STORMVAULT BIOFILTRATION (SVBF) CONFIGURATION: TREE BOX (-TB)
MODEL: SVBF-TB 6X12

HYDRAULICS

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

TREATMENT

BIO SOILS FILTRATION MEDIA

PUBLIC DOMAIN BIO SOIL MEDIA

JENSEN'S SIERRA BLEND ™

BIO SOIL MEDIA UNIFIED TREATMENT FLUX RATES

HYDRAULIC SURFACE LOADINGS (NSL)

0.1-GPM/FT²

0.321 -CFS

0.016-CFS

1.0-GPM/FT²

0.6-CFS

2.0-GPM/FT²

7.2-GPM

144-GPM

*DESIGN BRIEFCENTRAL & RAINFALL TREE/PLANTER STORMVAULT BIOFILTRATION SIZED TO TREAT THE ENTIRE SQDF AT:
A RATE OF 0.1 INCHES/MIN WHEN USING SPECIFIED PUBLIC DOMAIN BIO SOIL MEDIA.

JENSEN'S BIORE TENTION (BIO) SOILS

*JENSEN'S BIORE TENTION & INFILTRATION TREE/PLANTER STORMVAULT BIOFILTRATION SIZED TO TREAT THE ENTIRE SQDF AT:
A RATE OF 0.016 INCHES/MIN WHEN USING JENSEN'S SIERRA BLEND BIO SOIL MEDIA.

CONSTRUCTION & INSTALLATION NOTES

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAIN RIFFING OF THE SVBF SHALL BE MADE USING CONNECTORS CONFORMING TO ASTM C323, AS MADE BY KOR-SEAL, A-LOK, OR APPROVED AND SHALL BE WATER TIGHT.
3. CONTRACTOR MAY ALSO GRAB ALL PIPES PENETRATIONS IN PRECAST OPENINGS IN FIELD IF NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD-PIERED CUBS TO THE ELEVATIONS SHOWN ON THE DRAWINGS AS NEEDED.
5. THE CONNECTION BETWEEN THE SVBF DRAIN LINE AND THE SVBF SHALL BE MADE USING A RESIDENTIAL CONNECTOR CONFORMING TO ASTM C323, AS MADE BY KOR-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATER TIGHT.
6. VEGETATION, FOUNDATION, SUBGRADE, AND BACKFILL TO BE DESIGNED BY OTHERS.
7. SVBF CAN BE RAISED TO RECONFIGURE AS AN OPEN TOP SHELL TO RECEIVE SURFACE FLOW FROM ALL SIDES, ECLAMINATING TOP SLAB AND TREE GRATES.
8. SVBF MAY BE DEPLOYED WITH UNRESTRICTED TOPS TO BE POURED IN FIELD ALLOWING CONSTRUCTION OF CONTINUOUS STREET CURBS AND LANDSCAPE FEATURES.
9. WATERS THROUGH SVBF-CAN BE LOCATED ON ANY SIDE OF THE BOX AND THEIR DIMENSIONS VARIES PER DESIGN.

MATERIALS & DESIGN PARAMETERS

1. ALL DIMENSIONS ARE IN DECIMAL INCHES.
2. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH F'c = 5,000 psi AT 28 DAYS.
3. THE PORTLAND CEMENT USED IN THE PRECAST SECTION SHALL MEET THE REQUIREMENTS OF TYPE I CEMENT PER AASHTO C 150.
4. VERTICAL SURFACES DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C 150 C 75.
5. CONCRETE PIPE MANUFACTURED FROM CONCRETE GRADE V C 145.
6. FREE OF UNPROCESSED MATERIALS, PESTS, OR OTHER CONTAMINANTS.
7. IF REQUIRED, JENSEN'S BVF RAINFALL WALLS TO BE WP 0.5 LOOP-16 FIRE.
8. GROUNDWATER ELEVATION IS ASSUMED TO BE BELOW THE BOTTOM OF PRECAST STRUCTURE. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
9. STANDARD CONFIGURATION IS SHOWN. ALTERNATE CONFIGURATIONS ARE READILY AVAILABLE. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS. www.jensenstormwatersystems.com
10. FOR COMPLETE DESIGN AND PRODUCT INFORMATION, CONTACT JENSEN STORMWATER SYSTEMS.
11. JENSEN STORMWATER SYSTEMS TO PROVIDE ALL MATERIALS AS SHOWN, UNLESS OTHERWISE NOTED.
12. TREE GRATES TYPICALLY AVAILABLE IN 30" X 30" & 48" X 48" OTHER GRATES SIZABLES AVAILABLE UPON REQUEST.
13. ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.