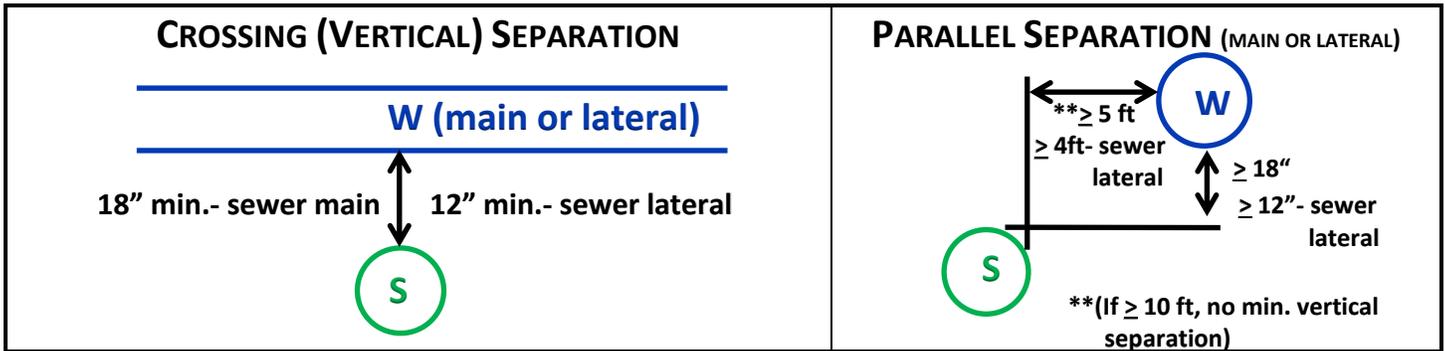


WATER-SEWER SEPARATION GUIDELINES (DRAFT)

[PLEASE PRINT IN COLOR FOR OPTIMAL VIEWING]

PREFERRED DESIGN / NO MITIGATION REQUIRED



MITIGATED DESIGN / CONSTRUCTION CONFIGURATION

<p style="text-align: center;">CROSSING SEPARATION (MAIN OR LATERAL)</p>	<p style="text-align: center;">PARALLEL SEPARATION (MAIN OR LATERAL)</p>	
<i>Water [W]</i>	<i>Mechanically restrain waterline joints on both sides of the crossing & any other joints within 10 feet; or</i>	<i>Mechanically restrain all waterline joints; or</i>
	<i>Jointless pipe or BSDW approved alternative.</i>	<i>Jointless pipe or BSDW approved alternative.</i>
<i>Sewer [S] (Gravity)</i>	<i>SDR35 PVC pipe (ASTM D3212 joints); or</i>	<i>SDR35 PVC pipe (ASTM D3212 joints); or</i>
	<i>Non SDR35 pipe (RCP, etc.) – external joint sealant (watertight)* or jointless pipe or BSDW appr’ d alt.</i>	<i>Non SDR35 pipe (RCP, etc.) – external joint sealant (watertight)* or jointless pipe or BSDW appr’ d alt.</i>
<i>Sewer [S] (Pressurized)</i>	<i>Mechanically restrain sewer joints on both sides of the crossing & any other joints within 10 feet; or</i>	<i>Mechanically restrain all sewer joints; or</i>
	<i>Jointless pipe or BSDW approved alternative.</i>	<i>Jointless pipe or BSDW approved alternative.</i>

Sewer – (e.g. sanitary sewer mains and laterals, storm drains, and reclaimed wastewater mains and laterals.)

Mechanical restraint – a mechanical coupling to restrict joint movement and separation.

Jointless pipe – Welded HDPE (AWWA C901 / C906), Fusible PVC (Fusible AWWA C900 / C905), etc.

* [NPC External Joint Seals](#), [Aquawrap](#), [Infi-Shield Gator Wrap®](#), ASTM C877-08, or approved equal.

This guidance document is provided in the interest of facilitating the approval process, with respect to potable vs. nonpotable pipeline separation. It is in no way intended to replace or supersede Nevada Administrative Code (NAC) 445A.6715 through 445A.67175. The methods listed herein are generally considered acceptable alternatives to the aforementioned NAC “Separation” subsections of the regulation. Engineers should be advised that, regardless if this guidance document is followed in whole or in part, every project is unique and, as such, approval will be at the discretion of the Bureau of Safe Drinking Water.