STORMVAULT BIOFILTRATION (SVBF)

**SECTION B-B**

STORMVAULT BIOFILTRATION (SVBF)

**CONFIGURATION:** TREE BOX (TB)

**MODEL:** SVBF-TB 6X8

**HYDRAULICS**

- **FACE OF CURB & GUTTER LINE**
- **EDGE OF STREET PAVEMENT**

**TREATMENT**

- **STORM WATER QUALITY DESIGN FLOW (SQDF)** ≤ XX.X-CFS
- **STORM DRAIN DESIGN CONVEYANCE FLOW XXX-CFS**

**BIO SOILS FILTRATION MEDIA**

- **JENSEN’S SIERRA Blend**
  - **BIO SOIL MEDIA**
  - **VARIES**

**INLET WIDTH**

- 72”

**TREATMENT FLUX RATE**

- NOTE 9
  - 0.1 - GPM/FT²

**INFECTION**

- **BIOFILTRATION** of **SIZED THE ENTIRE SQDF CURB AND GUTTER A RATE OF ‐ INCHES/HR**

**CONSTRUCTION & INSTALLATION NOTES**

1. **CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.**
2. **THE CONNECTION BETWEEN THE INTERNAL DRAIN FIVING OF THE SURF SHALL BE MADE USING A CONNECTOR COMPATIBLE WITH ATM NCC, AS MADE BY KOB, SEAL, A CLO, OR APPROVED EQUAL.**
3. **JENSEN’S STORMVAULT BIOFILTRATION (SVBF) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 30-INCHES/HOUR WHEN USING JENSEN’S ENGINEERED SIERRA BLEND BIO SOIL MEDIA.**
4. **CAPTURED WATER QUALITY CONSTITUENTS:**
   - **PHOSPHORUS**
   - **SULFATE RESISTANT CEMENT**
   - **TOTAL AND DISSOLVED COPPER**
   - **TOTAL AND DISSOLVED ZINC**
   - **OIL & GREASE**
   - **HEAL FORM**

**CONSTRUCTION & INSTALLATION NOTES**

1. **CONTRACTOR TO PROVIDE FIELD PLANS OF THE ENTIRE SYSTEM.**
2. **THE CONSTRUCTION BETWEEN THE INTERNAL DRAIN FIVING OF THE SURF SHALL BE MADE USING A DRAIN CONNECTOR COMPATIBLE WITH ATM NCC, AS MADE BY KOB, SEAL, A CLO, OR APPROVED EQUAL.**
3. **CONSTRUCTION TO BE MADE USING ENGINEERED SIERRA BLEND BIO SOIL MEDIA.**
4. **ALL INLETS CAN BE PLACED IN ANY OF THE BOXES TO THE DESIGNER'S PREFERENCE.**
5. **JENSEN’S STORMVAULT BIOFILTRATION (SVBF) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 30-INCHES/HOUR WHEN USING JENSEN’S ENGINEERED SIERRA BLEND BIO SOIL MEDIA.**
6. **CAPTURED WATER QUALITY CONSTITUENTS:**
   - **PHOSPHORUS**
   - **SULFATE RESISTANT CEMENT**
   - **TOTAL AND DISSOLVED COPPER**
   - **TOTAL AND DISSOLVED ZINC**
   - **OIL & GREASE**
   - **HEAL FORM**

**MATERIALS & DESIGN PARAMETERS**

1. **ALL DIMENSIONS ARE IN DECIMAL INCHES.**
2. **CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F = 1,500 psi AT 28 DAYS.**
3. **THE FOUNDATION CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE IV V PORTLAND CEMENT.**
4. **VAULT SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ATM CAST & CB8.**
5. **ALL PRECAST CORNER COMPONENTS TO BE MANUFACTURED IN ACCORDANCE WITH ATM CAST & CB8.**
6. **IF REQUIRED, JENSEN WILL FURNISH VACUUM WITH FLUID-APPLIED WATERPROOFING COMPOUNDS AND FLEXIBLE DRAINAGE SYSTEMS.**
7. **BRIDGING STONE SHALL BE CLEANED, WASHED.**
8. **ALL PVC PIPE SHALL COMPLY TO ASTM D 3347-06-GS PIPE.**
9. **GROUNDWATER ELEVATION IS TO BE LEFT TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMVAULT SYSTEMS FOR HIGH-WATER CONDITIONS.**
10. **STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READILY AVAILABLE. CONTACT JENSEN STORMVAULT SYSTEMS FOR CUSTOM DESIGNS.**
11. **FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMVAULT SYSTEMS.**
12. **JENSEN STORMVAULT SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.**
13. **TREE GRATES TYPICALLY AVAILABLE IN 36” X 36” & 48” X 48”; OTHER GRATE SIZES AVAILABLE UPON REQUEST.**
14. **ALL CONCRETE DIMENSIONS, THICKNESSES, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN’S MANUFACTURING FACILITIES.**

**DISCLAIMERS, INCLUDING BUT NOT LIMITED TO:**

- **1.) ALL ELEVATIONS HAVE BEEN PROVIDED BY OTHERS, AND HAVE NOT BEEN VERIFIED BY JENSEN PRECAST. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.**
- **2.) THESE LAYOUT DRAWINGS ARE INTENDED TO SHOW OVERALL SYSTEM DESIGN ONLY. ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST MANUFACTURING FACILITIES. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.**
- **3.) SYSTEM DESIGN CRITERIA HAS BEEN PROVIDED TO JENSEN PRECAST. OTHERS ARE RESPONSIBLE FOR VERIFICATION THAT SYSTEM MEETS INTENDED APPLICATION.**
- **4.) FOUNDATION, AGGREGATE, AND SEALANT TO BE DESIGNED BY OTHERS.**

**CONTACT:**

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