PRINCE GEORGE COUNTY
DEPARTMENT OF PUBLIC UTILITIES

CONCRETE SEWER LINES LOW-PRESSURE AIR TEST

MINIMUM SPECIFIED TIME REQUIRED FOR A 10 PSIG PRESSURE DROP
FOR SIZE AND LENGTH OF PIPE INDICATED
PRESSURE DROP FROM 3.5 PSIG TO 2.5 PSIG*

<table>
<thead>
<tr>
<th>PIPE DIAMETER (IN.)</th>
<th>MINIMUM TIME (MIN:SEC)</th>
<th>TIME FOR LENGTH (L) (SEC)</th>
<th>SPECIFICATION TIME FOR LENGTH (L) SHOWN (MIN:SEC)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>100 FT</td>
<td>150 FT</td>
<td>200 FT</td>
</tr>
<tr>
<td>18</td>
<td>2:24</td>
<td>3:36</td>
<td>4:48</td>
</tr>
<tr>
<td>21</td>
<td>3:00</td>
<td>4:30</td>
<td>6:00</td>
</tr>
</tbody>
</table>

*THE 3.5 PSIG TEST PRESSURE SHALL BE INCREASED BY ADDING THE AVERAGE VERTICAL HEIGHT IN FEET OF GROUND WATER ABOVE THE SEWER PIPE INVERT, DIVIDED BY 2.31 BUT THE MAXIMUM STARTING TEST PRESSURE SHALL NOT EXCEED 9 PSIG.

JOINT ACCEPTANCE TEST FOR CONCRETE SEWER LINES 27” AND LARGER IN DIAMETER

1. PRESSURIZE THE JOINT WITH AIR TO 3.5 PSI GREATER THAN THE PRESSURE EXERTED BY GROUND WATER ABOVE THE PIPE. ALLOW THE AIR PRESSURE AND TEMPERATURE TO STABILIZE BEFORE SHUTTING OFF THE AIR SUPPLY.

2. IF THE PRESSURE HOLDS, OR DROPS LESS THAN 1 PSI IN 5 SECONDS, THE JOINT IS ACCEPTABLE.

NOTE: FOR EVERY FOOT OF GROUND WATER ABOVE THE SPRING LINE ADD 0.43 PSI TO THE TEST PRESSURE. IF THE PRESSURE REQUIRED FOR THE TEST EXCEEDS 6 PSIG, USE THE INFILTRATION TEST.

DATE
Jan. 2008

REVISIONS

AIR TEST TABLE
BASED ON FORMULA FROM
ASTM C924 AND ASTM C1103

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