**3" DIA. PIPE UNDER WALK**

- 3"x5" OR 3"x6" RECT. TUBING*

**CHANNEL THROUGH WALK**

- 1/4" - 20N.C.x7/16" F.H.M.S. AT 3' O.C.
- 1/4" CHKD. PL

**NOTES:**
1. NO DRAIN SHALL BE CONSTRUCTED UNDER A DRIVEWAY Approach.
   SIDEWALK DRAINS, EXCEPT FOR 3"x12" & 4"x12" CHANNELS, SHALL
   BE ANGLED THROUGH SIDEWALK IN DIRECTION OF GUTTER FLOW.
2. CURB DRAINS MAY BE CORE-
   DRILLED: 3"Ø
   A) PERPENDICULAR TO CURB
   B) D.I.P. OR SCH. 80 PVC, FLUSH.

**USE 1 ACRE = 200'x200' OR 100'x400'**

- AREA 3"DIA. PIPE = 7.1 SQ.IN.
- AREA 3"x5" RECT. TUBE = 12.3 SQ. IN.
- AREA 3"x6" RECT. TUBE = 14.9 SQ. IN.
- AREA 4"x14" CHANNEL = 56 SQ. IN.
- AREA 3"x12" CHANNEL = 36 SQ. IN.

**AREAS TO BE DRAINED FROM PRIVATE PROPERTY TO PUBLIC STREETS**

<table>
<thead>
<tr>
<th>AREA</th>
<th>TYPE OF SURFACE</th>
<th>AREA REQUIRED</th>
<th>SIZE &amp; NO. OF PIPES OR RECTANGULAR TUBE</th>
<th>SIZE &amp; NO OF CHANNELS</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 ACRES 200'x400'</td>
<td>PAVED GRASS</td>
<td>100 SQ. IN. 25 SQ. IN.</td>
<td>2-3&quot;x6&quot; RECT. TUBES</td>
<td>2-4&quot;x14&quot;</td>
</tr>
<tr>
<td>1-1/2 ACRES 200'x300'</td>
<td>PAVED GRASS</td>
<td>75 SQ. IN. 20 SQ. IN.</td>
<td>3-4&quot; PIPE &amp; 1-3&quot;x6&quot; RECT. TUBES</td>
<td>2-4&quot;x12&quot;</td>
</tr>
<tr>
<td>1 ACRE 200'x200'</td>
<td>PAVED GRASS</td>
<td>50 SQ. IN. 12 SQ. IN.</td>
<td>3-4&quot; PIPE &amp; 1-3&quot;x6&quot; RECT. TUBES</td>
<td>2-4&quot;x14&quot;</td>
</tr>
<tr>
<td>3/4 ACRE 150'x200'</td>
<td>PAVED GRASS</td>
<td>40 SQ. IN. 10 SQ. IN.</td>
<td>3-4&quot; PIPE &amp; 1-3&quot;x6&quot; RECT. TUBES</td>
<td>2-4&quot;x14&quot;</td>
</tr>
<tr>
<td>1/2 ACRE 100'x200'</td>
<td>PAVED GRASS</td>
<td>30 SQ. IN. 6 SQ. IN.</td>
<td>3-4&quot; PIPE &amp; 1-3&quot;x6&quot; RECT. TUBES</td>
<td>2-4&quot;x12&quot;</td>
</tr>
<tr>
<td>1/4 ACRE 100'x100'</td>
<td>PAVED GRASS</td>
<td>16 SQ. IN. 3 SQ. IN.</td>
<td>3-4&quot; PIPE &amp; 1-3&quot;x6&quot; RECT. TUBES</td>
<td>2-4&quot;x12&quot;</td>
</tr>
</tbody>
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**CITY OF EL CERRITO**

**S. STRAPAC CITY ENG'R., REG. C.E. 57654**