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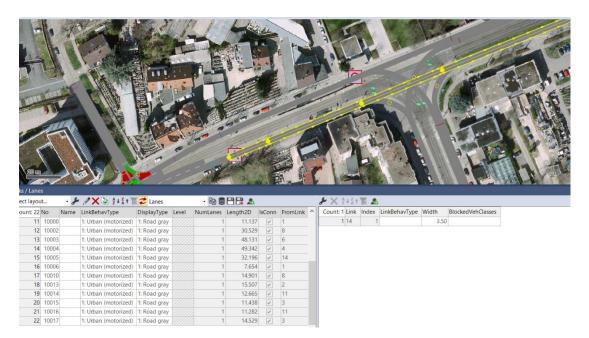
CEE 598 Topic: Traffic Simulation Modelling and Applications

Vissim Assignment

In this assignment the file Headquarters 10 in tutorial session was selected to be analyzed. All the information required are listed below:

1- Links

the links are constructed to simulate the lanes. The table below shows the number of links of the location and it consists of 22 links.



2- **Desirable Speed Decision:** it was found that there is no speed decision. So, the speed decision was added for the shown two lanes which is in yellow color. The speed decision for both lanes are 30km/hr.

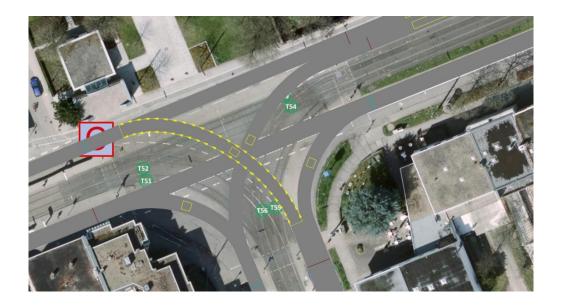


3- Reduced Speed Area:

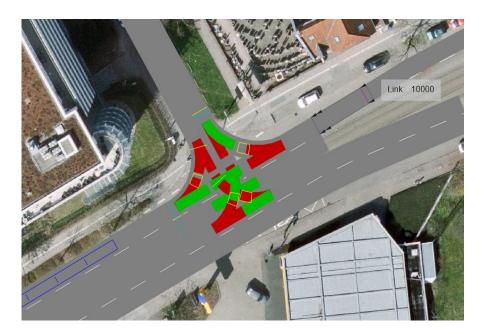
It can be used to simulate the speed limit. The speed reduced area was added for each lane as shown below in the yellow boxes, and the reduced speed was selected = 12km/hr.



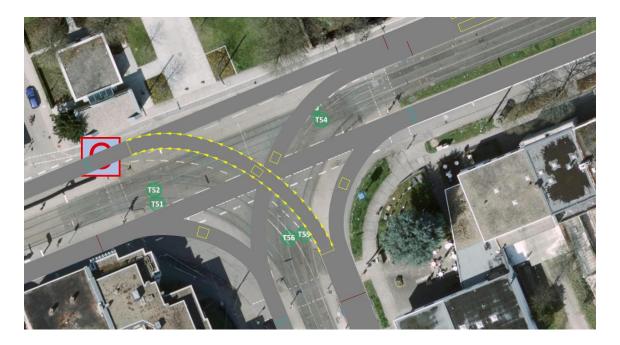
Also, the figure below shows four reduced speed area located at different connectors.



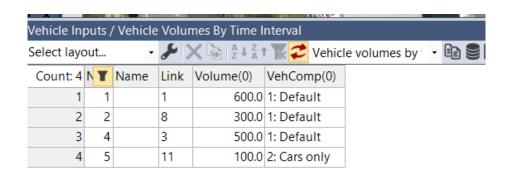
4- Conflict Areas: the figure below shows the conflict area at the three-leg intersection which is the lane in the green color has the right of way.



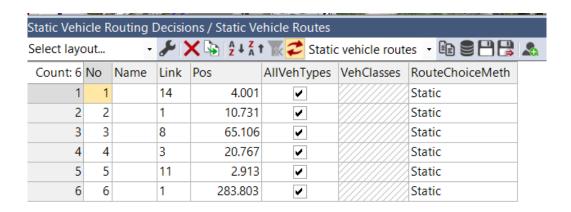
5- **Connectors:** the connector link can be added when the driver want to turn and change the direction. As shown below, it shows one connector and in this intersection, we can see four connectors.



6- **Vehicle Inputs**: table below shows the vehicle volumes which are varied between 300 to 600.



7- **Vehicle Routes**: table below shows all the vehicle routes (6 routes)



 Three paths were selected to be analyzed. After running the simulation, and because the free Vissim version used, I was not be able to collect the required data.