



## POTABLE WATER & SANITARY SEWER SEPARATION DISTANCE

### CONSTRUCTION KEY NOTES:

WHEN STANDARD NINE (9) FOOT SEPARATION DISTANCE CANNOT BE ACHIEVED, SEPARATION SHALL BE DETERMINED ACCORDING TO THE FOLLOWING CONDITIONS:

CASE 1: GRAVITY SANITARY SEWER MAIN OR FORCE MAIN PARALLEL TO POTABLE WATER MAIN (PER TCEQ §290.44(e)(4)(A)).

- 1.1 LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
- 1.2 SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING—IF LEAKING, MUST BE REPLACED WITH PVC (150 PSI) OR DI. NEW GRAVITY MAIN OR FORCE MAIN REQUIRES PVC (150 PSI) OR DI.
- 1.3 SEPARATE TRENCHES SHALL BE USED.

CASE 2: NEW POTABLE WATER MAIN CROSSING EXISTING GRAVITY SANITARY SEWER MAIN OR EXISTING FORCE MAIN (PER TCEQ §290.44(e)(4)(B)(i) AND §290.44(e)(4)(B)(ii)).

- 2.1 LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
- 2.2 SEWER MATERIALS: EXISTING GRAVITY MAIN (PVC SDR35 OR CLAY) OR FORCE MAIN TO REMAIN IF NOT LEAKING, REPLACE ONE PIPE SEGMENT PER CASE 3 REQUIREMENTS.
- 2.3 CENTER ONE SEGMENT OF WATER PIPE OVER SEWER MAIN OR FORCE MAIN.
- 2.4 MINIMUM PIPE SEGMENT LENGTH FOR WATER PIPE SHALL BE 18 FEET LONG.

CASE 3: NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §290.44(e)(4)(B)(iii), §290.44(e)(4)(B)(v) AND §290.44(e)(4)(B)(iv)(i)).

- 3.1 LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
- 3.2 SEWER MATERIALS: NEW GRAVITY MAIN – PVC (150 PSI) OR DI REQUIRED, CENTER UNDER WATER MAIN. NEW FORCE MAIN – PVC (150PSI) OR DI REQUIRED. FORCE MAIN TO BE EMBEDDED IN CEMENT STABILIZED BACKFILL, THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.
- 3.3 CENTER ONE SEGMENT OF WATER PIPE OVER SEWER PIPE OR FORCE MAIN.
- 3.4 MINIMUM PIPE SEGMENT LENGTH FOR WATER AND SEWER SHALL BE 18 FEET LONG.
- 3.5 FOR NEW GRAVITY SEWER ONLY, IN LIEU OF PVC (150PSI) OR DI, INSTALL ONE PIPE SEGMENT OF SDR35; SEWER MAIN MUST BE EMBEDDED IN CEMENT STABILIZED BACKFILL THE TOTAL LENGTH OF ONE PIPE PLUS 12" BEYOND THE JOINT AT EACH END.

CASE 4: NEW POTABLE WATER MAIN CROSSING NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN (PER TCEQ §290.44(e)(4)(B)(iv)(ii)).

- 4.1 LOCATION: WATER ABOVE SEWER OR FORCE MAIN.
- 4.2 SEWER MATERIALS: NEW GRAVITY MAIN – SDR35 ACCEPTABLE, NEW FORCE MAIN – PVC (150PSI) OR DI REQUIRED. IN ADDITION, SEWER MAIN OR FORCE MAIN MUST BE ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
- 4.3 CENTER CASING PIPE ON WATER MAIN.

CASE 5: NEW GRAVITY SANITARY SEWER MAIN OR NEW FORCE MAIN CROSSING NEW POTABLE WATER MAIN (PER TCEQ §290.44(e)(4)(B)(iv)(iii)).

- 5.1 LOCATION: SEWER OR FORCE MAIN ABOVE WATER.
- 5.2 NEW GRAVITY MAIN OR FORCE MAIN REQUIRES ONE PIPE SEGMENT OF PVC (150 PSI) OR DI. IN ADDITION, WATER MUST BE DI OR STEEL OR ENCASED IN DI OR STEEL, TWO NOMINAL SIZES LARGER THAN MAIN AND AT LEAST 18 FEET LONG.
- 5.3 CENTER ONE SEGMENT OF SEWER PIPE ON WATER MAIN.

### NOTES:

1. NEW OR EXISTING POTABLE WATER AND SANITARY SEWER MAINS.
2. SEPARATION DISTANCES SHALL FOLLOW TEXAS COMMISSION ON ENVIRONMENTAL QUALITY STANDARD REQUIREMENTS.

REVISIONS   	AMERICAN WATER MILITARY SERVICES GROUP CIVIL MINIMUM UTILITY SEPARATION REQUIREMENTS
	AMERICAN WATER MILITARY SERVICES GROUP CAMDEN, NJ 08102
	AMERICAN WATER M.S.G. 1 WATER STREET CAMDEN, NJ 08102 
	DRAWN BY Z. ALAM PROJECT ENG'R PDK APPROVED DATE 04-30-2010 PROJECT N/A USE DIMENSIONS ONLY SCALE N.T.S.
	USE APPROVED DRAWINGS ONLY FOR CONSTRUCTION PURPOSES <span style="float: right; font-weight: bold;">MSG-ST-05-FH</span>