

### **Sec. 13.01 Introduction**

Subsurface Utility Engineering (SUE) involves managing risks associated with utility mapping at appropriate quality levels, utility coordination, and utility relocation design and coordination. These utility risks are managed by using designation and locating. Designation is defined as the process of using surface geophysical method or methods to interpret the presence of a subsurface utility and to mark its *approximate* horizontal location (designation) on the ground surface. Utility locating is defined as the process of exposing and recording the *precise* vertical and horizontal location of utilities (test-holes).

### **Sec. 13.02 Standards and Policy**

#### **Standards:**

The Department will follow the most current version of CI/ASCE 38-02 standard entitled “Standard Guideline for the Collection and Depiction of Existing Subsurface Utility Data” with the following requirements:

1. All submissions (designation or location) to the department shall contain the names and contact numbers for any utility shown thereon. Test-hole data sheets should contain the name and contact information for the each utility exposed.
2. All fiber optic (FO) lines shall be identified with the company name.
3. VDOT cell symbols and line styles will be used in lieu of the information shown in the ASCE guideline legend (see Figure 11-J in the Survey Manual, page 11-15).
4. Test-holes should not be returned to the Department as unknown. If the utility cannot be identified the department should be contacted immediately while mobilized on the project.
5. Designation and locations shall meet applicable APELSCIDLA minimum standards and regulations, procedures and practices outlined in the Department’s Survey Manual, and any other state codified regulations pertaining to land surveying in the Commonwealth.
6. Duct Banks shall be dimensioned in width and depth and located. Elevations shall be determined on all corners top and bottom.

In using this standard, it must be realized that this is not an all-inclusive set of rules and if situations are encountered, the department depends on the skill and initiative of all employees and consultants to resolve, or have these situations resolved efficiently and practically.

#### **Policy:**

All projects with buried utilities including water, gas, electric, telephone, television cables, or sanitary sewer force mains should be designated at quality level B unless a waiver is requested from the State Utility Manager or the State Survey Program Manager.