



## PURPOSE

The purpose of this activity is to test your understanding of traffic controller operations by inferring the value of the three standard signal timing parameters by observing traffic flow and signal displays in the field.

## LEARNING OBJECTIVE

- Infer signal timing parameter values through field observations

## DELIVERABLE

- Prepare completed charts with data as required for the following tasks, including inferred values of the signal timing parameters

## INFORMATION

You will make field observations for one approach of the same intersection that you studied in Activity #15 (in Chapter 3) and for which you constructed a ring barrier diagram. You will record the detector status data and the signal display data for one approach of that intersection using forms shown in Table 10a and Table 10b. A major challenge of this activity is to infer the values of the timing parameters solely through observation of the vehicle arrival patterns and the signal displays on the approach that you are observing.

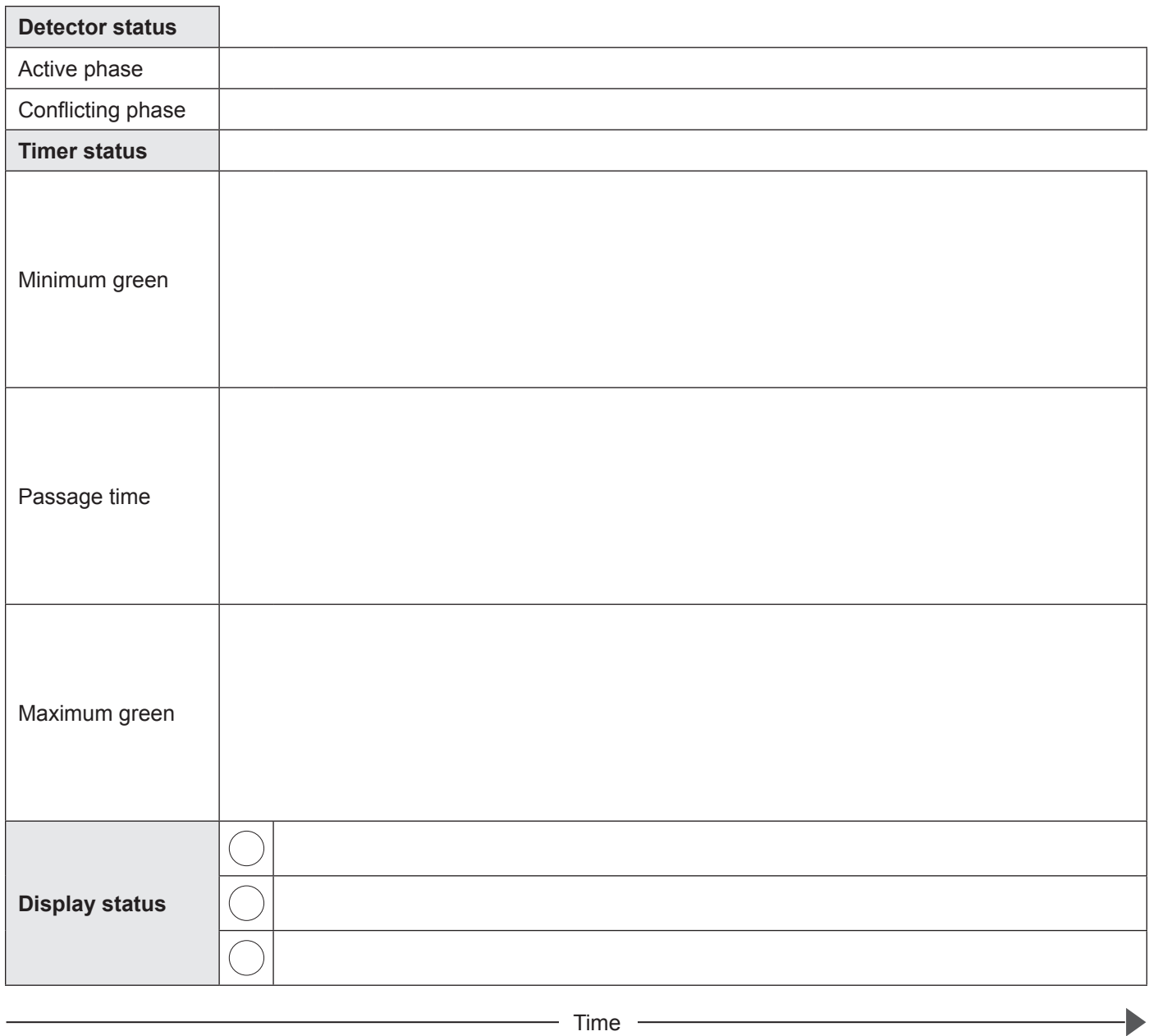
As you are collecting your data, look for traffic conditions that would allow you to observe the minimum green time, such as a queue of just one vehicle. Also, note that pedestrian calls may affect your timing observations, so it is best to not collect data when there is a pedestrian call.

## CRITICAL THINKING QUESTIONS

1. One complicating factor in the determination of your timing values is the interaction of your approach with the opposing approach. Describe how this interaction may affect the conclusions that you make about the timing values that have been set for your approach for the vehicle extension time.







**Figure 95.** Traffic control process diagram for field data observations