**Test Networks**

|  |  |  |
| --- | --- | --- |
|  | **Network** | **Purpose** |
| **1** | Straight network with and without incident and intersection for different demand levels  **2**  **3**  **D**  **O**  **4**  **2**  **3**  **D**  **O**  **5** | * Test flow model * Travel time * Queue length * Queue spillback * Introduce an incident * Introduce and intersection affect * Input parameter sensitivity |
| **2** | The network with alternative paths and different level of demands  **4**  **2**  **3**  **1**  **D**  **O**  **5** | * Assignment * Input parameter sensitivity |
| **3** | Linear system with the number of zones between  0-50 (I-95 Corridor in Miami). Loading the network with same OD demand matrix.  Number of zones = 31 | * Computational time * Congestion level |
| **4** | Freeway corridor with parallel arteries (I-95 in Miami with NW 7th Av. and NW 27th Av.). The number of zones 247. Loading the network with different percentile of static OD demand matrix.  Number of zones = 247 | * Computational time * Convergence * Shortest paths and assignment * The O-D estimation and model calibration will be done later as a case study using one of the tools. |
| **5** | Network with more than one corridor (Sub-area type) the number of zones 582. Loading the network with different percentile of static OD demand matrix.  Number of zones = 582 | * Computational time * Convergence * Shortest paths and assignment |
| **6** | Option 1: Broward Network - County Network with number of zones 982. Loading the network with different percentile of static OD demand matrix.  Number of zones = 982 | * Computational time * Convergence * Shortest paths and assignment * The O-D estimation and model calibration will be done later as a case study using one of the tools. |
| **7** | Option2: Jacksonville Area same as SHRP2 C10A activity based network. Loading the network with different percentile of static OD demand matrix. Number of zones = 2145  Number of zones = 2145 | * Computational time * Convergence * Shortest paths and assignment * The O-D estimation and model calibration will be done later as a case study using one of the tools. |
|  |  |  |