### Phase I

<table>
<thead>
<tr>
<th>Description</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Inflow</td>
<td>2585.5 ft²</td>
</tr>
<tr>
<td>Exposed Area</td>
<td>347.7 ft²</td>
</tr>
<tr>
<td>Slope</td>
<td>10%</td>
</tr>
<tr>
<td>Inflow</td>
<td>2585.5 ft³</td>
</tr>
<tr>
<td>Exposed Area</td>
<td>347.7 ft³</td>
</tr>
<tr>
<td>Slope</td>
<td>10%</td>
</tr>
</tbody>
</table>

**FLOW EQUALIZATION SIZING**

- **Design Flow**: 25,855 gpd
- **Effective Flow Area**: 3,477 sq. ft.
- **Effective Flow Depth**: 10 ft
- **Total Volume of Water Surface**: 83,762 gal
- **Reactor Volume of Water Surface**: 11,484 gal
- **Reactor Volume of Water Surface**: 82,273 gal
- **Reactor Volume of Water Surface**: 11,888 gal

**Extended Aeration Sizing**

- **F & M Activity**: 2.8
- **Aerated Sludge Volume**: 1,035,000 gal
- **Aerated Sludge Volume**: 1,035,000 gal
- **Total Volume**: 1,035,000 gal
- **Total Volume at Maximum Depth**: 912,600 gal
- **Total Volume of Exposed Area**: 912,600 gal
- **Organic Loading**: 10 lb/1000 gal/day

**Secondary Clarification Sizing**

- **Sludge Rate**: 2.1 lb/1000 gal/day
- **Settling Area**: 24,900 sq. ft.
- **Total Surface Area for Settlers**: 24,900 sq. ft.
- **Total Volume of Settlers**: 1,035,000 gal
- **Settling Volume**: 1,035,000 gal
- **Settling Volume**: 1,035,000 gal

**Aerated Sludge Holding**

- **Midpoint Volume of Water Surface**: 83,762 gal
- **Volume of Water Surface at Maximum Level**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal

**Main Blowers**

- **Midpoint Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal

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### Phase II

**Aeration Tanks**

- **Effective Flow Area**: 3,477 sq. ft.
- **Effective Flow Depth**: 10 ft
- **Total Volume of Water Surface**: 83,762 gal
- **Reactor Volume of Water Surface**: 11,484 gal
- **Reactor Volume of Water Surface**: 82,273 gal
- **Reactor Volume of Water Surface**: 11,888 gal

**Extended Aeration Sizing**

- **F & M Activity**: 2.8
- **Aerated Sludge Volume**: 1,035,000 gal
- **Aerated Sludge Volume**: 1,035,000 gal
- **Total Volume**: 1,035,000 gal
- **Total Volume at Maximum Depth**: 912,600 gal
- **Total Volume of Exposed Area**: 912,600 gal
- **Organic Loading**: 12.5 lb/1000 gal/day

**Secondary Clarification Sizing**

- **Sludge Rate**: 2.1 lb/1000 gal/day
- **Settling Area**: 24,900 sq. ft.
- **Total Surface Area for Settlers**: 24,900 sq. ft.
- **Total Volume of Settlers**: 1,035,000 gal
- **Settling Volume**: 1,035,000 gal
- **Settling Volume**: 1,035,000 gal

**Aerated Sludge Holding**

- **Midpoint Volume of Water Surface**: 83,762 gal
- **Volume of Water Surface at Maximum Level**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal

**Main Blowers**

- **Midpoint Volume of Water Surface**: 83,762 gal
- **Total Volume of Water Surface**: 83,762 gal