



PURPOSE

The purpose of this activity is to give you the opportunity to assemble information that you have prepared in previous design activities into a form that will help you to prepare your final report and presentation.

LEARNING OBJECTIVE

- Prepare a timing plan for an isolated actuated signalized intersection based on an analysis of traffic flow quality and intersection performance for a range of timing parameter values and phasing alternatives

REQUIRED RESOURCE

- Results from previous design activities

DELIVERABLE

- Prepare an Excel spreadsheet that includes your design values, as well as the tables and charts that support the selection of your design values

Tab 1: Title page with activity number and title, authors, and date completed

Tab 2: Phase timing sheet that includes the timing parameters for each phase: minimum green time, vehicle extension time, maximum green time, yellow time, and red clearance time

Tab 3: Ring barrier diagram showing your recommended phasing plan

Tab 4: Intersection sketch showing geometry, vehicle movements, and phase numbering

Tab 5: Performance data (delay and queue length data) that compares each step in your design process

TASK 1

Assemble the design elements that you developed as part of the activities listed in Table 35.

Activity	Design elements
28	Base network conditions
36	Maximum allowable headway
37	Passage time
43	Maximum green time
50	Left turn treatment
56	Yellow and red clearance times

Table 35. Activities and design elements

TASK 2

Prepare a side-by-side comparison of the performance of the base case and each of the iterations of your design. The comparison should include the performance measures (delay and queue length) that you used previously in these activities.

