"L" TYPE END WALL - TYPE 1

APRON FOR OUTLET END

<table>
<thead>
<tr>
<th>TYPE 1</th>
<th>TYPE 2</th>
<th>APRON AT OUTLET</th>
</tr>
</thead>
<tbody>
<tr>
<td>STRAIGHT END WALL QUANTITIES (UNIT-ONE WALL)</td>
<td>STRAIGHT END WALL QUANTITIES (UNIT-ONE WALL)</td>
<td>END WALL</td>
</tr>
<tr>
<td>DIAMETER</td>
<td>AREA ( \times 10^{-3} )</td>
<td>CONCRETE</td>
</tr>
<tr>
<td>FT.</td>
<td>SQ. FT.</td>
<td>FT.</td>
</tr>
<tr>
<td>EQUATION</td>
<td>EQUATION</td>
<td>EQUATION</td>
</tr>
<tr>
<td>24</td>
<td>31.42</td>
<td>2.0</td>
</tr>
<tr>
<td>30</td>
<td>46.37</td>
<td>2.0</td>
</tr>
<tr>
<td>36</td>
<td>61.33</td>
<td>2.0</td>
</tr>
<tr>
<td>48</td>
<td>83.78</td>
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</tr>
<tr>
<td>60</td>
<td>108.72</td>
<td>2.0</td>
</tr>
<tr>
<td>72</td>
<td>135.67</td>
<td>2.0</td>
</tr>
</tbody>
</table>

DEPARTMENT OF TRANSPORTATION

SAND CEMENT BAG RIP RAP FOR END WALL & APRON

STANDARD

SPECIAL NOTE:

1. GENERAL: L END WALLS ARE APPLIED WHEREVER A 24" 30" 36" 48" 60" 72" INSIDE DIAMETER IS REQUIRED. HOWEVER, 24" IS SMALLER.

2. SPECIAL NOTES:

   a. End Walls and Apron are designed for use with the Department of Transportation Standard Sand Bag Rip Rap as specified in this plan.

   b. All dimensions are subject to change at the discretion of the Department of Transportation.

   c. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   d. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   e. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   f. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   g. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   h. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   i. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   j. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   k. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   l. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   m. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   n. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   o. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

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   u. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   v. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

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   x. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

   y. Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.

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   {Note: Aprons are designed for use with 24" 30" 36" 48" 60" 72" INSIDE DIAMETER END WALLS.}