

SECTION 32 84 00

PLANTING IRRIGATION

PART 1 - GENERAL

1.1 SUMMARY

- A. Section includes:
 - a. Subsurface greywater irrigation system
 - b. Distribution components
 - c. Irrigation zones and controls
 - d. Integration with greywater treatment system

1.2 RELATED SECTIONS

- A. Section 32 84 25 - Greywater Treatment and Irrigation System
- B. Section 32 90 00 - Planting

1.3 SYSTEM DESCRIPTION

- A. Subsurface irrigation system designed specifically for greywater distribution
- B. Components:
 - a. Distribution piping
 - b. Emitters
 - c. Zone controls
 - d. Monitoring systems

1.4 SUBMITTALS

- A. Product data:
 - a. Technical specifications for all components
 - b. Installation guidelines
 - c. Operation parameters
- B. Design Documentation:
 - a. Irrigation layout
 - b. Zone calculations
 - c. Flow rates
 - d. Distribution uniformity calculations

1.5 QUALITY ASSURANCE

- A. Manufacturer Requirements:
 - a. Must be installed by Leapfrog certified personnel
 - b. System design by manufacturer's engineers

- c. Performance verification by manufacturer

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Distribution Piping:
 - a. Type: Subsurface dripline
 - b. Material: Polyethylene
 - c. Pressure rating: 100 PSI
- B. Emitters:
 - a. Type: Pressure-compensating
 - b. Flow rate: 1 GPH
- C. Zone Controls:
 - a. Automatic zone valves
 - b. Pressure regulators
 - c. Air release valves

PART 3 - EXECUTION

3.1 INSTALLATION

- A. Contractor Required Services:
 - a. Layout verification
 - b. Dripline installation
 - c. System pressure testing
 - d. Integration with treatment system
 - e. Control system programming

3.2 FIELD QUALITY CONTROL

- A. Testing Requirements:
 - a. Distribution uniformity
 - b. Pressure verification
 - c. Flow rates
 - d. System integration

3.3 STARTUP

- A. System Initialization:
 - a. Flow verification
 - b. Control system setup

END OF SECTION