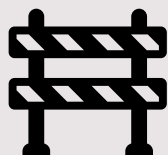




Exit 16 DDI

Diverging Diamond Interchange



CONSTRUCTION

February 17, 2023

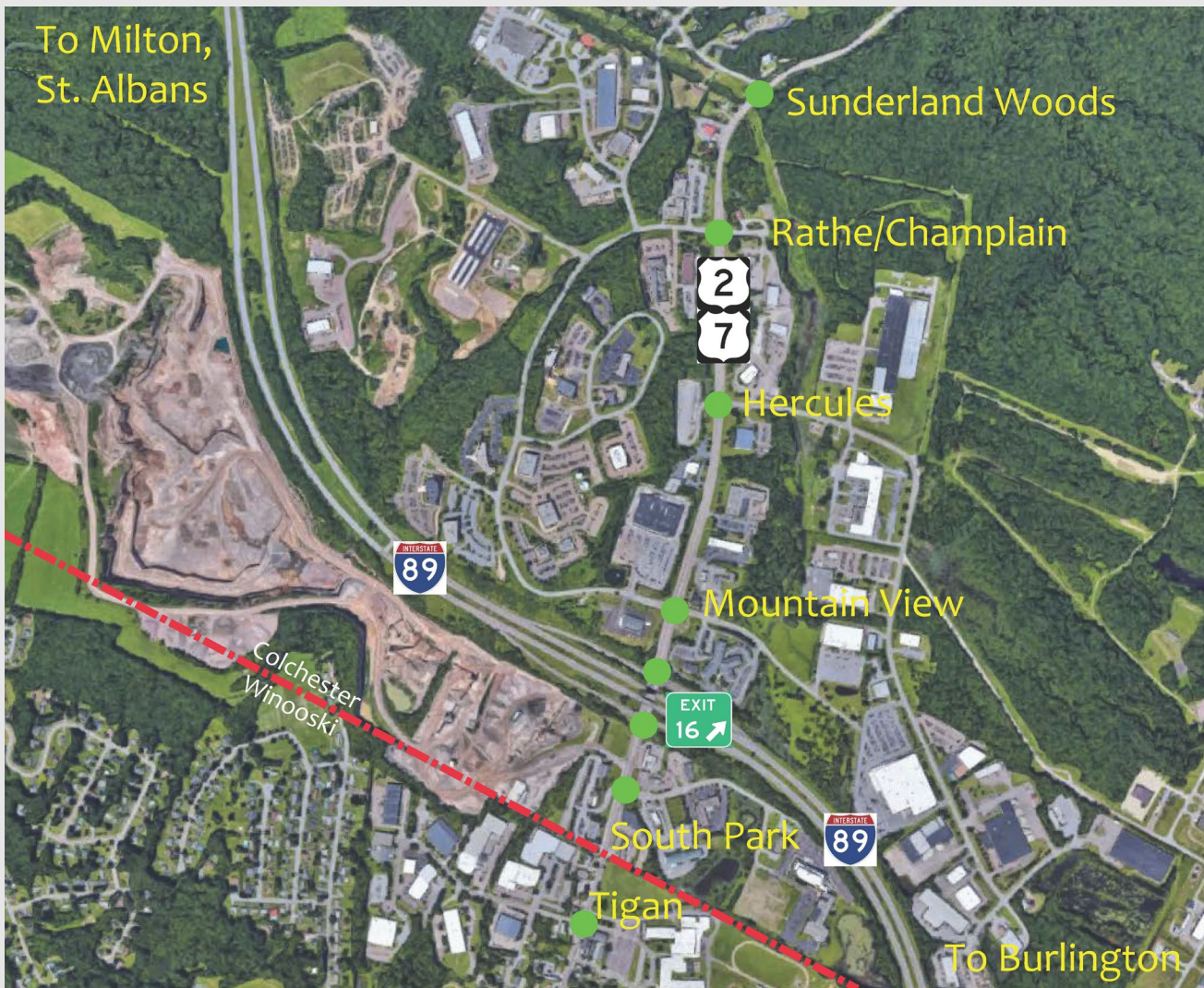
Senate Transportation



Today's Overview

- Project Scope
- Project Status/Schedule
- Project Construction





US Route 2/7 Corridor – 1.05 miles

Including:

- South Park Drive/Highpoint Ctr.
- I-89 Exit 16
- Mountain View/Lwr. Mtn. View Drives
- Hercules Drive
- Rathe Road/Champlain Drive
- Sunderland Woods Road
- Tigan Street (Winooski):
 - Traffic Signal Only
 - Part of the Main St. Revitalization Project

Colchester HES NH 5600(14)
Scope



Exit 16 DDI
Diverging Diamond Interchange

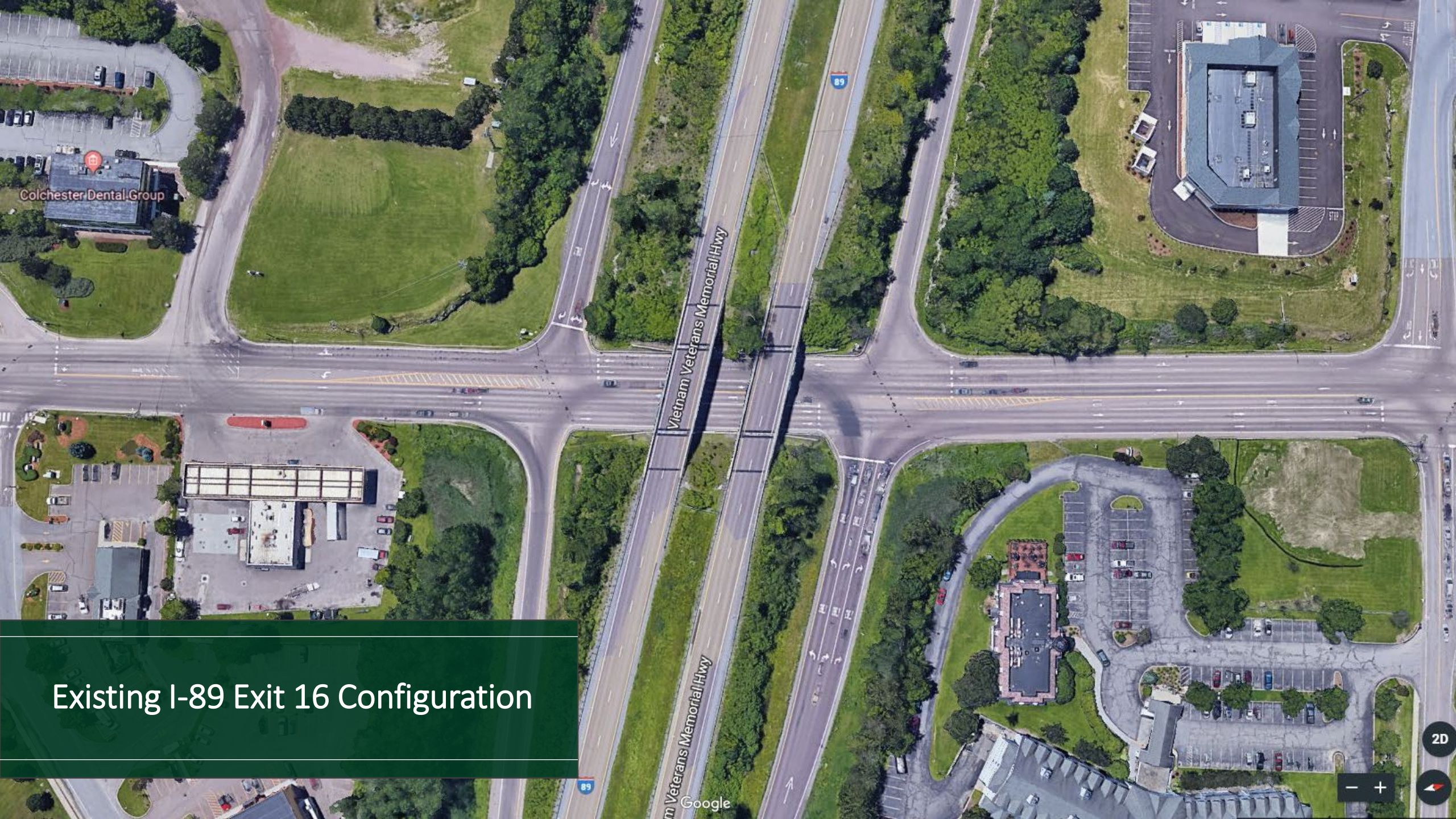


Colchester HES NH 5600(14) Scope

- Stormwater Treatment Infrastructure
 - 3 Ponds
 - 8 Grass Channels
- Roadway Banking Corrections
- New:
 - Signs
 - Pavement Markings
 - Traffic Signals
 - Roadway Drainage
- Reconfigured I-89 Exit 16 Interchange → **DDI**



Exit 16 DDI
Diverging Diamond Interchange



Colchester Dental Group

Vietnam Veterans Memorial Hwy

Vietnam Veterans Memorial Hwy

89

89

Google

Existing I-89 Exit 16 Configuration



2D

COLCHESTER HES NH 5600(14) I-89 EXIT 16 DIVERGING DIAMOND



I-89 Exit 16 Re-configuration



I-89 Exit 16 Diverging Diamond Interchange

DDI Benefits

In over **117** Diverging Diamond Interchanges in the US, states have experienced:

- Over **37%** reduction in crashes, injurious/fatal by **54%**
- Over **50%** increase in vehicular throughput

How a DDI performs efficiently:

- Eliminates signalized left turn movements for vehicles.
- Left turning movements Yield Condition allows movements during conflicting traffic phases.

Testament: 37 DDIs currently under construction; another **157** planned!



Traffic Video (1:05)



Bike/Ped Video (0:07)

DDIs in the Wintertime

- Of the 117 DDIs active in the US & Canada, 68 are built in areas where snow is expected annually (58%).
- Snow plowing happens normally.
- For some plow routes, use of the U-Turn on the Interstate will no longer be necessary.
- VTrans has discussed winter maintenance with Utah officials and concurred that the states share similar roadway clearing techniques.





Robust Pavement Markings



How Will I Find The Lanes in the Wintertime?!



Things you normally look for while driving in snow....



Traffic
Signals

Lane Signs

Vehicles
Ahead of
you

Vehicle Tire Paths

are still there on the left side of the road!



Traffic
Signals



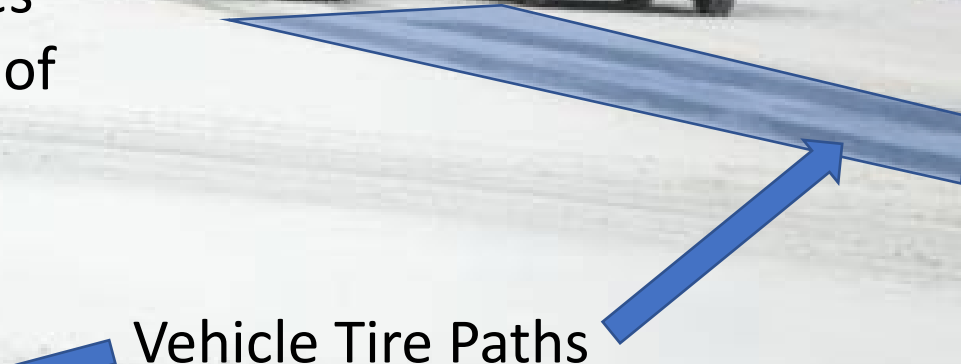
Lane Signs



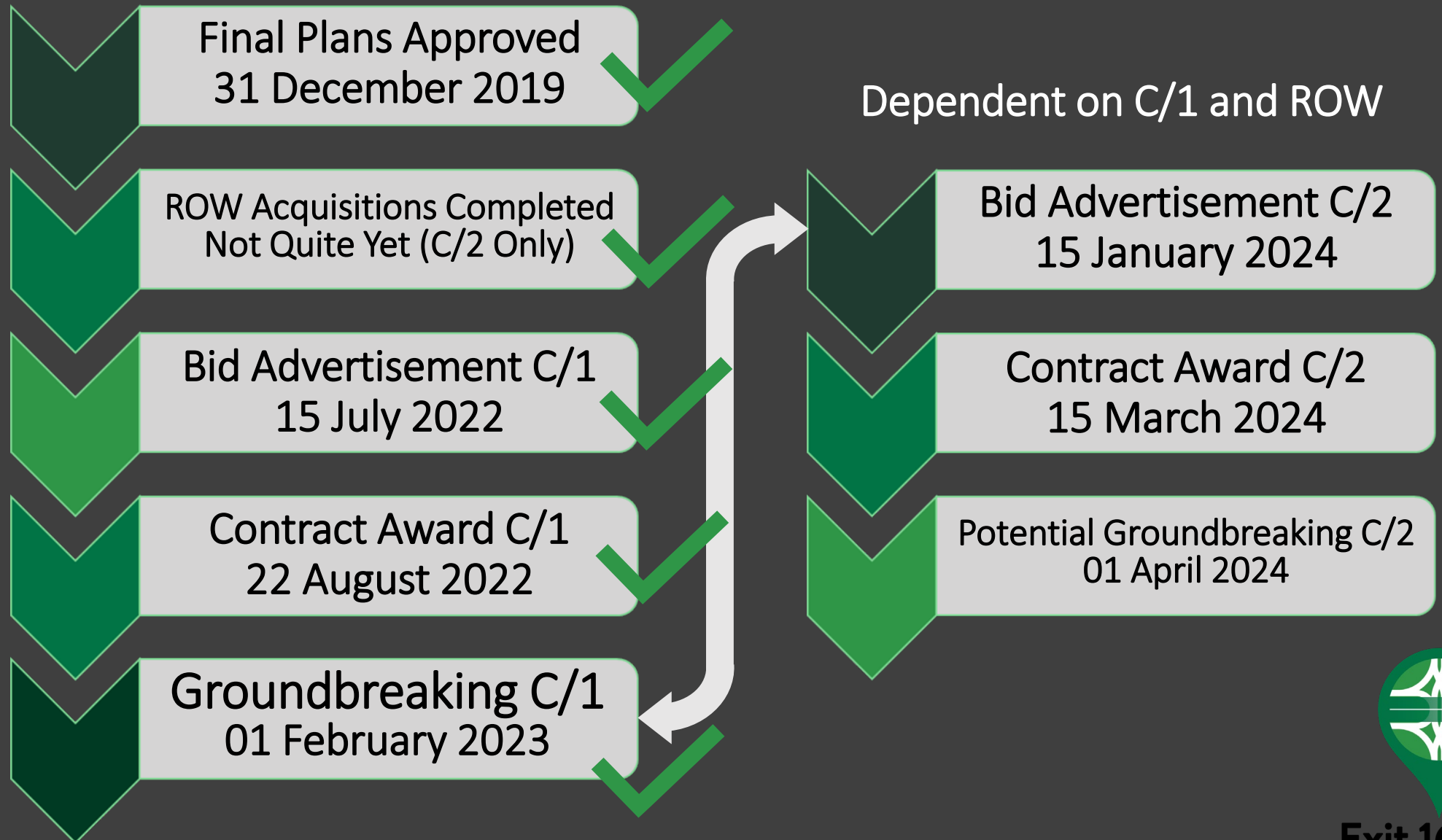
Vehicles
Ahead of
you



Vehicle Tire Paths



Project Status



Project Construction: 2 Construction Phases (2023-2026)

Night Work = 7:00 PM – 6:00 AM



Daytime roadway work will be restricted to one lane only. There may be multiple lane closures at night.

1st Phase – “Contract 1” or “C/1” (2023)

2nd Phase – “Contract 2” or “C/2” (2024-2026)

- Breakout required because buried infrastructure needs to be relocation prior to roadway surface work.
- It also makes construction more efficient later because the interchange contractor will not have work around or negotiate with the existing utilities (companies and transmissions/services).

Project Construction: 2nd Construction Contract (2024-2026)

Night Work = 7:00 PM – 6:00 AM



Daytime roadway work will be restricted to one lane only. There may be multiple lane closures at night.

- DDI, Roadway, Sidewalks, Signals, Signing, Landscaping work
- Drive accesses will be open
 - If a drive needs to be temporarily closed short-term, an alternate ingress/egress will be provided
- Night-time noise
 - The contractor will be required to utilize noise reduction mitigation measures. *FHWA Construction Noise Handbook.*

Project Construction: 1st Construction Contract (2023)

Night Work = 7:00 PM – 6:00 AM



Daytime roadway work will be restricted to one lane only. There may be multiple lane closures at night.

- Retaining Walls (Feb-Apr)
 - Can be constructed during the day (outside of traffic)
 - Probably one construction crew
- Utility Relocation (Apr-Sep)
 - Buried Waterline
 - Buried Telecommunication Duct
 - Buried Gas Lines
 - Probably two construction crews
- Ledge Removal (Feb-Aug)
 - Blasting is only allowed during the day

VTrans' construction staff reserves the right to modify how traffic flows and is managed based on real-time conditions.

Retaining Wall Construction

This will allow pedestrians safe passage outside of the roadway and keep them separated from Contract 2 work zone.

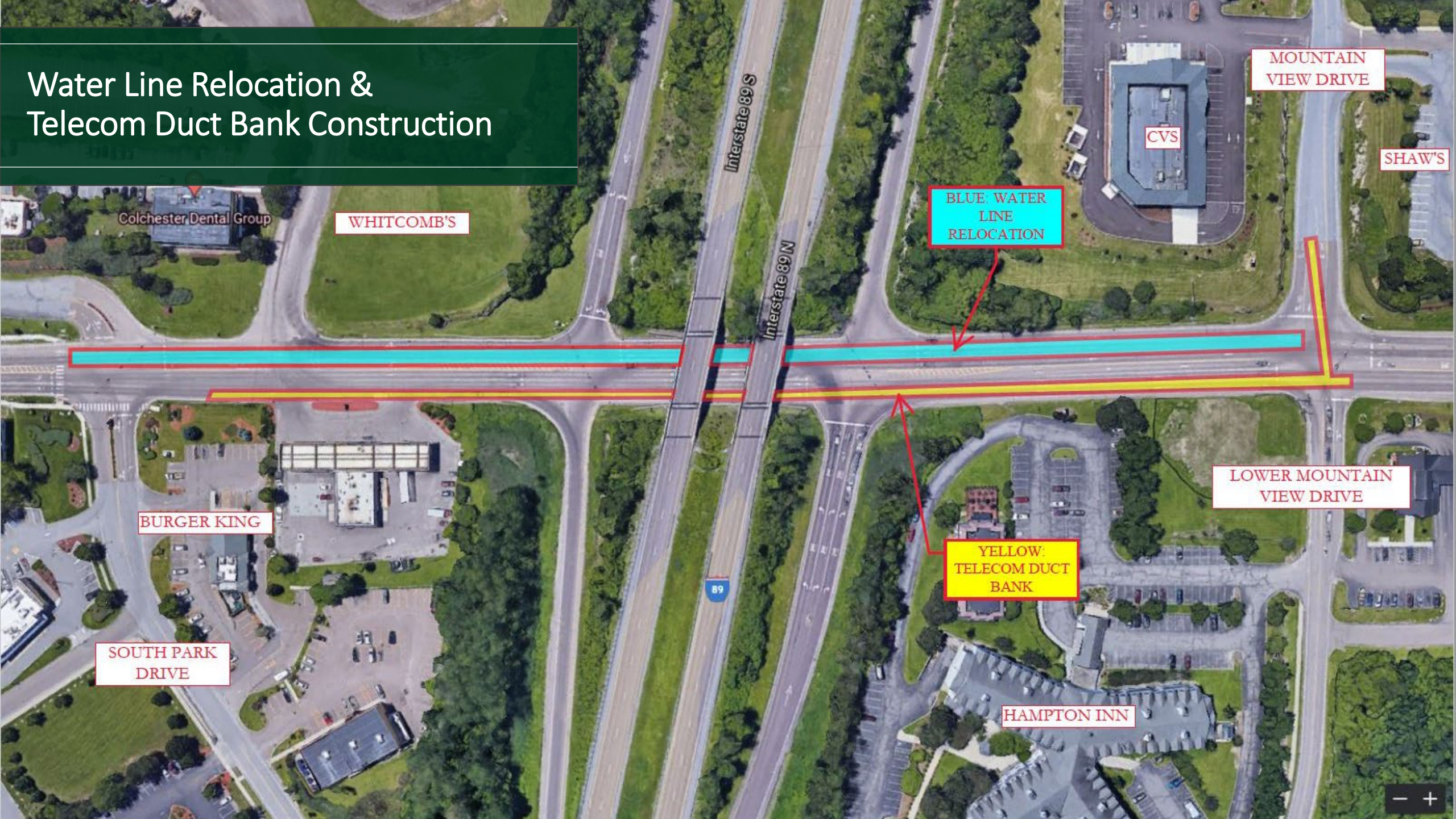


Retaining Wall Construction

Current Status: ½ of eastern wall constructed.
Excavation for western wall just beginning.



Water Line Relocation & Telecom Duct Bank Construction



MOUNTAIN VIEW DRIVE

CVS

SHAW'S

BLUE: WATER LINE RELOCATION

WHITCOMB'S

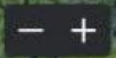
LOWER MOUNTAIN VIEW DRIVE

YELLOW: TELECOM DUCT BANK

BURGER KING

SOUTH PARK DRIVE

HAMPTON INN



Contract 1 Contractor



S.D. Ireland Brothers, Inc.
General Contractor/Site Work
Matt Wheeler, PM
Kurt Hutchins, APM



Maine Drilling & Blasting
Subcontractor/Ledge Removal

Public Outreach - Organization



Public Information Consultant
Megan Savage, Communications and Public Involvement Manager
Annabelle Dally, Senior Communications and Public Involvement Consultant



CITY OF
WINOOSKI
VERMONT

Stakeholders

Who are stakeholders?
Users. Residents. Businesses

Municipalities

Public Outreach - Scope



Information

- Project Scope
- Project Timeline & Schedule
- Construction Activities
- Traffic Updates
- Incident Management

Education

- Animations
- Videos
- Narratives
- Driving Simulator

Public Meetings, Event Booths, Website, Phone Hotline

Public Outreach

Multilingual Communications

- Arabic
- Bosnian/Serbian/Croatian
- Burmese
- French
- Kirundi
- Nepali
- Somali (Mai Mai)
- Spanish
- Swahili
- Pashto – **New!**

The Exit 16 DDI team continues to collaborate with City of Winooski and the Winooski School District to identify, manage, and coordinate communications with residents/users where English is not their primary language or written form of communication.



Exit 16 DDI
Diverging Diamond Interchange

Construction on the Exit 16 DDI Project is anticipated to begin in fall 2022 and continue through spring 2025. For additional information on the project, please visit the project website.

للحصول على معلومات إضافية حول المشروع، يرجى زيارة الموقع الإلكتروني للمشروع.

စီမံကိန်းမှာ ထပ်ဆင့်အချက်အလက်တွေအတွက် ကျေးဇူးပြု၍ ပရောဂျက် ဝက်ဘ်ဆိုက်ကို ဝင်ကြည့်ပါ။

Za dodatne informacije o projektu, posjetite web stranicu projekta.

Pour de plus amples informations sur le projet, veuillez consulter le site web du projet.

Para obtener más información sobre el proyecto, visite el sitio web del mismo.

परियोजनाको बारेमा थप जानकारीको लागि, कृपया परियोजनाको वेबसाइटमा जानुहोस्।

د پروژې په اړه د اضافي معلوماتو لپاره، مهرباني وکړئ د پروژې ویب پاڼه وگورئ.

Wixii macluumaad dheeraad ah oo ku saabsan mashruuca, fadlan booqo website-ka mashruuca.

有关该项目的其他信息，请访问该项目网站。

Kwa maelezo ya ziada kuhusu mradi huo, tafadhali tembelea tovuti ya mradi.

Để biết thêm thông tin về dự án, vui lòng truy cập trang web của dự án.

العربية Español Soomaaliga

မြန်မာ Kirundi 中文(简体)

Bosanski नेपाली Kiswahili

Français پښت Tiếng Việt

Vermont's First Diverging Diamond Interchange

Watch Educational Video

The Vermont Agency of Transportation (VTrans) is improving the roadway

www.Exit16DDI.vtransprojects.vermont.gov
info@Exit16DDI.vtransprojects.vermont.gov
24-Hour Project Hotline: 1-802-595-4399

VERMONT
AGENCY OF TRANSPORTATION



Visit the project website:

www.Exit16DDI.VTransProjects.Vermont.gov



Call Our 24-Hour Project Hotline:

802-595-4399



Email Us:

info@Exit16DDI.VTransProjects.Vermont.gov