

NOTES

1. All dimensions in millimetres.
2. Install pipework parallel to property boundaries.
3. Stainless steel and fusion bonded epoxy (FBE) coated tapping bands do not require additional corrosion protection.
4. Wrap bolted connections using other than FBE coated fittings and stainless steel bolts with a petrolatum tape system (eg denso) in accordance with WSAA codes.

DI & PVC PIPE

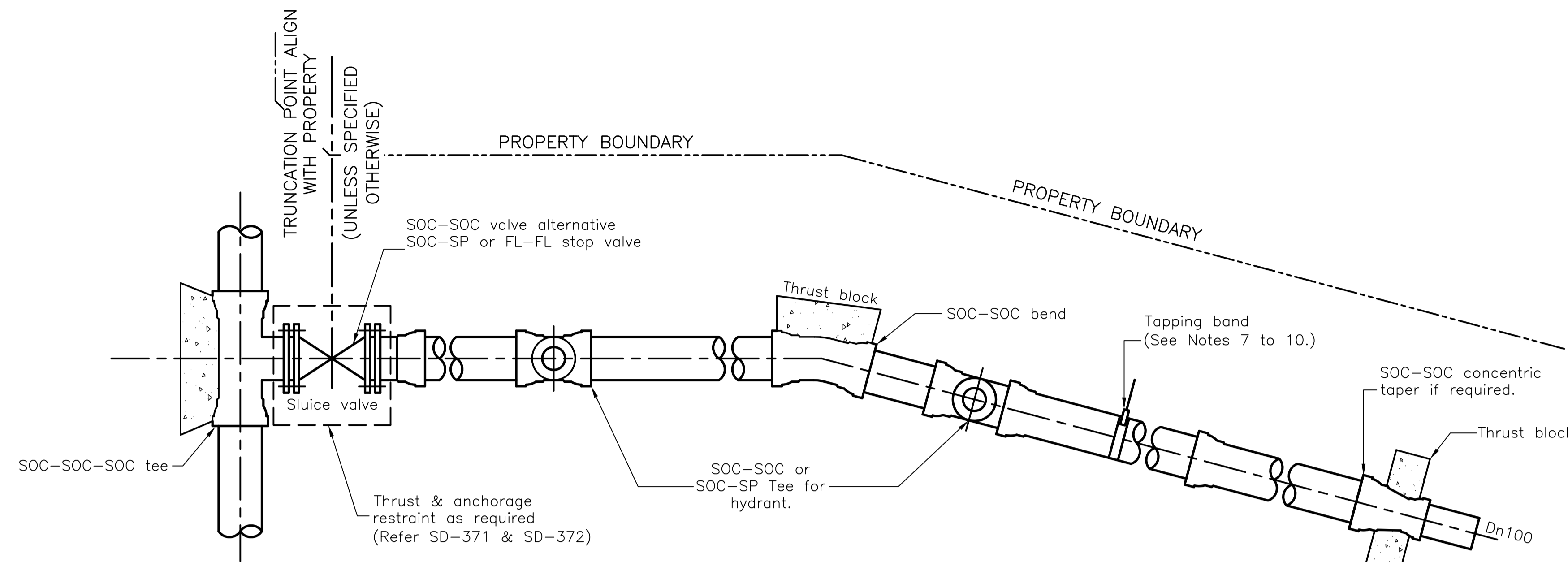
5. Ductile iron fittings may be used with DI & PVC pipe. Fittings may be FBE coated and lined or cement lined with a bituminous external coating. Do not use PVC fittings with DI pipe.
6. PE sleeving required on all bituminous coated DI pipe and fittings applied in accordance with AS3681. Two thicknesses required between fittings and thrust block. Reinstate any damaged sleeving as per manufacturer's specifications.
7. Use tapping bands for connections to existing mains and new mains.
8. Electrically isolate copper services from DI/CL pipe.

PVC PIPE

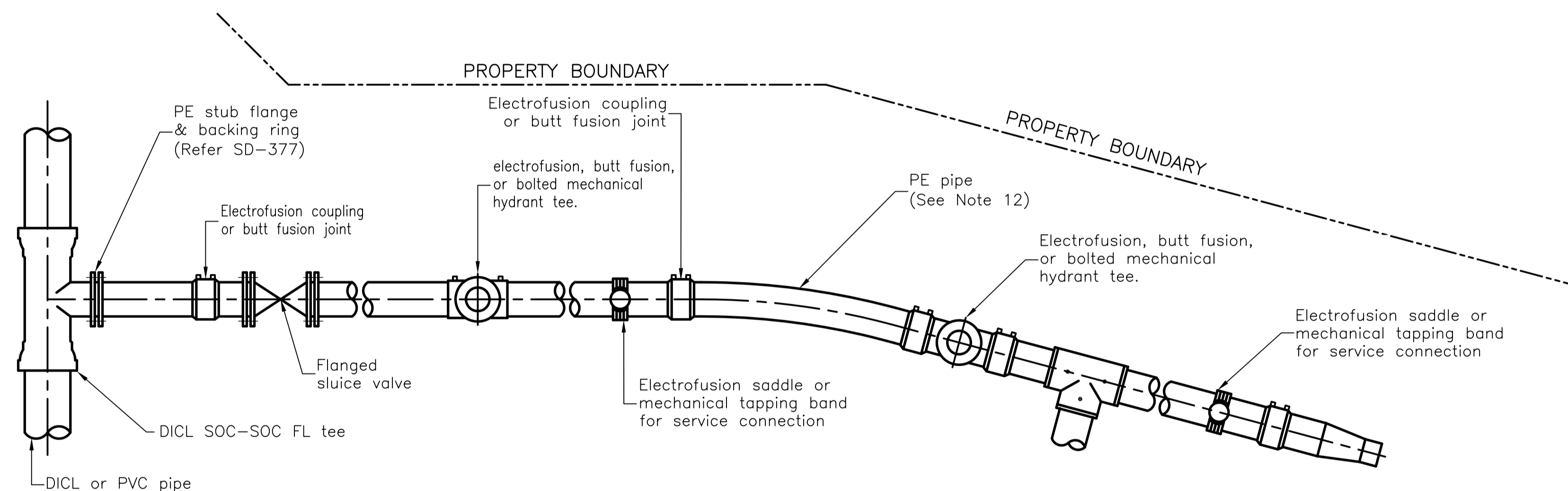
9. Tapping bands on PVC pipe to be full circle clamping.
10. Maximum size of drilled holes for service connections in PVC pipe to be 30% DN or 50 (lower value to be used) larger holes can be used for under pressure tapping.
11. PVC pipe to be PN16.

PE PIPE

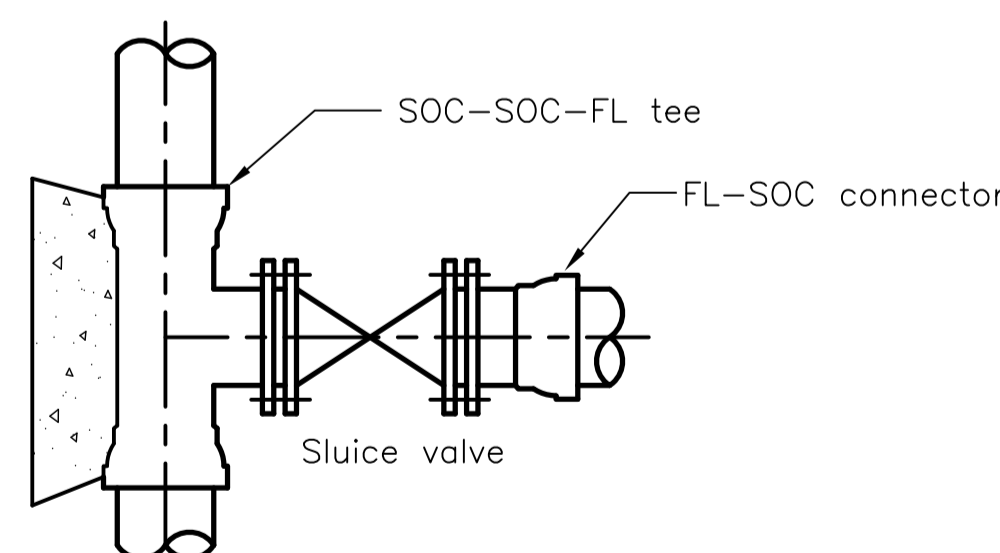
12. PE pipe may be cold bent to minimum radius of 25 x (OD), stakes or other sources of point loads shall not be used to assist in bending the pipe.
13. Make allowance during construction for expansion and contraction of PE pipe due to temperature changes.
14. Butt welding in accordance with WSA-01 (polyethylene code).
15. All mechanical couplings to be self-restraining.
16. PE pipe to be PN16.



TYPICAL INSTALLATION OF PVC & DI PIPES & FITTINGS

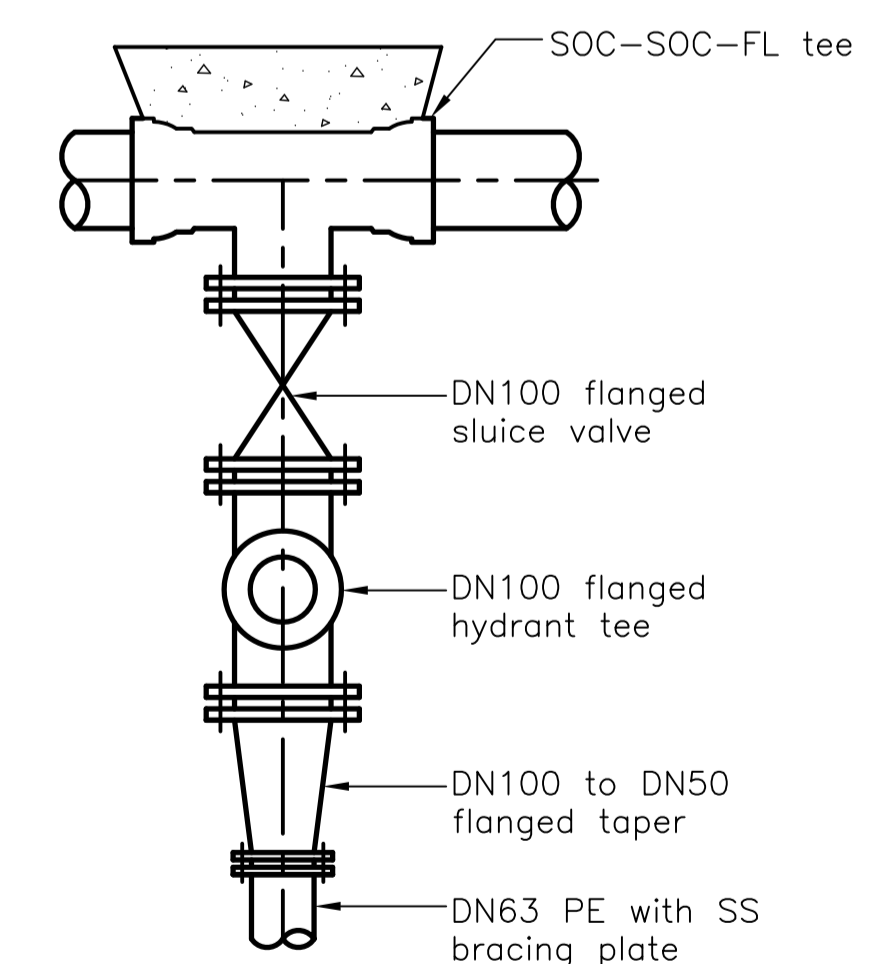


TYPICAL INSTALLATION OF PE PIPES & FITTINGS



TYPICAL VALVE CONNECTION DIRECT TO NEW MAIN

NOTE: CONNECTION TO EXISTING WATER MAIN TO BE PERFORMED BY TOWNSVILLE WATER.



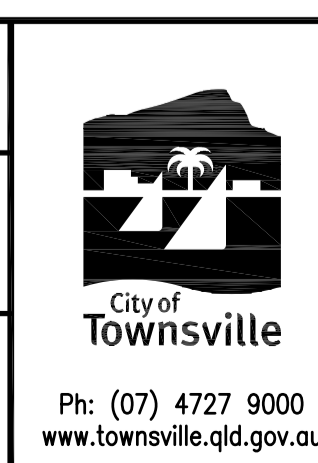
PVC TO PE SERVICE MAIN CONNECTION

No.	DATE	DESCRIPTION	AP'D
B		REFERENCES AMENDED AND DETAIL ADDED	
A		ORIGINAL ISSUE	
REVISIONS			

NOTES : BASED ON FORMER WSAA DRAWING WAT-1102

Full Size A1
Not to Scale

DRAWN: DESIGN OFFICE
CHECKED: D Moseley
Design Engineer Approved: P Turl
Date: 24-07-2012
Manager Approved: M Harvey
Date: 24-07-2012



**TYPICAL MAINS CONSTRUCTION
RETICULATION MAIN ARRANGEMENTS**

**STANDARD
DRAWING
WATER
SD-315 B**