



**NOTES:**

1. SEE STANDARD WATER CONSTRUCTION NOTES FOR MORE DETAILS.
2. WATER MAINS SHALL BE PUSH-ON RESTRAINED JOINT DUCTILE IRON PIPE THAT IS CEMENT-MORTAR LINED, SHALL CONFORM WITH ANSI A21.6 AND ANSI A21.11, AND SHALL BE U.S. TYTON JOINT, AS MANUFACTURED BY UNITED STATES PIPE AND FOUNDRY COMPANY AND PACIFIC STATES CAST IRON COMPANY, OR OTHER MANUFACTURES APPROVED BY THE CITY. THE TYPE AND THICKNESS CLASS SHALL BE PIPE CLASS 52 FOR PIPE DIAMETERS OF 10" AND SMALLER, PIPE CLASS 51 FOR PIPE DIAMETERS BETWEEN 12" AND 16", AND PIPE CLASS 50 FOR DIAMETERS OF 18" AND LARGER. ALL PUSH-ON GASKETS SHALL BE FIELD LOK 350 RESTRAINING GASKETS DESIGNED FOR USE WITH TYTON JOINT MANUFACTURED PIPE OR PUSH-ON RESTRAINING GASKETS DESIGNED FOR USE WITH THE JOINT TYPE OF THE ALTERNATIVE PIPE MANUFACTURER APPROVED BY THE CITY. PUSH-ON RESTRAINED GASKETS SHALL CONFORM TO ANSI/AWWA C11/A21.11. GASKETS FOR PIPE SIZES 4-INCH TO 12-INCH SHALL BE RATED FOR 350 psi. GASKETS FOR 18-INCH TO 24-INCH PIPES SHALL BE RATED FOR 250 PSI. A NON-TOXIC VEGETABLE SOAP LUBRICANT SHALL BE SUPPLIED FROM THE PIPE MANUFACTURER IN SUFFICIENT QUANTITIES FOR INSTALLING THE PIPE FURNISHED.
3. ALL JOINTS (TEES, ELBOWS, BENDS AND BLOW OFFS) TO BE MECHANICALLY RESTRAINED (MEGALUG, FIELD LOK-GRIP RING, OR TUFGRIP). THRUST BLOCKS SHALL NOT BE USED.
4. CITY OF FOREST WATER LINE CORROSION CONTROL METHOD IS AS FOLLOWS:
  - A. MIN. 3/4"-0" ROCK BEDDING EXTENDING A MINIMUM OF 6 INCHES IN ALL DIRECTIONS FROM OUTERMOST PORTIONS OF PIPE EXTERIOR
  - B. SERVICES SHALL HAVE FULL SAND ENCASEMENT TO PROTECT PIPING



**D.I.P WATERLINE  
BEDDING AND BACKFILL DETAILS**

ENGINEERING  
DEPARTMENT  
1924 COUNCIL STREET  
P.O. BOX 326  
FOREST GROVE, OR 97116

DRAWING NO.  
404

SCALE  
NONE