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### Dimensions and Quantities for One U-Endwall

### With Baffles

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>D</th>
<th>Area (in²)</th>
<th>L</th>
<th>B</th>
<th>C</th>
<th>P</th>
<th>G</th>
<th>Reinforcement</th>
<th>Concrete</th>
<th>Steel Sheet</th>
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<tbody>
<tr>
<td>8&quot;</td>
<td>.63</td>
<td>3'-3&quot; x 7&quot;</td>
<td>3&quot;</td>
<td>6&quot;</td>
<td>4&quot;</td>
<td>2&quot;</td>
<td>4# 4</td>
<td>2# 4</td>
<td>1.23</td>
<td>72</td>
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<tr>
<td>10&quot;</td>
<td>.71</td>
<td>3'-3&quot; x 13&quot;</td>
<td>5&quot;</td>
<td>8&quot;</td>
<td>6&quot;</td>
<td>3&quot;</td>
<td>4# 4</td>
<td>2# 4</td>
<td>1.77</td>
<td>98</td>
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<tr>
<td>12&quot;</td>
<td>.78</td>
<td>3'-3&quot; x 19&quot;</td>
<td>7&quot;</td>
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<td>8&quot;</td>
<td>4&quot;</td>
<td>4# 4</td>
<td>2# 4</td>
<td>3.14</td>
<td>120</td>
</tr>
<tr>
<td>15&quot;</td>
<td>.81</td>
<td>3'-3&quot; x 25&quot;</td>
<td>9&quot;</td>
<td>12</td>
<td>10</td>
<td>5&quot;</td>
<td>4# 4</td>
<td>2# 4</td>
<td>4.91</td>
<td>185</td>
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</table>

### Without Baffles

<table>
<thead>
<tr>
<th>Pipe Size</th>
<th>D</th>
<th>Area (in²)</th>
<th>L</th>
<th>B</th>
<th>C</th>
<th>P</th>
<th>G</th>
<th>Reinforcement</th>
<th>Concrete</th>
<th>Steel Sheet</th>
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<td>.63</td>
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<td>3&quot;</td>
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<td>4&quot;</td>
<td>4# 4</td>
<td>2# 4</td>
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<td>4.91</td>
<td>185</td>
</tr>
</tbody>
</table>

### General Notes

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### Dimensional Details

#### Dimensions and Quantities for One U-Endwall

<table>
<thead>
<tr>
<th>Slope</th>
<th>1:3</th>
<th>1:4</th>
<th>1:6</th>
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<tbody>
<tr>
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<td>0.10</td>
<td>0.10</td>
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<tr>
<td>18&quot;</td>
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<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>24&quot;</td>
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<td>0.10</td>
<td>0.10</td>
</tr>
<tr>
<td>30&quot;</td>
<td>0.10</td>
<td>0.10</td>
<td>0.10</td>
</tr>
</tbody>
</table>

#### Reinforcing Details

- **Bars H**: Size varies.
- **Bars V**: Size varies.

#### Baffles

- **Concrete Cu. Yd.**
  - 15": 1.23
  - 18": 1.77
  - 24": 3.14
  - 30": 4.91
- **Reinf. Lbs.**
  - 15": 7'-4" for 1:4 slope
  - 18": 8'-4" for 1:4 slope
  - 24": 10'-4" for 1:4 slope
  - 30": 12'-4" for 1:4 slope

#### Construction Joint

- Permitted for various pipe sizes and slopes.

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*Images and diagrams are not fully transcribed but provide a visual representation of the construction details.*
MOUNTING FOR STEEL GRATE

STEEL GRATING USE CRITERIA

1. Grates to be used on pipes (current or existing) located within the designated clear zone. Positive drainage control shall be provided in all adjacent openings. Grates shall not be used unless one or more of the following conditions exist:
   A. Drainage area is current or contains an existing or potential area or area where debris is likely to collect.
   B. Drainage area is current or contains an existing or potential area where debris is likely to collect.
   C. Drainage area is current or contains an existing or potential area where debris is likely to collect.
   D. Drainage area is current or contains an existing or potential area where debris is likely to collect.
   E. Drainage area is current or contains an existing or potential area where debris is likely to collect.

2. Steel gratings to be used only where called for in plans.

<table>
<thead>
<tr>
<th>Hole</th>
<th>3' - 3&quot;</th>
<th>4' - 0&quot;</th>
<th>4' - 6&quot;</th>
<th>5' - 3&quot;</th>
<th>6' - 3&quot;</th>
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</thead>
<tbody>
<tr>
<td>1&quot;</td>
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<td>4.70</td>
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<td>8.35</td>
<td>9.00</td>
<td>10.0</td>
<td>11.0</td>
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</tbody>
</table>

END VIEW

ELEVATION

ANCHOR BOLT DETAIL