**STORMVAULT BIOFILTRATION (SVBF)**

**STORMWATER QUALITY DESIGN FLOW (SQDF)**

**RETURN FREQUENCY / PERIOD OF PEAK DESIGN CONVEYANCE FLOW**

**TREATMENT**

**BIO SOLS FILTRATION MEDIA**

**PUBLIC DOMAIN**

<table>
<thead>
<tr>
<th>MEDIA</th>
<th>JENSEN'S SIERRA BLENDO **</th>
<th>10 in/yr</th>
<th>183 in/yr</th>
</tr>
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<tr>
<td>LOADING RATE (HSLR)</td>
<td>0.1-GPM/FT²</td>
<td>2-GPM/FT²</td>
<td></td>
</tr>
<tr>
<td>MODEL</td>
<td>SVBF-UV 4X6.5</td>
<td>2.6-GPM</td>
<td>52-GPM</td>
</tr>
</tbody>
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**CONSTRUCTION & INSTALLATION NOTES**

1. CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS IN FIELD PRIOR TO INSTALLATION.
2. THE CONNECTION BETWEEN THE INTERNAL DRAIN PIPING OF THE SVBF AND THE BOX SHALL BE MADE USING A RESILIENT CONNECTOR CONFORMING TO ASTM C233, AS MADE BY KOR-IN-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATERPROOFED.
3. CONTRACTOR MAY ALSO GROUT ALL PVC FITTINGS IN PRECAST CONCRETE OPENINGS IN FIELD AS NECESSARY.
4. CONTRACTOR TO PROVIDE FIELD POUR OF CURB TO THE ELEVATIONS SHOWN ON THE SITE DRAWINGS SHOWN.
5. WHERE THE CONNECTION BETWEEN THE STORMVAULT AND THE BOX MAY BE MADE USING A RESILIENT CONNECTOR CONFORMING TO ASTM C233, AS MADE BY KOR-IN-SEAL, A-LOK, OR APPROVED EQUAL AND SHALL BE WATERPROOFED.
6. VEGETATION, FOUNDATION, SURFACING, AND BARROW TO BE DESIGNED BY OTHERS.
7. BOX MAY BE COVERED WITH UNFINISHED TOP OF WALL TO BE FINISHED IN FIELD-BORING FOR CONSTRUCTION OF CONTINUOUS STRIPED BREAKWATER OR LANDSCAPE FEATURES.
8. INLET PIPE CAN BE LOCATED ON ANY SIDE OF THE BOX AND THE SIDE MAY VARY FOR DESIGN.

**MATERIALS & DESIGN PARAMETERS**

1. ALL DIMENSIONS ARE IN DECIMAL INCHES.
2. CONCRETE SHALL HAVE A MINIMUM COMpressive F'c 1,000 psi AT 28 DAYS.
3. THE PORTLAND CEMENT USED IN THE PRECAST CONCRETE SHALL MEET THE REQUIREMENTS OF THE CONSTRUCTION AND PERMITS AND SHALL APPEAR TO BE LUMPY IN ACCORDANCE WITH ASTM C150.
4. VALVE SETTINGS DESIGNED AND MANUFACTURED IN ACCORDANCE WITH ASTM C668.
5. ALL MATERIALS SHALL BE SHOWN TO BE SHOWN TO BE SHOWN TO BE SHOWN TO BE SHOWN TO BE SHOWN TO BE SHOWN TO BE SHOWN TO SMOOTH.
6. IF REQUIRED, JENSEN WILL FILL CASE WITH FLUID APPLIED WATERPROOFING IN ACCORDANCE WITH ASTM C857 OR SHOWN.
7. BRIDGING STONE SHALL BE CLEAN, WASHED.
8. ALL PVC PIPE SHALL BE CONFORM TO ASTM D1248, PVC TYPE.
9. GROUNDWATER ELEVATION IS ADJACENT TO THE BOTTOM OF PRECAST STRUCTURE.
10. CONTACT JENSEN STORMWATER SYSTEMS FOR HIGH GROUNDWATER CONDITIONS.
11. STANDARD CONFIGURATION IS SHOWN, ALTERNATIVE CONFIGURATIONS ARE READILY AVAILABLE.
12. CONTACT JENSEN STORMWATER SYSTEMS FOR CUSTOM DESIGNS.
13. ALL CONCRETE COMPONENT THICKNESSES, DIMENSIONS, AND JOINT ORIENTATIONS MAY VARY ACROSS JENSEN PRECAST'S MANUFACTURING FACILITIES.

**JENSEN'S SIERRA BLENDO**

1. JENSEN'S STORMWATER BIOFILTRATION (SVBF) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 200 INCHES/EDDY/HOUR WHEN USING JENSEN'S ENGINEERED SIERRA BLENDO BIO SOLS MEDIA.
2. **JENSEN'S STORMWATER BIOFILTRATION (SVBF) DESIGNED AND SIZED TO TREAT THE ENTIRE SQDF AT A RATE OF 80 INCHES/EDDY/HOUR WHEN USING JENSEN'S ENGINEERED SIERRA BLENDO BIO SOLS MEDIA.**

**FRAMEWORK**

SVBF-UV 4X6.5 PROJECT NAME

T. Schmaling

5/29/2020

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