



**SERVICE LINE INSTALLATION**

ALL JOINTS SHALL BE RESTRAINED.  
 FITTINGS: MEGALUG RESTRAINTS, OR EQUAL  
 PIPE BELLS: FIELD LOK GASKETS, OR EQUAL

\*\* REQUIRED FOR ALL METALLIC  
 PIPE INSTALLATIONS

ALTERNATE MATERIALS MUST BE  
 APPROVED BY THE CITY OF NAPA  
 WATER DIVISION PRIOR TO USE

FLANGETYTE GASKETS BY U.S. PIPE SHALL BE  
 USED FOR ALL FLANGED FITTINGS. INSULATING  
 GASKETS SHALL BE TYPE E 1/8" THICK  
 FULL-FACED NEOPRENE PHENOLIC GASKETS  
 INSTALLED WITH GRADE G-10 FIBERGLASS EPOXY  
 INSULATING BOLT SLEEVES AND WASHERS.

\*\* 32-LB (MIN) PREPACKAGED HIGH  
 POTENTIAL MAGNESIUM ANODE (SEE  
 W-24A FOR INSTALLATION DETAILS)

**NOTES**

1. CITY INSTALLATION ENDS AT **INSULATING FITTING** (AT BACK OF CURB). CONTRACTOR SHALL BE RESPONSIBLE FOR SERVICE INSTALLATION FROM INSULATING FITTING TO BACKFLOW DEVICE. ENCROACHMENT PERMIT REQUIRED.
2. FIRE SERVICES SUPPLYING WATER TO PRIVATE FIRE HYDRANTS OR FIRE STORAGE TANKS SHALL BE INSTALLED WITH A DETECTION METER AT THE BACK OF CURB (SEE W-4E). METER BOX AND SERVICE LATERAL SHALL BE INSTALLED 3-FT (MIN) OUTSIDE OF DRIVEWAY, DRIVEWAY APPROACHES, AND OTHER VEHICULAR ACCESS WAYS.
3. SERVICE LATERAL FROM MAIN TO METER SHALL BE C900 PVC OR CLASS 350 DUCTILE IRON PIPE.
4. ALL BURIED SECTIONS OF METALLIC PIPE AND FITTINGS SHALL BE WRAPPED WITH AN 8-MIL POLYETHYLENE WRAP. ALL BURIED INSULATED GASKETS SHALL BE WRAPPED WITH 10-MIL HIGH TACK PIPE WRAP TAPE 3-FT (MIN) TO EACH SIDE OF THE INSULATION POINTS.
5. EXISTING WATER MAINS SHALL BE HOT-TAPPED BY CITY FORCES AT DEVELOPER'S EXPENSE. HOT-TAP INCLUDES SADDLE VALVE, G5 BOX, PVC RISER, AND MISC. FITTINGS. SEE W-16 FOR HOT-TAP REQUIREMENTS. HOT-TAP SHALL BE INSTALLED 36-IN (MIN) FROM ANY TAP, BELL, FITTING, OR OTHER WATER SERVICE.
6. A TEE AND GATE VALVE SHALL BE INSTALLED INSTEAD OF A HOT-TAP WHEN THE EXISTING WATER MAIN IS EQUAL TO THE DIAMETER OF THE NEW WATER SERVICE, OR WHEN THE WATER SERVICES IS INSTALLED AS PART OF A NEW WATER MAIN INSTALLATION. WATER SERVICES SHALL NOT BE INSTALLED ON WATER MAINS WITH A SMALLER DIAMETER THAN THE WATER SERVICE.
7. APPROVED BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED AND TESTED, AND WATER METERS (IF APPLICABLE) SHALL BE SET, PRIOR TO ANY USE OF WATER SERVICE. USE OF JUMPERS, HOSE BIBS, OR OTHER DEVICES SHALL NOT BE PERMITTED.
8. METERS SHALL BE PLACED A MINIMUM OF 3-FT FROM ANY OBSTRUCTION (SIGN POST, MAIL BOX, FENCES, WALLS, ETC.). NO TREES SHALL BE PLANTED WITHIN 10-FT OR LARGE SHRUBS WITHIN 5-FT OF THE METER BOX. SEE W-18 FOR ADDITIONAL REQUIREMENTS.
9. ONLY PRIVATE FIRE PROTECTION SYSTEMS (INCLUDING BUT NOT LIMITED TO FIRE SPRINKLERS AND FIRE HYDRANTS) SHALL BE CONNECTED TO FIRE SERVICES. OTHER USES MUST BE SERVED FROM STANDARD METERED WATER SERVICES. FIRE SERVICES WITH DETECTION METERS DO NOT QUALIFY AS STANDARD METERED WATER SERVICES.
10. FIRE SERVICE LATERAL SIZE SHALL NOT EXCEED THE SIZE OF THE PUBLIC WATER MAIN THAT SERVES THE FIRE SERVICE. THE FIRE SERVICE SHALL BE SIZED SUCH THAT FIRE FLOW DEMANDS DO NOT EXCEED A 10-FT/SEC FLOW RATE THROUGH THE FIRE SERVICE LATERAL.

CITY OF NAPA

PUBLIC WORKS - WATER DIVISION

**4" AND LARGER FIRE SERVICE  
 - NO PRIVATE HYDRANTS  
 (AC AND C900 WATER MAINS)**

DATE REVISED: DECEMBER 2015  
 CHECKED: *[Signature]*  
 APPROVED: *[Signature]*  
 SCALE: NONE

DWG NO. **W - 4D**