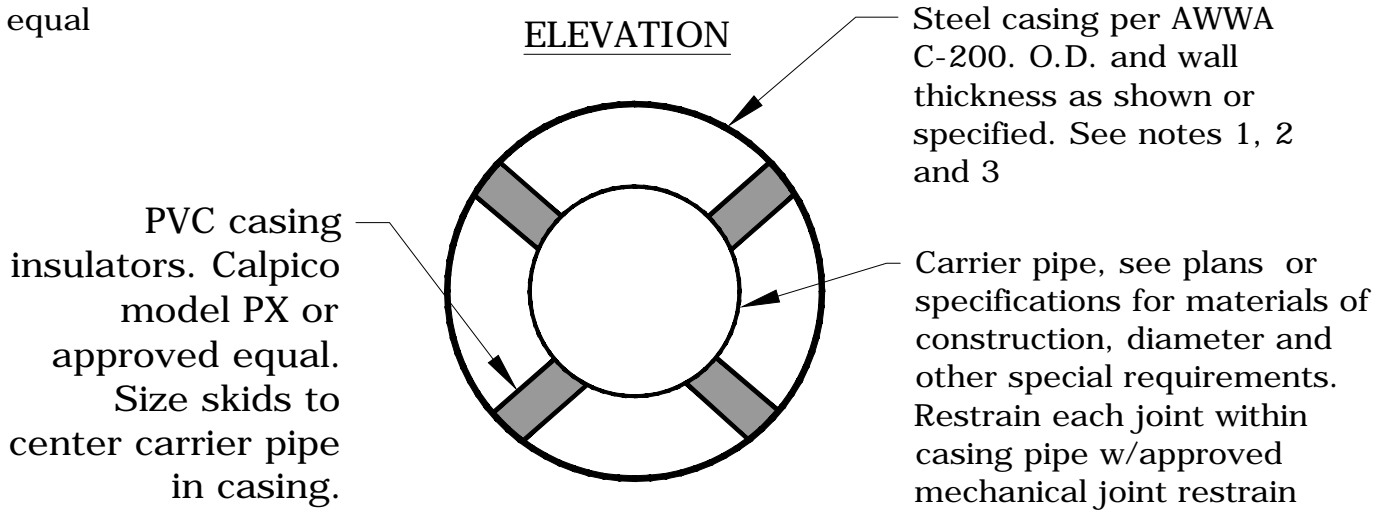


**ELEVATION**



**Notes:** 1) casing inside diameter shall not be less than max. Carrier pipe o.d. + 3 inches.  
 2) Casing wall thickness shall be determined in accordance with the current revision to AWWA manual M-11.  
 3) sections of casing pipe shall be joined by full penetration butt welds. Field welding of steel pipe shall comply with the current revision to AWWA C-206.



City of Lake Oswego  
 Engineering Division  
 Guy Graham, P.E. Public Works Director  
 City Engineer

**STANDARD PIPE CASING DETAIL**

DRAWING NUMBER: **WW4-02**

Drawn: DB	Redrawn: __
Design: JBK	Redesigned: __
Checked: JBK	Update: KBK
Scale: N.T.S.	Update Check: DK
Date: 11/01/01	Date/Update: 4/19/12