



## ★ National Roundabouts Week (NRW) 2022 ★ *September 19<sup>th</sup> to 23<sup>rd</sup>*

### Hello from the CTDOT Roundabout Committee!

Our Committee was established to assist with the planning, design, and construction of roundabouts in Connecticut and is made up of experienced engineers from Highways, Traffic, Planning, Maintenance, and Construction. The goal of the Committee is to encourage appropriate use of roundabouts, good design practices, and consistency. The Committee reviews roundabout concepts at project initiation, as well as at the 30%, 60%, and 90% design phases. We are also available to help with questions regarding such aspects as: suitability, size, lane arrangements, geometry, materials, signing, pavement markings, and phasing plans.

Please contact us at [DOT.Roundabouts@ct.gov](mailto:DOT.Roundabouts@ct.gov) if assistance is needed.

**Participate in NRW by posting to social media using #RoundaboutsWeek**

## Roundabout Trivia



## Did YOU know...?

### Did you know roundabouts are safer intersections for all users?

Speeds are lower in a roundabout, typically 20-25 mph for a single-lane design, increasing overall intersection safety. Pedestrians only need to cross one direction of vehicle travel at a time and can find refuge in the splitter island or median. Bicyclists can ride in the lane with traffic, due to low speeds, or dismount and cross as a pedestrian.



The number of vehicular conflict points is reduced from a total of 32 at a typical four-way intersection down to just 8 within a single-lane roundabout. Roundabout intersections eliminate left-turns, removing the potential for head-on and angle-type crashes, which are the most severe. With lower speeds and right-turns only, crashes that do occur typically result in less serious and fewer injuries. Connecticut has analyzed five completed roundabouts so far and found a 49% reduction in total crashes and an 81% reduction in severe crashes, in line with national statistics.

### Did you know roundabouts can reduce travel time?

Although travel speeds within a roundabout intersection are typically lower, a properly designed roundabout can promote a more efficient and continuous flow of traffic, especially in the off-peak periods. Roundabouts operate under a yield condition, minimizing traffic queues and delay, as there is no need to wait at a stop sign or traffic signal.



### Did you know roundabouts can promote business?

Slower speeds allow roadway users to more easily notice nearby businesses, and the increase in safety for non-motorized users makes walking or biking around the area more attractive and enjoyable. Roundabouts generally enhance community aesthetics and promote safer and easier access, which is more desirable for customers and businesses.



### Did you know roundabouts are better for the environment?

Because motorists no longer need to wait at a stop sign or traffic signal, fuel consumption is reduced. Less idling and less acceleration from a stopped position reduces the amount of harmful motor vehicle emissions released into the environment..



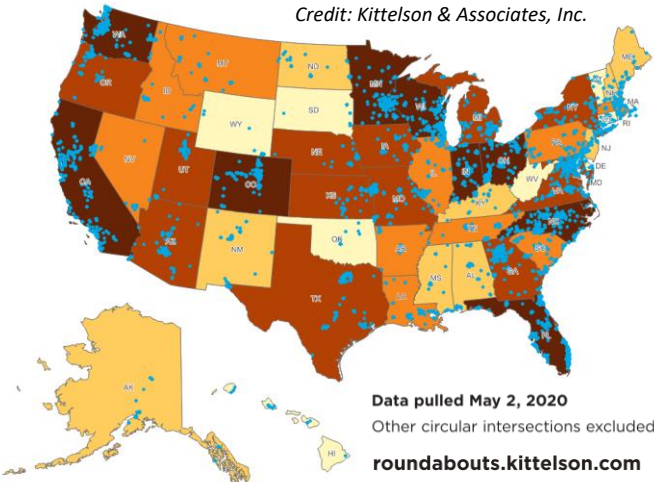


# - Connecticut Department of Transportation -



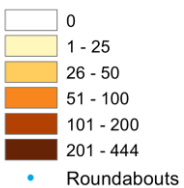
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Credit: Kittelson & Associates, Inc.



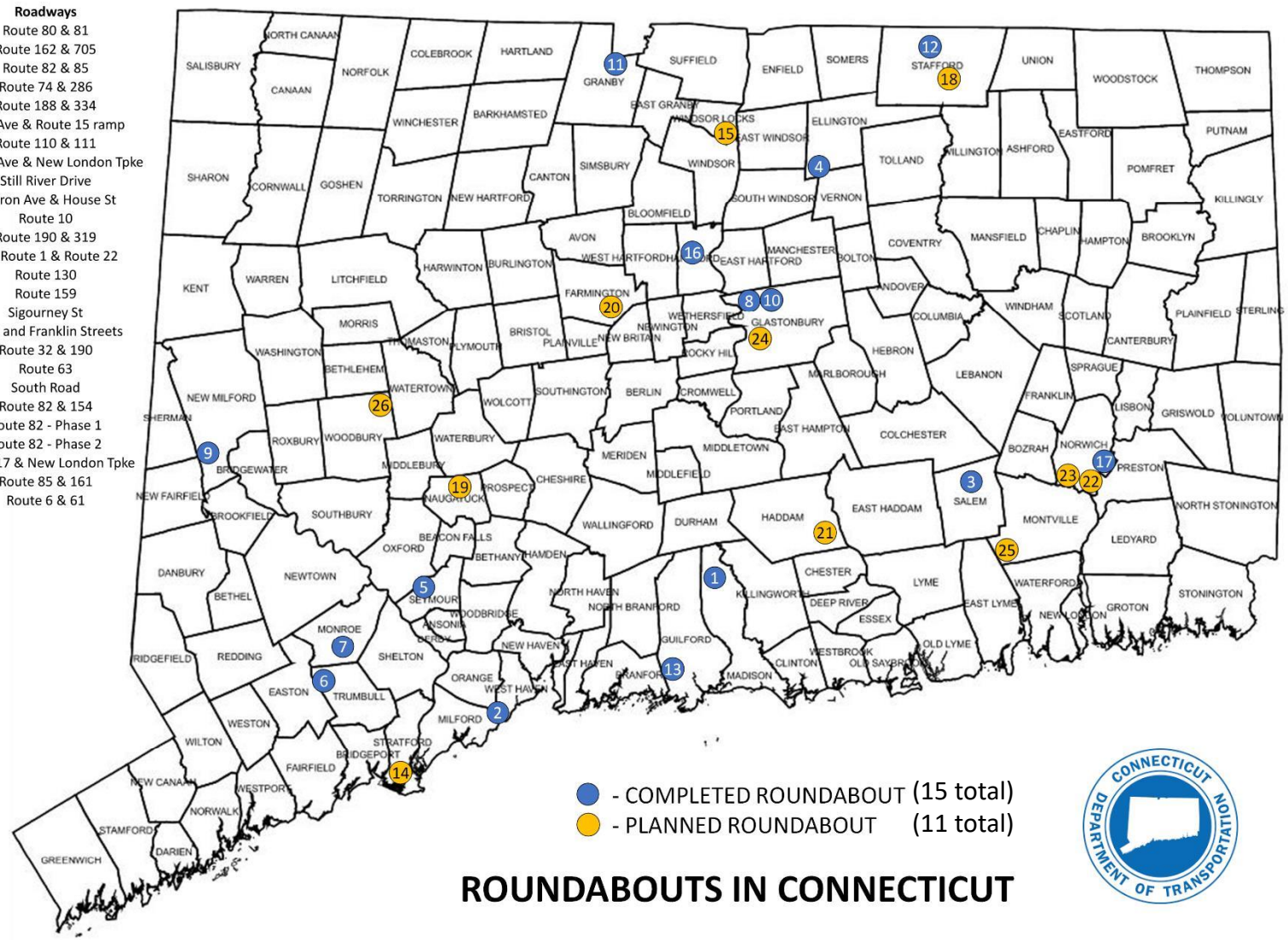
Data pulled May 2, 2020  
Other circular intersections excluded  
[roundabouts.kittelson.com](http://roundabouts.kittelson.com)

### Roundabouts per State



**Estimated total roundabouts through 2019:**  
**United States: 7,100**

ID	Town	Roadways
1	Killingworth	Route 80 & 81
2	West Haven	Route 162 & 705
3	Salem	Route 82 & 85
4	Ellington	Route 74 & 286
5	Seymour	Route 188 & 334
6	Trumbull	Park Ave & Route 15 ramp
7	Monroe	Route 110 & 111
8	Glastonbury	Hebron Ave & New London Tpk
9	New Milford	Still River Drive
10	Glastonbury	Hebron Ave & House St
11	Granby	Route 10
12	Stafford	Route 190 & 319
13	Guilford	U.S. Route 1 & Route 22
14	Stratford	Route 130
15	Windsor Locks	Route 159
16	Hartford	Sigourney St
17	Norwich	Main and Franklin Streets
18	Stafford	Route 32 & 190
19	Naugatuck	Route 63
20	Farmington	South Road
21	Haddam	Route 82 & 154
22	Norwich	Route 82 - Phase 1
23	Norwich	Route 82 - Phase 2
24	Glastonbury	Route 17 & New London Tpk
25	Montville	Route 85 & 161
26	Woodbury	Route 6 & 61



● - COMPLETED ROUNDABOUT (15 total)  
● - PLANNED ROUNDABOUT (11 total)

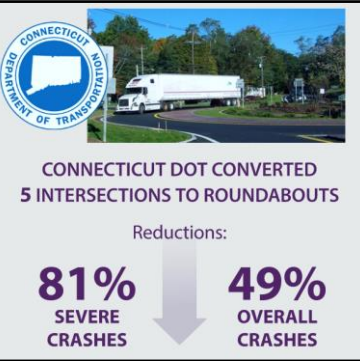
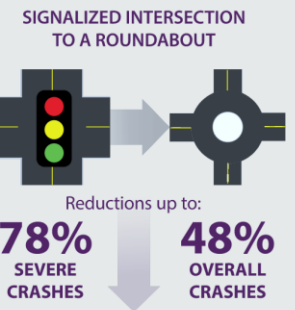
### ROUNDABOUTS IN CONNECTICUT



UPDATED SEPTEMBER 2022

### NATIONAL vs. CONNECTICUT

Converting to a roundabout results in less crashes.



As of 2022, hundreds of crashes and injuries have been prevented by roundabouts.

Map based on information available. Please contact [DOT.Roundabouts@ct.gov](mailto:DOT.Roundabouts@ct.gov) to provide additional information for map updates.

Source: AASHTO Highway Safety Manual.



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### STATE PROJECT NO. 0059-0164

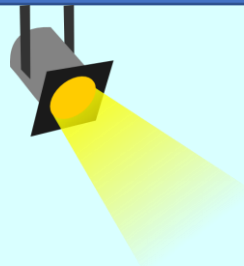
Modern Roundabout at  
U.S. Route 1 and Route 22

#### Purpose & Need:

The purpose of the project is to improve safety and alleviate peak hour congestion on Route 22 at the intersection of U.S. Route 1.

#### Description:

The project constructed a modern 3-legged roundabout to replace the existing T-intersection and removed the existing spur connection. Construction began in the Summer of 2020 and was completed in the Fall 2021.



### SPOTLIGHT on GUILFORD, BRANFORD, AND NORTH BRANFORD ROUNDABOUT (Intersection of U.S. Route 1 and Route 22)



Pre-Construction  
(before 2017)

Post-Construction  
(after 2021)



PROJECT \*DRONE\* VIDEO - [YouTube](#)

ROUNDABOUT LOCATION - [Google Maps](#)