



SIZES 4 IN.  
THRU 12 IN.

SIZES 16 IN.  
THRU 36 IN.

MAIN LINE PIPE SIZE (IN.)	CASING PIPE SIZE (IN.)	CASING WALL THICKNESS (IN.)
4	12	5/16
6	18	5/16
8	20	5/16
10	24	3/8
12	24	3/8
16	30	1/2
20	36	1/2
24	42	1/2
30	48	1/2
36	54	5/8
42	60	5/8
48	66	5/8

**NOTES:**

- THIS DETAIL SHALL BE THE MINIMUM STANDARD FOR THE INSTALLATION OF CASING PIPE FOR WATER AND WASTEWATER PIPELINES.
- CASING PIPE SHALL BE DETERMINED BY ODOT ITEM 638.11 AND CASING PIPE WALL THICKNESS SHALL BE DETERMINED BY ODOT ITEM 748.06.
- ENSURE THAT THE INSIDE DIAMETER OF THE CASING ALLOWS THE WATER MAIN TO BE REMOVED WITHOUT DISTURBING THE CASING OR ROADBED. ENSURE THAT THE INSIDE DIAMETER OF THE CASING IS AT LEAST 2 INCHES (50 MM) GREATER THAN THE LARGEST OUTSIDE DIAMETER OF THE WATER MAIN JOINTS OR COUPLINGS FOR CARRIER PIPE THAT IS LESS THAN 6 INCHES (150 MM). ENSURE THAT THE INSIDE DIAMETER IS AT LEAST 4 INCHES (100 MM) GREATER THAN THE LARGEST OUTSIDE DIAMETER FOR CARRIER PIPE 6 INCHES (150 MM) IN DIAMETER AND OVER.
- OBTAIN THE ENGINEER'S APPROVAL FOR THE METHOD OF ANY BORING OR JACKING OPERATION. IF PLACING THE STEEL CASING IN AN OPEN CUT TRENCH, PLACE IT ACCORDING TO 638.05 AND 638.08.
- CASING PIPE SHALL BE EXTENDED A MINIMUM OF 5 FT. BEYOND THE EDGE OF PAVEMENT OR BACK OF CURB.
- JOIN THE CASING PIPE TOGETHER WITH A FULL-CIRCUMFERENCE WELD CONFORMING TO ODOT ITEM 513.21.
- ALL PUSH-ON JOINTS WITHIN CASING SHALL HAVE FIELD-LOK GASKETS INSTALLED.
- ONLY MANUFACTURED CASING SPACERS SHALL BE USED TO SPACE MAINLINE WITHIN CASING. SELECTED SPACERS MUST ACCOUNT FOR THE CARRIER/CASING DIFFERENTIAL AND SHALL BE APPROVED BY THE CITY ENGINEER. INSTALL THE MAIN IN THE CASING ON MANUFACTURED SPACERS DESIGNED TO REMAIN FIXED IN POSITION. HARDWOOD BLOCKS ARE NOT PERMITTED TO BE USED AS SPACERS.
- CLOSE BOTH ENDS OF THE CASING WITH MORTARED 4-INCH (100 MM) BRICKS, CONCRETE BULKHEAD, OR MANUFACTURED END SEAL.