

## **Traffic Safety**

The Town of Situate is committed to ensuring the safety of our community during the construction and future operation of the new water treatment plant (WTP). Two roadway safety studies will be conducted during the design phase of the WTP to ensure that the roads stay safe.

A **site distance study** will use vehicle speed data gathered over a 24-hour period to determine visibility and sightline requirements for the average driver. This information will be considered in the design of the entrances to the treatment plant to minimize the impact of vehicles turning into and out of the plant.

A **traffic impact and access study** will contribute more roadway data to inform the creation of safe entry and exit points as well as give information on how traffic will be impacted and ways to minimize potential impacts. As a part of the traffic impact and access study:

- Current and historic traffic patterns will be closely examined on the roads surrounding the new plant to predict changes in traffic patterns and identify traffic mitigation methods.
  - Traffic data will be collected for a minimum of 72 hours to include patterns during both weekdays and weekends. Peak traffic data will also be collected separately during typical morning and afternoon rush hours during the weekdays and at midday on Saturday. Historical data will then be used to adjust the data collected.
  - The capacity of the roads will be determined and analyzed under current and proposed conditions.
  - To mitigate potential traffic concerns, solutions such as roadway widening and additional signage or pavement markers may be considered.
- Accident history for the past 3 years will be analyzed to minimize situations in which accidents occur.

These studies will be part of the project's submittals to the Town of Scituate's Planning Board.