

## **SECTION 33 05 00 - COMMON WORK RESULTS FOR UTILITIES**

### **PART 1 - GENERAL**

#### **1.1 REFERENCES**

- A. City of Aurora Standards
- B. Denver Water

#### **1.2 SYSTEM PERFORMANCE REQUIREMENTS**

- A. Design Requirements
  - 1. Any utility piping that will be conveyed to or become owned by the City of Aurora must comply with the City of Aurora Standards. Coordinate with the University Project Manager to determine ownership of utility piping.
  - 2. Nonmetallic Utility Lines:
    - a. Provide an insulated 16 gauge tracer wire (or metallic tape) at all new nonmetallic utility lines outside the building envelope to indicate the utility's location to tracing equipment. Locate tape or wire either affixed to the utility, or, if metallic tape, buried with a 12 inch separation directly above the utility. Expose tracer wire at either end of the utility (above grade) and prominently mark with flag after backfill is completed.
    - b. Determine the appropriate point and method of termination with the University Project Manager and utility locator/document.
  - 3. Isolation of Utilities:
    - a. Provide proper means for isolation before entering the building.
  - 4. Utility Sleeves:
    - a. Provide tubing or pipe (not sheet metal) sleeves for all utility services passing through structural walls and slabs. Project all sleeves passing through slab floors a minimum of 2 inches above the slab and seal water tight to the slab.
    - b. Fill sleeves with a flexible gas tight caulking.
  - 5. Sanitary and Storm Sewerage:
    - a. Provide manholes at major junctions of exterior sewer lines and cleanouts on all other junctions.
    - b. Provide manhole covers with holes drilled in lid for use of lifter for removal.
    - c. Provide flat and level manhole covers free of projections in driveways and parking lots to avoid interference with snow removal equipment.

### **PART 2 - PRODUCTS (Not Applicable)**

### **PART 3 - EXECUTION (Not Applicable)**

**END OF SECTION 33 05 00**