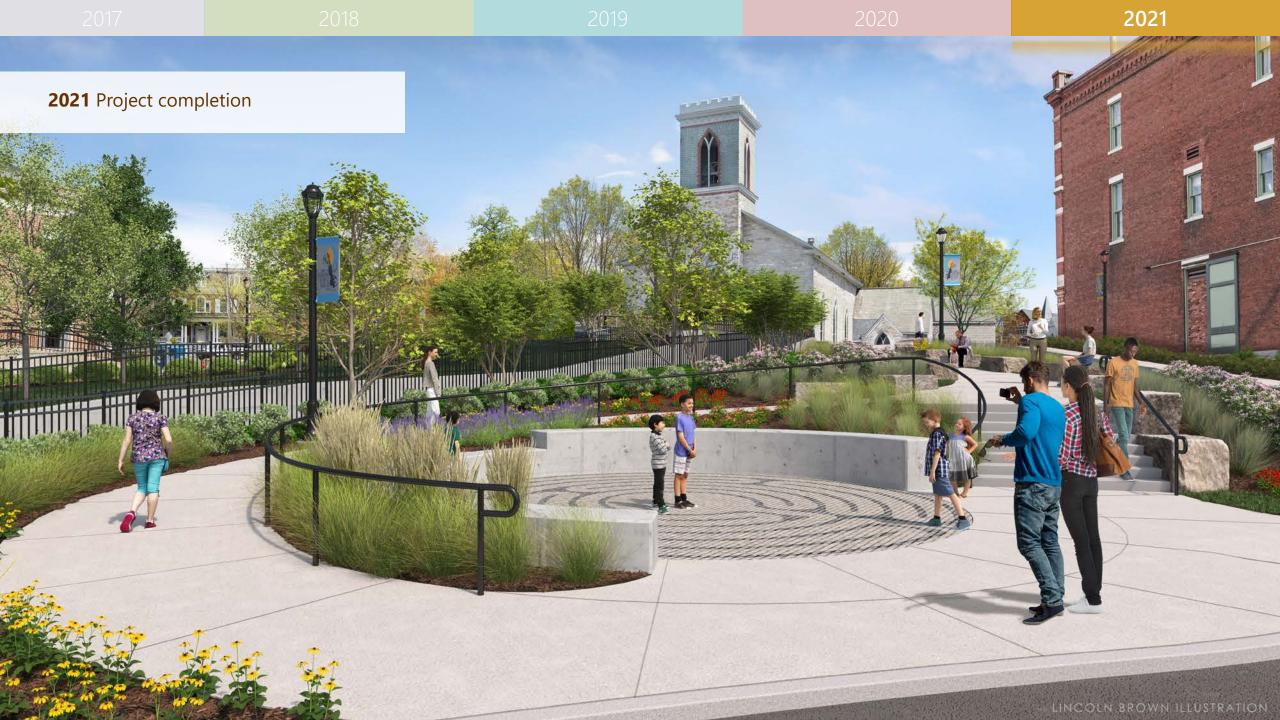














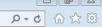
#### **2021 Questions and Thoughts**

**Selectboard and Public Input Encouraged!** 





#### vtrans.vermont.gov/projects/middlebury



#### VERMONT OFFICIAL STATE WEBSITE

STATE OF VERMONT

#### **Agency of Transportation**

About the Project Schedule Documents Library FAQs Contact Us



#### **ABOUT THE PROJECT**

The Vermont Agency of Transportation (VTrans), in collaboration with the Town of Middlebury, is undertaking a project to replace two nearly 100 year old rail bridges in the center of Middlebury with a tunnel by the summer of 2020. The two bridges are about 300 feet apart, with one located on Main Street/VT 30 and the other on Merchants Row.



#### ✓ VERMONT

SEARCH CONTACT

#### Project Status Update

#### November:

Public Meeting: November 17<sup>th</sup> at Town Hall Theater, Middlebury

#### December:

Tree clearing along rail line scheduled.



#### **Project Questions**

**Selectboard and Public Input Encouraged!** 

