

StormGate™ Specifications

PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Precast *StormGate™*

1.2 RELATED SECTIONS

- A. Section []:

1.3 SUBMITTALS

- A. Contech Engineered Solutions, LLC or authorized precast supplier to submit shop drawing to contractor for engineer's approval.
- B. Contech Engineered Solutions, LLC to submit Operation and Maintenance Manual to contractor upon request.

PART 2 PRODUCTS

2.1 INTERNAL COMPONENTS

- A. All internal components are provided by Contech Engineered Solutions, LLC.
- B. The *StormGate™* weir: Shall be constructed of ASTM B209 5052 Aluminum sheet.

2.2 PRECAST CONCRETE COMPONENTS

- A. Precast Concrete: Shall be provided according to ASTM C478.
- B. Joint Sealant: Shall be Conseal CS-101 or Engineer approved.
- C. Steps: Shall be steel reinforced polypropylene steps, if required.

2.3 CONTRACTOR PROVIDED COMPONENTS

- A. Sub-base: Shall be six (6) inch minimum of $\frac{3}{4}$ inch minus rock, 95% compaction. Compact undisturbed sub-grade materials to 95% of

maximum density at +/- 2% of optimum moisture. Unsuitable material below sub-grade shall be replaced to site engineer' approval.

- B. Concrete (for concrete not covered by pre-cast specification above): Shall be 3000 psi, 28 day strength, 3/4 inch round rock, 4 inch slump maximum, placed within 90 minutes of initial mixing.
- C. Grout: Shall be non-shrink grout meeting the requirements of Corps of Engineers CRD-C588. Specimens molded, cured and tested in accordance with ASTM C-109 shall have minimum compressive strength of 6,200 psi. Grout shall not exhibit visible bleeding.
- D. Backfill: Shall be 3/4 inch minus rock (95% compaction), or as otherwise specified in the projects general technical specifications.
- E. Silicone Sealant: Shall be pure RTV silicone conforming to Federal Specification Number TT S001543A or TT S00230C or Engineer approved.

PART 3 EXECUTION

3.1 PRECAST CONCRETE VAULT

A. Contractor to grout all inlet and outlet pipes flush with interior wall. Contractor to grout interior walls.

B. Sanded PVC fittings shall be used on all PVC inlet and outlet pipes.

3.2 WEIRS: At project completion, weirs shall be set to specified elevation, leave and sealed at all joints with silicone sealant. Sealant shall be worked into joints from both sides.

3.3 PVC PIPING: Shall be joined in accordance with ASTM D2564.

3.4 CLEANUP: Remove all excess materials, rocks, roots, or foreign material, leaving the site in a clean, complete condition approved by the Engineer. All PVC and fiberglass filter components shall be free of any foreign materials including concrete and excess sealant.

END OF SECTION