



**2 TYPICAL CROSSING DETAIL**  
NTS

**NOTES:**

1. ALL POTABLE WATER CROSSINGS OF EXISTING OR PROPOSED UTILITIES, OR OTHER UNDERGROUND OBSTRUCTION SHALL BE DETAILED BY THE DESIGN ENGINEER, AND SHALL MEET THE CRITERIA OUTLINED BY NAC CHAPTER 445A AND "NDEP GUIDANCE FOR AREAS REQUIRING MITIGATION FOR WATER AND SEWER SEPARATION," CURRENT EDITION. FULL LAYING LENGTH OF WATER PIPE (20 FEET TYPICAL) SHALL BE CENTERED ON THE CROSSING TO MEET NDEP REQUIREMENTS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER OR THEIR DESIGNEE. FOR PURPOSES OF SEPARATION AND PROTECTION OF THE WATER SUPPLY, RECLAIMED WATER AND STORM DRAIN SHALL BE CONSIDERED A SEWER LINE.
2. THE ENTIRE ASSEMBLY SHALL BE INSTALLED USING POLYETHYLENE WRAPPED DUCTILE IRON PIPE AND DUCTILE IRON RESTRAINED MECHANICAL JOINT FITTINGS.
3. UPON APPROVAL BY THE CITY ENGINEER OR THEIR DESIGNEE, THE ABOVE ASSEMBLY MAY BE REPLACED WITH A WELDED STEEL "SPOOL" OF EQUIVALENT DIAMETER, PRIMED AND WRAPPED (10 MILS MINIMUM). CONNECT TO EXISTING LINES USING MECHANICAL JOINTS. STEEL SPOOL SHALL BE CONSTRUCTED BY A CERTIFIED WELDER AND PRESSURE CHECKED IN ACCORDANCE WITH SPECIFICATIONS.
4. CONCRETE AND REBAR FOR THRUST BLOCKS SHALL NOT INTERFERE WITH REMOVAL OF BOLTED ASSEMBLIES.
5. AN AIR RELEASE WITH POSITIVE GRADE FROM MAIN TO RELEASE SHALL BE INSTALLED AT THE HIGH POINT OF THE MAIN (18 INCHES MINIMUM FROM ANY FITTING) UNLESS OTHERWISE NOTED ON THE APPROVED PLANS. SEE DRAWING C-3.1.10 FOR INSTALLATION.
6. RAISING A WATER MAIN OVER A SEWER LINE REQUIRES APPROVAL BY THE CITY ENGINEER OR THEIR DESIGNEE.
7. EVERY EFFORT IS TO BE MADE TO KEEP WATER MAIN OR WATER LATERAL 18 INCHES ABOVE SEWER MAIN AND 12 INCHES ABOVE SEWER LATERAL.
8. A DUCTILE IRON SPOOL SHALL BE PROVIDED ON BOTH SIDES OF THE WATER MAIN RAISING WHEN CONNECTING TO AN EXISTING WATER MAIN.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
1	NOTE 1	1/21	<div style="text-align: center;"> <h1>RAISING WATER MAINS</h1> </div>	CARSON CITY
2	TYP CROSSING	10/25		DRAWING NO. C-3.1.9
	& NOTES 1&8			DATE
APPROVED BY: <i>DA</i>		10/25		OCT 2025