

Chapter 8

EXISTING UTILITIES PLAN

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8 EXISTING UTILITIES PLAN

8.1 General

The existing utilities plan sheet became a requirement for signal design in the late 2000's at the request of a region that was experiencing utility conflict issues on signal projects. The inclusion of this plan sheet in the contract plans does NOT remove the requirement of the contractor to "call before you dig". Also, the signal designer is still responsible for working with the Region Utility Specialist to resolve all known utility conflicts prior to letting the project.

Utility conflicts should be identified early in the design process and resolved through the Region Utility Specialist PRIOR to letting the project!

8.2 When is this Plan Sheet Needed?

An existing utilities plans sheet is required for each intersection on the project if the work entails installing any poles, pedestals, cabinets, or conduit. These items can have a substantial impact to existing utilities due to their required foundation depth and/or height. In addition these items generally need to be installed in very specific locations with little room for placement tolerance, so addressing a utility conflict during construction can be very costly in either material costs and/or timelines.

An existing utilities plan sheet is recommended for each intersection for all other types of signal work if survey information for the utilities is available. It is not needed for signal work contained within existing signal appurtenances or the roadway (e.g. loop replacement).

8.3 What to Show on the Plan Sheet

The existing utilities plan sheet is generally shown at the scale of the detection plan sheet for each intersection, to show the location of utilities with respect to the major signal work. Due to the nature of interconnect/communication work (i.e. work spans a long distance and typically contains less critical design aspects with respect to utility conflicts), an existing utilities plan sheet is NOT required for interconnect/communication work located beyond the scale used to show the intersection.

The existing utility plan sheet should show the following features:

- ▶ All overhead and underground existing utility locations
- ▶ Right-of-way
- ▶ All new and existing signal appurtenances, except those located in the roadway such as loop detectors (e.g. poles, pedestals, mast arms, cabinets, junction boxes, conduit runs)
- ▶ The new roadway alignment and lane lines
- ▶ The existing edge of pavement if helpful for reference purposes
- ▶ North arrow
- ▶ Street name labels
- ▶ Stationing
- ▶ Lane use arrows

Use the survey provided line styles for the utilities. Do NOT label any signal appurtenances, just graphically show.

The following figures show typical examples of what is contained in an existing utility plan sheet.

Figure 8-1 | Existing Utility Plan Sheet Example 1

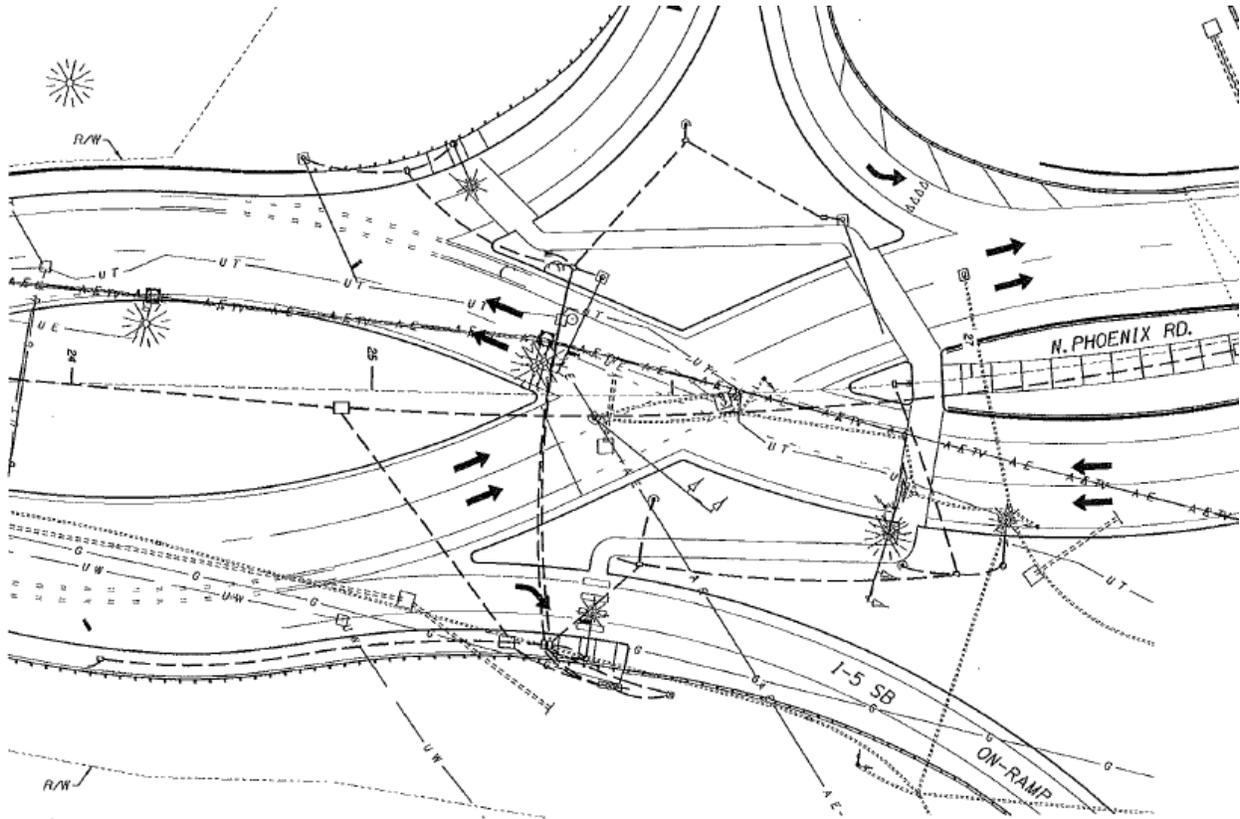


Figure 8-2 | Existing Utility Plan Sheet Example 2

