


**NOTE:**

1. CONCRETE SHALL BE COMMERCIAL GRADE CONCRETE.

<p>The selection and use of this Standard Detail, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.</p>	 <p>Bureau of Environmental Services CITY OF PORTLAND, OREGON</p> <p><i>Walter F. ...</i> Chief Engineer</p>	
	<p>Standard Detail Title</p> <p><b>Sewer Pipe Concrete Encasement</b></p>	
<p>Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.</p>	<p>Effective Date: 01-01-09</p>	<p>Standard Detail No.</p> <p><b>P-103</b></p>
	<p>Calc. Book No.: N/A</p>	
	<p>Baseline Report Date: N/A</p>	