# 02500.1 GUIDANCE DOCUMENT

**WATER – SEWER SEPARATION REQUIREMENTS**

Shaded Cells represent a design exception with respect to separation of Water and Sewer mains.

**Reduced separation conditions require Approval from Cedar Rapids Water Engineering**

<table>
<thead>
<tr>
<th>Scenario</th>
<th>Requirements</th>
</tr>
</thead>
<tbody>
<tr>
<td>Water main <strong>ABOVE</strong> sewer, with <strong>18+ inches</strong> of separation. (preferred scenario)</td>
<td>No special requirements</td>
</tr>
</tbody>
</table>
| Water main **ABOVE** sewer, with **6-18 inches** of separation OR Water main **BELOW** the sewer, with **18+ inches** of separation | **Water Main Crossing Storm Sewer:**  
  - Water Main shall be constructed of DIP with nitrile gaskets  
  **OR**  
  - Storm sewer shall be constructed of RCP with O-ring gaskets or water main material with 150 PSI minimum pressure rating. **Water Main Crossing Sanitary Sewer:**  
  - Water main shall be centrically placed in a casing pipe supported with casing spacers and end seals.  
  **OR**  
  - Sanitary sewer shall be constructed of water main material with 150 PSI minimum pressure rating. |
| Water main **ABOVE** sewer, with **Less than 6 inches** of separation | Not allowed |
| Water main **BELOW** sewer, with **6 - 18 inches** of separation | **Water Main Crossing Storm Sewer:**  
  - Water Main shall be constructed of DIP with nitrile gaskets,  
  **AND**  
  - Storm sewer shall be constructed of RCP with O-ring gaskets or water main material with 150 PSI minimum pressure rating. **Water Main Crossing Sanitary Sewer:**  
  - Water main shall be centrically placed in a casing pipe supported with casing spacers and end seals.  
  **AND**  
  - Sanitary sewer shall be constructed of water main material with 150 PSI minimum pressure rating. |
| Water main **BELOW** sewer, with **Less than 6 inches** of separation | Not allowed |