

## Agenda Item Summary

**To:** Policy Board; Transportation Committee  
**From:** Roger Krahn, Principal Transportation Engineer  
**CC:** Matthew Hart, Executive Director  
**Meeting Date:** September 18, 2024 (Transportation Committee: September 16, 2024)  
**Subject:** Capitol Region Roundabout Screening Study

**Background:** The Capitol Region Council of Governments, in cooperation with the Connecticut Department of Transportation (CTDOT), completed the Capitol Region Roundabout Screening Study. This study identifies intersections in the CRCOG region that could result in a significant reduction in fatal and serious injury crashes if converted into a modern single-lane roundabout. The study report was prepared by the consultant team of VHB with support from Tighe & Bond.

The study used Geographic Information System (GIS) and UConn Crash Repository data in a five step screening process including intersection identification, crash data screening, traffic volume screening, intersection geometry review, and desktop constructability reviews.

The study resulted in three lists of potential single lane roundabout locations in the CRCOG region:

- Top 100 ranked locations based on Crash/Traffic Volume/Right-of-Way score
- Top three ranked locations in each city or town in the CRCOG region
- Locations suggested by CRCOG municipalities

From the Top 100 ranked locations list, a total of 61 intersections are recommended for further study for conversion to a single-lane roundabout. The Draft Final Report was completed in June 2024 and is posted on the CRCOG website at: <https://crcog.org/roundabout-feasibility-study/>

**Benefit to Member Towns/CRCOG:** This study shows the significant reduction in fatal and serious injury crashes in the top ranked locations. These intersection locations are excellent potential projects for Safe Streets and Roads for All (SS4A) grant applications.

**Financial/Operational Impact:** This report did not address construction costs.

**Project Schedule:** Municipalities seeking to develop projects at the recommended locations are encouraged to work with CRCOG staff to discuss the next steps needed to prepare an SS4A grant application for planning or implementation funds in 2025.

**Recommendation:** CRCOG staff recommends endorsement of the Capitol Region Roundabout Screening Study, Final Report, dated June 30, 2024. Once adopted, the report will be final, and the findings can be incorporated into future updates of CRCOG's Metropolitan Transportation Plan and other planning documents. The Transportation Committee will provide a recommendation at its meeting on September 16, 2024.

### Attachment:

- Resolution for Endorsement of the Capitol Region Roundabout Screening Study

**RESOLUTION  
FOR ENDORSEMENT OF THE  
CAPITOL REGION ROUNDABOUT SCREENING STUDY**

**WHEREAS**, the Capitol Region Council of Governments worked with the Connecticut Department of Transportation (CTDOT) and the CRCOG Municipalities to undertake the Capitol Region Roundabout Screening Study; and

**WHEREAS**, the screening study identified existing intersection locations in the Capitol Region where conversion of an existing intersection configuration to a modern single-lane roundabout can result in significant improvement in traffic safety by reducing fatal and serious injury crashes; and

**WHEREAS**, the study used GIS data to screen over 8,000 intersection locations in the CRCOG region on both state and municipally owned roads; and

**WHEREAS**, the screening study included two presentations to the CRCOG Transportation Committee members in November 2021 and April 2023, which included the initial screening methodologies and the results of the screening study; and

**WHEREAS**, the screening process used three primary data sets; including CT Crash Data Repository, average daily traffic volumes, and right of way impact data; and

**WHEREAS**, the locations with the highest screening scores were reviewed at the desktop level to determine if the conversion of each intersection to a roundabout was feasible considering obvious site condition impacts that would result from the construction of a roundabout; and

**WHEREAS**, the study lists the predicted number of crashes reduced per year for the top ranked intersections;

**NOW THEREFORE BE IT RESOLVED THAT**, the Capitol Region Council of Governments does hereby endorse the findings and recommendations of the Capitol Region Roundabout Screening Study described in the Final Report dated June 30, 2024. Once adopted, the report will be marked final, and the findings can be incorporated into future updates of CRCOG’s Metropolitan Transportation Plan and other planning documents.

**CERTIFICATE**

I certify the above is a true copy of a resolution adopted by the Policy Board, at its meeting held on September 18, 2024.

BY: \_\_\_\_\_ DATE: \_\_\_\_\_  
Jason Bowsza, Secretary