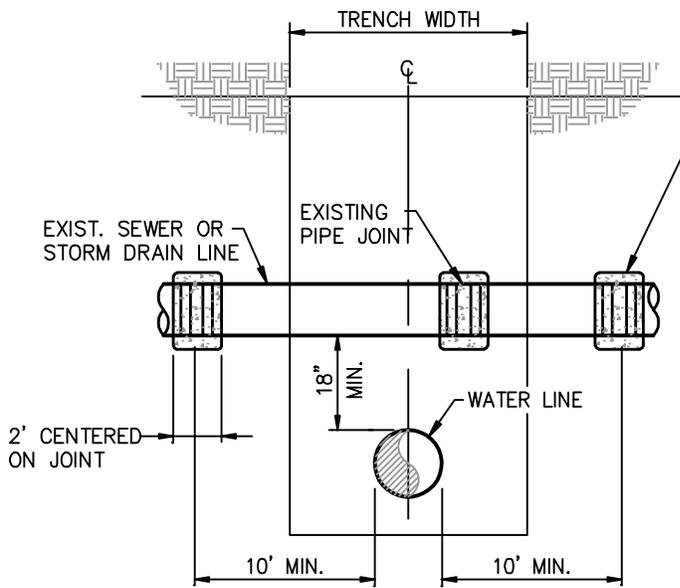


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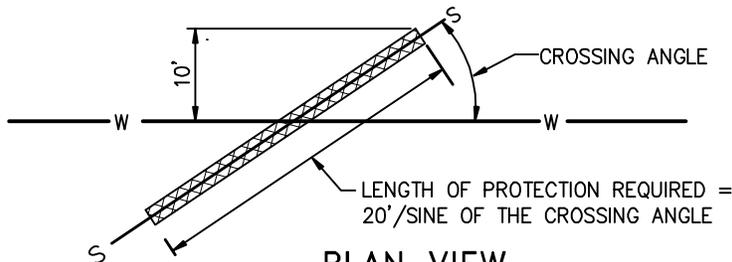
POLYETHYLENE WRAP AND CONCRETE ENCASE ALL SEWER AND STORM DRAIN PIPE JOINTS WITHIN 10' EACH SIDE OF WATER MAIN

FOR NEW WATER LINE CONSTRUCTION
 CENTER WATER PIPE 10 FEET EACH SIDE OF CROSSING. WHEN EXISTING SEWER OR STORM DRAIN LINE IS ABOVE THE WATER MAIN BEING INSTALLED, INSTALL MECHANICALLY RESTRAINED JOINTS ON THE WATER PIPE AT ALL JOINTS WITHIN 10 FEET EACH SIDE OF THE SEWER OR STORM DRAIN LINE, AND POLYETHYLENE WRAP AND CONCRETE ENCASE ALL EXISTING SEWER OR STORM DRAIN PIPE JOINTS WITHIN 10' EACH SIDE OF WATER MAIN

SEWER CROSSING WATER

NTS

"WATER" INCLUDES WATER MAINS AND SERVICE LATERALS
 "SEWER" INCLUDES SANITARY SEWER, STORM DRAIN AND RECLAIMED WATER MAINS AND LATERALS.



PLAN VIEW

NTS

NOTES:

1. IF WATER LINE IS 18 INCHES OR GREATER ABOVE THE SEWER LINE OR STORM DRAIN LINE, NO SPECIAL CONSTRUCTION IS REQUIRED.
2. PROVIDE 18 INCHES MINIMUM OF VERTICAL SEPARATION BETWEEN WATER, SEWER AND STORM DRAIN LINES. WHEN SEPARATION CANNOT BE OBTAINED, AND IN CASES WHERE WATER LINES MUST BE ROUTED UNDER EXISTING SEWER OR STORM DRAIN LINES, LOWER WATER MAIN PER STANDARD DETAIL NO. C-3.1.8 OR C-3.1.9 IF TRENCH WIDTH EXCEEDS 36 INCHES, THEN PROVIDE CONCRETE SUPPORT PER STANDARD DETAIL DRAWING NO. 2-17.
3. ALL PROVISIONS ABOVE SHALL APPLY FOR CROSSINGS TO THE POINT AT WHICH THE 10 FOOT SEPARATION BETWEEN THE WATER AND SEWER OR STORM DRAIN LINE IS ACHIEVED (10 FEET/SINE OF CROSSING ANGLE).
4. FOR PURPOSES OF SEPARATIONS AND PROTECTION OF THE WATER SUPPLY, A RECLAIMED WATER LINE SHALL BE CONSIDERED A SEWER LINE. NO CONCRETE SHALL BE PLACED ON RECLAIMED WATER PIPE JOINTS.
5. ENCASEMENT SLURRY BACKFILL SHALL BE TYPE B (NON-EXCAVATABLE) WITH A MINIMUM COMPRESSIVE STRENGTH AT 28 DAYS OF 3000 (PSI) AND MEET THE REQUIREMENTS OF TABLE 337.08.01-1.

NO.	REVISION	DATE	STANDARD DETAIL FOR PUBLIC WORKS CONSTRUCTION	SECTION
			NEW WATER CROSSING EXISTING GRAVITY SANITARY SEWER OR STORM DRAIN	CARSON CITY
				DRAWING NO. C-3.1.2
				DATE 4/2009
APPROVED BY: _____				