

STORM DRAINAGE PIPING NOTES

1. All storm drain pipes shall be either DR17 solid HDPE (white or grey interior), double-walled smooth interior HDPE, SDR26 PVC or reinforced concrete pipe.
 - 1.1. Solid HDPE shall be fusion-welded together, and all fittings shall be fusion-welded to it.
 - 1.2. Double-walled HDPE pipe and fittings shall have water-tight bell-and-spigot joints with gaskets meeting ASTM F477, and shall meet AASHTO M252 or M294, type S.
 - 1.3. PVC pipe and fittings shall have bell-and-spigot joints with gaskets meeting ASTM F477. and shall meet ASTM D3034 or F679.
 - 1.4. Reinforced concrete pipe (RCP) shall be class III or better per ASTM C76 or AASHTO M170 and shall use rubber gasketed joints meeting ASTM C443.
2. Pipe bedding, where the trench bottom is competent soil approved by the City's Inspector, shall be clean crushed rock no larger than 3/4" nominal. When the trench bottom is overly wet or soft the Inspector may require over-excavation and placement of additional import material before bedding.
3. Bedding shall be recessed to accept bell-ends without the pipe being raised above grade.
4. Lay pipe with bells or female ends at the upstream ends. Joints shall be fully engaged.
5. On grades greater than 2:1 (H:V) pipes shall be fitted with anchors to prevent slippage.
6. See Dwg. 300A and Dwg. 300B for backfilling notes.
7. Changes in direction, or changes in pipe size or material, shall only be done at a structure (see Dwg. 303A).
8. Where pipes enter pre-cast concrete structures, the ends shall be flush with the inner walls and the annular space shall be completely filled with non-shrink mortar; a 12" wide concrete collar shall entirely surround the pipe outside the structure.
9. Plastic pipe shall be subject to mandrel testing after backfilling is complete.

<p>CITY OF PACIFICA DEPARTMENT OF PUBLIC WORKS ENGINEERING DIVISION</p>	<p><u>STANDARD</u></p>			<p>AUG</p>
	<p>STORM DRAINAGE PIPING NOTES</p>			<p>2014</p>
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				<p>303B</p>