1. **BUTTERFLY VALVES** SHALL BE INSTALLED FOR 12" AND LARGER PIPES. VALVE NUTS SHALL BE PLACED ON THE SIDE OF THE MAIN CLOSEST TO THE NEAREST CURB.

2. **GATE VALVES** SHALL BE USED FOR ALL PIPE SIZES SMALLER THAN 12", UNLESS OTHERWISE APPROVED BY THE WATER DIVISION ENGINEER. GATE VALVES SHALL BE NON-RISING STEM WITH SQUARE OPERATING NUT, OPEN LEFT, AND HAVE STAINLESS STEEL NUTS AND BOLTS.

3. **VALVE RING** SHALL BE SET TO GRADE PRIOR TO PLACING FINISHED PAVEMENT.

4. THE TWO (2) INCH SQUARE OPERATING NUT ON ALL VALVES SHALL BE INSTALLED AT A MAXIMUM OF 5-FEET IN DEPTH MEASURED FROM THE TOP OF THE OPERATING NUT TO FINISHED GRADE. ALL OPERATING NUTS INSTALLED AT A DEPTH GREATER THAN 5-FEET SHALL INCLUDE A VALVE EXTENSION TO RAISE THE OPERATING NUT TO 24" FROM FINISHED GRADE.

5. **VALVE EXTENSIONS (IF REQUIRED)** SHALL BE ROUND OR SQUARE 1.5" DIAMETER STEEL ROD, WELDED CONSTRUCTION, AND COATED WITH TOP CENTERING RING AND AWWA 2" OPERATING NUTS TOP AND BOTTOM (PIPELINE PRODUCTS SX-900 OR SIMILAR). SOCKET END SHALL BE DRILLED AND TAPPED WITH TWO (2) 1/4" SET SCREWS INSTALLED ON OPPOSITE SIDES. OPERATING NUT SHALL BE DRILLED WITH RECESSES TO ACCEPT THE TWO (2) 1/4" SET SCREWS. SET SCREWS SHALL BE SECURELY FASTENED TO THE OPERATING NUT.

6. **WATER VALVES** SHALL BE OPERATED BY WATER DIVISION PERSONNEL ONLY.

7. **WATER DIVISION ENGINEER MAY REQUIRE THE INSTALLATION OF BINGHAM & TAYLOR 12" MARK VII VALVE BOXES FOR HEAVILY TRAVELED ROADWAYS.**