



The current interchange at Exit 16 is a grade separated tight diamond interchange with I-89 crossing over U.S. 2/7 via two bridges. The existing interchange yields frequent traffic congestion, lengthy delays, and significant queuing during peak hours. These existing conditions are a safety concern with a high number of incidents, collisions, and a lack of accommodations for non-motorized travel.

**PROJECT MILESTONES**

**Preliminary Plans**  
September 28, 2012

**Permitting**  
November 28, 2016

**Right of Way Clear**  
Winter 2022

**Bid Advertisement**  
**Phase 1**  
Summer 2022  
**Phase 2**  
Summer 2024

**Contract Award**  
**Phase 1**  
Summer 2022  
**Phase 2**  
Fall 2024

**Target Construction Schedule**

**Phase 1 Work**  
Winter 2023 - Fall 2023

**Phase 2 Work**  
Fall 2024 - Summer 2026



# Exit 16 DDI

Diverging Diamond Interchange

**PROJECT LOCATION:**

U.S. Routes 2/7 (U.S. 2/7) in Colchester from Winooski town line north 1.05 miles to Sunderland Woods Road

**PROJECT OVERVIEW:**

The Vermont Agency of Transportation (VTrans) is improving the roadway along the U.S. 2/7 corridor, in the vicinity of Interstate 89 (I-89) Exit 16, to enhance mobility and safety in Colchester, Vermont. The core of the project is to reconfigure the existing tight diamond interchange to a **Diverging Diamond Interchange (DDI)** at I-89 Exit 16.



Additional improvements include:

- Adding turn lanes at the Mountain View Drive, Hercules Drive and Rathe Road intersections.
- Construction of dedicated pedestrian and shared pedestrian/bicycle facilities such as sidewalks and shared-use paths.
- Modernizing traffic signals at South Park Drive, I-89 Exit 16, Mountain View Drive, Hercules Drive, Rathe Road, and at Tigan Street in Winooski City.



## WHAT IS A DDI?

A **Diverging Diamond Interchange (DDI)** is an innovative, modern interchange design that can relieve traffic congestion and improve safety for drivers, bicyclists, and pedestrians.

In a DDI, traffic crosses to the left side of the roadway allowing for ease of access to the interstate by eliminating difficult left turns. With traffic diverted to the left side of the roadway, vehicles making a left onto the interstate entrance ramps do not have to cross oncoming traffic, creating fewer conflict points. The reduction of conflict points reduces potential user collisions, thus improving safety and vehicle throughput. With left turn movements operating freely within the DDI, the traffic signals no longer require dedicated left turn phasing, improving overall traffic operations at the interchange. Additional benefits include reducing driver discomfort, fuel consumption, and lost time. Raised islands within the interchange create short crossing distances, which increase overall safety for non-motorized users such as pedestrians and bicyclists.

## PROJECT COST:

The project is estimated to cost approximately \$14 million.

In addition to the safety and operational benefits of the DDI, the construction of a DDI is cost effective. The DDI can be constructed utilizing the existing bridge structures eliminating the need to modify or replace them, reducing construction costs. The construction schedule of a DDI is much shorter than the construction of more common interchanges not only reducing overall cost, but also impacts to the traveling public.

## CONSTRUCTION:

Construction of the Exit 16 DDI project is being completed in two phases under two separate contracts, executed sequentially. The first phase began in Winter 2023 and consisted mainly of utility relocation, ledge removal, and retaining wall and drainage work. The construction for Phase 1 was completed in Fall 2023. The second phase of construction is anticipated to begin in Fall 2024 and will focus on roadway construction, including the installation of the DDI, the addition of turning lanes, and the implementation of pedestrian and bicycle accommodations. The project is anticipated to be completed by Summer 2026.

During construction, weekly Construction Updates will be distributed to notify the public of construction activities and travel conditions for the following week. Project Updates and Traffic Alerts will be issued on an as needed basis throughout the life of the project. Sign-up to receive project updates on the website: [www.Exit16DDI.vtransprojects.vermont.gov](http://www.Exit16DDI.vtransprojects.vermont.gov).

**Contractor:** S.D. Ireland Brothers Corporation

**VTrans Project Manager:** Michael LaCroix

**VTrans Resident Engineer:** Chris Lavalette

## CONTACT US

For more information on Exit 16 DDI Project visit

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or call the 24-hour project hotline

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