



CONSTRUCTION

January 9, 2023

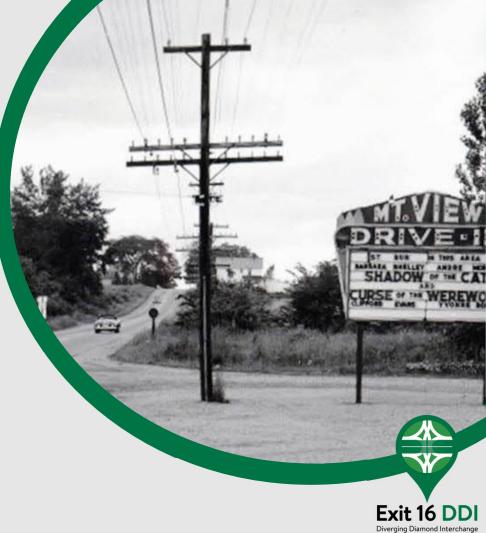
Winooski Public Meeting





Today's Overview

- Project Scope
- Project Status/Schedule
- Project Construction



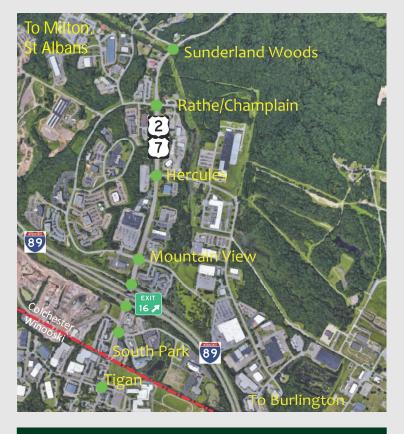


Colchester HES NH 5600(14) Scope

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

- 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 $\rightarrow DDI$



Existing I-89 Exit 16 Configuration

0EF

89

enorialHury

NISUE

Vietnam Veter

n Veterans Memorial Hury

-

00

-



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!

DDI Traffic Flow (1:05)

innennin minnen se

030

20

Bicycle and Pedestrian Flow (0:07)

3

TODRE

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



"People Can't Figure Out the Winooski Circulator..."



Circulator

- Yield conditions
- Higher speeds, straightaways
- Sight distance, grade
- Awkward side streets & parking areas
- Pedestrian crossings at unexpected locations

Summary

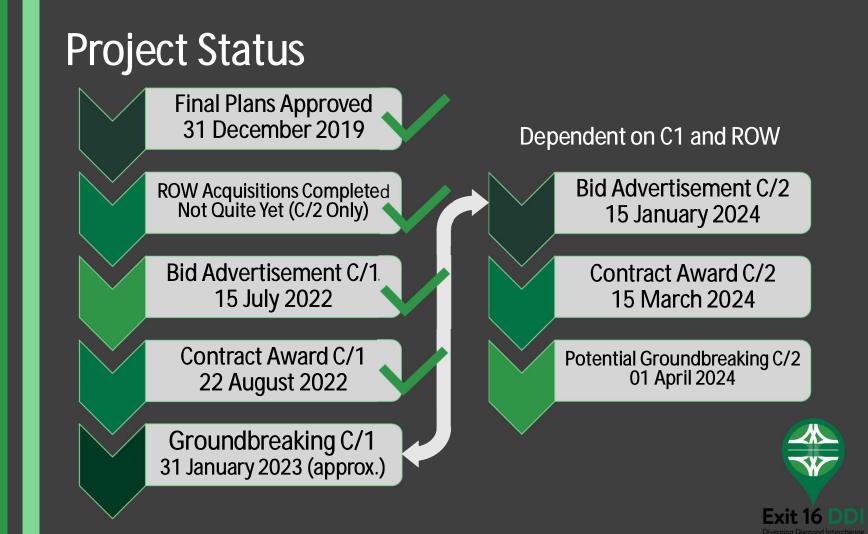
 Higher speeds, straightaways

DDI

- Traffic signal
- Stop-Go-Stop-Go, no choices/decisions to make
- Focus sight distance, no grade
- No side streets or parking
- Pedestrian crossings at predictable locations

Summary

 More fluid, less decisions to process



Project Construction: 2 Construction Phases (2023-2026)

Night Work = 7:00 PM - 6:00 AM



<u>Daytime</u> 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



<u>Daytime</u> 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



<u>Daytime</u> 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

39

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

FFFFF



Water Line Relocation & Telecom Duct Bank Construction

WHITCOMB'S

Colchester Dental Group

BURGER KING

SOUTH PARK DRIVE Interstete 89 S

ate solu

LOWER MOUNTAIN VIEW DRIVE

C

MOUNTAIN

VIEW DRIVE

SHAW'S

- 64345 10-4

HAMPTON INN

RELOCATION

YELLOW: TELECOM DUCT BANK

जुन्तु - ह

- +

Blasting Activities

- Underground utility relocation will require blasting due to deep relocations and shallow bedrock
- Blasting is anticipated between Mountain View Drive and South Park Drive
- Blasting will include a series of small, controlled explosions that are contained underground
- Proper warning and safety measures will be in place including:
 - Pre-blasting surveys
 - Audible warning signals
 - Rolling roadblocks

Blasting is restricted to weekdays during non-peak hours.

Blasting Warning Signals

Three Whistles 5 minutes to blast

Two Whistles 1 minute to blast

> One Whistle All clear

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



NSD

Public Information Consultant

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









Stakeholders Who are stakeholders? Users. Residents. Businesses

Municipalities <u>Winooski Primary Point of Contact:</u> Paul Sarne, Communications Manager

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 – Project Communications

- Email Notifications
 - Project Information Meeting Announcements (min. of two weeks in advance)
 - Construction Updates (Weekly or As-Needed)

CCRPC

•

Traffic Website

Front Page Forum

Exit 16 DDI

- Traffic Alerts (As-Needed: Critical)
- Public Feedback Surveys
- AOT Road Construction Report
- On-The-Road Messaging
 - Changeable Message Boards
 - US Route 7 Project Boards
 - I-89 Permanent Boards
- Social Media Feeds
 - VTrans
 - Facebook
 - Twitter
 - 511 •

Exit 16 DDI ng Diamond Interchange **Construction Public Meeting** Thursday, January 12, 2023 6:30 PM VERMONT Exit 16 DDI y of Transportation (VTrans) invites you to attend the ction Public Meeting for the Exit 16 Diverging Diamond olect. The Exit 16 DDI project includes improvements to Exit 16 DDI news & updates pridor, in the vicinity of I-89 Exit 16, to enhance mobility er, Vermont. The core of the project is to reconfigure the Interchange to a Diverging Diamond Interchange (DDI) inter 2022-2023 the Exit 16 DDI project was awarded to S.D. Ireland Table of Contents s anticipated to begin over the fall; however, the start of oned due to the contractor's assignment to an oneo que to me contractor s designiment to an acement project in Richmond, VT which required staff Happy Holidays ppy Holidays from the Exit 16 be redirected to that effort. With the emergency culvert nplete, staff and resources can be reallocated to the struction on the initial construction of the Exit 16 DDI Safe Winter Driving as early as the last week of January 2023. The initial emoval requiring blasting, the construction of retaining aterline replacements, and telecom duct bank prepared and protect yours Happy Holidays! feeting will include a presentation comprised of a tion schedule and sequencing, the anticipated No metter how you calebrate the Evit 16 DDI Project Team Winter Operations in a would like to wish you and your loved ones a safe and DDI bout future blasting activities. Following the happy holiday season! How will motorists and ploy an opportunity to ask questions of the project team, drivers travel through a DDI in the Brothers Corp., and the blasting subcontractor, The Vermont Agency of Transportation (VTrans) is spreading holiday cheer throughout the state with the help of Rudolph, the Holiday Snowplow! Project Updates uction Public Meeting What is new on the Exit 16 DDI ay, January 12, 2023 6:30 PM Interactive Map Interactive stakeholder in us in person: **Translated Materials** ester Meeting House n Street, Colchester, VT A wide array of project mab available in 11 languages. **Frequently Asked** oin remotely: Questions b.zoom.us/i/89281717112 See the latest FAOs e, please call +1 646-558-8656 ebinar ID: 892 8171 7112 You can see where Rudolph will be next, between now and Resources December 23, by clicking here ess *9 to raise your hand to be called on and Safe Winter Driving Tips

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.



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 برجي زيار 5 الموقع الإلكتروني للمشروع. النكيريتي معلومات إضافية حول المشروع برجي زيار 5 الموقع الإلكتروني للمشروع. 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. utadiaraja atva u anranzida entila, arua utadiaraja da atuación del mismo.

.د پروژې په اړه د اضافي معلوماتو لپاره، مهرباني وکړئ د پروژې ويب پاڼه وګورئ

AGENCY OF TRANSPORTATION

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。

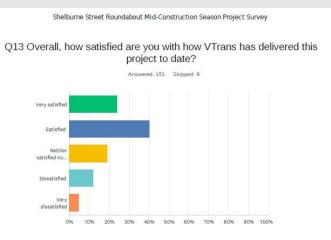
24-Hour Project Hotline: 1-802-595-4399

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.



Public Outreach - Case Study Burlington: Shelburne Street Roundabout

- Conducted after 1st Construction Season
- Asked 21 Questions:
 - Rating Impacts to Traffic
 - Rating Impacts to Businesses and Residences
 - Rating Work Zone mobility and signage
 - Rating Project's Outreach Information (i.e. distribution, effectiveness)
- Some Results:
 - Satisfaction on Construction Impacts = 60% (17% dissatisfied)
 - Navigating and understanding the work zone = 87%
 - Biking/Walking through work zone = 76% adequacy
 - Outreach Satisfaction = 76%
 - Opportunities for all survey takers to provide narrative responses
 We expense



ANSWER CHOICES	RESPONSES	
Very satisfied	23.84%	36
Satisfied	40.40%	61
Neither satisfied nor dissatisfied	19.21%	29
Dissatisfied	11.92%	18
Very dissatisfied	4.64%	7
TOTAL		151

We expect the same exceptional public outreach for the Exit 16 DDI project.



@VTransOnTheRoad





You Tube

VTransTV



VTrans

Follow VTrans on Social Media

Questions?



Diverging Diamond Interchange



Visit the project website: <u>www.Exit16DDI.VTransProjects.Vermont.gov</u>

Call Our 24-Hour Project Hotline: 802-595-4399

Email Us: info@Exit16DDI.VTransProjects.Vermont.gov