**STORMVAULT BIOFILTRATION (SVBF)**

**CONFIGURATION: TREE BOX -TB**

**MODEL: SVBF-TB SXS**

**HYDRAULICS**

- STORMWATER QUALITY DESIGN FLOW (SQDF): 1.0 X X-CFS
- STORM DRAIN DESIGN CONVEYANCE FLOW: 5 X X-CFS
- RETURN FREQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW: XX-YRS

**TREATMENT**

**BIO SOIL MEDIA UNITIZED**

- BIO SOIL MEDIA: JENSEN'S SIERRA BLEND
- BIO SOIL MEDIA: UNITIZED

**TREATMENT FLUX RATE**

- BIORETENTION & INFILTRATION
- BIOFILTRATION
- TO
- AT

**BIOFILTRATION**

- (DESIGNED & SIZED)
- THE ENTIRE SQDF.

**MATERIALS & DESIGN PARAMETERS**

1. ALL DIMENSIONS ARE IN DECADES.  
2. CONCRETE SHALL HAVE A MINIMUM COMPRRESSIVE STRENGTH F1 = 1,500 psi AT 28 DAYS.  
3. THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE V OR HIGH SULFATE RESISTANT CEMENT ACCORDING TO ASTM C 150.  
4. VAULT SECTIONS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C 846.  
5. ALL PRECAST CONCRETE COMPONENTS TO BE MANUFACTURED IN AN IPA CERTIFIED PLANT.  
6. IF REQUIRED, DESIGN WILL FURNISH VALVES WITH LIQUID APPLIED WATERPROOFING COATING AROUND VICINITY OF VALVES.  
7. BRIDGING STONE SHALL BE CLEAN, WASHED.  
8. ALL PIPE PVC SHAL CONFORM TO ASTM D 2166/304/355 PIPE.  
9. GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.  
10. STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READY AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS.  
11. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.  
12. JENSEN STORMWATER SYSTEMS WILL FURNISH ALL MATERIALS AS SHOWN, UNLESS OTHERWISE SPECIFIED.  
13. TREE GRATES TYPICALLY AVAILABLE IN 36" X 36" & 48" X 48": OTHER GRATE SIZES AVAILABLE UPON REQUEST.  
14. ALL CONCRETE TEMPERATURE THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.

**CONSTRUCTION & INSTALLATION NOTES**

- 1. ALL CONCRETE COMPONENTS SHALL MEET THE REQUIREMENTS OF TYPE V OR HIGH SULFATE RESISTANT CEMENT ACCORDING TO ASTM C 150.  
- 2. CONSTRUCTION MUST CONFORM TO ALL FIRE PROTECTION REGULATIONS IN FIELD AS NEEDED.  
- 3. CONTRACTOR TO PROVIDE FIELD TO INSTALLATION.  
- 4. CONTRACTOR TO PROVIDE FIELD TO INSTALLATION.  
- 5. THE BICYCLE LANE AND THE SVBF SHALL BE MADE USING A RESIDENT CONNECTOR CORRESPONDING TO ASTM C323, AS MADE BY X-RAY SEAL, A LOCA, OR APPROVED EQUAL AND SHALL BE WATERPROOF.  
- 6. VEGETATION, FOUNDATION, SURFACE, AND MATERIALS TO BE DESIGNED BY OTHERS.  
- 7. THE SYSTEM SHALL BE CONFORMED TO AN OPEN TOP TANK SYSTEM TO RECEIVE SURFACE FLOW FROM CURB INLET, GUTTER, AND LINCOLN STREET.  
- 8. SVBF MAY BE DEPOSITED IN UNFINISHED TOP OF WALLS TO BE POURED IN FIELD ALLOWING FOR CONTINUITY OF CONSTRUCTION OF STREETSCAPE AND LANDSCAPE FEATURES.  
- 9. INLETS THROUGH CURB CAN BE LOCATED ON ANY SIDE OF THE BOX AND THEIR DIMENSIONS VARY FOR DESIGN.