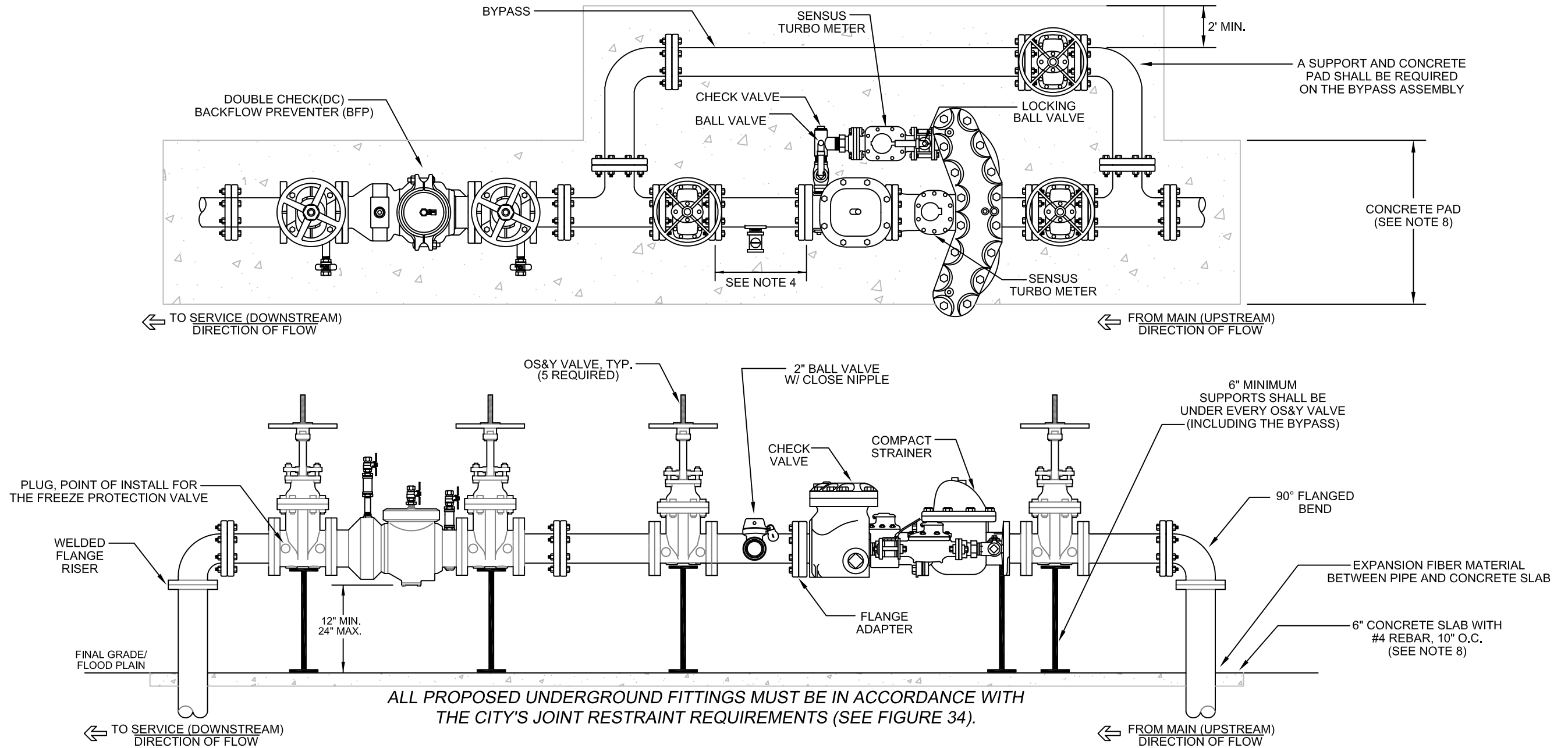


**CITY OF WINTER PARK  
WATER & WASTEWATER UTILITY DEPARTMENT  
REFERENCE THE "WATER & WASTEWATER UTILITY STANDARDS , SPECIFICATIONS & DETAILS MANUAL"**

DATE: January 2, 2008

**FIRE LINE MASTER METER ASSEMBLY**

SCALE: N.T.S.



**NOTES:**

1. REMOVE CONSTRUCTION DEBRIS FROM LINE BEFORE INSTALLING METER. INSTALL METER IN HORIZONTAL PLANE. LARGE SLUGS OF ENTRAINED AIR CAN DAMAGE THE INTERNAL MEASURING MECHANISM.
2. WHEN INSTALLING SENSUS COMPOUND METERS, A MINIMUM OF FIVE PIPE DIAMETERS OF STRAIGHT RUN PIPE OR EQUIVALENT FULL OPEN COMPONENTS ARE REQUIRED UPSTREAM OF THE METER.
3. FULL OPEN FLOW COMPONENTS MAY CONSIST OF A STRAINER, STRAIGHT PIPE, FULL OPEN GATE VALVES, BYPASS TEES AND CONCENTRIC REDUCERS (1 NORMAL REDUCTION ONLY). A STRAINER IS REQUIRED FOR PROTECTION AND FLOW CONDITIONING OF THE METER.
4. DO NOT INSTALL ELBOWS, BENDS, NONCONCENTRIC REDUCERS, CHECK VALVES AND/OR PRESSURE REDUCING DEVICES WITHIN FIVE PIPE DIAMETERS UPSTREAM OR THREE PIPE DIAMETERS DOWNSTREAM OF THE METER.
5. GATE VALVES LOCATED IMMEDIATELY UPSTREAM OF THE METER SETTING ARE ACCEPTABLE, PROVIDED THEY ARE FULLY OPEN DURING METER SERVICE AND ARE NOT USED TO THROTTLE FLOW RATES THROUGH THE METER.
6. ACCURACY LEVELS MAY BE DETERMINED BY COMPARISON ACCURACY TESTING. USE A SENSUS PORTABLE LARGE METER TESTER OR REMOVE THE SUSPECT METER AND TEST IT ON A CALIBRATED TEST BENCH. ACCURACY LEVEL ADJUSTMENT MAY BE ACCOMPLISHED BY CHANGING CALIBRATION.
7. INSTALLATION SHALL BE IN ACCORDANCE WITH THE CITY'S REQUIREMENTS.
8. THE CONCRETE PAD SHALL EXTEND 2' (MINIMUM) FROM THE EDGE OF PIPE AND BYPASS PIPE.

FIGURE 39