Title: DEPARTMENT-APPROVED LIST OF TRAFFIC ANALYSIS SOFTWARE PROGRAMS

Approved:
/s/ Richard D. Wilder
Richard D. Wilder, P.E., Deputy Chief Engineer (Design)
9/12/17

ADMINISTRATIVE INFORMATION:
• Effective Date: This issuance is effective upon signature.
• The table issued with this EB will be posted on the following web page: https://www.dot.ny.gov/divisions/engineering/design/dqab/hdm/chapter-5

PURPOSE: The purpose of this EB is to announce the capacity analysis, traffic operation modeling, and simulation software programs that are approved for use on Department projects.

TECHNICAL INFORMATION:
• This EB does not address travel demand software programs used by the Department and others for transportation planning and forecasting purposes on a regional or area-wide level. Information on planning level software should be directed to the Office of Policy, Planning and Performance.
• Since many of the software packages require continual use for users to obtain and maintain proficiency, software with limited licenses will not be available to all Department staff.
• Work files should be backed up to a safe location before upgrading to a new software version.
• Highway Design Manual Chapter 5, Subsection 5.2.3.2 provides Capacity Analysis Methodology and Subsection 5.2.3.7 provides Exceptions to the Required Capacity Analysis Methodology.

IMPLEMENTATION: For projects with Design Approval on or before December 31, 2017, the previously approved software programs listed in EB 13-034 may continue to be used. As an exception, newer versions of the software may be required as directed by a Deputy Chief Engineer.

Traffic analyses for projects with Design Approval after December 31, 2017 are to use the software shown in Table 1 of this issuance. While statewide software updates are being implemented, Department staff should use the most recent software version available to them. Consultants and permit applicants submitting analyses for Department review and approval should use the software listed in Table 1. Newer software versions may be used, provided the submission can be opened in the traffic analysis software versions listed in Table 1.

TRANSMITTED MATERIALS: This EB transmits a list of Department-approved traffic analysis software programs, as shown in the attached Table 1.

CONTACT: General questions regarding this issuance should be sent to Peter VanKampen, P.E., of the Design Bureau, at (518) 457-3272, or via e-mail at Peter.VanKampen@dot.ny.gov.

Questions on the installation of the programs, obtaining additional copies, accessing the Department servers, or accessing the Internet should be directed to your IT Coordinator. Questions regarding training should be directed to your Regional or Main Office training coordinator. Questions that arise during the analysis for planning or corridor studies should be directed to the Regional Planning Group.
Technical questions concerning the usage of the HCS 7 should be directed to your Regional Traffic Engineer. Technical questions from Department staff on Synchro/Sim Traffic, VISSIM or Sidra may be directed to Howard McCulloch, P.E., of the Design Bureau at (518) 485-7503, or via e-mail at Howard.McCulloch@dot.ny.gov. Technical questions from non-Department staff should be directed as shown in the following table.

### Table 1 – DEPARTMENT-APPROVED LIST OF TRAFFIC ANALYSIS SOFTWARE¹

<table>
<thead>
<tr>
<th>Program for New Analysis²</th>
<th>Description/Use</th>
<th>Department Staff</th>
<th>Contact for Consultants and other Non-Department Engineers</th>
</tr>
</thead>
<tbody>
<tr>
<td>HCS 7 Release 7.xx</td>
<td>This release of HCS 7 implements the HCM 6th Edition procedures.</td>
<td>Site</td>
<td>Regional IT Coordinator</td>
</tr>
<tr>
<td>Synchro Version 10.xx and SimTraffic Version 10.xx</td>
<td>Modeling and optimizing traffic signal timings. Analyzes coordinated systems and actuated signals. Can create time space diagrams. Models network of signalized and unsignalized intersections, including roundabouts. Visually displays 2D traffic flow for analysis and public information purposes.</td>
<td>Limited</td>
<td>Regional IT Coordinator</td>
</tr>
<tr>
<td>SIDRA Version 7.xx</td>
<td>Single-lane and multi-lane roundabout capacity analysis with up to eight legs, including one-way approach or exit conditions, slip lanes, continuous lanes, and short lanes. SIDRA can predict capacity during heavy flow conditions for multilane roundabouts with uneven approach demands based on lane by lane model. SIDRA allows you to compare roundabout design with signalized (actuated and pre-timed/fixed-time) and sign-controlled (two-way and all-way stop, yield) intersections in one package using consistent methodology.</td>
<td>Limited</td>
<td>Regional IT Coordinator</td>
</tr>
</tbody>
</table>

### NOTES:

1. Other programs may be used, consistent with the guidance provided in Chapter 5, Section 5.2.2 of the Highway Design Manual.
2. The version is listed with an “xx” for the latest free patch/update. Use the latest patch/update available for the specified version.
3. The Department site licenses are intended for NYSDOT staff only and do not extend to local governments or consultants. Non-Department parties can order copies from the contact list in the table above.