CONCRETE END WALL WITH U-TYPE WINGS FOR PIPE CULVERTS

TABLE OF DIMENSIONS AND ESTIMATED QUANTITIES
PIPE CULVERT ENDWALLS WITH U-TYPE WINGS

<table>
<thead>
<tr>
<th>Opening</th>
<th>D</th>
<th>G</th>
<th>H</th>
<th>K</th>
<th>F</th>
<th>I</th>
<th>Concrete, Class I, Total (CY)</th>
<th>Steel Tie Bars</th>
</tr>
</thead>
<tbody>
<tr>
<td>12</td>
<td>0.8</td>
<td>3'-8&quot;</td>
<td>2'-0&quot;</td>
<td>1'-6&quot;</td>
<td>1'-3&quot;</td>
<td>2'-2&quot;</td>
<td>0.48</td>
<td>0.53</td>
</tr>
<tr>
<td>18</td>
<td>1.2</td>
<td>3'-15&quot;</td>
<td>2'-3&quot;</td>
<td>1'-5&quot;</td>
<td>1'-3&quot;</td>
<td>2'-7&quot;</td>
<td>0.59</td>
<td>0.67</td>
</tr>
<tr>
<td>24</td>
<td>1.8</td>
<td>4'-2&quot;</td>
<td>2'-6&quot;</td>
<td>1'-9&quot;</td>
<td>1'-5&quot;</td>
<td>2'-12&quot;</td>
<td>0.70</td>
<td>0.79</td>
</tr>
</tbody>
</table>
| 30      | 2.1 | 4'-8" | 3'-0" | 2'-3" | 1'-9" | 2'-18" | 0.81 | 1.13 | 1.06 | 1.16 | 1.16 | 1.16 | 2-#6 Bars x 2'-0"
| 36      | 2.4 | 4'-12" | 3'-3" | 2'-7" | 1'-11" | 3'-0" | 1.13 | 1.44 | 1.41 | 1.51 | 1.40 | 1.45 | 2-#6 Bars x 2'-0"
| 42      | 2.8 | 5'-0" | 4'-0" | 3'-1" | 2'-15" | 3'-6" | 1.33 | 1.83 | 1.74 | 1.94 | 1.82 | 1.94 | 2-#6 Bars x 2'-0"
| 48      | 3.1 | 5'-6" | 4'-6" | 4'-0" | 2'-21" | 4'-0" | 1.53 | 2.32 | 2.23 | 2.45 | 2-#6 Bars x 3'-0"

GENERAL NOTES:
1. Winged concrete endwalls are intended for use outside the clear zone.
2. Chamfer all exposed edges 90°.
3. Concrete shall be Class I, except ASTM C478 (4000 psi); Concrete may be substituted for precast items manufactured in plants meeting the requirements of Section 448 of the Specifications.
4. Endwall to be paid for under the contract unit price for Class I Concrete.
5. Sodding to be performed in accordance with Index 524-001, and paid for under the contract unit price for Performance Fort, 5Y.