



①	FLANGED SPOOL AND ELBOW.	⑦	6" THICK, MIN 4,000 PSI CONCRETE PAD.
②	TRACER WIRE, #10 AWG SOLID COPPER WITH U.S.E. RATED INSULATION. COLOR, BLUE. CONNECT TO WATER MAIN TRACER WIRE. ALL TRACER WIRE SHALL BE TAPED TO WATER SERVICE LINE WITH 10 MIL TAPE AT MIN 10 FOOT INTERVALS	⑧	MIN 4,000 PSI CONCRETE THRUST BLOCK. SEE DETAIL #519.
③	RESERVED	⑨	RESERVED
④	FLANGED BY FLANGED, RESILIENT WEDGE GATE VALVE WITH NON-RISING STEM. (TYPICAL ALL VALVES FOR THIS DETAIL).	⑩	12" MIN. (TYP. ALL SIDES) OR AS NECESSARY TO ACCOMMODATE ASSEMBLY ENCLOSURE PLUS 6" FROM ENCLOSURE FRAME TO EDGE OF CONCRETE PAD.
⑤	REDUCED PRESSURE TYPE CHECK VALVE ASSEMBLY. REFER TO CURRENT LIST OF APPROVED BACKFLOW, REFER TO CURRENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES PUBLISHED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA. ALL ASSEMBLY COMPONENTS SHALL BE LEAD FREE.	⑪	FIVE PIPE SADDLE SUPPORTS SECURELY BOLTED TO CONCRETE PAD (FOUR BOLTS PER SADDLE SUPPORT). FOUR REQUIRED ON MAIN ASSEMBLY AND ONE REQUIRED ON BYPASS ASSEMBLY.
⑥	COMPOUND METER. COMPOUND METER SHALL BE "SENSUS" OMNI C2 TYPE WITH ECR REGISTER (READING IN CUBIC FEET).	⑫	FLANGED BYPASS TEE TO ALLOW CONTINUED SERVICE UPON MAINTENANCE AND REPAIR OF METER.
		⑬	"SENSUS" MODEL 520M FLEXNET SMARTPOINT M2 RADIO TRANSCEIVER (MXU) OR APPROVED EQUAL.
		⑭	METER BOX AS SUPPLIED BY PLACER WATERWORKS INC. OR APPROVED EQUAL

NOTES:

- A. ALL THREE (3) INCH DIAMETER OR LARGER ABOVE GROUND PIPE SHALL BE MINIMUM 175 PSI DUCTILE IRON PIPE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ALL JOINTS SHALL BE FLANGE AND MECHANICAL JOINT.
- B. SEE MANUFACTURER'S INSTRUCTIONS FOR CONNECTION FROM REGISTER TO MXU. VERIFICATION THAT THE MXU HAS BEEN PROPERLY CONNECTED AND PROGRAMMED SHALL BE MADE BY THE CITY ENGINEER.
- C. BYPASS SYSTEM IS NOT REQUIRED FOR IRRIGATION SERVICES.
- D. ALL PIPE BELOW GRADE AND PENETRATING CONCRETE MUST BE WRAPPED WITH 8 MIL POLYETHYLENE ENCASEMENT THEN WRAPPED WITH 10 MIL TAPE. IN ADDITION, WRAP PIPE PENETRATIONS THROUGH CONCRETE WITH FOAM WRAP.
- E. WATER SHALL NOT BE TURNED ON UNTIL DEVICE IS TESTED AND APPROVED BY THE CITY.
- F. INSTALL INSULATED CLAM SHELL OR 4-DOOR TYPE BACKFLOW ENCLOSURE AROUND ENTIRE ASSEMBLY AS MANUFACTURED BY PLACER WATERWORKS OR APPROVED EQUAL WHEN REQUIRED BY THE CITY.
- G. RESILIENT WEDGE GATE VALVE SHALL BE INSTALLED IN SERVICE LINE WITHIN 5 FEET OF BUILDING/STRUCTURE. ADD CHIRSTY BOX G 05 AND COVER (G 05T IF IN TRAFFIC AREA) OR APPROVED EQUAL, PLACED OVER THE GATE VALVE. LOCATION OF GATE VALVE NOT SHOWN ON DETAIL.



APPROVED: Aug. X, 2025

STANDARD
DETAIL #
503

TITLE:
**COMMERCIAL/INDUSTRIAL/
MULTI-FAMILY/IRRIGATION
WATER SERVICES AND
BACKFLOW ASSEMBLIES 3"
OR LARGER.**

