

## **CEU Provider: CPD Subject Areas**

### **I. Gathering Information**

- A. Scope of work
  - 1. Client requirements
  - 2. Contract requirements
- B. Existing physical conditions
  - 1. Underground systems
    - a. Type
    - b. Location
  - 2. Underground substructures
    - a. Type
    - b. Location
- C. Authorities having jurisdiction
  - 1. Identification of contacts
  - 2. Regulatory documents
  - 3. Minimum requirements
- D. Utility availability
  - 1. Available water source, size, & pressure
  - 2. Available fuel gas
  - 3. Available sanitary and storm sewers
- E. Budget constraints
- F. Identification of project team members

### **II. Design**

- A. Site plan review for location, size, grade, etc.
  - 1. Sanitary systems
  - 2. Storm water systems
  - 3. Fuel gas systems
  - 4. Fire protection systems
  - 5. Service water systems
- B. System design
  - 1. DWV systems (Drainage, Waste, Vent)
  - 2. Storm water systems
  - 3. Service water systems
  - 4. Fuel gas systems
  - 5. Plumbing related alarm systems
  - 6. Fire protection systems
  - 7. Medical gas systems
  - 8. Private sewage disposal systems

9. Other advanced plumbing systems
10. Energy and water conservation
11. Coordination of systems

### **III. Specifications**

- A. Format of Specs
- B. Delineation of requirements not on drawings
- C. Specs of systems
  1. Plumbing
  2. Insulation
- D. Coordination with other specification divisions

### **IV. Construction Services**

- A. Submittal review
  1. Alternative methods, equipment, or materials
- B. Construction observation
  1. Compliance with documents
  2. Resolution of field problems
- C. Systems tests
- D. Changes in the field
  1. Review of recommendations
  2. Preparation and evaluation of change orders
- E. Review of operating and maintenance manual(s)
- F. Review of record drawings

### **V. Administration**

- A. Work Plans, schedules
- B. Budgets
- C. Personnel
- D. Quality management
- E. Coordination with other in-house departments
  1. Progress reports
  2. Communication
- F. Job file