**Model Settings Dialog**

Model Parameters Tab – Use the following settings for the Delay and Queue parameters (if the recommended parameters for the Roundabouts dialog where followed, these parameters should already be unchecked):

- Exclude Geometry Delay: uncheck
- HCM Delay Formula: uncheck

**Additional considerations**

- **MOE**: Unlike other intersection control types, the primary MOE for roundabouts is not LOS. Instead, it is a mix of MOEs. For operational modeling, first attempt to balance each lane group to less than about 0.85 - 0.9 v/c with reasonable queues given local conditions (keeping in mind RAB queues are moving queues, which are not perceived to be as negative as static signal queues). MOE’s in order of importance are v/c, stop rate, queue, and then LOS. Conduct sensitivity analyses by adjusting volumes and geometrics. If v/c => 0.9, examine volume projections & consider microsimulation. In addition queues for 20 year analyses need not be considered & Peak Flow Factor should be set to 1.0. Consider practical 10 to 15 year solutions.

- **Network Function**: The network function allows users to evaluate how multiple, closely spaced intersections will interact. The control types can be any combination of roundabout, signal, two way stop, and pedestrian midblock crossing. Sidra is a good tool for evaluating closely spaced intersections containing one or more roundabouts if it is determined that microsimulation is not warranted (based on the complexity of the project, scope, or budget). WSDOT does not recommend using Sidra to produce MOE’s for intersection control types other than roundabouts.
Lane Geometry Dialog

Lane Configuration Tab - Unless the roundabout being analyzed already exists or there is a detailed drawing available, use the following Lane Widths:

- Single lane approach: minimum 15 ft
- Multilane approach: minimum 14 ft (each lane)

Roundabouts Dialog

Options Tab – Use the following settings for Roundabout Model Options parameters:

- Roundabout Capacity Model – Sidra Standard
- Roundabout LOS Method – Same as Signalized Intersections
- Delay Model – uncheck both Exclude Geometric Delay and HCM Delay Formula

Parameter Settings Dialog

Options Tab – Use the following settings for Options Tab:

- Delay & Degree of Saturation (SIDRA)