

**To:** CRCOG Cost Review Sub-Committee

**CRCOG Transportation Committee** 

**From:** Roger Krahn, Principal Transportation Engineer

**Date:** March 10, 2023

**Subject:** Regional Roundabout Screening – Progress Update

A presentation of the progress on CRCOG's Regional Roundabout Screening will be given at the Cost Review Sub-Committee Meeting scheduled for 11:00am on March 20, 2023.

The purpose of the Screening is to identify locations of intersections in our region, on both state and locally owned roadways, that are best suited for conversion to a single lane roundabout, with a primary goal of reducing serious crashes. CRCOG staff has been working with the consulting firm VHB on this effort. The presentation on the progress to date will include a review of the following items, which are posted on the CRCOG website at <a href="https://crcog.org/event/cost-review-sub-committee-meeting-18/">https://crcog.org/event/cost-review-sub-committee-meeting-18/</a>.

# Screening Methodology Memorandum, 6/24/2022

This explains how crash data, average daily traffic volume, and right-of-way impact would be used to compute a score for each intersection location.

# Roundabout Screening Ranked Locations, 3/9/2023

# • Top Ranked 100 Locations, 6 pages

This list includes the top 100 locations resulting from the scoring analysis.

# • Municipal Top 3 Ranked Locations, 4 pages

Some municipalities did not have any locations in the top 100. Therefore, this list was prepared showing the locations with the top three highest scores in each municipality.

# Municipal Suggested Locations, 5 pages

Following a presentation on the Roundabout Screening to the Transportation Committee on November 15, 2021, CRCOG staff requested that municipalities submit their suggestions for strong candidate locations for roundabouts. This list includes all locations received in response to that request.

# • Top Ranked 100 Locations, 4 pages

This list includes the same 100 locations as above but also includes score/ranking calculation details. It shows the crash score, ADT Factor, and Geometric Factor for each location. These factors were used to calculate the Crash, Volume, Right-of-Way (CRV) score.



To: Roger Krahn, CRCOG Date: 6/24/22

Project #: 42852.00

From: Joseph Balskus, Project Manager Re: Roundabout Screening Study Screening Methodology

The Roundabout Screening Study is underway with the crash screening and volume screening efforts. This memorandum summarizes the completed screening efforts and is the Task 2 deliverable for the scope of work prepared to describe the following 5-step screening process: 1) Crash Methodology, 2) Traffic Volume Screening Methodology, 3) Geometry of Intersection, 4) Known Congestion/Operational hotspots, and 5) Desktop reviews. These steps outline the screening process to identify potential locations of single lane roundabouts in the CRCOG region.

# **Development of Intersection Locations**

An existing GIS-based intersection inventory for the CRCOG region is not available. VHB developed the following methodology to create intersections for use in the roundabout study. The methodology leverages Esri's ArcGIS Pro software.

# **Input Data**

CTDOT State Roads GIS Feature Class

CTDOT Local Roads GIS Feature Class

# Methodology for Creating Intersection Locations:

- 1. Combine the State & Locals roads feature classes into a Composite Roads layer.
- 2. Perform an **Intersect** geoprocessing analysis where the Composite Roads layer is intersected with itself, which produces point features where roads intersect "cross" each other.
- 3. Perform a **Dissolve** geoprocessing analysis on the results of Step 2 to create a single intersection point for each road crossing. The Dissolve function eliminates overlapping points. Approximately 34,000 potential intersection locations were identified after the Dissolve analysis.
- 4. Perform a **Buffer** geoprocessing analysis against the results of Step 3. A 5-ft buffer distance was used.
- 5. Perform an **Intersect** geoprocessing analysis where the Results of Step 4 (intersection buffers) are intersected with the Composite Roads Layer. The result is a list of intersection approaches for each potential intersection location.
- 6. Perform a **Summary Statistics** analysis on the results of Step 5 to count the number of intersection approaches at each potential intersection location. This step is necessary to eliminate non-roadway intersections such as intersections at town lines, stream crossings, ramp merges, etc.
- 7. Delete potential intersection locations where the approach count from Step 5 was less than 3. This process eliminates road merges where a ramp merge with the mainline or where two divided roads merge together, breaks in roads at town lines and stream crossings, etc.
- 8. Several additional GIS overlay analyses were performed against the potential intersection locations to further reduce the number of potential intersections, resulting in a final intersection layer for use in the roundabout



study. For example, a functional class evaluation was performed on the intersection approaches to identify which intersections were local/local, were associated with an interstate or freeway, and ownership. VHB eliminated all local/local intersections, in accordance with the scope of work, that stated that the screening study would only consider intersections with a functional classification of minor collector road or higher on at least one leg of the intersection. The results of the analysis are summarized below by ownership (ownership information pulled from CTDOT's road inventory database):

- ➤ 4,508 Local Intersections (all approaches are owned by the municipality)
- > 3,650 State/Local Intersections (DOT owns at least one of the intersection approaches)
- ➤ Total = 8,158 Intersections

These total intersections may include some duplicates resulting from median divided intersections. These will be filtered during the screening process.

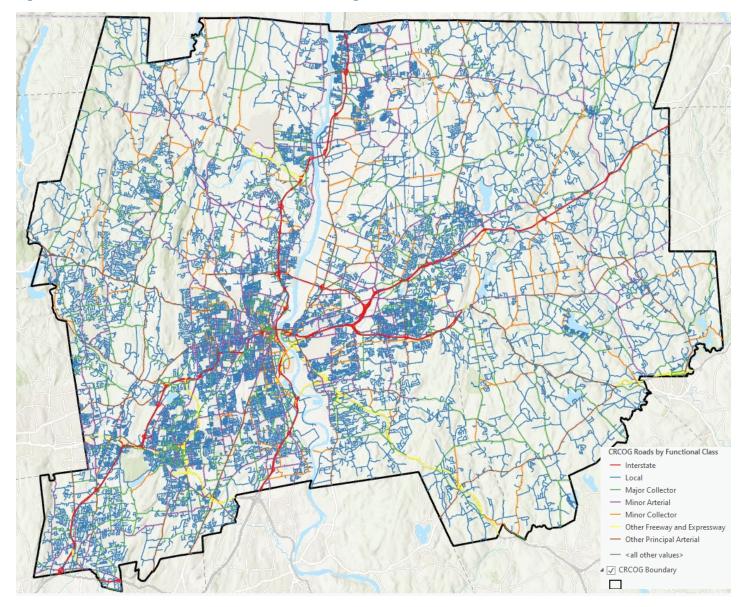
- 9. Finally, a series of summary analyses were run against the intersection locations and their associated roadway approaches to identify the following information:
  - > min/max functional classification
  - min/max speeds,
  - min/max lane count
  - > street names

In Summary, a total of 8,158 intersections within the CRCOG region will undergo the 5-step screening as described in the following steps. The data for these screened intersections will be provided to CRCOG in GIS data set for CRCOG to disseminate to the communities as needed.

Figures 1 through 3 below provide a graphical summary of the genesis of the above roadway screening to generate the total listing of screened intersections.

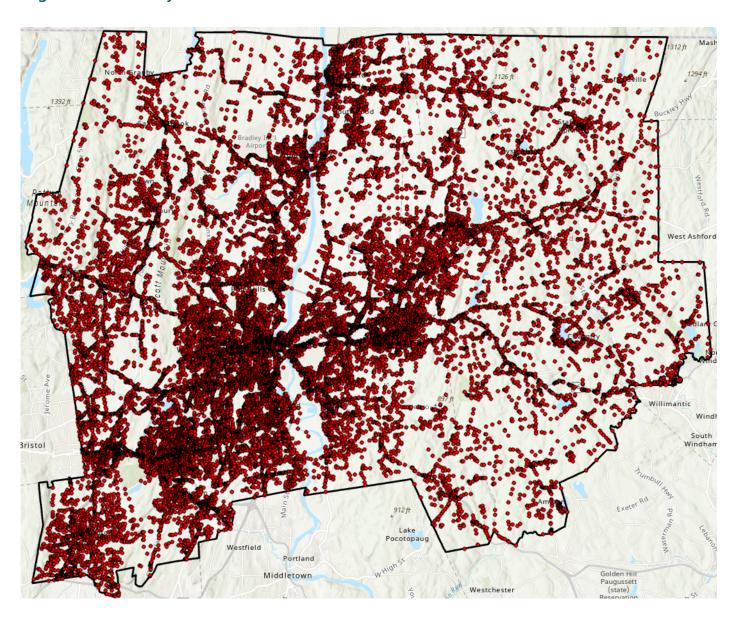


Figure 1: State & Local Roads within CRCOG Region





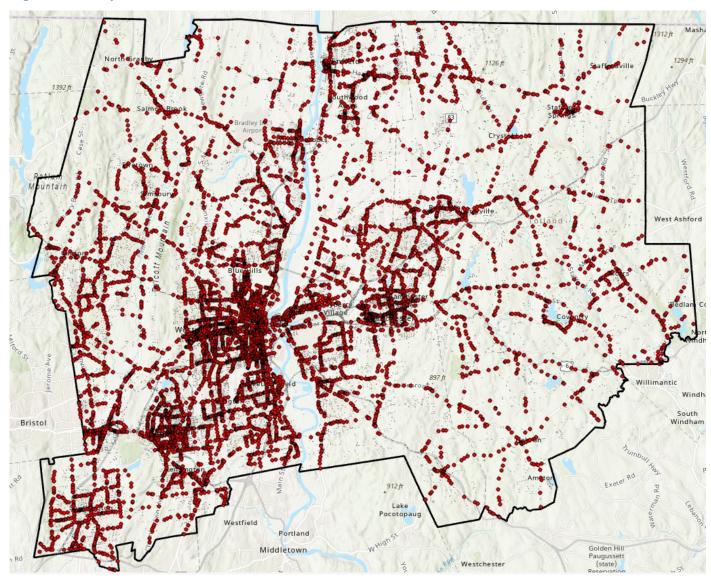
**Figure 2: Preliminary Intersection Locations** 



This figure depicts the results of initial list of intersection locations with the CRCOG region. These locations were generated by intersecting the State & Locals roads, where the result is a point location where roads intersect "cross" each other. Only intersections with a functional classification of minor collector road or higher on at least one leg are included.



**Figure 3: Study Area Intersections** 



This figure depicts the results of the intersection creation methodology. 8,158 intersection locations were identified for analysis. Many of these intersections will be eliminated after the crash data screening is applied to each location.



# **Step 1: Crash Methodology**

The primary and initial screening criteria in the screening process is the crash data from the Connecticut Crash Data Repository (CTCDR). The crash data is being entered into a geodatabase to allow for summarization of the data to screen for locations with a documented crash history. The VHB Team is using the Connecticut Roadway Safety Management System (CRSMS) in part to inform the initial screening methodologies.

The following screening methodology is being utilized for the selection criteria elements, using a single elimination type process, based on the following steps:

The CTDOT Regional Transportation Safety Plan (RTSP) developed a crash severity weighting that was reviewed as part of this roundabout crash screening efforts and considered in the development of the following crash screening severity weighting. The RTSP severity weighting is included in the Appendix for refence. A new severity weighting formula was developed in concert with current FHWA requirements and Highway Safety Manual.

- A. Crash Data Collection and Severity Weighting
  - i. Document number of crashes from CT Crash Data Repository over the 3-year period from 2017 to 2019.
  - ii. Apply the Equivalent Property Damage Only (EPDO) severity ranking methodology, similar to the that included in the CRCOG Regional Transportation Safety Plan 2020. VHB is using the EPDO screening methodology used in the CT Roadway Safety Management System from December 2020 (see Appendix for an explanation of the severity ranking weights). Below is a summary of the weighting factors by crash severity (KABCO injury scale):

K - Weight Factor = 574

A - Weight Factor = 30

B – Weight Factor = 11

C – Weight Factor = 6

O – Weight Factor = 1

For example, using the intersection of Newington Ave at John Downey Drive in New Britain, there are 11 PDO crashes, 2 C crashes, 7 B crashes, 0 A crashes, and 0 K crashes during a 3- year period, the related EPDO score for this location can be calculated as:

Weighted Crash Score: (11\*1+2\*6+7\*11+0\*30+0\*574) = 33.33

3

As noted in the FHWA Highway Safety Improvement Manual, the KABCO Injury Scale is frequently used by law enforcement for classifying injuries and also can be used for establishing crash costs. (K – Fatal; A – Incapacitating injury; B – Non-incapacitating injury; C – Possible injury; and O – No injury.)

iii. Perform crash query based on highest weighted crash score based on EPDO (as per procedures outlined in the CRSMS).



- B. Crash Data Processing with Intersection Locations
  - i. There are 89,383 total crashes with the CRCOG Region over the 3-year period from 2017 to 2019. Using the intersection layer developed for the roundabout study, VHB filtered the 89,383 crashes down to a subset of intersection crashes based on the methodology below:
    - Using the *Traffic Way Class* Attribute within crash database, filtered out any crashes that did not occur on a roadway (for example in parking lots and Non-Trafficway Crashes)
      Crash Count = 85,399
    - > VHB analyzed the **Crash Specific Location** Attribute in the crash database to evaluate using only those crashes where the Crash Specific Location Attribute = Intersection. Based on our analysis, we ignored this potential filter. VHB found too many front-to-rear crashes that were physically located at an intersection, that were miscoded (coded as non-intersection related in the crash database).
    - ➤ The study area intersections were buffered by 125 feet (250' diameter study area) from the center of each intersection. This results in a 250-foot diameter circle as shown on the figures below. This is the same buffer used in the Regional Transportation Safety Plans (RTSP) for CTDOT. For the purposes of the roundabout study, the 125-foot intersection buffers serve as the intersection influence zone for screening the crash data on each approach to the intersection. See Figures 4, 5, 6, and 7.
    - The 125' intersection buffers were intersected with the 85,399 crashes as the final GIS filter resulting in a subset of crashes associated with the study area intersection locations.

# **Total Crashes within Intersection Study Area = 45,942**

VHB then performed a summary statistics analysis, where each 125-foot intersection buffer was summarized by crash severity with the results joined to the intersection locations as attribute data for use in running the EPDO screening analysis. Below is a count of the crash data associated with the study area intersections looking at crash severity and the collision type.

# Count of crashes in the study area by severity:

K = 70 (Fatality)

A = 512 (Serious/incapacitating injury)

B = 5,350 (Non-incapacitating injury)

C = 7,103 (Possible injury)

O = 32,887 (No injury)

Null = 20

# **Collision Type Summary:**

Angle= 12,328

Front to Front = 1,111

Front to Rear = 18,631

Rear to Rear = 70

Rear to Side = 310

Sideswipe, opposite Direction = 1008

Sideswipe, same direction = 6,122

Other, Unknown, Not Applicable = 6,362



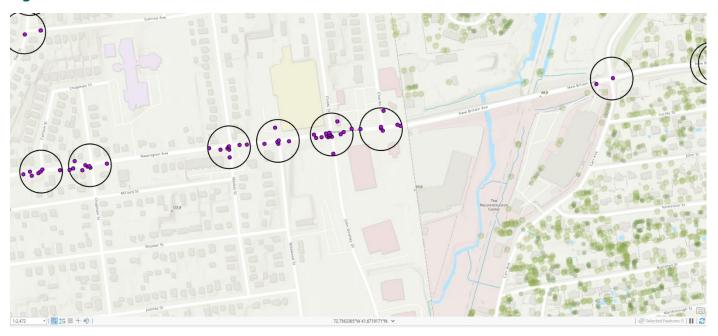
Figure 4: 125-foot radius Intersection Buffers



This figure illustrates the 125-foot buffer area generated for each study intersection for use in screening the crash data. Note how local/local intersection locations have been removed. This segment of Newington Avenue is in New Britain.



Figure 5: CRCOG crash locations show within 125-foot radius Intersection Buffers



This figure depicts the crashes within the CRCOG region in relation to the 125-foot intersection buffers along Newington Avenue in New Britain.



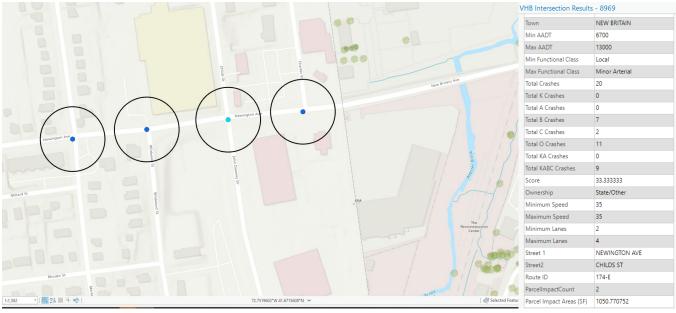
Figure 6: Crashes Filtered to Intersection Buffers



This figure depicts the results of the preliminary crash analysis where crashes are filtered down to the project area intersection locations (Newington Avenue). For each intersection buffer, the total crashes and crash severity were summarized for use in the EPDO screening analysis.



**Figure 7: Example Crash Summary Results** 



This figure illustrates the crash data summary for the intersection in the center of the image: Newington Avenue at John Downey Drive. For this location there are 11 PDO crashes, 2 C crashes, 7 B crashes, 0 A crashes, and 0 K crashes during a 3-year period, the related EPDO score for the intersection can be calculated as:

Weighted Crash Score: (11\*1+2\*6+7\*11+0\*30+0\*574) = 33.33



# **Step 2: Traffic Volume Screening Methodology**

The volume screening methodology will be applied to all intersections that were screened under Step 1 Crash Screening. VHB is using the traffic volume data available within the Connecticut Roadway Safety Management System (CRSMS) for all locations screened in Step 1.

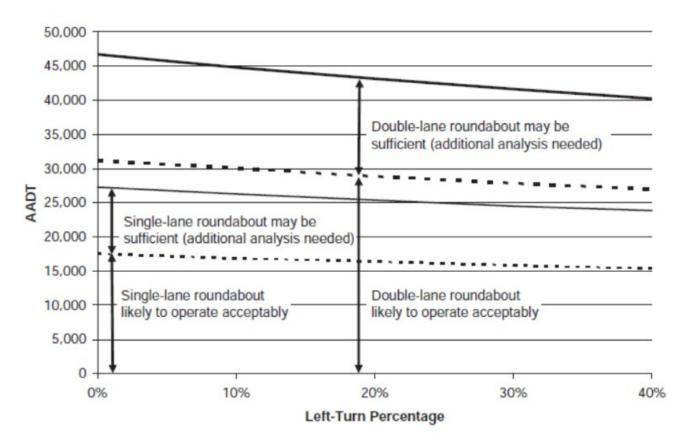
In addition, locations where traffic volume data is not available in the CRSMS, traffic data has been obtained from the CRCOG Travel Demand Model for inclusion in the data sets to ensure all screened intersections can be reviewed for traffic volumes.

All traffic volume data to be utilized will be taken from years prior to 2020 (the pandemic).

The following traffic volume screening steps will be conducted on all the 8,158 study intersection locations.

The NCHRP Report 672 Roundabouts: An Informational Guide, Exhibit 3-12, as shown below, is the primary reference to guide the traffic volume screening. Left turning volume data are not available and therefore an assumed 20% left-turn percentage will be used for all locations in the screening. This results in intersections with average daily traffic (ADT) exceeding 25,000 being eliminated from further consideration in this single lane roundabout screening. The ADT value used, will be selected from the one intersection approach leg with the highest bi-directional ADT. See Figure 9 for a sample intersection, where the screening will use the 13,000 east leg ADT volume, for the overall intersection value in the screening.

Figure 8: NCHRP 672 Exhibit 3-12



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In addition, the intersections will be further screened with a volume adjustment factor to better evaluate the likelihood of a single lane roundabout working at the given location. The following system is proposed for each location under the 25,000 ADT threshold:

**Table 1 ADT Range & Volume Adjustment Factors** 

| ADT I  | Range  | Factor |
|--------|--------|--------|
| 0      | 10,000 | 1.00   |
| 10,000 | 12,000 | 0.90   |
| 12,000 | 14,000 | 0.75   |
| 14,000 | 15,000 | 0.50   |
| 15,000 | 17,000 | 0.25   |
| 17,000 | 25,000 | 0.10   |
| 25,000 | >      | 0.00   |

As shown above, locations above 25,000 ADT are essentially eliminated from further consideration.

Intersections with ADT less than 10,000 are assured to be roundabout ready locations based upon capacity, and the value of 1 is proposed. While the NCHRP Exhibit 3-12 shows 15,000 ADT to be a threshold, using the proposed adjustment factors provides a very high level of confidence in the operational capacity of the intersections being converted to single lane roundabouts. Also, it is important to note that the volume data being used for the screening efforts are existing traffic volume counts from a variety of sources. The ADT values are not adjusted to future forecasted volumes. Therefore, if there is anticipated growth in volumes, using the factor helps account for some anticipated growth and ensures that a single lane roundabout is a good candidate for the screened intersections for further planning and development into an improvement project.

These volume adjustment factors will be utilized in an overall intersection scoring system applied to all 8,158 intersections, as presented in the following sections.



Figure 9: Sample Intersection Diagram with Volumes





# **Step 3: Geometry of Intersection**

Each of the screened intersections will be fitted with a nominal 120-foot diameter circle to determine the potential fit of the circle at each of the screened intersections. The fitment will be done entirely in GIS mapping and use tools to place the circle at the GIS determined center of the intersection while depicting intersection features available in the mapping including Right Of Way (ROW), buildings and other features. Where possible, shifting the 120-foot diameter circle to avoid a ROW or building impact will be considered unless additional impacts are incurred during the Desktop Review Step.

The following will be considered in the review of the intersection geometry overlaid with the circle:

- In locations where the overlaid circle extends into ROW, the GIS system will generate an area of ROW and building impact which will be summarized per location.
- The impacted ROW will be listed as to ownership criteria: private, municipal, State
- Locations with impacts to private ROW greater than 2,000 square feet will be eliminated
- Locations with impacts to private buildings greater than 200 square feet will be eliminated if the roundabout cannot be adjusted to avoid the impact
- For locations with ROW and building impacts less than the noted thresholds, a summary of the impacts at these locations will be provided.



Figure 10: Sample Fitment – Intersection of Newington Avenue at John Downey Drive, New Britain





The geometric fitting test will be summarized with a list of locations that work and a summary graphic.

The following scoring system is proposed to evaluate the impacts to ROW and buildings with locations that have zero impacts given a total factor of 1.00.

ROW Impact: 2,000 - x square feet

Building Impact: 200 - x square feet

Total ROW Impact Factor: (sum)/2,200

Locations with no impact will have a factor of 1.0, all others will be less than 1.0, and any locations with negative scores will be given a score of 0.0 and thereby eliminated from further consideration.

Sample Intersection Calculation (Newington Ave. & John Downey Drive in New Britain):

Private parcel ROW impact = 1,050.7 square feet

Building impact = 42

Total ROW Impact Factor = (1050.7+42)/2,200 = .50

# **SUMMARY OF STEP 1, 2, and 3 SCORING**

To rank the top locations using the above 3 screening steps; a scoring system is used combining the Step 1 weighted crash score, Step 2 volume adjustment factor, and Step 3, Total ROW Impact score. This provides the crash, volume, ROW score (CRV Score) using the following calculation:

CVR Score = Weighted Crash Score \* Volume Adjustment Factor \* Total ROW Impact Factor

#### KABC Filter

For the purposes of ranking, only potential sites with 6 or more KABC (injury related crashes) crashes over the 3-year analysis period, were included in the final ranking. The KABC filter was applied to focus on sites with high benefit/cost ratios for a proposed improvement.

# Figure 10 Example CVR Score Calculation (Newington Avenue at John Downey Drive in New Britain):

Step 1: Weighted Crash Score of 33.33

Step 2: Volume Adjustment Factor = 0.75

(ADT of the highest volume leg, east leg = 13,000)

Step 3: Total ROW Impact Factor = .50

CVR Score Calculation: CVR Score = 33.33 \* 0.75 \* 0.50 = 12.5

# **Step 4: Known Congestion/Operational Hotspots**



Intersections that do not meet the screening criteria but are intersections with known congestion, operational problems and locations suggested by the CRCOG Transportation Committee members via the survey email to municipalities will also be reviewed and screened for consideration.

If these locations were previously eliminated from the crash and volume screening, they will be reviewed for geometry fitting of the roundabout and considered in the screening process.

# **Step 5: Desktop Reviews**

Using the highest CVR scores resulting after Step 3, the list will then be adjusted to include intersections as noted in Step 4. The top ranked locations, with the 100 highest CVR scores will be reviewed at the desktop level to determine if conversion of the intersection to a roundabout is feasible considering obvious site condition impacts that would result from the physical construction of the roundabout.

The desktop reviews of existing site conditions will be conducted to identify obvious major constraints, such as adjacent buildings, major utilities, or significant historic structures based on available GIS data and aerial mapping. The desktop reviews will include a graphical and tabulated summary of the locations with the roundabout locations to be considered for future design projects.

In addition, the screening process will consider an effort to ensure that all CRCOG communities are represented with at least one roundabout location.

The 100 screened locations will be summarized by location and will provide a summary of key criteria at each intersection location (e.g., number of crashes in 3-year period, ADT, state or local ownership, etc.)

## **Analysis of Potential Crash Reductions**

After the completion of the desktop reviews, the roundabout locations will be reviewed for potential crash reductions using AASHTO and NCHRP procedures. This analysis step will be the final step in the screening process to document the screening of the top 100 locations and supplemented with a crash reduction summary.

These procedures will be used to demonstrate the safety benefits of the recommended roundabout locations.

i. Use procedures from the AASHTO Highway Safety Manual (HSM) to predict expected changes in crash frequency based on conversion of intersections to roundabouts. These procedures include using the Empirical Bayes (EB) method to determine the expected crash frequency for the identified candidate signalized/unsignalized intersections and then using the appropriate Crash Modification Factor from the Crash Modification Factor Clearinghouse to determine the expected crash frequency with the roundabout. The EB method is implemented through the use of HSM spreadsheet tools developed by AASHTO and/or safety performance factors calibrated by CTDOT, if available. Figure 11 below is a sample screenshot of the AASHTO spreadsheet tool, which allows a user to input existing geometric and traffic volumes for the signalized/unsignalized intersection, generating an output for the expected number of crashes. Separate spreadsheets are available for different location types: rural two-lane roads, rural multi-lane highways, and urban and suburban arterials. The Enhanced Interchange Safety Analysis Tool (ISATe) is also available from AASHTO to analyze ramp termini.



- ii. The CMF Clearinghouse lists a variety of CMFs that show the potential reduction in the frequency of crashes as a result of a conversion of an intersection to a roundabout. Each CMF is assigned a star value to indicate the quality of the data used to establish the CMF and its standard error. Where possible, CMFs with higher star ratings are to be used. The CMF Clearinghouse also groups roundabout CMFs based on the conversion to single-lane roundabouts (separate CMFs are available for multi-lane roundabouts):
  - o Intersection to single-lane roundabout
  - Stop-Controlled intersection to single-lane roundabout
  - o No control/yield intersection to single-lane roundabout
  - o Two-way stop-controlled intersection to single-lane roundabout
  - o All-way stop-controlled intersection to single-lane roundabout
  - o Signalized intersection to modern roundabout
  - o Unsignalized intersection to single-lane roundabout
- iii. Each CMF includes parameters that indicate the applicability of the CMF. Such parameters include:
  - Urban or rural location
  - Crash severity the CMF addresses
  - Type of crash the CMF addresses
  - Roadway geometry
  - o Minimum and maximum traffic volume
- iv. Figure 12 below shows how various CMFs in the Clearinghouse can be compared and illustrates the various parameters behind each CMF. The project team will use the CMF comparison tool to select an appropriate set of CMFs to be consistently applied to the top sites to determine the expected percent reduction in crashes. While the HSM has a listing of roundabout CMFs, these are also included in the CMF Clearinghouse therefore, the Clearinghouse has the best set of CMFs available for use.
- v. Identify potential economic benefit of crash reductions based on the outcomes of the EB analysis and applying economic benefit values used and calibrated by CTDOT as appropriate.
- vi. Determine a threshold value of number of crashes reduced over a 3-year period, to be considered for additional roundabout screening, or eliminated from screening.

Figure 11: AASHTO Spreadsheet Tool



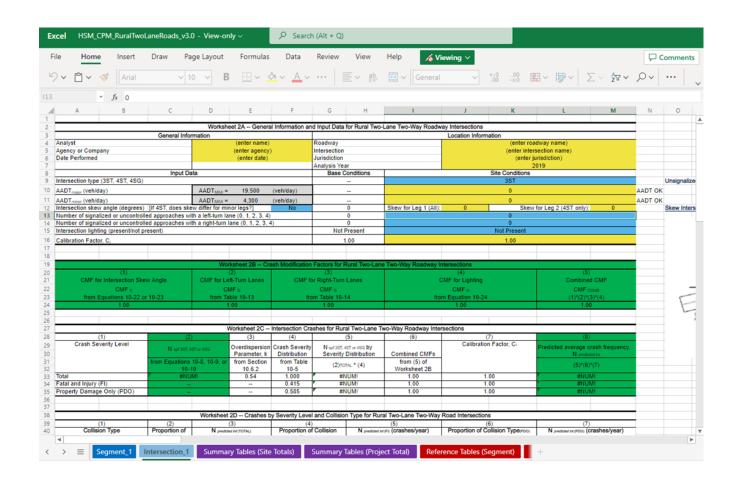




Figure 12: Clearinghouse CMF Example

| Countermeasure Name           | Conversion of stop-<br>controlled intersection<br>into single-lane<br>roundabout | Conversion of stop-<br>controlled intersection<br>into single-lane<br>roundabout | Convert all-way, stop-<br>controlled intersection<br>to roundabout | Convert all-way, stop-controlled intersection to roundabout  |
|-------------------------------|--|--|--|--|
| CMF ID                        | <u>206</u>   | 207  | 242  | 4933   |
| CMF                           | 0.28   | 0.42   | 1.03   | 0.544  |
| Study Reference               | PERSAUD ET AL., 2001   | PERSAUDET AL., 2001  | RODEGERDTS ET AL.,<br>2007   | QINETAL, 2013  |
| Unadjusted Standard Error CMF | 0.06   | 0.07   | 0.15   | 0.196  |
| CMFunction                    |  |  |  |  |
| Star Rating                   | 90000x   | WWW.   | **   | **   |
| Rating Score Total            | 130  | 130  | 55   | 45   |
| Crash Type                    | All  | All  | All  | All  |
| Crash Severity                | All  | All  | All  | Fatal, Serious injury, Minor injury  |
| Crash Time of Day             |  |  |  | All  |
| Area Type                     | Urban  | Rural  | All  | All  |
| Road Division Type            |  |  |  | All  |
| Road Type                     | Not specified  | Not specified  | Not Specified  | Not specified  |
| Number of Lanes               |  |  | 1 or 2   | 2,4  |
| Intersection Type             | Roadway/roadway (not interchange related)  | Roadway/roadway (not interchange related)  | Roadway/roadway (not interchange related)                          | Roadway/roadway (not interchange related)  |
| Intersection Geometry         | Not specified  | Not specified  | 4-leg  | 3-leg,4-leg  |
| Traffic Control               | Stop-controlled  | Stop-controlled  | Stop-controlled  | Stop-controlled  |
| Speed Limit                   |  |  |  |  |
| Study Type                    | 2  | 2  | 2  | 2  |
| Years From                    |  |  |  | 1994   |
| Years To                      |  |  |  | 2010   |
| Traffic Volume Unit           | Annual Average Daily<br>Traffic (AADT)   | Annual Average Daily<br>Traffic (AADT)   | Unit Unknown   | Annual Average Daily Traffic<br>(AADT)   |
| Min Traffic Volume            |  |  |  |  |
| Max Traffic Volume            |  |  |  |  |
| Min Major Rd Volume           |  |  |  | 4100 (total entering)  |
| Max Major Rd Volume           |  |  |  | 48100 (total entering)   |
| Min Minor Rd Volume           |  |  |  |  |
| Max Minor Rd Volume           |  |  |  |  |
| Avg Traffic Volume            |  |  |  |  |
| Avg Major Rd Volume           |  |  |  |  |
| Avg Minor Rd Volume           |  |  |  |  |
| State of Origin               |  |  |  | WI   |
| Municipality                  |  |  |  | Statewide  |
| Country                       |  |  |  | USA  |
| Comments                      |  |  |  | Study included three-year before<br>and after crash data for each<br>site Reported traffic volume is<br>total entering volume. |



# **Summary**

As noted in the foregoing screening methodology, this memorandum provides a comprehensive screening process for reviewing intersections in the CRCOG region for potential conversion to a modern single lane roundabout, using the available traffic volume and crash data from CTDOT and CRCOG sources.

The process includes a hierarchy of weighted crash score, volume adjustment factor, and right of way impact factor. A score is developed in order to rank the locations with the greatest potential to convert to a modern single lane roundabout.

These ranked locations will then be reviewed at the "desktop" level, using available online mapping and GIS resource data, as well as local knowledge. This desktop engineering review of these locations will provide a final determination on viability.

The basis for this screening effort is data. Using the available data in this 5 step screening process, appropriate single lane roundabout locations were identified in a very efficient and defined process.

An overall roundabout screening methodology for the CRCOG region needs to be dynamic, and can be modified in the future as conditions warrant, such as providing additional locations where mini-roundabouts and/or multilane roundabouts may be appropriate. However, the goal of this particular screening effort is to identify locations that can be considered for future funding of additional studies and design leading to construction of the safest form of intersection control: modern single lane roundabouts.



# Appendix Adjusted EPDO Weighting Summary



# **Adjusted EPDO Weighting Summary**

The equivalent property damage only (EPDO) method used by UCONN in its CRSMS tool calculates a combined frequency and severity score for each site by assigning weighting factors to crashes by crash severity and monetary consequences. The weighting factors are based on the costs of property damage only crashes, and the calculated score accounts for the severity of crashes and the expected crash costs for each site. The initial weighting factors are estimated by the Federal Highway Administration (FHWA) using the 2001 dollar values and documented in the "Safety Analyst User Manual" based on the mean comprehensive monetary costs for each severity level. Level K has a mean comprehensive cost equal to \$5,800,000 per crash, and a weight factor equal to 1450; level A has a mean comprehensive cost equal to \$402,000 per crash, and a weight factor equal to 100; level B has a mean comprehensive cost equal to \$80,000 per crash, and a weight factor equal to 20; level C has a mean comprehensive cost equal to \$42,000 per crash, and a weight factor equal to 10; level PDO has a mean comprehensive cost equal to \$4,000 per crash, and a weight factor equal to 1. The EPDO score is weighted to the per mile per year unit for segments and per year for intersections and is then used for ranking sites. However, the 2001 dollar values might not be representative to the current values due to the inflation. Therefore, the weighting factors of crash severities used in this study are adjusted to the current economic situation using the Consumer Price Index (CPI) and Employment Cost Index (ECI) released by the U.S. Bureau of Labor Statistics (BLS). BLS releases the CPI and ECI monthly. However, the monthly changes of CPI and ECI are very small and UCONN decided to update the weighting factors for EPDO analysis once a year. The latest EPDO weights used in the CRSMS from December 2020 are:

K – Weight Factor = 574 ,
A – Weight Factor = 30,
B – Weight Factor = 11,
C – Weight Factor = 6,
O – Weight Factor = 1

These weights are different than those used in the previous CRCOG RTSP study as VHB determined weights in that study based off FHWA's **national guidance** ((https://safety.fhwa.dot.gov/hsip/docs/fhwasa17071.pdf) and adjusted them for Connecticut, rather than using UCONN's approach of adjusting the values in the Safety Analyst tool. Using the RTSP approach Level K has a mean comprehensive cost equal to \$16,185,746 per crash, and a weight factor equal to 949; level A has a mean comprehensive cost equal to \$938,535 per crash, and a weight factor equal to 55; level B has a mean comprehensive cost equal to \$284,430 per crash, and a weight factor equal to 17; level C has a mean comprehensive cost equal to \$179,924 per crash, and a weight factor equal to 11; level PDO has a mean comprehensive cost equal to \$17,061 per crash, and a weight factor equal to 1.

| Decembe  | r 202 | O CRSMS Us | er Manual |        | June 2019 | CRS | MS User Ma | inual |        | CRCOG RT | SP V | Veights    |          |        |
|----------|-------|------------|-----------|--------|-----------|-----|------------|-------|--------|----------|------|------------|----------|--------|
| Severity | Val   | ıe         | Ratio     | Weight | Severity  | Val | ue         | Ratio | Weight | Severity | Val  | ue         | Ratio    | Weight |
| K        | \$    | 6,415,389  | 573.5195  | 574    | K         | \$  | 5,800,000  | 1450  | 1450   | K        | \$   | 16,185,746 | 948.6986 | 949    |
| Α        | \$    | 338,576    | 30.26783  | 30     | Α         | \$  | 402,000    | 100.5 | 100    | Α        | \$   | 938,535    | 55.01055 | 55     |
| В        | \$    | 123,646    | 11.05364  | 11     | В         | \$  | 80,000     | 20    | 20     | В        | \$   | 284,430    | 16.67136 | 17     |
| С        | \$    | 69,541     | 6.216789  | 6      | С         | \$  | 42,000     | 10.5  | 10     | С        | \$   | 179,924    | 10.54592 | 11     |
| 0        | \$    | 11,186     | 1         | 1      | 0         | \$  | 4,000      | 1     | 1      | 0        | \$   | 17,061     |          | 1      |
|          |       |            |           |        |           |     |            |       |        |          |      |            |          |        |

| Rank | CVR Score | Municipality | Major Road                               | Minor Road                       | Total<br>Crashes | Total KABC<br>Crashes | Crash Score | ADT   | ADT Factor | ROW Issues    | Geometric<br>Factor | Recommended | Comment                                 |
|------|-----------|--------------|--|----------------------------------|------------------|-----------------------|-------------|-------|------------|---------------|---------------------|-------------|---|
| 1    | 250.20    | HARTFORD     | MAIN ST                                  | MAHL AVE/PAVILLION ST            | 31               | 10                    | 417.00      | 13500 | 0.75       | Moderate      | 0.80                | Yes         |   |
| 2    | 232.65    | HARTFORD     | CHAPEL ST. NO/WALNUT ST/I-<br>84 EB RAMP | HIGH ST                          | 60               | 11                    | 232.67      | 9900  | 1          | None          | 1.00                | No          | Volumes                                 |
| 3    | 187.54    | HARTFORD     | NEW BRITIAN AVE                          | SUMMIT ST/FAIRFIELD AVE          | 17               | 6                     | 216.33      | 10600 | 0.9        | Insignificant | 0.96                | Yes         |   |
| 4    | 187.50    | BERLIN       | MILL ST (CT 372)                         | SAVAGE HILL RD/BECKLEY RD        | 12               | 6                     | 208.33      | 10300 | 0.9        | None          | 1.00                | Yes         |   |
| 5    | 162.28    | HARTFORD     | FRANKLIN AVE                             | BUSHNELL ST                      | 13               | 7                     | 213.67      | 8600  | 1          | Significant   | 0.76                | No          | ROW                                     |
| 6    | 149.93    | HARTFORD     | WASHINGTON ST                            | VERNON ST # 2                    | 34               | 11                    | 229.00      | 12100 | 0.75       | Insignificant | 0.87                | Yes         |   |
| 7    | 145.27    | HARTFORD     | FRANKLIN AVE                             | BLISS ST                         | 13               | 7                     | 213.67      | 8600  | 1          | Significant   | 0.68                | No          | Fatal likely<br>occurred at<br>Bushnell |
| 8    | 131.67    | HARTFORD     | WESTLAND ST                              | BARBOUR ST                       | 18               | 6                     | 205.33      | 5700  | 1          | Significant   | 0.64                | No          | ROW                                     |
| 9    | 108.48    | HARTFORD     | HOMESTEAD AVE/WALNUT ST                  | GARDEN ST #1                     | 54               | 28                    | 270.67      | 13100 | 0.75       | Moderate      | 0.53                | Yes         |   |
| 10   | 89.31     | HARTFORD     | ALBANY AVE (US 44)                       | BROOK ST                         | 19               | 6                     | 215.33      | 13400 | 0.75       | Significant   | 0.55                | No          | ROW                                     |
| 11   | 81.67     | HARTFORD     | WETHERSFIELD AVE                         | ADELAIDE ST                      | 19               | 7                     | 212.33      | 12000 | 0.9        | Significant   | 0.43                | No          | ROW                                     |
| 12   | 79.75     | HARTFORD     | MORGAN ST (US 44)                        | MARKET ST                        | 128              | 30                    | 127.00      | 12800 | 0.75       | Insignificant | 0.84                | No          | ROW                                     |
| 13   | 67.43     | SOUTHINGTON  | MERIDAN-WATERBURY TPKE<br>(CT 322)       | CLARK ST (CT 509)                | 15               | 7                     | 215.67      | 11700 | 0.9        | Moderate      | 0.35                | Yes         | Vols, Signal<br>System                  |
| 14   | 65.05     | HARTFORD     | ZION ST # 1                              | WARD ST                          | 18               | 9                     | 220.33      | 10400 | 0.9        | Significant   | 0.33                | No          | ROW                                     |
| 15   | 64.30     | HARTFORD     | FARMINGTON AVE                           | BROAD ST                         | 84               | 23                    | 89.67       | 12600 | 0.75       | Insignificant | 0.96                | No          | Needs Multi-Lane<br>Rdbt                |
| 16   | 63.79     | HARTFORD     | TRUMBULL ST                              | CHAPEL ST SOUTH                  | 47               | 18                    | 67.00       | 7100  | 1          | Significant   | 0.95                | No          | ROW, Vols?                              |
| 17   | 58.25     | HARTFORD     | MAIN ST #2                               | CHARTER OAK AVE/BUCKINGHAM<br>ST | 36               | 14                    | 233.00      | 15900 | 0.25       | Moderate      | 1.00                | Yes         |   |
| 18   | 55.72     | HARTFORD     | NEW BRITAIN AVE                          | HILLSIDE AVE                     | 44               | 15                    | 247.00      | 10600 | 0.9        | Significant   | 0.25                | No          | ROW                                     |
| 19   | 53.33     | HARTFORD     | ANN UCELLO ST #1 /PLEASANT<br>ST         | CHAPEL ST NORTH                  | 41               | 12                    | 53.33       | 6800  | 1          | Significant   | 1.00                | No          | ROW                                     |
| 20   | 52.44     | HARTFORD     | MAIN ST (US 44)/MORGAN ST                | CHAPEL ST NORTH                  | 78               | 24                    | 82.67       | 12500 | 0.75       | Moderate      | 0.85                | No          | Volumes                                 |

| Rank | CVR Score | Municipality     | Major Road                             | Minor Road                                      | Total<br>Crashes | Total KABC<br>Crashes | Crash Score | ADT   | ADT Factor | ROW Issues    | Geometric<br>Factor | Recommended | Comment                                 |
|------|-----------|------------------|--|---|------------------|-----------------------|-------------|-------|------------|---------------|---------------------|-------------|---|
| 21   | 51.91     | VERNON           | HARTFORD TURNPIKE (CT 30)              | RESERVIOIR RD/GROVE ST (CT 31)                  | 67               | 17                    | 67.00       | 11200 | 0.9        | Insignificant | 0.86                | Yes         |   |
| 22   | 51.21     | HARTFORD         | ALBANY AVE (US 44)                     | GARDEN ST # 1                                   | 85               | 22                    | 271.00      | 16000 | 0.25       | Significant   | 0.76                | No          | ROW, Recent<br>Project                  |
| 23   | 51.17     | HARTFORD         | CAPITOL AVE                            | LAUREL ST                                       | 47               | 13                    | 57.00       | 10300 | 0.9        | Moderate      | 1.00                | Yes         |   |
| 24   | 50.42     | HARTFORD         | FRANKLIN AVE                           | BOND ST   | 32               | 17                    | 55.67       | 8600  | 1          | Significant   | 0.91                | Yes         |   |
| 25   | 47.97     | HARTFORD         | PARK TERR                              | SIGOURNEY ST/RUSS ST                            | 47               | 18                    | 64.00       | 13600 | 0.75       | None          | 1.00                | No          | Already<br>Converted to a<br>Roundabout |
| 26   | 46.67     | NEW BRITAIN      | COLUMBUS BLVD                          | CHESTNUT ST                                     | 26               | 11                    | 46.67       | 8100  | 1          | Insignificant | 1.00                | Yes         |   |
| 27   | 44.32     | HARTFORD         | CAPITOL AVE                            | BROAD ST  | 56               | 19                    | 66.67       | 10300 | 0.9        | Insignificant | 0.74                | Yes         |   |
| 28   | 42.87     | HARTFORD         | FRANKLIN AVE                           | BROWN ST  | 42               | 7                     | 45.00       | 8600  | 1          | Significant   | 0.95                | No          | ROW                                     |
| 29   | 42.05     | NEW BRITAIN      | COLUMBUS BLVD/CT 9 SB<br>ENT/EXIT RAMP | ELLIS ST  | 26               | 11                    | 45.00       | 8600  | 1          | Insignificant | 0.93                | Yes         |   |
| 30   | 40.74     | NEWINGTON        | WILLARD AVE (CT 173)                   | ROBBINS AVE                                     | 33               | 17                    | 54.33       | 13500 | 0.75       | Significant   | 1.00                | Yes         |   |
| 31   | 40.15     | HARTFORD         | WASHINGTON ST                          | JEFFERSON ST                                    | 51               | 22                    | 75.33       | 12100 | 0.75       | Moderate      | 0.71                | Yes         |   |
| 32   | 39.45     | VERNON           | HARTFORD TPKE (CT 30)                  | BOLTON RD/CENTER RD                             | 48               | 12                    | 52.33       | 11300 | 0.9        | Moderate      | 0.84                | Yes         |   |
| 33   | 38.50     | BERLIN           | FRONTAGE RD/MILL ST (CT 372)           | WORTHINGTON RIDGE (CT 372-<br>SOUTH/572- NORTH) | 26               | 12                    | 51.33       | 13700 | 0.75       | Moderate      | 1.00                | Yes         |   |
| 34   | 37.99     | WEST<br>HARTFORD | NEW PARK AVE                           | FLATBUSH AVE                                    | 70               | 22                    | 76.67       | 14600 | 0.5        | Significant   | 0.99                | No          | Volumes                                 |
| 35   | 37.50     | HARTFORD         | I-84-W-115                             | SIGOURNEY ST                                    | 40               | 12                    | 41.67       | 11900 | 0.9        | Insignificant | 1.00                | No          | Volumes, on<br>Structure                |
| 36   | 36.06     | HARTFORD         | WASHINGTON ST                          | PARK ST   | 64               | 15                    | 75.33       | 12100 | 0.75       | Moderate      | 0.64                | Yes         |   |
| 37   | 35.40     | WEST<br>HARTFORD | PROSPECT AVE                           | KANE ST   | 33               | 11                    | 39.33       | 10500 | 0.9        | None          | 1.00                | Yes         |   |
| 38   | 34.75     | HARTFORD         | I-84 EB ON RAMP                        | BROAD ST  | 64               | 12                    | 46.33       | 13100 | 0.75       | None          | 1.00                | No          | Bridge Piers                            |

| Rank | CVR Score | Municipality     | Major Road                                | Minor Road                            | Total<br>Crashes | Total KABC<br>Crashes | Crash Score | ADT   | ADT Factor | ROW Issues    | Geometric<br>Factor | Recommended | Comment  |
|------|-----------|------------------|---|---------------------------------------|------------------|-----------------------|-------------|-------|------------|---------------|---------------------|-------------|--|
| 39   | 34.50     | COVENTRY         | BOSTON TURNPIKE (US 44)                   | MAIN ST (CT 31)                       | 30               | 11                    | 38.33       | 10300 | 0.9        | Insignificant | 1.00                | Yes         |  |
| 40   | 34.23     | NEW BRITAIN      | EAST MAIN                                 | MAIN ST                               | 37               | 17                    | 47.33       | 13100 | 0.75       | None          | 0.96                | No          | Recent Project                                 |
| 41   | 33.60     | MANSFIELD        | MIDDLE TURNPIKE (US 44)                   | STORRS RD (CT 195)                    | 37               | 12                    | 37.33       | 10900 | 0.9        | None          | 1.00                | Yes         |  |
| 42   | 32.70     | WINDSOR          | WINDSOR AVE (CT 159)                      | ROOD AVE                              | 25               | 10                    | 36.33       | 10600 | 0.9        | Insignificant | 1.00                | No          | Realgnment<br>needed, Major<br>utility impacts |
| 43   | 32.47     | HARTFORD         | ASYLUM AVE                                | BROAD ST/COGSWELL ST                  | 95               | 20                    | 81.67       | 14300 | 0.5        | Insignificant | 0.80                | No          | Volumes  |
| 44   | 32.33     | HARTFORD         | I-91 NB RAMP                              | I-91 SB RAMP                          | 37               | 10                    | 32.33       | 5200  | 1          | None          | 1.00                | No          | Steep Grade                                    |
| 45   | 32.33     | BLOOMFIELD       | BLOOMFIELD AVE (CT 189)                   | PARK AVE/MTN AVE (CT 178)             | 27               | 9                     | 32.33       | 9900  | 1          | Insignificant | 1.00                | Yes         |  |
| 46   | 31.68     | HARTFORD         | I-84 EB OFF/WB ON                         | CAPITOL AVE/OAK ST                    | 32               | 13                    | 52.00       | 10300 | 0.9        | None          | 0.68                | Yes         |  |
| 47   | 31.00     | VERNON           | TALCOTTVILLE RD (CT 83)                   | HARTFORD TURNPIKE/KELLY RD<br>(CT 30) | 49               | 11                    | 41.33       | 12700 | 0.75       | None          | 1.00                | Yes         |  |
| 48   | 30.60     | HARTFORD         | MAPLE AVE                                 | FAIRFIELD AVE # 1                     | 18               | 8                     | 34.00       | 11000 | 0.9        | Insignificant | 1.00                | No          | ROW, Potential historic impact                 |
| 49   | 30.50     | HARTFORD         | STATE ST                                  | MARKET ST                             | 53               | 6                     | 40.67       | 13400 | 0.75       | None          | 1.00                | No          | Potential<br>Wetlands, Utility<br>impacts      |
| 50   | 30.09     | GLASTONBURY      | GLASTONBURY<br>BLVD/GRISWOLD ST           | MAIN ST                               | 63               | 9                     | 49.00       | 13400 | 0.75       | None          | 0.82                | No          | Hybrid may be<br>needed, signal<br>system      |
| 51   | 29.38     | HARTFORD         | FARMINGTON AVE                            | SIGOURNEY ST                          | 68               | 19                    | 72.33       | 12600 | 0.75       | Moderate      | 0.54                | No          | ROW, Signal<br>System                          |
| 52   | 29.00     | VERNON           | HARTFORD TURNPIKE (CT 30)                 | DOBSON RD                             | 37               | 6                     | 29.00       | 9100  | 1          | None          | 1.00                | Yes         |  |
| 53   | 28.80     | ENFIELD          | ENFIELD ST (US 5)/FRANKLIN<br>ST (CT 514) | CT 190 WB RAMP                        | 17               | 8                     | 32.00       | 11800 | 0.9        | None          | 1.00                | Yes         |  |
| 54   | 27.90     | WEST<br>HARTFORD | PROSPECT AVE/CAYA AVE                     | I-84 EB RAMPS                         | 28               | 10                    | 31.00       | 10500 | 0.9        | None          | 1.00                | Yes         |  |

| Rank | CVR Score | Municipality     | Major Road                       | Minor Road              | Total<br>Crashes | Total KABC<br>Crashes | Crash Score | ADT   | ADT Factor | ROW Issues    | Geometric<br>Factor | Recommended | Comment              |
|------|-----------|------------------|----------------------------------|-------------------------|------------------|-----------------------|-------------|-------|------------|---------------|---------------------|-------------|----------------------|
| 55   | 27.82     | HARTFORD         | FRANKLIN AVE                     | SOUTH ST                | 22               | 9                     | 29.00       | 8600  | 1          | Significant   | 0.96                | No          | ROW                  |
| 56   | 26.75     | HARTFORD         | PULASKI CIR (CT 598)/WELLS<br>ST | HUDSON ST               | 47               | 9                     | 35.67       | 13800 | 0.75       | Insignificant | 1.00                | Yes         |                      |
| 57   | 26.27     | HARTFORD         | CHURCH ST                        | SPRUCE ST               | 55               | 10                    | 40.00       | 6400  | 1          | Insignificant | 0.66                | No          | Crash data incorrect |
| 58   | 26.24     | WEST<br>HARTFORD | TROUT BROOK DR                   | ASYLUM AVE              | 31               | 10                    | 221.33      | 16300 | 0.25       | Moderate      | 0.47                | Yes         |                      |
| 59   | 26.24     | HARTFORD         | SIGOURNEY ST                     | HAWTHORN ST             | 23               | 7                     | 30.67       | 11900 | 0.9        | Insignificant | 0.95                | Yes         |                      |
| 60   | 25.80     | HARTFORD         | WESTBOURNE PKWY                  | BLUE HILLS AVE (CT 187) | 30               | 7                     | 30.00       | 11300 | 0.9        | Insignificant | 0.96                | Yes         |                      |
| 61   | 25.57     | ENFIELD          | SHAKER RD (CT 220/CT 402)        | TAYLOR RD (CT 220)      | 23               | 11                    | 34.33       | 11400 | 0.9        | None          | 0.83                | Yes         |                      |
| 62   | 25.38     | NEW BRITAIN      | MARTIN LUTHER KING DR (CT 71)    | WINTER ST               | 24               | 14                    | 41.33       | 13200 | 0.75       | Insignificant | 0.82                | Yes         |                      |
| 63   | 25.34     | HARTFORD         | WETHERSFIELD AVE                 | ELLIOTT ST              | 21               | 8                     | 35.00       | 12000 | 0.9        | Moderate      | 0.80                | Yes         |                      |
| 64   | 25.00     | FARMINGTON       | SOUTH RD/COLT HIGHWAY (CT 531)   | TWO MILE RD             | 30               | 6                     | 25.00       | 10000 | 1          | None          | 1.00                | Yes         |                      |
| 65   | 24.70     | HARTFORD         | I-84 EB OFF/WB ON                | SPRUCE ST               | 39               | 11                    | 44.33       | 12200 | 0.75       | Insignificant | 0.74                | No          | Signal System        |
| 66   | 24.60     | HARTFORD         | WHITE ST                         | HARVARD ST              | 22               | 10                    | 27.33       | 10600 | 0.9        | Insignificant | 1.00                | Yes         |                      |
| 67   | 24.46     | HARTFORD         | PARK ST                          | PARK TERR               | 67               | 27                    | 92.00       | 13600 | 0.75       | Moderate      | 0.35                | Yes         |                      |
| 68   | 24.29     | WEST<br>HARTFORD | BOULEVARD                        | FOUR MILE RD            | 22               | 13                    | 43.67       | 6100  | 1          | Moderate      | 0.56                | No          | ROW                  |
| 69   | 24.02     | SOUTHINGTON      | WEST ST (CT 229)                 | WEST QUEEN ST           | 43               | 13                    | 243.33      | 21100 | 0.1        | Insignificant | 0.99                | No          | Grade, Volumes       |
| 70   | 23.88     | HARTFORD         | ASYLUM AVE                       | WOODLAND ST             | 49               | 16                    | 61.00       | 14300 | 0.5        | Moderate      | 0.78                | Yes         |                      |

| Rank | CVR Score | Municipality     | Major Road   | Minor Road                    | Total<br>Crashes | Total KABC<br>Crashes | Crash Score | ADT   | ADT Factor | ROW Issues    | Geometric<br>Factor | Recommended | Comment                |
|------|-----------|------------------|--|-------------------------------|------------------|-----------------------|-------------|-------|------------|---------------|---------------------|-------------|------------------------|
| 71   | 23.25     | SOUTHINGTON      | WATERBURY TURNPIKE (CT 322)                        | I-691 WB RAMPS                | 23               | 9                     | 31.00       | 12100 | 0.75       | None          | 1.00                | Yes         |                        |
| 72   | 23.20     | BLOOMFIELD       | MOUNTAIN AVE (CT 178)                              | MAPLE AVE/BROWN ST            | 21               | 8                     | 30.00       | 10400 | 0.9        | Insignificant | 0.86                | Yes         |                        |
| 73   | 23.17     | NEW BRITAIN      | WHITING ST   | WEBSTER ST (ACTUALLY GLEN ST) | 11               | 6                     | 26.67       | 4100  | 1          | Significant   | 0.87                | No          | ROW                    |
| 74   | 23.14     | HARTFORD         | CHAPEL ST SOUTH                                    | ANN UCCELLO ST # 1            | 47               | 6                     | 29.00       | 7000  | 1          | Significant   | 0.80                | No          | I-84 Overpass          |
| 75   | 23.11     | HARTFORD         | FAIRFIELD AVE #1                                   | ZION ST #2                    | 36               | 11                    | 35.33       | 12900 | 0.75       | Insignificant | 0.87                | Yes         |                        |
| 76   | 23.04     | VERNON           | UNION ST (CT 83/CT 74)                             | WEST ST (CT 74/CT 83)         | 55               | 7                     | 36.67       | 10100 | 0.9        | Moderate      | 0.70                | Yes         |                        |
| 77   | 23.00     | HARTFORD         | CAPITOL AVE  | WASHINGTON ST/TRINITY ST      | 23               | 8                     | 30.67       | 12100 | 0.75       | None          | 1.00                | Yes         |                        |
| 78   | 22.98     | MANCHESTER       | MIDDLE TURNPIKE<br>WEST/MIDDLE TURNPIKE EAST<br>#1 | MAIN ST (CT 83)               | 44               | 14                    | 54.33       | 13300 | 0.75       | Significant   | 0.56                | No          | ROW                    |
| 79   | 22.25     | NEW BRITAIN      | CHESTNUT ST/ ELM ST (CT 71)                        | HARRY TRUMAN OP               | 24               | 9                     | 29.67       | 12700 | 0.75       | None          | 1.00                | Yes         |                        |
| 80   | 22.20     | MANSFIELD        | STORRS RD (CT 195)                                 | NORTH FRONTAGE RD (CT 632)    | 19               | 7                     | 24.67       | 10900 | 0.9        | None          | 1.00                | Yes         |                        |
| 81   | 21.83     | SOUTHINGTON      | WATERBURY TURNPIKE (CT<br>322)/RUGGLES ROW         | I-84 EB RAMPS                 | 31               | 13                    | 43.67       | 14700 | 0.5        | None          | 1.00                | Yes         |                        |
| 82   | 21.75     | ENFIELD          | KING ST (US 5)                                     | I-91 NB RAMPS                 | 17               | 10                    | 29.00       | 12900 | 0.75       | Insignificant | 1.00                | Yes         |                        |
| 83   | 21.69     | HARTFORD         | ALBANY AVE (US 44)                                 | BALTIMORE ST                  | 18               | 7                     | 26.00       | 11200 | 0.9        | Significant   | 0.93                | No          | ROW, Recent<br>Project |
| 84   | 21.67     | NEW BRITAIN      | MAIN ST #1   | CHESTNUT ST/ARCH ST           | 15               | 7                     | 21.67       | 6600  | 1          | None          | 1.00                | Yes         |                        |
| 85   | 21.67     | WILLINGTON       | RIVER ROAD (CT 32)                                 | TOLLAND TURNPIKE (CT 74)      | 15               | 6                     | 21.67       | 5200  | 1          | None          | 1.00                | No          | Steep Grade            |
| 86   | 21.60     | EAST<br>HARTFORD | MAIN ST # 1  | BROAD ST/MAPLE ST             | 30               | 9                     | 31.67       | 13300 | 0.75       | Insignificant | 0.91                | Yes         |                        |

| Rank | CVR Score | Municipality     | Major Road   | Minor Road                  | Total<br>Crashes | Total KABC<br>Crashes | Crash Score | ADT   | ADT Factor | ROW Issues    | Geometric<br>Factor | Recommended | Comment       |
|------|-----------|------------------|--|-----------------------------|------------------|-----------------------|-------------|-------|------------|---------------|---------------------|-------------|---------------|
| 87   | 21.59     | HARTFORD         | VINE ST  | GREENFIELD ST               | 36               | 17                    | 58.67       | 5600  | 1          | Significant   | 0.37                | Yes         |               |
| 88   | 21.31     | WEST<br>HARTFORD | BOULEVARD  | RAYMOND RD                  | 32               | 14                    | 40.67       | 6100  | 1          | Insignificant | 0.52                | Yes         |               |
| 89   | 21.00     | SOUTHINGTON      | ATWATER ST   | I-84 EB RAMP/MARION AVE     | 24               | 8                     | 28.00       | 12400 | 0.75       | None          | 1.00                | Yes         |               |
| 90   | 20.90     | HARTFORD         | TRUMBULL ST  | CHAPEL ST NORTH             | 25               | 6                     | 25.00       | 7100  | 1          | Insignificant | 0.84                | No          | Signal System |
| 91   | 20.75     | SOUTHINGTON      | MERIDEN WATERBURY<br>TURNPIKE (CT 322)/I-84 WB<br>EXIT | I-84 ENTRANCE RAMP          | 18               | 8                     | 27.67       | 12700 | 0.75       | None          | 1.00                | Yes         |               |
| 92   | 20.70     | CANTON           | US 202   | RIVER RD (CT 179)           | 24               | 8                     | 23.00       | 11600 | 0.9        | None          | 1.00                | Yes         |               |
| 93   | 20.64     | BERLIN           | MILL ST (CT 372)                                       | MIDDLETOWN RD/BERLIN ST     | 22               | 11                    | 29.00       | 13000 | 0.75       | None          | 0.95                | Yes         |               |
| 94   | 20.32     | NEW BRITAIN      | SLATER RD/ALEXANDER DR/<br>FIENEMANN RD                | FARMINGTON AVE              | 28               | 8                     | 35.67       | 12800 | 0.75       | Insignificant | 0.76                | Yes         |               |
| 95   | 19.67     | NEW BRITAIN      | CHESTNUT ST  | CT RTE 9 SB EXIT RAMP       | 9                | 6                     | 19.67       | 4500  | 1          | None          | 1.00                | Yes         |               |
| 96   | 19.57     | EAST<br>HARTFORD | SILVER LANE (CT 502)                                   | FORBES ST                   | 28               | 8                     | 29.33       | 10800 | 0.9        | Insignificant | 0.74                | Yes         |               |
| 97   | 19.54     | HARTFORD         | PROSPECT AVE   | WARRENTON AVE               | 32               | 11                    | 35.67       | 7100  | 1          | Significant   | 0.55                | No          | ROW           |
| 98   | 19.50     | WINDSOR          | KENNEDY RD   | ARCHER RD/I-91 NB EXIT RAMP | 15               | 7                     | 21.67       | 10300 | 0.9        | None          | 1.00                | Yes         |               |
| 99   | 19.39     | HARTFORD         | MARKET ST  | PLEASANT ST                 | 33               | 8                     | 32.67       | 12800 | 0.75       | Moderate      | 0.79                | Yes         |               |
| 100  | 18.87     | NEW BRITAIN      | STANLEY ST # 1   | EAST MAIN ST                | 25               | 9                     | 28.33       | 12800 | 0.75       | Moderate      | 0.89                | Yes         |               |

| Rank              | CVR<br>Score | Municipality | Major Road   | Minor Road                                     | Muni<br>Identified<br>List | Total<br>Crashes | Total<br>KABC<br>Crashes | ADT   | Intersection<br>Control Type | ROW<br>Issues | Recommended   | Comments                          |
|-------------------|--------------|--------------|--|--|----------------------------|------------------|--------------------------|-------|------------------------------|---------------|---------------|-----------------------------------|
| Not in<br>Top 300 | 3.30         | ANDOVER      | JONATHAN TRUMBULL<br>HIGHWAY/WILLIMANTIC RD (US 6) | JONATHAN TRUMBULL<br>HIGHWAY (CT 87)           | No                         | 6                | 1                        | 10600 | Signal                       | None          | No            | Lack of Crash History             |
| Not in<br>Top 300 | 6.74         | ANDOVER      | JONATHAN TRUMBULL HIGHWAY (US 6)                   | LAKE RD  | No                         | 7                | 2                        | 10600 | Signal                       | Insignificant | No            | Lack of Crash History             |
| Not in<br>Top 300 | 13.20        | ANDOVER      | JONATHAN TRUMBULL HIGHWAY (US 6)                   | HEBRON RD (CT 136)                             | No                         | 14               | 4                        | 11200 | Signal                       | Moderate      | No            | Lack of Crash History             |
| Not in<br>Top 300 | 4.58         | AVON         | LOVELY ST (CT 177)                                 | WESTMONT RD/COUNTRY<br>CLUB RD                 | No                         | 11               | 4                        | 9400  | Signal                       | Significant   | Yes           |                                   |
| 147               | 13.26        | AVON         | WEST AVON RD (CT 167)                              | COUNTRY CLUB RD                                | No                         | 14               | 6                        | 12400 | Signal                       | Moderate      | Yes           |                                   |
| Not in<br>Top 300 | 5.36         | AVON         | COUNTRY CLUB RD                                    | BURNHAM RD                                     | No                         | 5                | 4                        | 5700  | All-Way Stop                 | Moderate      | Yes           |                                   |
| 4                 | 187.50       | BERLIN       | MILL ST (CT 372)                                   | SAVAGE HILL RD/BECKLEY<br>RD                   | No                         | 12               | 6                        | 10300 | Signal                       | None          | Yes           |                                   |
| 93                | 20.64        | BERLIN       | MILL ST (CT 372)                                   | MIDDLETOWN RD/BERLIN ST                        | No                         | 22               | 11                       | 13000 | Signal                       | None          | Yes           |                                   |
| 33                | 38.50        | BERLIN       | FRONTAGE RD (CT 572)/MILL ST (CT 372)              | WORTHINGTON RIDGE (CT<br>372-SOUTH/572- NORTH) | No                         | 26               | 12                       | 13700 | Signal                       | Moderate      | Yes           |                                   |
| 72                | 23.20        | BLOOMFIELD   | MOUNTAIN AVE (CT 178)                              | MAPLE AVE/BROWN ST                             | No                         | 21               | 8                        | 10400 | Signal                       | Insignificant | Yes           |                                   |
| 45                | 32.33        | BLOOMFIELD   | BLOOMFIELD AVE (CT 189)                            | PARK AVE/MOUNTAIN AVE<br>(CT 178)              | No                         | 27               | 9                        | 9900  | Signal                       | Insignificant | Yes           |                                   |
| 196               | 7.91         | BLOOMFIELD   | WINTONBURY AVE (CT 178)                            | EAST WINTONBURY AVE<br>(CT 178)                | No                         | 33               | 11                       | 15600 | Signal                       | Insignificant | No            | Volumes                           |
| Not in<br>Top 300 | 191.33       | BOLTON       | WEST ST (CT 85)                                    | LYMAN RD                                       | No                         | 1                | 1                        | 4400  | Side Street Stop             | Insignificant | No            | Lack of Crash History             |
| Not in<br>Top 300 | 16.20        | BOLTON       | BOSTON TURNPIKE (US 44)                            | QUARRY RD                                      | No                         | 10               | 3                        | 10200 | Signal                       | Moderate      | Yes           |                                   |
| Not in<br>Top 300 | 5.78         | BOLTON       | BOSTON TURNPIKE (US 44)                            | SOUTH RD                                       | No                         | 13               | 2                        | 9600  | Signal                       | Moderate      | Yes           |                                   |
| Not in<br>Top 300 | 7.49         | CANTON       | RIVER RD (CT 179)                                  | MAPLE AVE                                      | Yes                        | 15               | 5                        | 12700 | <null></null>                | <null></null> | Yes           |                                   |
| 92                | 20.70        | CANTON       | US 202   | RIVER RD (CT 179)                              | No                         | 24               | 8                        | 11600 | Signal                       | None          | Yes           |                                   |
| Not in<br>Top 300 | 9.00         | CANTON       | ALBANY TURNPIKE (US 44)                            | CHERRY BROOK RD (CT<br>179)                    | No                         | 10               | 3                        | 10300 | Signal                       | None          | Yes           |                                   |
| Not in<br>Top 300 | 193.56       | COLUMBIA     | MIDDLETOWN RD (CT 66)                              | HENNEQUIN RD/PINE ST                           | No                         | 12               | 4                        | 7700  | Side Street Stop             | Insignificant | Yes           |                                   |
| Not in<br>Top 300 | 14.67        | COLUMBIA     | MIDDLETOWN RD (CT 66)                              | JONATHAN TRUMBULL<br>HIGHWAY (CT 87)           | No                         | 14               | 5                        | 8800  | Signal                       | None          | Yes           |                                   |
| Not in<br>Top 300 | 21.00        | COLUMBIA     | WILLIMANTIC RD (US 6)                              | WILLIMANTIC RD (CT 66)                         | No                         | 30               | 4                        | 12400 | Signal                       | None          | Yes           |                                   |
| Not in<br>Top 300 | 3.04         | COVENTRY     | SOUTH ST   | SEAGRAVES RD                                   | No                         | 3                | 1                        | 1700  | Side Street Stop             | Insignificant | No            | Lack of Crash History             |
| Not in<br>Top 300 | 12.08        | COVENTRY     | MAIN ST (CT 31)                                    | STONEHOUSE RD/LAKE ST                          | Yes                        | 11               | 5                        | 4900  | <null></null>                | <null></null> | <null></null> | Volumes, Grade, Recent<br>Project |
| 39                | 34.50        | COVENTRY     | BOSTON TURNPIKE (US 44)                            | MAIN ST (CT 31)                                | No                         | 30               | 11                       | 10300 | Signal                       | Insignificant | Yes           |                                   |
| Not in<br>Top 300 | 12.67        | EAST GRANBY  | SOUTH MAIN ST (CT 187)                             | HATCHETT HILL RD                               | No                         | 8                | 4                        | 6500  | Signal                       | None          | Yes           |                                   |
| Not in<br>Top 300 | 0.00         | EAST GRANBY  | RAINBOW RD (CT 20)                                 | BRADLEY PARK RD                                | No                         | 33               | 7                        | 33400 | Signal                       | Insignificant | No            | Volumes                           |
| Not in<br>Top 300 | 15.67        | EAST GRANBY  | NORTH MAIN ST (CT 187)                             | SOUTH STONE RD                                 | Yes                        | 7                | 5                        | 6900  | <null></null>                | <null></null> | Yes           |                                   |

| Rank              | CVR<br>Score | Municipality     | Major Road                                      | Minor Road                           | Muni<br>Identified<br>List | Total<br>Crashes | Total<br>KABC<br>Crashes | ADT   | Intersection<br>Control Type | ROW<br>Issues | Recommended | Comments               |
|-------------------|--------------|------------------|---|--------------------------------------|----------------------------|------------------|--------------------------|-------|------------------------------|---------------|-------------|------------------------|
| 86                | 21.60        | EAST<br>HARTFORD | MAIN ST   | BROAD ST/MAPLE ST                    | No                         | 30               | 9                        | 13300 | Signal                       | Insignificant | Yes         |                        |
| 96                | 19.57        | EAST<br>HARTFORD | SILVER LANE (CT 502)                            | FORBES ST                            | No                         | 28               | 8                        | 10800 | Signal                       | Insignificant | Yes         |                        |
| 183               | 9.23         | EAST<br>HARTFORD | CONNECTICUT BLVD (US 44)                        | SOUTH PROSPECT ST                    | No                         | 12               | 6                        | 11500 | Signal                       | Significant   | No          | ROW                    |
| 276               | 3.90         | EAST WINDSOR     | I-91-S-103                                      | PROSPECT HILL RD (US 5)              | No                         | 57               | 8                        | 20800 | Signal                       | None          | No          | Volumes                |
| 125               | 15.73        | EAST WINDSOR     | BRIDGE ST (CT 140)                              | MAIN ST                              | No                         | 17               | 6                        | 13100 | Signal                       | Moderate      | Yes         |                        |
| Not in<br>Top 300 | 2.28         | EAST WINDSOR     | PROSPECT HILL RD (US 5)                         | NORTH RD (CT 140)                    | No                         | 24               | 7                        | 18600 | Signal                       | Significant   | No          | Volumes                |
| 167               | 11.17        | ELLINGTON        | WEST RD (CT 83)                                 | LOWER BUTCHER RD                     | No                         | 17               | 9                        | 8700  | Signal                       | Moderate      | Yes         |                        |
| Not in<br>Top 300 | 4.53         | ELLINGTON        | PINNEY ST (CT 286)                              | WINDERMERE AVE                       | No                         | 16               | 2                        | 6200  | Signal                       | Moderate      | Yes         |                        |
| Not in<br>Top 300 | 1.47         | ELLINGTON        | CRYSTAL LAKE RD (CT 140)                        | BURBANK RD                           | No                         | 21               | 10                       | 3400  | Side Street Stop             | Moderate      | Yes         |                        |
| 82                | 21.75        | ENFIELD          | KING ST (US 5)                                  | I-91 NB EXIT AND<br>ENTRANCE RAMPS   | No                         | 17               | 10                       | 12900 | Signal                       | Insignificant | Yes         |                        |
| 53                | 28.80        | ENFIELD          | ENFIELD ST (US 5)/FRANKLIN ST (CT 514)          | CT 190 WB RAMP                       | No                         | 17               | 8                        | 11800 | Signal                       | None          | Yes         |                        |
| 61                | 25.57        | ENFIELD          | SHAKER RD (CT 220/CT 402)                       | TAYLOR RD (CT 220)                   | No                         | 23               | 11                       | 11400 | All-Way Stop                 | None          | Yes         |                        |
| 252               | 4.70         | FARMINGTON       | SCOTT SWAMP RD (US 6)                           | PLAINVILLE AVE (CT 177)              | No                         | 51               | 12                       | 22100 | Signal                       | Insignificant | No          | Volumes                |
| 110               | 17.00        | FARMINGTON       | I-84-W-100                                      | FARM SPRINGS RD                      | No                         | 18               | 6                        | 12400 | Signal                       | None          | Yes         |                        |
| 64                | 25.00        | FARMINGTON       | SOUTH RD/COLT HIGHWAY (CT 531)                  | TWO MILE RD                          | No                         | 30               | 6                        | 10000 | All-Way Stop                 | None          | Yes         |                        |
| Not in<br>Top 300 | -13.03       | GLASTONBURY      | HEBRON AVE                                      | HOUSE ST                             | No                         | 22               | 8                        | 6800  | <null></null>                | <null></null> | No          | Already a roundabout   |
| 50                | 30.09        | GLASTONBURY      | GLASTONBURY BLVD/GRISWOLD ST                    | MAIN ST                              | No                         | 63               | 9                        | 13400 | Signal                       | None          | No          | Volumes, Signal System |
| Not in<br>Top 300 | -8.70        | GLASTONBURY      | GRISWOLD ST                                     | HOUSE ST                             | No                         | 17               | 6                        | 14500 | Signal                       | Moderate      | Yes         |                        |
| Not in<br>Top 300 | 12.67        | GRANBY           | BARKHAMSTED RD (CT 219)                         | CASE ST                              | No                         | 4                | 2                        | 7200  | Side Street Stop             | Insignificant | No          | Lack of Crash History  |
| Not in<br>Top 300 | 7.05         | GRANBY           | WEST GRANBY RD (CT 20)                          | BUSHY HILL RD                        | No                         | 9                | 4                        | 9400  | Side Street Stop             | Significant   | No          | Lack of Crash History  |
| Not in Top 300    | 25.33        | GRANBY           | HARTLAND RD (CT 20)                             | DAY ST                               | No                         | 12               | 5                        | 9200  | Side Street Stop             | None          | Yes         |                        |
| 3                 | 187.54       | HARTFORD         | NEW BRITIAN AVE                                 | SUMMIT ST/FAIRFIELD AVE              | No                         | 17               | 6                        | 10600 | Signal                       | Insignificant | Yes         |                        |
| 2                 | 232.65       | HARTFORD         | CHAPEL ST. NORTH/WALNUT ST/I-84<br>EB RAMP      | HIGH ST                              | No                         | 60               | 11                       | 9900  | Signal                       | None          | No          | Signal System          |
| 1                 | 250.20       | HARTFORD         | MAIN ST   | MAHL AVE/PAVILLION ST                | No                         | 31               | 10                       | 13500 | Signal                       | Moderate      | Yes         |                        |
| Not in<br>Top 300 | 18.00        | HEBRON           | MAIN ST (CT 66)                                 | CHURCH ST                            | No                         | 24               | 5                        | 9500  | Signal                       | None          | Yes         |                        |
| Not in<br>Top 300 | 8.48         | HEBRON           | MAIN ST (CT 66)                                 | MILLSTREAM RD                        | No                         | 3                | 3                        | 7700  | Side Street Stop             | Moderate      | No          | Lack of Crash History  |
| Not in<br>Top 300 | 8.33         | HEBRON           | GILEAD ST (CT 85/CT 94)                         | NORTH ST (CT 85)                     | No                         | 5                | 2                        | 3800  | Side Street Stop             | Insignificant | No          | Lack of Crash History  |
| 135               | 14.67        | MANCHESTER       | I-84-W-302                                      | MIDDLE TURNPIKE WEST<br>(US 44/US 6) | No                         | 13               | 10                       | 14200 | Signal                       | None          | Yes         |                        |
| 78                | 22.98        | MANCHESTER       | MIDDLE TURNPIKE WEST/MIDDLE<br>TURNPIKE EAST #1 | MAIN ST (CT 83)                      | No                         | 44               | 14                       | 13300 | Signal                       | Significant   | No          | ROW                    |
| 130               | 15.33        | MANCHESTER       | MIDDLE TURNPIKE EAST # 1                        | SUMMIT ST                            | No                         | 19               | 7                        | 9000  | Signal                       | Significant   | Yes         |                        |
| 80                | 22.20        | MANSFIELD        | STORRS RD (CT 195)                              | NORTH FRONTAGE RD (CT 632)           | Yes                        | 19               | 7                        | 10900 | Signal                       | None          | Yes         |                        |

| Rank              | CVR<br>Score | Municipality     | Major Road                                  | Minor Road                       | Muni<br>Identified<br>List | Total<br>Crashes | Total<br>KABC<br>Crashes | ADT   | Intersection<br>Control Type | ROW<br>Issues | Recommended | Comments               |
|-------------------|--------------|------------------|---|----------------------------------|----------------------------|------------------|--------------------------|-------|------------------------------|---------------|-------------|------------------------|
| 204               | 7.57         | MANSFIELD        | MIDDLE TURNPIKE (US 44)                     | STAFFORD RD (CT 32)              | Yes                        | 18               | 6                        | 6100  | Signal                       | <null></null> | Yes         |                        |
| 41                | 33.60        | MANSFIELD        | MIDDLE TURNPIKE (US 44)                     | STORRS RD (CT 195)               | Yes                        | 37               | 12                       | 10900 | Signal                       | None          | Yes         |                        |
| Not in<br>Top 300 | 13.50        | MARLBOROUGH      | HEBRON RD (CT 66)                           | SOUTH MAIN ST                    | No                         | 29               | 3                        | 13700 | Signal                       | None          | Yes         |                        |
| Not in<br>Top 300 | 8.50         | MARLBOROUGH      | CT 2 EAST EXIT RAMP                         | HEBRON RD (CT 66)                | No                         | 19               | 3                        | 13700 | Side Street Stop             | None          | Yes         |                        |
| Not in<br>Top 300 | 11.00        | MARLBOROUGH      | CT 2-E-30                                   | PORTLAND RD                      | No                         | 3                | 3                        | 4200  | All-Way Stop                 | None          | No          | Lack of Crash History  |
| 29                | 42.05        | NEW BRITAIN      | COLUMBUS BLVD/CT 9 SB<br>ENTRANCE/EXIT RAMP | ELLIS ST                         | No                         | 26               | 11                       | 8600  | Signal                       | Insignificant | Yes         |                        |
| 26                | 46.67        | NEW BRITAIN      | COLUMBUS BLVD                               | CHESTNUT ST                      | No                         | 26               | 11                       | 8100  | Signal                       | Insignificant | Yes         |                        |
| 40                | 34.23        | NEW BRITAIN      | EAST MAIN                                   | MAIN ST                          | No                         | 37               | 17                       | 13100 | Signal                       | None          | No          | Recent Project         |
| 116               | 16.67        | NEWINGTON        | PANE RD                                     | CHURCH ST                        | No                         | 21               | 6                        | 13100 | Signal                       | Insignificant | Yes         |                        |
| 30                | 40.74        | NEWINGTON        | WILLARD AVE (CT 173)                        | ROBBINS AVE                      | No                         | 33               | 17                       | 13500 | Signal                       | Significant   | Yes         |                        |
| 115               | 16.75        | NEWINGTON        | MAIN ST (Ct 176)                            | MARKET SQ                        | No                         | 18               | 6                        | 11800 | Signal                       | Moderate      | Yes         |                        |
| 123               | 16.20        | PLAINVILLE       | WOODFORD AVE (CT 536)                       | LEDGE RD                         | No                         | 14               | 6                        | 11400 | Side Street Stop             | Significant   | No          | Structure, grades      |
| 122               | 16.25        | PLAINVILLE       | CT 72-N                                     | NORTH WASHINGTON ST CT<br>177)   | No                         | 20               | 7                        | 13100 | Signal                       | None          | Yes         |                        |
| 217               | 6.59         | PLAINVILLE       | CT 72-N-28                                  | DAY ST                           | No                         | 62               | 20                       | 20500 | Signal                       | Insignificant | Yes         |                        |
| Not in<br>Top 300 | 21.33        | ROCKY HILL       | MAIN ST (CT 99)                             | GORMAN RD                        | No                         | 10               | 5                        | 8900  | Signal                       | None          | Yes         |                        |
| 211               | 7.00         | ROCKY HILL       | I-91-S-47                                   | WEST ST (CT 411)                 | No                         | 52               | 17                       | 19300 | Signal                       | None          | No          | Volumes, Signal System |
| 237               | 5.27         | ROCKY HILL       | SILAS DEANE HIGHWAY (CT 99)                 | TOWN LINE RD                     | No                         | 48               | 15                       | 23900 | Signal                       | None          | No          | Volumes, Signal System |
| 131               | 15.30        | SIMSBURY         | BUSHY HILL RD (CT 167)                      | STRATTON BROOK RD                | No                         | 16               | 6                        | 11900 | Signal                       | None          | Yes         |                        |
| Not in<br>Top 300 | 6.32         | SIMSBURY         | HOPMEADOW ST (US 202/CT 10)                 | WEST ST (CT 167)                 | No                         | 16               | 4                        | 14100 | Signal                       | None          | Yes         |                        |
| Not in<br>Top 300 | 13.25        | SIMSBURY         | HARTFORD AVE (CT 189)                       | ELM ST (CT 315)/MOUNTAIN<br>RD   | No                         | 18               | 5                        | 12900 | Signal                       | None          | Yes         |                        |
| 112               | 16.95        | SOMERS           | MAIN ST (CT 190)                            | GULF RD                          | No                         | 27               | 9                        | 7900  | Side Street Stop             | Insignificant | Yes         |                        |
| Not in Top 300    | 14.98        | SOMERS           | MAIN ST (CT 190)                            | SOUTH RD (CT 83)                 | No                         | 19               | 5                        | 7400  | Signal                       | Moderate      | Yes         |                        |
| Not in<br>Top 300 | 7.72         | SOMERS           | HALL HILL RD (CT 186)                       | GEORGE WOOD RD                   | No                         | 8                | 4                        | 2100  | Side Street Stop             | Insignificant | Yes         |                        |
| 226               | 6.13         | SOUTH<br>WINDSOR | OAKLAND RD (CT 30)                          | SLATER ST/FOSTER ST              | No                         | 21               | 6                        | 13600 | Signal                       | Significant   | No          | ROW, grades            |
| 249               | 4.80         | SOUTH<br>WINDSOR | SULLIVAN AVE (CT 194)                       | HILLSIDE DR                      | No                         | 15               | 6                        | 12200 | Side Street Stop             | Moderate      | Yes         |                        |
| 156               | 12.33        | SOUTH<br>WINDSOR | JOHN FITCH BLVD (US 5)                      | SULLIVAN AVE (CT 194)            | No                         | 39               | 14                       | 16700 | Signal                       | None          | No          | Volumes                |
| 71                | 23.25        | SOUTHINGTON      | WATERBURY TURNPIKE (CT 322)                 | I-691 WB RAMPS                   | No                         | 23               | 9                        | 12100 | Signal                       | None          | Yes         |                        |
| 13                | 67.43        | SOUTHINGTON      | MERIDAN-WATERBURY TURNPIKE<br>(CT 322)      | CLARK ST (CT 509)                | No                         | 15               | 7                        | 11700 | Signal                       | Moderate      | Yes         |                        |
| 69                | 24.02        | SOUTHINGTON      | WEST ST (CT 229)                            | WEST QUEEN ST                    | No                         | 43               | 13                       | 21100 | Signal                       | Insignificant | No          | Volumes, Grades        |
| Not in<br>Top 300 | 2.89         | STAFFORD         | CRYSTAL LAKE RD (CT 30)                     | CONKLIN RD                       | No                         | 4                | 1                        | 3800  | Side Street Stop             | Significant   | No          | Lack of Crash History  |
| Not in<br>Top 300 | 8.54         | STAFFORD         | CRYSTAL LAKE RD (CT 30)                     | CONKLIN RD                       | No                         | 6                | 2                        | 3800  | Signal                       | None          | No          | Lack of Crash History  |
| Not in<br>Top 300 | 1.60         | STAFFORD         | MONSON RD (CT 32)                           | ORCUTTVILLE RD (CT 319)          | No                         | 6                | 1                        | 3300  | Signal                       | Insignificant | No          | Lack of Crash History  |
| Not in<br>Top 300 | 18.33        | SUFFIELD         | MOUNTAIN RD (CT 168)                        | SOUTH STONE ST/NORTH<br>STONE ST | Yes                        | 10               | 5                        | 6400  | Side Street Stop             | None          | Yes         |                        |

| Rank              | CVR<br>Score | Municipality     | Major Road                  | Minor Road                            | Muni<br>Identified<br>List | Total<br>Crashes | Total<br>KABC<br>Crashes | ADT   | Intersection<br>Control Type | ROW<br>Issues | Recommended | Comments                       |
|-------------------|--------------|------------------|-----------------------------|---------------------------------------|----------------------------|------------------|--------------------------|-------|------------------------------|---------------|-------------|--------------------------------|
| 134               | 14.72        | SUFFIELD         | EAST ST NORTH (CT 159)      | THOMPSONVILLE RD (CT<br>190)          | No                         | 25               | 9                        | 10000 | Signal                       | Insignificant | Yes         |                                |
| Not in<br>Top 300 | 17.00        | SUFFIELD         | NORTH ST (CT 75)            | HALLADAY AVE EAST                     | No                         | 11               | 5                        | 6000  | Side Street Stop             | None          | Yes         |                                |
| Not in<br>Top 300 | 9.00         | TOLLAND          | I-84 RAMP TERMINAL          | MERROW RD (CT 195)                    | No                         | 24               | 4                        | 14500 | Signal                       | None          | Yes         |                                |
| Not in<br>Top 300 | 14.67        | TOLLAND          | I-84-E-272                  | TOLLAND STAGE RD (CT 74)              | No                         | 19               | 3                        | 5700  | Side Street Stop             | None          | Yes         |                                |
| Not in<br>Top 300 | 14.87        | TOLLAND          | CRYSTAL LAKE RD (CT 30)     | HUNTER RD                             | No                         | 16               | 5                        | 4100  | Side Street Stop             | Insignificant | Yes         |                                |
| 47                | 31.00        | VERNON           | TALCOTTVILLE RD (CT 183)    | HARTFORD<br>TURNPIKE/KELLY RD (CT 30) | No                         | 49               | 11                       | 12700 | Signal                       | None          | Yes         |                                |
| 32                | 39.45        | VERNON           | HARTFORD TURNPIKE (CT 30)   | BOLTON RD/CENTER RD                   | No                         | 48               | 12                       | 11300 | Signal                       | Moderate      | Yes         |                                |
| 21                | 51.91        | VERNON           | HARTFORD TURNPIKE (CT 30)   | RESERVIOIR RD/GROVE ST<br>(CT 31)     | No                         | 67               | 17                       | 11200 | Signal                       | Insignificant | Yes         |                                |
| 34                | 37.99        | WEST<br>HARTFORD | NEW PARK AVE                | FLATBUSH AVE                          | No                         | 70               | 22                       | 14600 | Signal                       | Significant   | No          | Volumes                        |
| 54                | 27.90        | WEST<br>HARTFORD | PROSPECT AVE/CAYA AVE       | I-84 EB RAMPS                         | No                         | 28               | 10                       | 10500 | Signal                       | None          | Yes         |                                |
| 37                | 35.40        | WEST<br>HARTFORD | PROSPECT AVE                | KANE ST                               | Yes                        | 33               | 11                       | 10500 | Signal                       | None          | Yes         |                                |
| 296               | 3.40         | WETHERSFIELD     | SILAS DEANE HIGHWAY (CT 99) | EXECUTIVE SQ                          | No                         | 28               | 7                        | 23900 | Signal                       | Insignificant | No          | Volumes                        |
| 272               | 4.00         | WETHERSFIELD     | SILAS DEANE HIGHWAY (CT 99) | MAPLE ST                              | No                         | 70               | 7                        | 21700 | Signal                       | None          | No          | Volumes, Signal System         |
| 267               | 4.13         | WETHERSFIELD     | SILAS DEANE HIGHWAY (CT 99) | WELLS RD                              | No                         | 44               | 12                       | 20600 | Signal                       | None          | No          | Volumes, Signal System         |
| Not in<br>Top 300 | 3.88         | WILLINGTON       | TOLLAND TURNPIKE (CT 74)    | MOOSE MEADOW RD                       | No                         | 4                | 1                        | 4100  | Side Street Stop             | Insignificant | No          | Lack of Crash History          |
| 85                | 21.67        | WILLINGTON       | RIVER ROAD (CT 32)          | TOLLAND TURNPIKE (CT 74)              | No                         | 15               | 6                        | 5200  | Signal                       | None          | No          | Grade                          |
| Not in<br>Top 300 | 7.33         | WILLINGTON       | RIVER RD (CT 32)            | VILLAGE HILL RD                       | No                         | 2                | 2                        | 5700  | Side Street Stop             | Insignificant | No          | Lack of Crash History          |
| 42                | 32.70        | WINDSOR          | WINDSOR AVE (CT 159)        | ROOD AVE                              | No                         | 25               | 10                       | 10600 | Signal                       | Insignificant | No          | Cost, Geometry                 |
| 133               | 15.00        | WINDSOR          | I-91-S-209                  | PARK AVE (CT 178)                     | No                         | 20               | 6                        | 13700 | Signal                       | None          | Yes         |                                |
| 98                | 19.50        | WINDSOR          | KENNEDY RD                  | ARCHER RD/I-91 NB EXIT<br>RAMP        | No                         | 15               | 7                        | 10300 | Signal                       | None          | Yes         |                                |
| Not in<br>Top 300 | 8.33         | WINDSOR<br>LOCKS | SOUTH MAIN ST (CT 159)      | LAWNACRE RD                           | No                         | 10               | 2                        | 8000  | Signal                       | None          | No          | Cost, Lack of Crash<br>History |
| Not in<br>Top 300 | 51.18        | WINDSOR<br>LOCKS | OLD COUNTY RD               | HALFWAY HOUSE RD                      | No                         | 20               | 4                        | 10300 | All-Way Stop                 | Moderate      | Yes         |                                |
| Not in<br>Top 300 | 8.62         | WINDSOR<br>LOCKS | SOUTH MAIN ST (CT 159)      | MAIN ST (CT 159/CT 140)               | No                         | 14               | 5                        | 11400 | Signal                       | Moderate      | Yes         |                                |

|                   |                   |              |                                   |   |   |                         |                 |             | Potential       |               |                |        |                  | Mini                   |                       |             |  |
|-------------------|-------------------|--------------|-----------------------------------|---|---|-------------------------|-----------------|-------------|-----------------|---------------|----------------|--------|------------------|------------------------|-----------------------|-------------|--|
| Rank              | CVR<br>Score      | Municipality | Major Road                        | Minor Road                                | Municipal Comments  | Intersection<br>Control | Grade<br>Issues | Skew        |                 | ROW Issues    | Utility Issues | Viable | Hybrid<br>Needed | Roundabout<br>Possible | Road Diet<br>Required | Recommended | Notes Operational Issues   |
| Not in Top<br>300 | Not in<br>Top 300 | Andover      | HEBRON RD (CT<br>316)             | SCHOOL ROAD                               |   | Side Street<br>Stop     | No              | No          | Wetlands        | Significant   | Minor          | Yes    | No               | Yes                    | No                    | No          | Only 1 crash (type C injury). Crash data does not warrant roundabout installation. Mini roundabout might be viable if desired for speed or operational concerns.   |
| Not in Top<br>300 | Not in<br>Top 300 |              |                                   |   |   |                         |                 |             |                 |               |                |        |                  |                        |                       |             | Crash and volume data not available (roads may not be collectors?) but does not appear to be high volume or high crash location. Mini roundabout could probably fit but  |
|                   | 10000             | Andover      | LAKE ROAD                         | LAKESIDE DR                               | for a micro roundabout  | All-Way Stop            | No              | Minor       |                 | Insignificant | Minor          | No     | No               | Yes                    | No                    | No          | installation would likely be based more on operational issues than safety issues.  Y-shaped all-way stop with two residential driveways within intersection.   |
| Not in Top<br>300 | Not in<br>Top 300 | Canton       | MAPLE<br>AVE/BRIDGE ST            | RIVER RD (CT 179)                         | High incident area due to numerous complaints requesting intersection improvements. Evaluated by local study committee for possible inclusion for roundabout. Town Plan of Development recommends development of roundabout based on public concerns. | Side Street<br>Stop     | No              | Minor       | Wetlands        | Significant   | Minor          | Maybe  | No               | Maybe                  | No                    | Yes         | 0 KA, 5 KABC (one injury short of meeting KABC filter, therefore not ranked), 15 crashes overall. Size of roundabout would be limited by available ROW, trail, and parking on east side. ROW will be required from car dealership, possibly also from residential property across from River Road - will still be tight fit. Residential driveway within the intersection and on either side may be limited by splitter islands.   |
| Not in Top<br>300 | Not in<br>Top 300 | Canton       | ALBANY<br>TURNPIKE (US<br>44)     | DOWD AVE (CT<br>565)/CANTON SPRINGS<br>RD | High incident area, with much traffic. Numerous complaints from residents to improve interconnections of these roadways. Specific concerns raised on Canton Springs Road and stacking of vehicles from 44 to west.                                    | Signal                  | No              | Minor       | Historic        | Significant   | Minor          | No     | Likely           | Maybe                  | No                    | No          | Between the three intersections, total of 69 crashes overall, 1 KA (A), 12 KABC. Volumes on Rte 44 (28,100 ADT) too high for a single lane roundabout, would require multi-lane roundabout which can be considered but not as part of this study. Mini roundabout at Dowd/Canton Green intersection could be viable with minimal or no ROW (18 crashes, 5 KABC at that intersection alone). Consider making Canton Springs one-way away Rte 44?  Triangle area with three close intersections - 3 legged signa that intersection alone). Consider making Canton Springs one-way away Rte 44? |
| Not in Top<br>300 | Not in<br>Top 300 | Canton       | ALBANY<br>TURNPIKE (US<br>44)     | US 202                                    | This intersection previously evaluated by Will Britnell while at DOT. We have one of his concept sketches we'd like to submit.  | Signal                  | Minor           | Significant |                 | None          | No             | Yes    | No               |                        | No                    | Yes         | 1 KA(A), only 4 KABC therefore not ranked, 9 crashes overall. Low crash numbers, but 4 of the 9 crashes involved injuries (including 1 type A) indicating severity and serious crash potential, likely due to high speeds. Max ADT volume of 17,900 may not be accurate based on the intersection configuration.   |
| Not in Top<br>300 | Not in<br>Top 300 | Canton       | MAPLE<br>AVE/DOWD AVE<br>(CT 565) | SIMONDS AVE/OLD<br>CANTON RD              | This intersection is a main connection between school complexes, recreational complexes, and serves as a connection between the two economic centers. It requires numerous crossing vehicle movements in a small area.                                | Side Street<br>Stop     | No              | Minor       | Wetlands        | Insignificant | Minor          | Yes    | No               | No                     | No                    | No          | Actually two intersections - T intersection on Rte 179 with si Only 4 crashes overall, 0 KA, 2 KABC. Location(s) would likely function better and be less confusing as a 5 legged roundabout stop control on three legs but not on the leg coming from Rt but crash data does not warrant installation.  Actually two intersections - T intersection on Rte 179 with site stop control, and adjacent four legged intersection with stop control on three legs but not on the leg coming from Rt but crash data does not warrant installation.  |
| Not in Top<br>300 | Not in<br>Top 300 | Canton       | LAWTON RD                         | WASHBURN RD                               | High incident area, with many complaints for traffic violations. Highest ADTs. Numerous requests from public to improve intersection.   | All-Way Stop            | Minor           | Significant |                 | Insignificant | Minor          | No     | No               | Yes                    | No                    | No          | 3 crashes overall, 0 KA, 1 KABC. Difficult topo on west side. Crashes do not warrant installation. Mini roundabout could be considered if desired for operational concerns.  |
| Not in Top<br>300 | Not in<br>Top 300 | Coventry     | MAIN ST (CT 31)                   | RIPLEY HILL RD                            | This intersection receives a high volume of traffic in the AM and PM peaks of the HS and Middle School complex. There is a pedestrian component to this area.   | Side Street<br>Stop     | Minor           | No          |                 | Insignificant | Minor          | Yes    | No               | Yes                    | No                    | No          | Only 3 crashes overall, 0 KA, 1 KABC (therefore not ranked). Crash data does not warrant roundabout installation. If desired for operational reasons, ROW is available in NE quadrant.  unsignalized intersection with a marked crosswalk for school on NE quadrant.   |
| Not in Top<br>300 | Not in<br>Top 300 | Coventry     | MAIN ST (CT 31)                   | STONEHOUSE RD (CT<br>275)/LAKE ST         | High volume intersection with a yellow flashing on Main Street approach and red flashing on Lake & Stonehouse. Main Street has a steep gradient for the SB approach. CDOT just redid the Main STreet corridor from Stonehouse to Mason Street (east)  | Side Street<br>Stop     | Significant     | Minor       | Historic        | Significant   | Minor          | No     | No               | No                     |                       | No          | 11 crashes overall, 0 KA, only 5 KABC (therefore not ranked, was #243 before KABC filter). Grade, topo, and close building on SW corner limit ability to construct roundabout without significant ROW acquisitions. If building could be acquired, roundabout could be viable, but building may have historic considerations.  |
| Not in Top<br>300 | Not in<br>Top 300 | Enfield      | POST OFFICE RD                    | RAFFIA RD/SIMON RD                        |   | Signal                  | No              | Significant | Hazardous Waste | Significant   | Significant    | Maybe  | No               |                        | No                    | No          | O KA, only 2 KABC (therefore not ranked), 5 crashes overall.  Due to severe skew, would likely have to use a peanut shape roundabout, which would require ROW, but land required is currently vacant. Crash data does not warrant roundabout.  NE quadrant.  |
| Not in Top        | Not in<br>Top 300 | Farmington   | FARMINGTON<br>AVE (CT 4)          | OLD MOUNTAIN<br>RD/TALCOTT NOTCH          | This came out from the CRCOG Route 4 Uconn study  | Signal                  | No              | Minor       |                 | None          | Minor          | Yes    | Likely           |                        | Yes                   | Yes         | 0 KA, 8 KABC, 28 overall. Hybrid design required but space available. Oval shape probably best fit. Ranked #503 but geometric score seems incorrect, therefore rank should be higher.  five legged signal  |
| Not in Top<br>300 | Not in<br>Top 300 | Hartford     | , ,                               | BLOOMFIELD AVE (CT<br>189)                | List from City  | Signal                  | Minor           | Minor       |                 | Insignificant | Minor          | Yes    | Likely           | No                     | No                    | No          | 20 Crashes, 0 KA, 4 KABC therefore not ranked. Crash data does not warrant installation. Viable as a hybrid design in lieu of signal replacement.  |
| Not in Top        | Not in<br>Top 300 | Hartford     | ALBANY AVE (US                    | MAIN ST/ELY ST                            | List from City  | Signal                  | No              | Minor       |                 | None          | Minor          | Yes    | Likely           |                        | No                    | Yes         | 42 crashes, 0 KA, 10 KABC. Very high crash and injury location. Awkward geometry. Intersection is currently part of signal system, would need to evaluate effect on adjacent intersections. Oval shape for best fit.  5 legged signalized intersection (one leg is one-way away from intersection). high pedestrian volumes.   |
| Not in Top        | Not in<br>Top 300 |              | REV R A MOODY<br>OVERPASS         | WESTON ST                                 | List from City  | Signal                  | No              | No          |                 | Insignificant | Minor          | Yes    | Likely           |                        | Yes                   | No          | 3 Crashes all PDO. Data does not warrant installation.   |
|                   | Not in<br>Top 300 |              | LEIBERT RD                        | JENNINGS RD                               | List from City  | Signal                  | Minor           | No          |                 | None          | Minor          | Yes    | Maybe            |                        | No                    | No          | 2 crashes, both PDO. Viable location but crash data does not warrant installation.   |

| Rank              | CVR<br>Score      | Municipality | Major Road                            | Minor Road                      | Municipal Comments   | Intersection<br>Control | Grade<br>Issues | Skew        | Potential<br>Environmental<br>Issues | ROW Issues    | Utility Issues |       | Hybrid<br>Needed | Mini<br>Roundabout<br>Possible | Road Diet<br>Required | Recommended | Notes   | Operational Issues  |
|-------------------|-------------------|--------------|---------------------------------------|---------------------------------|--|-------------------------|-----------------|-------------|--------------------------------------|---------------|----------------|-------|------------------|--------------------------------|-----------------------|-------------|---|---|
| Not in Top        | Not in<br>Top 300 | Hartford     | BOCE BARLOW<br>WAY                    | WINDSOR ST                      | List from City   | Signal                  | Minor           | No          |                                      | Insignificant | Minor          | Yes   | Likely           |                                | No                    | Yes         | Ranked #360. 29 Crashes, 1 KA (A), 13 KABC. High crash and injury location. Hybrid design likely needed, space available.   |   |
| 214               | 6.92              | Hartford     | MAIN ST                               | WINDSOR ST                      | List from City   | Signal                  | No              | Minor       |                                      | Insignificant | Minor          | Yes   | Likely           |                                | No                    | Yes         | Ranked #214. 23 Crashes, 0 KA, 10 KABC. High crash and injury location. Hybrid design likely required, space limited but may be available on west side.   |   |
| 56                | 26.75             | Hartford     | PULASKI CIRCLE                        |                                 | list from City   |                         |                 |             |                                      |               |                |       |                  |                                |                       | Yes         | Reviewed as ranked site #56.  |   |
| 77                | 23.00             | Hartford     | CAPITOL AVE                           | WASHINGTON<br>ST/TRINITY ST     | List from City   |                         |                 |             |                                      |               |                |       |                  |                                |                       | Yes         | Reviewed as ranked site #77   |   |
| 136               | 14.49             | Hartford     | MAPLE AVE                             | KING ST/WEBSTER ST              | Possible Peanut?   | Signal                  | No              | Significant | Hazardous Waste                      | Moderate      | No             | Maybe | Maybe            |                                | No                    | Yes         | Barry Square. Ranked #136. 15 Crashes, 0 KA, 6 KABC, which does not include more crashes and injuries at Bond Street. Peanut roundabout can control all 6 legs, reduce some confusion and awkward movements. Very tight ROW on south end, will likely need ROW, will be close to buildings.   | 6 legged signalized intersection, including Maple/Bond intersection, currently not signalized.  |
| Not in Top<br>300 | Not in<br>Top 300 | Hartford     | MAIN ST/MAPLE<br>AVE                  | JEFFERSON<br>ST/WYLLYS ST       | List from City   | Signal                  | No              | Significant |                                      | Moderate      | Minor          | Yes   | Likely           | No                             | No                    | Yes         | 61 crashes, 0 KA, 11 KABC. Peanut shaped roundabout needed, hybrid design. ROW very tight. roundabout would address awkward and conflicting movements.  | Skewed signalized 5 legged intersection (one leg is one-way away). Awkward through and left turn movements.   |
| Not in Top        | Not in<br>Top 300 | Hartford     | MAPLE AVE                             | RETREAT AVE                     | List from City   | Signal                  | No              | Significant |                                      | Moderate      | Minor          | Maybe | Maybe            |                                | Yes                   | Yes         | (data not available due to recent reconstruction, street lines do not intersect) Further investigation warranted.   |   |
| 137               | 14.40             | Hartford     | MAPLE AVE                             | BROAD ST/WHITE<br>ST/DOUGLAS ST | List from City   | Signal                  | No              | Significant | Hazardous Waste                      | Moderate      | No             | Maybe | Maybe            | No                             | No                    | Yes         | Three ranked intersections among these 4 - #137 (Maple at Douglas) with 13 crashes, 0 KA, 7 KABC, #234 (Broad at White) with 13 crashes, 0 KA, 7 KABC, and #526 (Broad at Maple) with 15 crashes, 2 KA (A), 6 KABC. There is some overlap between these crashes, but not much. One roundabou to replace all these intersections would be viable by placing where the triangular island is currently, but may be difficult to find a way to intersect White and Broad outside of the roundabout (without taking significant ROW). Would need a detailed traffic analysis to confirm operational performance. | Currently 4 intersections in a triangle shape. one signal, one all-<br>way stop, one side street stop, one leg (Douglas) is one-way<br>away from Maple. Shallow left turn movements from Maple<br>onto Broad and from White onto Maple. |
| 103               | 18.30             | Hartford     | MAPLE AVE                             | FREEMAN ST                      | List from City   | Signal                  | No              | Minor       |                                      | None          | No             | Yes   | No               |                                | No                    | Yes         | be 1.0 with shifted score, making ranking higher. Fits within existing intersection, addresses offset alignments, eliminates awkward movements.   | Offset signalized intersection, awkward through movements to/from side streets, left turns from Maple onto side streets interfere with each other.  |
| 48                | 30.60             | Hartford     | MAPLE AVE                             | FAIRFIELD                       | List from City   |                         |                 |             |                                      |               |                |       |                  |                                |                       | No          | Reviewed as ranked site #48   |   |
| Not in Top<br>300 | Not in<br>Top 300 | Hartford     | MAPLE AVE                             | FRANKLIN AVE                    | List from City   | Signal                  | No              | Significant | Historic                             | Insignificant | No             | Yes   | Maybe            |                                | No                    | Yes         | 10 crashes, 1 KA (A), 5 KABC (1 short of 6 KABC filter therefore not ranked - low rank before filter due to geometry score which should be close to 1.0 with shifted circle). Half of crashes involved injuries. Small park on SE quadrant might be slightly impacted, depending on size of roundabout.   | Skewed signal, shallow SB left turn movement.   |
| Not in Top        | Not in<br>Top 300 |              | COLUMBUS BLVE                         |                                 | List from City   | Signal                  | Minor           | No          | Tilstolic                            | Insignificant | No             |       | Likely           | No                             | No                    | Yes         | 36 crashes, 0 KA, 5 KABC. Hybrid design likely required, space<br>may be limited and/or retaining wall may be needed on NE<br>quadrant adjacent to on-ramp.   |   |
|                   |                   | Hartiora     | OCCUMBGG BEVE                         | CHEEDON                         | List from Oity   | Olgital                 | WIIIIO          | 140         |                                      | moigninount   | 140            | Maybo | Lincoly          | 140                            | 110                   | 100         |   | o logged digital, our log to on rump to writtenedd riighwdy.  |
| Not in Top<br>300 | Not in<br>Top 300 | Hartford     | AIRPORT RD                            | BRAINARD RD                     | List from City   | Signal                  | Minor           | No          |                                      | None          | Minor          | Yes   | Likely           | No                             | No                    | No          | 38 crashes, 0 KA, 7 KABC. Volumes too high for single lane roundabout. A hybrid or multi-lane roundabout would likely work well here but a detailed traffic analysis would be needed.   | EB right turn bypass for heavy volume movement. Three legs plus driveway.   |
| Not in Top<br>300 | Not in<br>Top 300 | Hartford     | BRAINARD RD                           | MURPHY RD                       | List from City   | Signal                  | No              | No          | Hazardous Waste                      | None          | Minor          | Yes   | Likely           | No                             | No                    | No          | 22 crashes, 0 KA, 5 KABC. Volumes too high for a single lane roundabout. Multi-lane or hybrid design could work, although detailed traffic analysis would be needed. Roundabout could help with potential for wrong-way movements onto Route 15 expressway. Previous issue of U-turns from off-ramp should be addressed with new Charter Oak Bridge ramps. Roundabout would've made these U-turns easier (could be considered a proor a con - probably a moot point now).   |   |
|                   |                   | riardora     |                                       | MOTO TO THE                     | LIST HOLL OILY   | Olgital                 | 110             | 140         | Tidzai dodo Waste                    | 140110        | Willion        | 100   | Linoly           | 140                            | 110                   | 110         | Ranked site #179. 38 Crashes, 0 KA, 12 KABC. Skewed   |   |
| 179               | 9.83              | Hartford     | NEW BRITAIN<br>AVE                    | NEWINGTON AVE                   | List from City   | Signal                  | Minor           | Significant |                                      | Moderate      | Minor          | Yes   | Maybe            |                                | Yes                   | Yes         | geometry suggests peanut shaped roundabout. ROW tight on NW and SE quadrants.   | Skew creates long left turn movements from New Britain Ave in both directions.  |
| 66                | 24.60             | Hartford     | NEW BRITAIN<br>AVE                    | WHITE/CHANDLER                  | List from City   | Signal                  | Minor           | Significant |                                      | None          | Minor          | Yes   | Maybe            |                                | No                    | Yes         | Two ranked intersections - #66 and #250, although they overlap. Ranks will be higher with shifted circles. Roundabout would address unusual geometry and awkward, unsafe movements.   | Three intersections in a triangular shape. Shallow angle of intersection between New Britain and White leads to awkward left turn from White onto NBA.  |
| 37                | 35.40             | Hartford     | PROSPECT AVE                          | KANE ST                         | List from City   |                         |                 |             |                                      |               |                |       |                  |                                |                       | Yes         | Reviewed as ranked site #37   |   |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | SPENCER ST/W<br>CENTER ST (CT<br>502) | OLCOTT ST/HARTFORD<br>RD        | In lieu of signal replacement. Roundabout can fit within existing paved area/ROW. Landfill on Olcott St receives construction debris via heavy vehicles. The Town has asked DOT repeatedly to review this. 3 yrs+ of crash data now avail since road diet. | Signal                  | No              | No          |                                      | None          | No             | Yes   | Maybe            |                                | No                    | No          | Only 4 KABC (therefore not ranked), 0KA, 16 overall. Very viable location for a roundabout, fits within existing intersection but not warranted by current crash history.   |   |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | N MAIN ST (CT<br>83)                  | N SCHOOL RD/MAIN ST             | Rail trail gap to be filled crossing south leg. Shared-use path connection northerly to school/park would benefit from safer crossing at intersection. In lieu of signal replacement.  | Signal                  | No              | No          |                                      | Insignificant | Minor          | Yes   | Likely           | No                             | Yes                   | No          | 0 KA, 4 KABC (not ranked, #1281 before KABC filter), 21 overall. Viable location but not warranted based on current crash data.   | High pedestrian volumes   |

| Rank              | CVR<br>Score      | Municipality | Major Road                           | Minor Road                   | Municipal Comments   | Intersection<br>Control | Grade<br>Issues | Skew        | Potential<br>Environmental<br>Issues | ROW Issues    | Utility Issues | Viable | Hybrid<br>Needed | Mini<br>Roundabout<br>Possible | Road Diet<br>Required | Recommended | Notes   | Operational Issues  |
|-------------------|-------------------|--------------|--------------------------------------|------------------------------|--|-------------------------|-----------------|-------------|--------------------------------------|---------------|----------------|--------|------------------|--------------------------------|-----------------------|-------------|---|---|
| 260               | 4.40              | Manchester   | CENTER ST/E CENTER ST (US 6/44) M/   | AIN ST (CT 83)               | Town considering as part of Downtown road diet/complete streets project. Improve safer access between Town Hall, Library, Town offices on NW & NE corners with downtown. In lieu of signal replacement.  | Signal                  | No              | Minor       | Historic                             | Insignificant | Minor          | Yes    | Likely           | No                             | Yes                   | Yes         | Ranked #260. 2 KA(both A), 7 KABC, 34 overall. Parks on 2 sides but probably can be avoided. Perhaps use oval shape. Hybrid design likely needed. Must consider impact on Manchester Road Race.   | Currently split phased due to lack of LT lanes on E-W legs.   |
| 264               | 4.23              | Manchester   |                                      | D/CHARTER OAK ST             | Improve safety and access to/from<br>Charter Oak Park and Charter Oak<br>Greenway to Bennet Academy<br>(public school) and Downtown  | Signal                  | No              | No          |                                      | None          | No             | Yes    | Likely           | No                             | Yes                   | Yes         | Rank #264. 1KA(A), 12 KABC, 28 overall. Hybrid design would<br>be required, but plenty of space available. Must consider<br>impact on Manchester Road Race.   | Current EB thru lane alignment conflicts with WB LT lane, requires shift. High ped volumes due to Greenway, church, CVS, and recreation fields.                       |
| Not in Top<br>300 | Not in<br>Top 300 |              |                                      | 884 EXIT 3 EB OFF-           | Improve safety and access to/from<br>Charter Oak Greenway. Road diet<br>over bridge should be considered.<br>Hackmatack cut through to other<br>major N/S arterial (Keeney St)   | Signal                  | No              | No          |                                      | None          | No             | Yes    | Maybe            |                                | Yes                   | No          | 0 KA, 3 KABC (therefore not ranked), 10 overall. Very viable location for a roundabout but not warranted by current crash data, however could be considered for potential to prevent wrong-way movements onto I-384 off-ramp.   | residential driveway in NW corner could be limited by a raised splitter island. Better as a a driveway onto Rte 83 with a roundabout (possibly with no lefts out)?    |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | WETHERRELL ST RA                     | AMP/BRIDGE ST                | Unsafe daily PM peak queue spill<br>back onto I-384 EB. Sister traffic<br>signal at intersection of Keeney St<br>at Wetherell St and Charter Oak<br>Greenway should be reviewed<br>together.   | Side Street<br>Stop     | Significant     | No          |                                      | Insignificant |                | Maybe  | No               |                                | No                    | Yes         | Only 2 KABC (therefore not ranked), 0 KA, 6 overall. Adjacent signal at Keeney has 0 KA, 5 KABC, 16 overall so also not ranked but combination (7 KABC) would be ranked. Roundabout at Keeney could be limited by bridge over I-384? Roundabout at off-ramp would reduce potential for wrong-way move onto I-384 and help prevent potential for crashes due to spillback onto expressway. Two roundabouts might not be justified by safety reasons alone. | Queues backing onto I-384 create safety issues. roundabout here could overload adjacent signal at Keeney Street - would need to consider both intersections together. |
| Not in Top<br>300 | Not in<br>Top 300 |              | (M<br>CC                             |                              | High speeds mixed with college student drivers. Town owned land on west side. State owned land on east side.   | Side Street<br>Stop     | Minor           | No          |                                      | None          | No             | Voc    | No               | Mayba                          | No                    | No          | Cresh date dage not support installation  |   |
|                   | Not in<br>Top 300 |              | E CENTER ST (US                      |                              | In conjunction with a road diet in lieu of signal replacement.   | Signal                  | Minor           | Significant | Historic                             | Insignificant | No<br>Minor    | Yes    | Maybe            | Maybe                          | Yes                   | Yes         | Crash data does not support installation  5 KABC therefore 1 injury short of being ranked, 0 KA, 15 overall. Was ranked #208 before KABC filter. Shifting circle would improve geometry score. Impact to landscaped area (possible park area?) could be offset with central island area. Must consider impact to Manchester Road Race but could be minimal. EB bypass lane should be closed with a roundabout, could be retained for use during race.     | EB RT bypass lane not needed due to volumes but used by Manchester Road Race. Approach angle of Porter Street very shallow.   |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | E CENTER ST (US                      |                              | Awkward offset intersection with<br>Town owned land in the center. In<br>lieu of signal replacement.   | Signal                  |                 | Significant |                                      | Significant   | Minor          | No     | No               | Maybe                          | No                    | No          | Only 4 crashes overall, 0 KA, 1 KABC. Roundabout not<br>warranted by current crash data. Would require significant<br>ROW to include the south leg in a roundabout.   | poor ISD from south leg, awkward offset with N-S legs, N leg split into two two-way legs.   |
| Not in Top<br>300 | Not in<br>Top 300 |              | S MAIN ST (CT 83) FE                 |                              | High speeds. Limited accecss to<br>neighborhoods SE of intersection<br>so Fern St is a primary access<br>point. Town owned land on west<br>side. Wide ROW on east side.  | Side Street<br>Stop     | No              | No          |                                      | Insignificant | No             | Yes    | No               | Yes                            | No                    | No          | Only 2 crashes, both PDO, roundabout not warranted by current crash data.   |   |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | MIDDLE<br>TURNPIKE E (US<br>6/44) G/ | ARTH RD/LAKE ST              | High speeds. Needs road diet.<br>Garth Rd major access point to<br>large res subdiv to south.  | Side Street<br>Stop     | No              | Minor       |                                      | None          | Minor          | Yes    | No               |                                | Yes                   | No          | Only 1 PDO crash. Roundabout not warranted by crash data. I roundabout is desired for speed control in conjunction with road diet, consider combining with Middle Turnpike East (acquisition of some church property required) and installing 5 legged oval roundabout slightly north of current Route 6.  4 KABC therefore not ranked, 0 KA, 9 overall. Impact to diner  |   |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | MIDDLE ST<br>TURNPIKE E (US DE       | ERNON ST/COOK<br>F/RIVERSIDE | High speeds. Needs road diet.<br>Buckley School on Vernon St<br>(Town is proposing bike lanes).<br>Town's Senior Center on NW<br>corner. In lieu of signal<br>replacement.   | Signal                  | Minor           | Minor       | Hazardous Waste                      | Significant   | Minor          | Maybe  | No               | No                             | Yes                   | No          | parking lot would be significant. Vernon Street and Riverside Drive could be realigned to the east to reduce the impact on the diner but would require ROW, possibly oval shaped roundabout with offset N-S legs? Roundabout and road diet would help reduce speeds but not currently warranted by crashdata.   | Diner parking lot close to road has poor access, likely to be impacted by a roundabout.   |
| Not in Top<br>300 | Not in<br>Top 300 | Manchester   | TOLLAND<br>TURNPIKE (CT<br>30/83) PA | ARKER ST                     | In lieu of sign replacement. Major shopping plaza & other nearby driveways have restricted access due to SR safety issues. Would address speeds and provide safe U-turn opportunities. DOT suggested road diet but Vernon did not support was dropped from VIP | Signal                  | No              | No          |                                      | Insignificant | Minor          | Yes    | Likely           | No                             | Yes                   | Yes         | Ranked #363. 0 KA, 7 KABC, 19 overall. High volumes, hybrid would be required but space is available. Part of coordinated signal system, investigate whether Taylor Street is part of same system and if so consider replacing Taylor Street also.  |   |
| 162               | 11.67             | Manchester   | CENTER ST (US 6/44) AG               | DAMS ST                      | Offset intersection running split phasing. Poor ISD from north. Could provide improved access to plaza. Elementary school to the SW with walking routes.   | Signal                  | No              | Significant | Hazardous Waste                      | Significant   | Minor          | Yes    | Maybe            |                                | No                    | Yes         | Ranked #162. 0KA, 8 KABC, 22 overall. ROW needed either from parking lot on SE corner (as shown with relocated circle in GIS) with realignment of south leg or (likely) total acquisition of residential property in NW corner which would not require any road realignment. Significant safety and operational improvements with a roundabout.   |   |
| Not in Top<br>300 | Not in<br>Top 300 |              |                                      |                              | High crash location (two major crashes this year – one took out service pole other took out cabinet and mast arm). High speed straight roadway with limited visibility to signal. In lieu of signal replacement.   | Signal                  | No              | Minor       |                                      | Insignificant | Minor          | Yes    | No               |                                | No                    | No          | only 3 KABC (therefore not ranked, was 1720 before KABC filter), 0 KA, 3 KABC. Crash data does not warrant roundabout in spite of comment suggesting this is a high crash location. Suggest continual review of crash data. Viable location if crash numbers increase or in lieu of signal replacement.   |   |

| Rani            | C<br>So                   | CVR<br>core    | Municipality         | Major Road               | Minor Road   | Municipal Comments  | Intersection<br>Control | Grade<br>Issues         | Skew           | Potential<br>Environmental<br>Issues   | ROW Issues                | Utility Issues \ |         | Hybrid<br>leeded | Mini<br>Roundabout<br>Possible | Road Diet<br>Required | Recommended | Notes   | Operational Issues   |
|-----------------|---------------------------|----------------|----------------------|--------------------------|--|---|-------------------------|-------------------------|----------------|--|---------------------------|------------------|---------|------------------|--------------------------------|-----------------------|-------------|---|--|
| Not in 1<br>300 | <sup>F</sup> op No<br>Top | p 300          | <b>M</b> ansfield    | STORRS RD (CT<br>195)    | SOUTH EAGLEVILLE RD<br>(CT 275)/CHARLES<br>SMITH WAY | High pedestrian traffic due to university housing           |                         |                         |                |  |                           |                  |         |                  |                                |                       | Yes         | 27 crashes, 0 KA, 4 KABC (therefore does not meet the 6 KABC filter, not ranked). High crash location, though mostly PDO crashes, was ranked #157 before KABC filter. One-way exit only driveway just south of intersection serving apartments would be impacted by splitter island (no lefts out but could make U-turn at roundabout) - likely would help crashes at driveway also. High pedestrian area, currently have wide crosswalks (4 lanes plus median), would be shorter with roundabout. ROW needed owned by town or State (UConn). |  |
| Not in 7<br>300 |                           | ot in<br>p 300 | Mansfield            | STORRS RD (CT<br>195)    | HANKS HILL<br>RD/FLAHERTY RD                         | Skewed Road   | Side Street<br>Stop     | Significant             | Significant    | Wetlands   | Insignificant             | Minor            | Yes     | No               |                                | No                    | No          |   | Unsignalized intersection with two side street approaches on the same side of Route 195. Crosswalk across south leg of Rte 195. Flaherty Road has skew and grade issues. Small businesses on east side with driveways. |
| 80              | 2                         | 22.2           | Mansfield            | STORRS RD (CT<br>195)    | NORTH FRONTAGE RD<br>(CT 632)                        |   | Signal                  | Minor                   | No             |  | None                      | No               | Yes N   | Maybe            |                                | Yes                   | Yes         | Ranked #80. 19 Crashes, 0 KA, 7 KABC. Should be paired with Rte 195/S. Frontage intersection.   | North half of two-way frontage road system parallel to Route 6 expressway. Long crosswalk on west side.  |
| Not in 7 300    | Top No                    | 200            | Mansfield            | ,                        | SOUTH FRONTAGE RD (CT 633)                           | On ramps to Route 6 East                                    | Signal                  | Minor                   | No             |  | None                      |                  |         | Maybe            |                                | Yes                   | Yes         | 15 crashes, 0 KA, 5 KABC (1 short of meeting KABC filter  | South half of frontage road system parallel to Route 6 expressway. Long crosswalk on west leg.   |
| Not in 1<br>300 |                           | ot in<br>p 300 | Mansfield            | STORRS RD (CT<br>195)    |  | Church parking lot and bus stop<br>near intersection        | Signal                  | Significant             | No             |  | Insignificant             |                  |         | No               | Maybe                          | No                    | No          | 9 crashes, 0 KA, 2 KABC therefore not ranked (was #514 before KABC filter). Crash data does not warrant installation. Steep topo on west side limits ability to widen, retaining wall needed. ROW very tight, additional ROW may be needed if sidewalks are to be installed. Mini roundabout may be viable in lieu of signal replacement. Operational improvement might   | Steep church driveway on west side, crosswalk on south leg, no sidewalks.  |
| Not in 7<br>300 |                           | ot in<br>p 300 | Mansfield            | STORRS RD (CT<br>195)    | HORSEBARN HILL RD                                    | High pedestrian traffic due to university housing           | Signal                  | No                      | No             |  | Insignificant             | Minor            | Yes     | No               |                                | No                    | No          | 7 Crashes, 0 KA, 1 KABC. Very viable location but crash data does not warrant installation. Should be considered for roundabout in lieu of signal replacement, together with 195/ N. Eagleville intersection. ROW needed owned by State (UConn).  | High pedestrian volumes  |
| Not in 1<br>300 |                           | ot in<br>p 300 | <i>M</i> ansfield    | 195)                     | (CT 430)   | High pedestrian traffic due to university campus/housing    | Signal                  | No                      | No             |  | None                      | Minor            | Yes     | No               |                                | No                    | No          | 10 Crashes, 0 KA, 1 KABC therefore not ranked. Very viable location but crash data does warrant installation. Should be considered in lieu of signal replacement and/or speed control in high pedestrian area. ROW needed owned by State (UConn).   | High pedestrian volumes  |
| 41              | 33                        | 3.60 N         | Mansfield            | 195)                     | MIDDLE TURNPIKE (US 44)                              | Numerous Curb Cuts  |                         |                         |                |  |                           |                  |         |                  |                                |                       | Yes         | Reviewed as Ranked site #41   |  |
| Not in 7        | Top No                    |                | Mansfield            | STORRS RD (CT<br>195)    | STAFFORD RD (CT 32)                                  | Gas station/businesses at                                   | Signal                  | Minor                   | Minor          | Hazardous Waste  | None                      | Minor            | Yes     | No               |                                | No                    | No          | 16 crashes but 0 injuries. Viable location but crash data does not warrant installation.  |  |
| 204             |                           | 7.57           |                      | MIDDLE<br>TURNPIKE (US   | , , ,  | Has been identified for improvements in the Eastern         | J                       |                         |                | Trace and the state of the stat |                           |                  |         |                  |                                |                       |             | 18 Crashes, 0 KA, 6 KABC. Ranked #204. Land needed in NE corner owned by State (UConn), land in SW corner seems to be part of existing ROW? SE quadrant also owned by UConn. Oval shape and/or realignments likely needed due to skew, but  |  |
| Not in 7<br>300 |                           | ot in<br>p 300 | Mansfield  Mansfield | STAFFORD RD (CT 32)      | STAFFORD RD (CT 32)  SOUTH EAGLEVILLE RD (CT 275)    |   | Signal<br>Signal        | Significant Significant | Significant No | Historic   | Insignificant Significant |                  |         | No<br>No         | Maybe                          | No<br>No              | Yes No      | land is available.  14 crashes but only 1 injury, does not warrant installation.  Significant ROW needed for roundabout. ROW very tight. Area has historic significance, church on SW quadrant. Previous requests for guardrail on NW quadrant due to complaints about vehicles running off road near house west of intersection on Route 275. Mini roundabout might be viable with no or minor ROW needed.   |  |
| Not in 1<br>300 |                           | ot in<br>p 300 |                      | MAPLE HILL AVE           |  |   | Signal                  | No                      | Minor          |  | None                      |                  |         | No               | ,                              | No                    | No          | 10 Crashes overall, 0 KA, 2 KABC. Would be good operational improvement if could align or combine with Lantern Hill, but does not appear practical. If alignment not possible, would  | Offset with Lantern Hill, Robbins Ave leg has stop controlled right turn bypass.   |
| Not in 7<br>300 | op No                     | ot in          |                      | DEMING ST                | CULVER ST  |   | All-Way Stop            | No                      | Minor          |  | Insignificant             |                  |         | No               | Yes                            | No                    | No          | Only 1 crash, no injuries therefore installation not warranted based on safety. Mini roundabout could be viable if needed for operational issues.   | 7.   |
| 300             | Top No                    | ot in<br>p 300 | Newington            | FENN RD/W<br>HARTFORD RD | WEST HILL<br>RD/RESERVOIR RD                         |   | Signal<br>Side Street   | Minor                   | Significant    |  | None                      | Minor            | Yes     | No               |                                | No                    | Yes         | 9 Crashes overall, 1 KA (A), only 2 KABC therefore not ranked, (was #695 before KABC filter), Awkward alignment of E-W legs. Plenty of ROW available. Near school. Possible oval  | side streets offset with curves to align but still poor alignment.<br>Long, curving through movements conflict with short E-W left<br>turns.   |
| 300             | Top                       | p 300 N        | Newington            | MAIN ST (CT 176)         | HOPKINS DR   | ?Town transfer station                                      | Stop                    | No                      | No             |  | Insignificant             | Minor            | Yes     | No               |                                | No                    | No          | 0 Crashes therefore installation not warranted based on safety.   |  |
| Not in 7<br>300 | Top No                    |                | Newington            | CEDAR ST (CT<br>175)     | ALUMNI RD  | improve access to industrial area and remove gate on Alumni | Signal                  | No                      | No             |  | Moderate                  | Minor N          | Maybe I | Likely           | No                             |                       | No          | Volumes too high for single lane roundabout, proximity to Maple Hill signal could be problematic.   | 250 feet west of Maple Hill/Old Farm signal, some crashes due to that signal.  |
| Not in 7<br>300 | op No                     | ot in          |                      | CEDAR ST (CT<br>175)     | FENN RD  | Signal operates at LOS F                                    | Signal                  | Minor                   | No             |  | None                      | Minor            | Yes I   | Likely           |                                |                       | No          | 120 crashes overall, 0 KA, 23 KABC - very high crash location but volumes too high for a single lane roundabout. Multi-lane roundabout would likely work, space available.  |  |
| Not in 1<br>300 | Top No                    | ot in<br>p 300 |                      | FENN RD                  | MYRA COHEN WAY                                       |   | Signal                  | Minor                   | No             | Wetlands   | Insignificant             | Minor            | Yes I   | Likely           | No                             |                       | Yes         | 17 Crashes overall, 0 KA, 8 KABC, ranked #392 after KABC filter. Geometric factor appears to be incorrect therefore actual rank should be higher. Over half of crashes are injury crashes therefore high severity. Hybrid design likely needed, might impact wetlands or ROW, space available on NE quadrant. 10 Crashes overall, 0 KA, 7 KABC, ranked #180. 7/10 crashes   | Access to Busway station   |
| 180             |                           |                | Newington            | WILLARD AVE<br>(CT 173)  | GARFIELD ST  | few residents have requested a signal                       | Side Street<br>Stop     | No                      | No             |  | Insignificant             | Minor            | Yes     | No               |                                | No                    | Yes         | involved injuries - high severity. Town owns land on SE corner, CL&P owns NE corner.  5 crashes overall, 0 KA, 1 KABC. Viable location but crash  |  |
|                 | Top No                    |                | Newington            | FENN RD                  | HOLMES RD  |   | Signal                  | Minor                   | No             |  | None                      | Minor            | Yes     | No               |                                | No                    | No          | history does not warrant installation.  |  |

| Rank              | CVR<br>Score      | Municipality  | Major Road                   | Minor Road                                    | Municipal Comments   | Intersection<br>Control | Grade<br>Issues | Skew        | Potential<br>Environmental<br>Issues | ROW Issues 1  | Jtility Issues | Viable | Hybrid<br>Needed | Mini<br>Roundabout<br>Possible | Road Diet<br>Required | Recommended | Notes Operational Issues  |
|-------------------|-------------------|---------------|------------------------------|---|--|-------------------------|-----------------|-------------|--------------------------------------|---------------|----------------|--------|------------------|--------------------------------|-----------------------|-------------|---|
| Not in Top        | Not in<br>Top 300 | Newington     | FENN RD                      | COMMERCE CT                                   |  | Side Street<br>Stop     | Minor           | No          |                                      | Insignificant | Minor          | Yes    | No               |                                | No                    | Yes         | 8 crashes, 1 KA (A), 5 KABC (was #237 before filter, one injury short of KABC filter therefore not ranked). High crash numbers for an unsignalized T intersection. Roundabout here likely to help at King Arthur's Way.  Unsignalized T intersection, steep side slope opposite side street from King Artur's Way residential development which intersects Fenn to the north. Impractical to align the two side streets.  |
| Not in Top<br>300 | Not in<br>Top 300 | Suffield      | MAIN ST (CT 75)              | MOUNTAIN RD (CT<br>168)/BRIDGE ST (CT<br>513) | Intersection functions poorly with transitions that are too short. Significant portion of traffic travels to-from Mountain Rd to Bridge.   | Signal                  | No              | No          |                                      | Insignificant | Minor          | Yes    | Maybe            | No                             | No                    | Yes         | Individually, both intersections have only 4 KABC crashes so neither is ranked, but combining them would meet the filter. The Rte 75/168 intersection was #190 before the KABC filter. Combined 23 crashes overall, 2 KA (both As), 8 KABC. ROW needed is town owned.   |
| Not in Top<br>300 | Not in<br>Top 300 | Suffield      | THOMPSONVILLE<br>RD (CT 190) | MAPLETON AVE                                  | 190 throughway added later to<br>assist in truck movements. Sign<br>controls at locations with limited<br>sightline and difficult angle.<br>Enough traffic to warrant better<br>controls.  | Side Street<br>Stop     | No              | Minor       |                                      | None          | Minor          | Yes    | No               |                                | No                    |             | crash data only available at southern end of NB RT bypass leg (0 crashes). Need to check data at the actual intersection.  Also, geometry score should be 1.0 based on more appropriate location of circle. Manual review of UConn Crash Data indicates no crashes at this location, therefore installation not recommended based on available crash data.  |
| Not in Top<br>300 | Not in<br>Top 300 | Suffield      | MAIN ST (CT 75)              | PRIVATE ROADS                                 | Significant traffic competing with pedestrian crossings associated with adjacent boarding school use.  | Side Street<br>Stop     | No              | No          |                                      | None          | Minor          | Yes    | No               |                                | No                    | No          | Only 4 crashes, 0 KA, 2 KABC, therefore not ranked and does not warrant roundabout installation based on crash data. No data available at acute intersection to the north, if any significant crashes there, could reconsider. Roundabout would eliminate acute intersection with poor two-way visibility.  private road parallel to Rte 75 has acute angle exit onto Rte 75.   |
| Not in Top<br>300 | Not in<br>Top 300 | Suffield      | SHELDON ST (CT<br>187)       |   | Dangerous. Northbound traffic on North Main Street continuing onto South Stone in Suffield may not yield to westbound traffic on Sheldon (187). Stopped traffic at both stop signs have tough alignment for sightline. East Granby is in agreement.        | Side Street<br>Stop     | No              | No          |                                      | None          | No             | Yes    | No               |                                | No                    | Yes         | 7 overall, 0KA, 5 KABC. Data only available at one of the three intersections, if others added, likely would be over the 6 KABC filter. 5 of the 7 crashes resulted in injuries. Acute angles at two intersections results in poor two-way visibility. Geometry score with circle in proper location would give higher score. Probably have to "T" Austin Brook into Stone, make one approach to roundabout.  Actually 3 intersections, one 4-legged two way stop and two 3 legged skewed intersections with stops on legs with acute angles      |
| Not in Top        | Not in<br>Top 300 | Suffield      | ,                            | N STONE ST/S STONE<br>ST                      | Numerous documented accidents.   | Side Street<br>Stop     | Minor           | No          |                                      | None          | Minor          | Yes    | No               |                                | No                    | Yes         | 10 Crashes overall, 0 KA, 5 KABC (1 short of meeting KABC filter therefore not ranked, was #117 before filter). 5 of 10 crashes resulted in injuries including 4 type B.  |
| 58                | 26.24             | West Hartford | TROUT BROOK                  | ASYLUM AVE                                    | Future redevelopment of the former UConn campus which is located on the NW and NE corners of this intersection. Town is also planning to extend a multi-use trail along the west side of Trout Brook Drive which should generate more pedestrian activity. |                         |                 |             |                                      |               |                |        |                  |                                |                       | Yes         | Reviewed as ranked location #58   |
| Not in Top<br>300 | Not in<br>Top 300 | West Hartford |                              |   | Skewed geometry may lend itself  | Signal                  | No              | Significant | Hazardous Waste                      | Significant   | Minor          | No     | Maybe            | Maybe                          | No                    |             | 0 KA, 3 KABC therefore not ranked, 15 crashes overall. Skew makes it impossible to install roundabout (even a peanut) without significant ROW. Crash data does not warrant installation. Mini roundabout could be viable.   |
| Not in Top<br>300 | Not in<br>Top 300 | West Hartford | MOUNTAIN RD                  | FERN ST/HUNTER DR                             |  | Signal                  | No              | Minor       |                                      | Insignificant | Minor          | Yes    | Maybe            |                                | No                    | No          | 0 KA, 2 KABC (therefore not ranked), 15 crashes overall.  Space available (with town owned land) but crash data does not warrant installation. Could be considered in lieu of signal replacement.   |
| Not in Top<br>300 | Not in<br>Top 300 | West Hartford | PARK RD                      | OAKWOOD<br>AVE/ARNOLDALE RD                   |  | Signal                  | No              | Minor       | Hazardous Waste                      | Significant   | Minor          | No     | No               | Yes                            | No                    | No          | 1 KA (Fatal), 5 KABC (1 short of meeting KABC filter), 11 crashes overall. Crash data warrants improvement but single lane roundabout would require significant ROW (probable total takes) on SW and NE quadrants. Mini roundabout should be considered here due to crash severity.   |
| Not in Top<br>300 | Not in<br>Top 300 | Wethersfield  | JORDAN LN (CT<br>314)        | WOLCOTT HILL RD                               | High traffic volume, stop<br>controlled, multiple Thru/LT/RT-<br>turn lanes  | All-Way Stop            | No              | Minor       | Hazardous Waste                      | • Moderate    | Minor          | Yes    | Maybe            | No                             | Yes                   | Yes         | 23 overall crashes, 0 KA, 7 KABC. Weighted score is incorrect (using ADT of Rte 15 overhead which provides an ADT Factor of 0.0, should be 1.0). Piers limit location of roundabout and features. Shopping Center parking lot on SE quadrant and gas station lot on NW quadrant may be impacted. Adjusted circle location shown does not consider pier locations and will have to be adjusted.  Rte 15 bridge overhead, piers in the intersection. Multiple turn lanes and a right turn bypass at an all-way stop intersection creates confusion. |
| Not in Top<br>300 | Not in<br>Top 300 | Wethersfield  | WOLCOTT HILL                 | NOTT ST                                       | High traffic/pedestrian/bike<br>volume, stop-controlled,<br>wide/offset intersection, school<br>nearby   | All-Way Stop            |                 | Significant |                                      | Significant   | Minor          | No     | No               | No                             | No                    |             | 7 crashes, all PDOs. No way to install a roundabout to include both legs of Wolcott Hill Road without taking significant property. Not warranted by crash data.  North leg of Wolcott Hill is split into (2) two-way legs with an internal stop and very acute angle of intersection. The legs of Wolcott Hill Road are offset from each other.   |

| Rank | CVR Score | Municipality | Major Road                           | Minor Road                     | Total Crash | Total KABC | Crash Score | ADT   | ADT Factor | Intersection Control | ROW Issues    | Geometric<br>Factor | Recommended | Comment                              |
|------|-----------|--------------|--------------------------------------|--------------------------------|-------------|------------|-------------|-------|------------|----------------------|---------------|---------------------|-------------|--------------------------------------|
| 1    | 250.20    | HARTFORD     | MAIN ST # 1                          | MAHL AVE/PAVILLION ST          | 31          | 10         | 417.00      | 13500 | 0.75       | Signal               | Moderate      | 0.80                | Yes         | <b>Comment</b>                       |
| 2    | 232.65    | HARTFORD     | CHAPEL ST. NO/WALNUT ST/I-84 EB RAMP | HIGH ST #1                     | 60          | 11         | 232.67      | 9900  | 1          | Signal               | None          | 1.00                | No          | Volumes                              |
| 3    | 187.54    | HARTFORD     | NEW BRITIAN AVE                      | SUMMIT ST/FAIRFIELD AVE # 2    | 17          | 6          | 216.33      | 10600 | 0.9        | Signal               | Insignificant | 0.96                | Yes         |                                      |
| 4    | 187.50    | BERLIN       | MILL ST (CT 372)                     | SAVAGE HILL RD/BECKLEY RD      | 12          | 6          | 208.33      | 10300 | 0.9        | Signal               | None          | 1.00                | Yes         |                                      |
| 5    | 162.28    | HARTFORD     | FRANKLIN AVE                         | BUSHNELL ST                    | 13          | 7          | 213.67      | 8600  | 1          | Side Street Stop     | Significant   | 0.76                | No          | ROW                                  |
| 6    | 149.93    | HARTFORD     | WASHINGTON ST                        | VERNON ST # 2                  | 34          | 11         | 229.00      | 12100 | 0.75       | Signal               | Insignificant | 0.87                | Yes         |                                      |
| 7    | 145.27    | HARTFORD     | FRANKLIN AVE                         | BLISS ST                       | 13          | 7          | 213.67      | 8600  | 1          |                      | Significant   | 0.68                | No          | Fatal likely occurred<br>at Bushnell |
| 8    | 131.67    | HARTFORD     | WESTLAND ST                          | BARBOUR ST                     | 18          | 6          | 205.33      | 5700  | 1          | Signal               | Significant   | 0.64                | No          | ROW                                  |
| 9    | 108.48    | HARTFORD     | HOMESTEAD AVE/WALNUT ST              | GARDEN ST #1                   | 54          | 28         | 270.67      | 13100 | 0.75       | Signal               | Moderate      | 0.53                | Yes         |                                      |
| 10   | 89.31     | HARTFORD     | ALBANY AVE (US 44)                   | BROOK ST                       | 19          | 6          | 215.33      | 13400 | 0.75       | Signal               | Significant   | 0.55                | No          | ROW                                  |
| 11   | 81.67     | HARTFORD     | WETHERSFIELD AVE                     | ADELAIDE ST                    | 19          | 7          | 212.33      | 12000 | 0.9        | Side Street Stop     | Significant   | 0.43                | No          | ROW                                  |
| 12   | 79.75     | HARTFORD     | MORGAN ST (US 44)                    | MARKET ST                      | 128         | 30         | 127.00      | 12800 | 0.75       | Signal               | Insignificant | 0.84                | No          | ROW                                  |
| 13   | 67.43     | SOUTHINGTON  | MERIDAN-WATERBURY TPKE (CT 322)      | CLARK ST (CT 509)              | 15          | 7          | 215.67      | 11700 | 0.9        | Signal               | Moderate      | 0.35                | Yes         | Vols, Signal<br>System               |
| 14   | 65.05     | HARTFORD     | ZION ST # 1                          | WARD ST                        | 18          | 9          | 220.33      | 10400 | 0.9        | Signal               | Significant   | 0.33                | No          | ROW                                  |
| 15   | 64.30     | HARTFORD     | FARMINGTON AVE                       | BROAD ST                       | 84          | 23         | 89.67       | 12600 | 0.75       | Signal               | Insignificant | 0.96                | No          | Needs Multi-Lane<br>Rdbt             |
| 16   | 63.79     | HARTFORD     | TRUMBULL ST                          | CHAPEL ST SOUTH                | 47          | 18         | 67.00       | 7100  | 1          | Signal               | Significant   | 0.95                | No          | ROW, Vols?                           |
| 17   | 58.25     | HARTFORD     | MAIN ST #2                           | CHARTER OAK AVE/BUCKINGHAM ST  | 36          | 14         | 233.00      | 15900 | 0.25       | Signal               | Moderate      | 1.00                | Yes         |                                      |
| 18   | 55.72     | HARTFORD     | NEW BRITAIN AVE                      | HILLSIDE AVE                   | 44          | 15         | 247.00      | 10600 | 0.9        | Signal               | Significant   | 0.25                | No          | ROW                                  |
| 19   | 53.33     | HARTFORD     | ANN UCELLO ST #1 /PLEASANT ST        | CHAPEL ST NORTH                | 41          | 12         | 53.33       | 6800  | 1          | Signal               | Significant   | 1.00                | No          | ROW                                  |
| 20   | 52.44     | HARTFORD     | MAIN ST/MORGAN ST                    | CHAPEL ST NORTH                | 78          | 24         | 82.67       | 12500 | 0.75       | Signal               | Moderate      | 0.85                | No          | Volumes                              |
| 21   | 51.91     | VERNON       | HARTFORD TURNPIKE (CT 30)            | RESERVIOIR RD/GROVE ST (CT 31) | 67          | 17         | 67.00       | 11200 | 0.9        | Signal               | Insignificant | 0.86                | Yes         |                                      |
| 22   | 51.21     | HARTFORD     | ALBANY AVE (US 44)                   | GARDEN ST # 1                  | 85          | 22         | 271.00      | 16000 | 0.25       | Signal               | Significant   | 0.76                | No          | ROW, Recent<br>Project               |
| 23   | 51.17     | HARTFORD     | CAPITOL AVE                          | LAUREL ST                      | 47          | 13         | 57.00       | 10300 | 0.9        | Signal               | Moderate      | 1.00                | Yes         |                                      |
| 24   | 50.42     | HARTFORD     | FRANKLIN AVE                         | BOND ST                        | 32          | 17         | 55.67       | 8600  | 1          | Side Street Stop     | Significant   | 0.91                | Yes         |                                      |
| 25   | 47.97     | HARTFORD     | PARK TERR                            | SIGOURNEY ST/RUSS ST           | 47          | 18         | 64.00       | 13600 | 0.75       | Signal               | None          | 1.00                | No          | Already Converted to a Roundabout    |

| Rank | CVR Score | Municipality  | Major Road                               | Minor Road                                      | Total Crashe | Total KABC | Crash Score | ADT   | ADT Factor | Intersection Control Type | ROW Issues    | Geometric<br>Factor | Recommended | Comment   |
|------|-----------|---------------|--|---|--------------|------------|-------------|-------|------------|---------------------------|---------------|---------------------|-------------|---|
| 26   | 46.67     | NEW BRITAIN   | COLUMBUS BLVD                            | CHESTNUT ST                                     | 26           | 11         | 46.67       | 8100  | 1          | Signal                    | Insignificant | 1.00                | Yes         |   |
| 27   | 44.32     | HARTFORD      | CAPITOL AVE                              | BROAD ST  | 56           | 19         | 66.67       | 10300 | 0.9        | Signal                    | Insignificant | 0.74                | Yes         |   |
| 28   | 42.87     | HARTFORD      | FRANKLIN AVE                             | BROWN ST  | 42           | 7          | 45.00       | 8600  | 1          | Signal                    | Significant   | 0.95                | No          | ROW   |
| 29   | 42.05     | NEW BRITAIN   | COLUMBUS BLVD & CT 9 SB<br>ENT/EXIT RAMP | ELLIS ST  | 26           | 11         | 45.00       | 8600  | 1          | Signal                    | Insignificant | 0.93                | Yes         |   |
| 30   | 40.74     | NEWINGTON     | WILLARD AVE (CT 173)                     | ROBBINS AVE                                     | 33           | 17         | 54.33       | 13500 | 0.75       | Signal                    | Significant   | 1.00                | Yes         |   |
| 31   | 40.15     | HARTFORD      | WASHINGTON ST                            | JEFFERSON ST                                    | 51           | 22         | 75.33       | 12100 | 0.75       | Signal                    | Moderate      | 0.71                | Yes         |   |
| 32   | 39.45     | VERNON        | HARTFORD TPKE (CT 30)                    | BOLTON RD/CENTER RD                             | 48           | 12         | 52.33       | 11300 | 0.9        | Signal                    | Moderate      | 0.84                | Yes         |   |
| 33   | 38.50     | BERLIN        | FRONTAGE RD/MILL ST (CT 372)             | WORTHINGTON RIDGE (CT 372-<br>SOUTH/572- NORTH) | 26           | 12         | 51.33       | 13700 | 0.75       | Signal                    | Moderate      | 1.00                | Yes         |   |
| 34   | 37.99     | WEST HARTFORD | NEW PARK AVE                             | FLATBUSH AVE                                    | 70           | 22         | 76.67       | 14600 | 0.5        | Signal                    | Significant   | 0.99                | No          | Volumes   |
| 35   | 37.50     | HARTFORD      | 84-W-115                                 | SIGOURNEY ST                                    | 40           | 12         | 41.67       | 11900 | 0.9        | Signal                    | Insignificant | 1.00                | No          | Volumes, on<br>Structure                        |
| 36   | 36.06     | HARTFORD      | WASHINGTON ST                            | PARK ST   | 64           | 15         | 75.33       | 12100 | 0.75       | Signal                    | Moderate      | 0.64                | Yes         |   |
| 37   | 35.40     | WEST HARTFORD | PROSPECT AVE                             | KANE ST   | 33           | 11         | 39.33       | 10500 | 0.9        | Signal                    | None          | 1.00                | Yes         |   |
| 38   | 34.75     | HARTFORD      | I-84 EB ON RAMP                          | BROAD ST  | 64           | 12         | 46.33       | 13100 | 0.75       | Signal                    | None          | 1.00                | No          | Bridge Piers                                    |
| 39   | 34.50     | COVENTRY      | BOSTON TURNPIKE (US 44)                  | MAIN ST (CT 31)                                 | 30           | 11         | 38.33       | 10300 | 0.9        | Signal                    | Insignificant | 1.00                | Yes         |   |
| 40   | 34.23     | NEW BRITAIN   | EAST MAIN                                | MAIN ST   | 37           | 17         | 47.33       | 13100 | 0.75       | Signal                    | None          | 0.96                | No          | Recent Project                                  |
| 41   | 33.60     | MANSFIELD     | MIDDLE TURNPIKE (US 44)                  | STORRS RD (CT 195)                              | 37           | 12         | 37.33       | 10900 | 0.9        | Signal                    | None          | 1.00                | Yes         |   |
| 42   | 32.70     | WINDSOR       | WINDSOR AVE (CT 159)                     | ROOD AVE  | 25           | 10         | 36.33       | 10600 | 0.9        | Signal                    | Insignificant | 1.00                | No          | Realignment<br>needed, Major<br>utility impacts |
| 43   | 32.47     | HARTFORD      | ASYLUM AVE                               | BROAD ST/COGSWELL ST                            | 95           | 20         | 81.67       | 14300 | 0.5        | Signal                    | Insignificant | 0.80                | No          | Volumes   |
| 44   | 32.33     | HARTFORD      | I-91 NB RAMP                             | I-91 SB RAMP                                    | 37           | 10         | 32.33       | 5200  | 1          | Signal                    | None          | 1.00                | No          | Steep Grade                                     |
| 45   | 32.33     | BLOOMFIELD    | BLOOMFIELD AVE (CT 189)                  | PARK AVE/MTN AVE (CT 178)                       | 27           | 9          | 32.33       | 9900  | 1          | Signal                    | Insignificant | 1.00                | Yes         |   |
| 46   | 31.68     | HARTFORD      | I-84 EB OFF/WB ON                        | CAPITOL AVE/OAK ST                              | 32           | 13         | 52.00       | 10300 | 0.9        | Signal                    | None          | 0.68                | Yes         |   |
| 47   | 31.00     | VERNON        | TALCOTTVILLE RD (CT 83)                  | HARTFORD TURNPIKE/KELLY RD (CT 30)              | 49           | 11         | 41.33       | 12700 | 0.75       | Signal                    | None          | 1.00                | Yes         |   |
| 48   | 30.60     | HARTFORD      | MAPLE AVE                                | FAIRFIELD AVE # 1                               | 18           | 8          | 34.00       | 11000 | 0.9        | Signal                    | Insignificant | 1.00                | No          | ROW, Potential historic impact                  |
| 49   | 30.50     | HARTFORD      | STATE ST                                 | MARKET ST                                       | 53           | 6          | 40.67       | 13400 | 0.75       | Signal                    | None          | 1.00                | No          | Potential Wetlands,<br>Utility impacts          |
| 50   | 30.09     | GLASTONBURY   | GLASTONBURY BLVD/GRISWOLD ST             | MAIN ST   | 63           | 9          | 49.00       | 13400 | 0.75       | Signal                    | None          | 0.82                | No          | Hybrid may be<br>needed, signal<br>system       |

| Rank | CVR Score | Municipality  | Major Road                             | Minor Road                    | Total Crashe | Total KABC | Crash Score | ADT   | ADT Factor | Intersection Control<br>Type | ROW Issues    | Geometric<br>Factor | Recommended | Comment              |
|------|-----------|---------------|--|-------------------------------|--------------|------------|-------------|-------|------------|------------------------------|---------------|---------------------|-------------|----------------------|
| 51   | 29.38     | HARTFORD      | FARMINGTON AVE                         | SIGOURNEY ST                  | 68           | 19         | 72.33       | 12600 | 0.75       | Signal                       | Moderate      | 0.54                | No          | ROW, Signal System   |
| 52   | 29.00     | VERNON        | HARTFORD TURNPIKE (CT 30)              | DOBSON RD                     | 37           | 6          | 29.00       | 9100  | 1          | Signal                       | None          | 1.00                | Yes         |                      |
| 53   | 28.80     | ENFIELD       | ENFIELD ST (US 5)/FRANKLIN ST (CT 514) | T CT 190 WB RAMP              | 17           | 8          | 32.00       | 11800 | 0.9        | Signal                       | None          | 1.00                | Yes         |                      |
| 54   | 27.90     | WEST HARTFORD | PROSPECT AVE & CAYA AVE                | I-84 EB RAMPS                 | 28           | 10         | 31.00       | 10500 | 0.9        | Signal                       | None          | 1.00                | Yes         |                      |
| 55   | 27.82     | HARTFORD      | FRANKLIN AVE                           | SOUTH ST                      | 22           | 9          | 29.00       | 8600  | 1          | Signal                       | Significant   | 0.96                | No          | ROW                  |
| 56   | 26.75     | HARTFORD      | PULASKI CIR (CT 598) & WELLS ST        | HUDSON ST                     | 47           | 9          | 35.67       | 13800 | 0.75       | Yield                        | Insignificant | 1.00                | Yes         |                      |
| 57   | 26.27     | HARTFORD      | CHURCH ST                              | SPRUCE ST                     | 55           | 10         | 40.00       | 6400  | 1          | Signal                       | Insignificant | 0.66                | No          | Crash data incorrect |
| 58   | 26.24     | WEST HARTFORD | TROUT BROOK DR                         | ASYLUM AVE                    | 31           | 10         | 221.33      | 16300 | 0.25       | Signal                       | Moderate      | 0.47                | Yes         |                      |
| 59   | 26.24     | HARTFORD      | SIGOURNEY ST                           | HAWTHORN ST                   | 23           | 7          | 30.67       | 11900 | 0.9        | Signal                       | Insignificant | 0.95                | Yes         |                      |
| 60   | 25.80     | HARTFORD      | WESTBOURNE PKWY                        | BLUE HILLS AVE (CT 187)       | 30           | 7          | 30.00       | 11300 | 0.9        | Signal                       | Insignificant | 0.96                | Yes         |                      |
| 61   | 25.57     | ENFIELD       | SHAKER RD (CT 220/CT 402)              | TAYLOR RD (CT 220)            | 23           | 11         | 34.33       | 11400 | 0.9        | All-Way Stop                 | None          | 0.83                | Yes         |                      |
| 62   | 25.38     | NEW BRITAIN   | MARTIN LUTHER KING DR (CT 71)          | WINTER ST                     | 24           | 14         | 41.33       | 13200 | 0.75       | Signal                       | Insignificant | 0.82                | Yes         |                      |
| 63   | 25.34     | HARTFORD      | WETHERSFIELD AVE                       | ELLIOTT ST                    | 21           | 8          | 35.00       | 12000 | 0.9        | Signal                       | Moderate      | 0.80                | Yes         |                      |
| 64   | 25.00     | FARMINGTON    | SOUTH RD                               | TWO MILE RD                   | 30           | 6          | 25.00       | 10000 | 1          | All-Way Stop                 | None          | 1.00                | Yes         |                      |
| 65   | 24.70     | HARTFORD      | I-84 EB OFF/WB ON                      | SPRUCE ST                     | 39           | 11         | 44.33       | 12200 | 0.75       | Signal                       | Insignificant | 0.74                | No          | Signal System        |
| 66   | 24.60     | HARTFORD      | WHITE ST                               | HARVARD ST                    | 22           | 10         | 27.33       | 10600 | 0.9        | Signal                       | Insignificant | 1.00                | Yes         |                      |
| 67   | 24.46     | HARTFORD      | PARK ST                                | PARK TERR                     | 67           | 27         | 92.00       | 13600 | 0.75       | Signal                       | Moderate      | 0.35                | Yes         |                      |
| 68   | 24.29     | WEST HARTFORD | BOULEVARD                              | FOUR MILE RD                  | 22           | 13         | 43.67       | 6100  | 1          | Side Street Stop             | Moderate      | 0.56                | No          | ROW                  |
| 69   | 24.02     | SOUTHINGTON   | WEST ST (CT 229)                       | WEST QUEEN ST                 | 43           | 13         | 243.33      | 21100 | 0.1        | Signal                       | Insignificant | 0.99                | No          | Grade, Volumes       |
| 70   | 23.88     | HARTFORD      | ASYLUM AVE                             | WOODLAND ST                   | 49           | 16         | 61.00       | 14300 | 0.5        | Signal                       | Moderate      | 0.78                | Yes         |                      |
| 71   | 23.25     | SOUTHINGTON   | WATERBURY TURNPIKE (CT 322)            | I-691 WB RAMPS                | 23           | 9          | 31.00       | 12100 | 0.75       | Signal                       | None          | 1.00                | Yes         |                      |
| 72   | 23.20     | BLOOMFIELD    | MOUNTAIN AVE (CT 178)                  | MAPLE AVE/BROWN ST            | 21           | 8          | 30.00       | 10400 | 0.9        | Signal                       | Insignificant | 0.86                | Yes         |                      |
| 73   | 23.17     | NEW BRITAIN   | WHITING ST                             | WEBSTER ST (ACTUALLY GLEN ST) | 11           | 6          | 26.67       | 4100  | 1          | Side Street Stop             | Significant   | 0.87                | No          | ROW                  |
| 74   | 23.14     | HARTFORD      | CHAPEL ST SOUTH                        | ANN UCCELLO ST # 1            | 47           | 6          | 29.00       | 7000  | 1          | Signal                       | Significant   | 0.80                | No          | I-84 Overpass        |
| 75   | 23.11     | HARTFORD      | FAIRFIELD AVE #1                       | ZION ST #2                    | 36           | 11         | 35.33       | 12900 | 0.75       | Signal                       | Insignificant | 0.87                | Yes         |                      |

| Rank | CVR Score | Municipality  | Major Road                                      | Minor Road                  | Total Crashe | Total KABC | Crash Score | ADT   | ADT Factor | Intersection Control<br>Type | ROW Issues    | Geometric<br>Factor | Recommended | Comment                |
|------|-----------|---------------|---|-----------------------------|--------------|------------|-------------|-------|------------|------------------------------|---------------|---------------------|-------------|------------------------|
| 76   | 23.04     | VERNON        | UNION ST (CT 83 & CT 74)                        | WEST ST (CT 74 & 83)        | 55           | 7          | 36.67       | 10100 | 0.9        | Signal                       | Moderate      | 0.70                | Yes         |                        |
| 77   | 23.00     | HARTFORD      | CAPITOL AVE                                     | WASHINGTON ST & TRINITY ST  | 23           | 8          | 30.67       | 12100 | 0.75       | Signal                       | None          | 1.00                | Yes         |                        |
| 78   | 22.98     | MANCHESTER    | MIDDLE TURNPIKE WEST/MIDDLE<br>TURNPIKE EAST #1 | MAIN ST (CT 83)             | 44           | 14         | 54.33       | 13300 | 0.75       | Signal                       | Significant   | 0.56                | No          | ROW                    |
| 79   | 22.25     | NEW BRITAIN   | CHESTNUT ST & ELM ST (CT 71)                    | HARRY TRUMAN OP             | 24           | 9          | 29.67       | 12700 | 0.75       | Signal                       | None          | 1.00                | Yes         |                        |
| 80   | 22.20     | MANSFIELD     | STORRS RD                                       | NORTH FRONTAGE RD           | 19           | 7          | 24.67       | 10900 | 0.9        | Signal                       | None          | 1.00                | Yes         |                        |
| 81   | 21.83     | SOUTHINGTON   | WATERBURY TURNPIKE (CT 322) & RUGGLES ROW       | I-84 EB RAMPS               | 31           | 13         | 43.67       | 14700 | 0.5        | Signal                       | None          | 1.00                | Yes         |                        |
| 82   | 21.75     | ENFIELD       | KING ST   | I-91 NB RAMPS               | 17           | 10         | 29.00       | 12900 | 0.75       | Signal                       | Insignificant | 1.00                | Yes         |                        |
| 83   | 21.69     | HARTFORD      | ALBANY AVE (US 44)                              | BALTIMORE ST                | 18           | 7          | 26.00       | 11200 | 0.9        | Signal                       | Significant   | 0.93                | No          | ROW, Recent<br>Project |
| 84   | 21.67     | NEW BRITAIN   | MAIN ST #1                                      | CHESTNUT ST & ARCH ST       | 15           | 7          | 21.67       | 6600  | 1          | Signal                       | None          | 1.00                | Yes         |                        |
| 85   | 21.67     | WILLINGTON    | RIVER ROAD (CT 32)                              | TOLLAND TPKE (CT 74)        | 15           | 6          | 21.67       | 5200  | 1          | Signal                       | None          | 1.00                | No          | Steep Grade            |
| 86   | 21.60     | EAST HARTFORD | MAIN ST # 1                                     | BROAD ST/MAPLE ST           | 30           | 9          | 31.67       | 13300 | 0.75       | Signal                       | Insignificant | 0.91                | Yes         |                        |
| 87   | 21.59     | HARTFORD      | VINE ST   | GREENFIELD ST               | 36           | 17         | 58.67       | 5600  | 1          | All-Way Stop                 | Significant   | 0.37                | Yes         |                        |
| 88   | 21.31     | WEST HARTFORD | BOULEVARD                                       | RAYMOND RD                  | 32           | 14         | 40.67       | 6100  | 1          | Signal                       | Insignificant | 0.52                | Yes         |                        |
| 89   | 21.00     | SOUTHINGTON   | ATWATER ST                                      | I-84 EB RAMP & MARION AVE   | 24           | 8          | 28.00       | 12400 | 0.75       | Signal                       | None          | 1.00                | Yes         |                        |
| 90   | 20.90     | HARTFORD      | TRUMBULL ST                                     | CHAPEL ST NORTH             | 25           | 6          | 25.00       | 7100  | 1          | Signal                       | Insignificant | 0.84                | No          | Signal System          |
| 91   | 20.75     | SOUTHINGTON   | MERIDEN WATERBURY TURNPIKE & I-84 WB EXIT       | 1-84 ENTRANCE RAMP          | 18           | 8          | 27.67       | 12700 | 0.75       | Signal                       | None          | 1.00                | Yes         |                        |
| 92   | 20.70     | CANTON        | RIVER RD (CT 179)                               | US 202                      | 24           | 8          | 23.00       | 11600 | 0.9        | Signal                       | None          | 1.00                | Yes         |                        |
| 93   | 20.64     | BERLIN        | MIDDLETOWN RD/BERLIN ST                         | MILL ST (CT 372)            | 22           | 11         | 29.00       | 13000 | 0.75       | Signal                       | None          | 0.95                | Yes         |                        |
| 94   | 20.32     | NEW BRITAIN   | SLATER RD/ALEXANDER DR & FIENEMANN RD           | FARMINGTON AVE              | 28           | 8          | 35.67       | 12800 | 0.75       | Signal                       | Insignificant | 0.76                | Yes         |                        |
| 95   | 19.67     | NEW BRITAIN   | CHESTNUT ST                                     | CT RTE 9 SB EXIT RAMP       | 9            | 6          | 19.67       | 4500  | 1          | Signal                       | None          | 1.00                | Yes         |                        |
| 96   | 19.57     | EAST HARTFORD | SILVER LANE (CT 502)                            | FORBES ST                   | 28           | 8          | 29.33       | 10800 | 0.9        | Signal                       | Insignificant | 0.74                | Yes         |                        |
| 97   | 19.54     | HARTFORD      | PROSPECT AVE                                    | WARRENTON AVE               | 32           | 11         | 35.67       | 7100  | 1          | All-Way Stop                 | Significant   | 0.55                | No          | ROW                    |
| 98   | 19.50     | WINDSOR       | KENNEDY RD                                      | ARCHER RD/I-91 NB EXIT RAMP | 15           | 7          | 21.67       | 10300 | 0.9        | Signal                       | None          | 1.00                | Yes         |                        |
| 99   | 19.39     | HARTFORD      | MARKET ST                                       | PLEASANT ST                 | 33           | 8          | 32.67       | 12800 | 0.75       | Signal                       | Moderate      | 0.79                | Yes         |                        |
| 100  | 18.87     | NEW BRITAIN   | STANLEY ST # 1                                  | EAST MAIN ST                | 25           | 9          | 28.33       | 12800 | 0.75       | Signal                       | Moderate      | 0.89                | Yes         |                        |