

*This section includes a guide specification for Beaver Plastics' TERMINATOR™ insulated sewage effluent disposal chambers. Refer also to Beaver's Product Description for detailed product properties, options, and other technical information. This section includes performance, proprietary, and descriptive type specifications; edit to avoid conflicting requirements.*

## **Part 1            General**

### **1.1                SECTION INCLUDES**

*In this article, select the components that are intended to be part of the content of this section and will not be included in other sections. Keep the statements brief and concise.*

- .1        Insulated effluent disposal (leaching) chambers manufactured of high density expanded polystyrene (EPS), used to distribute effluent flows from the septic tank into the soil.

### **1.2                RELATED SECTIONS**

- .1        Section [\_\_\_\_\_-\_\_\_\_\_]: Preparation of trenches and adjacent work to receive work of this Section.
- .2        Section 02540 – Septic Tank: Septic tank system.
- .3        Section [\_\_\_\_\_-\_\_\_\_\_]: Backfilling.
- .4        Section 15410 - Plumbing Piping: Building sanitary drainage piping; effluent discharge.

### **1.3                REFERENCES**

*List reference standards that are included within the text of this section. Edit the following as required to parallel any reference standards statements within this section. Acronyms used for well known standards (first example) and defined text for less or named standards (second example).*

- .1        AASHTO H-10 – Standard Specification for Highway Bridges Load Rating.
- .2        ASTM C578 – Standard Specification for Rigid, Cellular Polystyrene Thermal Insulation.
- .3        ASTM E84 – Standard Test Method for Surface Burning Characteristics of Building Materials.
- .4        ASTM D1621 - Standard Test Method for Compressive Properties Of Rigid Cellular Plastics.
- .5        CAN/ULC-S701 – Standard for Thermal Insulation, Polystyrene, Boards and Pipe Covering.

### **1.4                SUBMITTALS**

*Do not request submittals if drawings sufficiently describe the products of this section or if proprietary specifying techniques are used. The review of submittals increases the possibility of unintended variations to drawings, thereby increasing the Specifier's liability. The following submittals are intended for review and acceptability.*

- .1        Section [01300] [01 33 00]: Submission procedures.

- .2 Product Data: Provide product description, list of materials and locations.

*When manufacturer's instructions for specific installation requirements are referenced in PART 3 EXECUTION, include the following request for submittal of those instructions. Edit the PART 3 statements to avoid conflict with manufacturer's instructions.*

- .3 Manufacturer's Installation Instructions: Indicate special procedures for drainfield chamber installation.

## **1.5 SUBMITTALS AT PROJECT CLOSEOUT**

*The following submittals are for project close-out purposes.*

- .1 Section 01700: Submission procedures.  
.2 Accurately record actual locations and inverts of buried chambers.

## **1.6 QUALITY ASSURANCE**

- .1 Manufacturer: ISO 9001:2000 registered company.

*The Terminator product meets the AASHTO H-10 standard load rating of 7,200 kg (16,000 lb). Add the following paragraph if traffic loads will be anticipated.*

- .2 Traffic load rating: [\_\_\_\_\_] [AASHTO H-10].

## **1.7 DELIVERY, STORAGE, AND PROTECTION**

- .1 Section [01600] [01 61 00]: Transport, handle, store, and protect products.  
.2 Deliver, store and handle materials in accordance with manufacturer's written instructions.  
.3 Deliver materials in manufacturer's original, unopened, undamaged containers with identification labels intact.  
.4 Store materials off ground, protected from direct sunlight if product is to be exposed for one month or more.  
.5 Remove damaged or deteriorated products from site.

## **1.8 REGULATORY REQUIREMENTS**

*Use this article when a special code, regulation, or constructed assembly applies to the project; delete this article if none apply.*

- .1 Conform to [applicable] [\_\_\_\_\_] code and regulations for Work of this section.  
.2 Provide certificate of compliance from [authority having jurisdiction] [\_\_\_\_\_] indicating approval of systems.

**Part 2 Products**

**2.1 MANUFACTURERS**

*Select Type A for standard chambers installed at 600 mm (24") below grade, Type LP for shallow chambers installed at 300 mm (12") below grade, and Type AG for chambers at or above grade.*

- .1 Beaver Plastics, Model TERMINATOR Type [A] [LP] [AG].
- .2 Substitutions: [Refer to Section 01600.] [Not permitted.] [Refer to Instructions to Bidders.]

**2.2 MATERIALS**

- .1 Chambers: Rigid closed cell, expanded polystyrene (EPS) board, Structural Grade.
  - .1 Compressive Strength: Minimum 110 kPa (30 psi).
- .2 Profile: [Type A (Standard)] [Type LP (Low Profile)] [Type AG (At Grade)]

**2.3 ACCESSORIES**

- .1 EPS end caps, splash pans, and pipe supports

**2.4 FABRICATION**

- .1 Tightly assemble components into complete trench chamber sections.

**Part 3 Execution**

**3.1 EXAMINATION**

- .1 Verify existing conditions to Section [01700.] [\_\_\_\_\_].
- .2 Verify that septic tank, location and inverts are as indicated.

**3.2 PREPARATION**

- .1 Establish invert elevations for chamber components to be used in the system.
- .2 Prepare trenches same length as chambers.
- .3 Hand trim excavation to suit chambers arrangement. Remove stones, roots or other obstructions. Rake all trench soil surfaces to promote efficient effluent percolation.
- .4 Coordinate work with connections to septic tank piping outlet.

**3.3 INSTALLATION**

- .1 Install chambers in accordance with manufacturer's instructions.
- .2 Install chambers level over length of trench, securely connected, chamber to chamber.
- .3 Install inlet and end caps (and built-in splash pans when required) in each chamber line.

*Include the following paragraphs only if below grade (Type A or LP) chambers are specified in this project.*

- .4 Install filter bed to local building codes.
- .5 Backfill with soil, not containing heavy clay, silt or debris.

**3.4 PROTECTION OF FINISHED WORK**

- .1 Section [01700] [01 45 00]: Protecting installed work.
- .2 Do not permit [vehicular] traffic over effluent disposal field.

**END OF SECTION**