STORMVAULT COALESCING PLATE SEPARATOR
MODEL: SVCPS-3/8-20

SYSTEM AND TREATMENT FLOW DESIGN:

WESTERLY QUALITY TREATMENT FLOWRATE (WQTF)
200-GPM (0.45-CFS)

TARGET EFFLUENT CONCENTRATION
25 MG/L

TARGET MAXIMUM PARTICLE SIZE TO BE REMOVED
42.5 μm (325 Mesh)

SPACING BETWEEN LAMELLA PLATES
37

NUMBER OF 14" WIDE x 28.8" LONG ALUMINUM PLATES
3

NUMBER OF LAMELLA PLATE STACKS
2

NUMBER OF LAMELLA PLATES PER STACK
37

LAMELLA PLATE TREATMENT PERFORMANCE NOTES:

1. THE STORMVAULT COALESCING PLATE SEPARATOR SYSTEM (LAMELLA) IS EFFECTIVE IN REDUCING OIL DROPLETS DOWN TO 15 MG/L AND TSS CONCENTRATION DOWN TO 50 MG/L IN THE EFFLUENT FLOW

LAMELLA PLATE DESIGN ASSUMPTIONS:

MEAN OIL DROPLET SIZE
130μm

INFLUENT CONCENTRATION
200 MG/L

SPECIFIC GRAVITY OF SEDIMENT PARTICLE
2.65

TREATMENT RATE OF OPERATION
6000 GPM

SEDIMENT PARTICLE SIZE DISTRIBUTION
PSD BASED ON ACCUSIZER ANALYSIS

1. THE STORMVAULT COALESCING PLATE SEPARATOR SYSTEM (LAMELLA) IS MANUFACTURED USING HIGH GRADE ALUMINUM.
2. FOR WATER QUALITY DISCHARGE TO STORM SYSTEM UNIT REQUIRING DIVERSION/DEPASSE VALVE/MANHOLE, SEE JENSEN INVERTER STRUCTURE.
3. SOME INTERNAL COMPONENTS NOT SHOWN FOR CLARITY
4. GENERAL NOTES:
5. SCHEDULED COMPONENTS NOT SHOWN FOR CLARITY
6. GENERAL NOTES:
7. ALL INTERNAL COMPONENTS INSTALLED BY JENSEN UNLESS OTHERWISE SPECIFIED.
8. FRAMEWORK ASSEMBLY
9. REMOVABLE COALESCING FRAMEWORK ASSEMBLY
10. MATERIAL PROVIDER
11. FRAMEWORK ASSEMBLY
12. PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.
13. PANEL DETAILS AND PANEL WIRING DRAWINGS AVAILABLE TO SUPPORT OPTIONAL LEVEL ALARM SENSOR SYSTEM INSTALLATION.
14. SPACING BETWEEN LAMELLA PLATES
15. MEAN OIL DROPLET SIZE
16. INFLUENT CONCENTRATION
17. SPECIFIC GRAVITY OF SEDIMENT PARTICLE
18. TREATMENT RATE OF OPERATION
19. SCHEDULED COMPONENTS NOT SHOWN FOR CLARITY
20. ALL INTERNAL COMPONENTS INSTALLED BY JENSEN UNLESS OTHERWISE SPECIFIED.
21. MATERIAL PROVIDER
22. FRAMEWORK ASSEMBLY
23. PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.
24. PANEL DETAILS AND PANEL WIRING DRAWINGS AVAILABLE TO SUPPORT OPTIONAL LEVEL ALARM SENSOR SYSTEM INSTALLATION.

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN INCHES.
2. CONTRACTOR TO VERIFY ALL DIMENSIONS OF ALL PRECAST PIECES IN FIELD.
3. VERIFY DIMENSION AND CONDITION OF REMOVABLE ALUMINUM FRAME AND MEDIA-PACKS BEFORE INSTALLATION.
4. VERIFY SUBGRADE/ELEVATION BEFORE PLACING PRECAST COMPONENTS OR BACKFILLING.
5. APPLY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF STRUCTURE.
6. VERIFY SUBBASE/SUBGRADE ELEVATION BEFORE PLACING PRECAST PIECES OR BACKFILLING.
7. VERIFY BUTYL MASTIC AND/OR GROUT TO SEAL JOINTS OF STRUCTURE.
8. BLOCK AND/OR GROUT PACK BENEATH FRAMES AND COVERS TO MATCH FINISHED GRADE.
9. TOP & BOTTOM SLABS AND WALL THICKNESS SHALL BE DESIGNED FOR SPECIFIC PROJECT INSTALLATION DEPTHS.

MATERIAL:

1. PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.
2. PANEL DETAILS AND PANEL WIRING DRAWINGS AVAILABLE TO SUPPORT OPTIONAL LEVEL ALARM SENSOR SYSTEM INSTALLATION.
3. FRAMEWORK ASSEMBLY
4. PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.
5. Panel Details and Panel Wiring Drawings Available to Support Optional Level Alarm Sensor System Installation.
6. FRAMEWORK ASSEMBLY
7. PRECAST VAULT MATERIALS AND MANUFACTURING METHODS SHALL CONFORM TO ALL APPLICABLE ASTM AND ASSHTO SPECIFICATIONS.
8. PANEL DETAILS AND PANEL WIRING DRAWINGS AVAILABLE TO SUPPORT OPTIONAL LEVEL ALARM SENSOR SYSTEM INSTALLATION.

MATERIAL LIST - PROVIDED WITH UNIT:

<table>
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<tr>
<th>QTY</th>
<th>COMPONENT DESCRIPTION</th>
<th>MATERIAL PROVIDER</th>
<th>RESPONSIBLE INSTALLER</th>
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<tbody>
<tr>
<td>1</td>
<td>6&quot; Ø INLET AND OUTLET PIPE</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>1</td>
<td>6&quot; Ø INLET &amp; OUTLET TEE</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>1</td>
<td>6&quot; Ø INLET AND OUTLET TEE AND TEE</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
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<tr>
<td>1</td>
<td>REMOVABLE COALESCING FRAMEWORK ASSEMBLY</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
</tr>
<tr>
<td>2</td>
<td>OIL &amp; GREASE SORBENT MATS OR PADS</td>
<td>JENSEN</td>
<td>CONTRACTOR</td>
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<tr>
<td>1</td>
<td>8&quot; Ø CAST IRON FRAME AND COVER</td>
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<td>OIL &amp; GREASE SORBENT MATS</td>
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<td>CONTRACTOR</td>
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</table>

STORMVAULT COALESCING PLATE SEPARATOR
MODEL: SVCPS-3/8-20

PLAN AND PROFILE

FRAMEWORK ASSEMBLY

PROFILE VIEW

PLAN VIEW

REV. DWG. DATE:
ORIG. DWG. DATE:

SCALE: 1" = 30"

FRAMEWORK ASSEMBLY

PROFILE VIEW

PLAN VIEW

20-GPM (0.045-CFS)

MODEL: SVCPS-3/8-20

REV. DWG. DATE:
ORIG. DWG. DATE:

SCALE: 1" = 30"

FRAMEWORK ASSEMBLY

PROFILE VIEW

PLAN VIEW

20-GPM (0.045-CFS)