

NOTES:

1. SA WATER HAS SPECIFIC REQUIREMENTS FOR THE DESIGN AND INSTALLATION OF WATER INFRASTRUCTURE WHICH SHOULD BE CONSIDERED TOGETHER WITH THE ACCOMPANYING WATER SERVICES ASSOCIATION OF AUSTRALIA (WSAA) CODES.
SA WATER DOCUMENTATION COMPRISES:
 - THE WSAA WATER SUPPLY CODE OF AUSTRALIA, WSA03-2011,
 - SA WATER SUPPLEMENT TO WSA03-2011,
 - WSCM CONSTRUCTION DRAWINGS,
 - ENGINEERING STANDARDS & GUIDELINES,
 - AUTHORISED PRODUCTS WITHIN THE SA WATER SYSTEMS.
2. AUTHORISED ITEMS:
 - ONLY ITEMS DISPLAYED IN THE SA WATER CATALOGUE SHALL BE USED WITHIN THE DRINKING WATER SYSTEMS,
 - ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S GUIDELINES,
 - SHOULD A PROJECT REQUIRE AN ITEM NOT INCLUDED IN THE SA WATER CATALOGUE, APPROVAL SHALL BE SOUGHT FROM THE SA WATER REPRESENTATIVE FOR THE USE OF SPECIFIC ITEM.
3. SA WATER REPRESENTATIVE:
THE CONTRACTOR SHALL SEEK APPROVAL FOR:
 - NONCONFORMITY WITH THE WSCM STANDARD DRAWINGS,
 - DEVIATION FROM THE DESIGN DRAWINGS,
 - UNFORESEEN SITE FACTORS IMPACTING THE DESIGNED LOCATION OF THE INFRASTRUCTURE.
4. DRINKING WATER AND NON DRINKING WATER SYSTEMS:
 - WSCM CONSTRUCTION DRAWINGS ARE RELEVANT TO BOTH RETICULATION SYSTEMS,
 - THE AUTHORISED ITEMS DOCUMENT COVERS BOTH DRINKING WATER AND NON DRINKING WATER SYSTEMS.
5. EXCAVATION:
 - ALL EXCAVATION WORK SHOULD BE UNDERTAKEN IN SUCH A MANNER AS TO MINIMISE RISK TO WORKERS AND OTHERS. AT ALL TIMES SAFE WORK PRACTICES SHALL BE IMPLEMENTED THAT AS A MINIMUM REQUIREMENT COMPLY WITH THE REQUIREMENTS OF RELEVANT LEGISLATION AND INDUSTRY GUIDELINES INCLUDING BUT NOT LIMITED TO:
 - THE WORK HEALTH AND SAFETY ACT 2012 (SA),
 - THE WORK HEALTH AND SAFETY REGULATIONS 2012 (SA),
(SPECIFICALLY CHAPTER 6, DIVISION 3 – EXCAVATION WORK.)
 - SAFE WORK AUSTRALIA'S EXCAVATION WORK CODE OF PRACTICE.
 - SA WATER RESERVES THE RIGHT TO REVIEW SAFE WORK PRACTICES UNDERTAKEN BY ALL CONTRACTORS IN ACCORDANCE WITH THE ABOVE REQUIREMENTS.
6. EMBEDMENT & BACKFILL:
 - EXCAVATION OF TRENCH, EMBEDMENT AROUND PIPES, ASSEMBLIES & CONNECTIONS, AND TRENCH BACKFILL SHALL BE IN ACCORDANCE WITH THE WSCM SECTION 3 DRAWINGS,
 - ONLY MATERIALS APPROVED FOR PLACEMENT WITHIN TRENCHES & EXCAVATIONS SHALL BE USED.
7. OBSTRUCTIONS & CLEARANCE REQUIREMENTS:
 - FOR MINIMUM HORIZONTAL & VERTICAL CLEARANCE BETWEEN SA WATER INFRASTRUCTURE AND OTHER AUTHORITY PIPES/ CABLES REFER WSA03, TABLE 5.5.
 - FOR MINIMUM CLEARANCE REQUIREMENTS FOR STRUCTURES & OTHER PIPES REFER TABLE 3 WHERE THE CONTRACTOR MAY ENCOUNTER EXISTING UNDERGROUND SERVICES, A 'DIAL BEFORE YOU DIG' INVESTIGATION (DBYD) SHALL BE UNDERTAKEN.

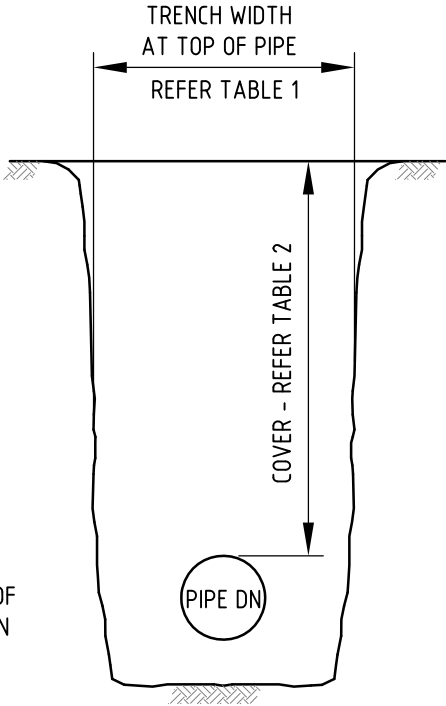
TABLE 1
TRENCH WIDTH

PIPE DN	TRENCH WIDTH	
	MINIMUM	MAXIMUM
63 – 90	400	700
100 – 150	500	800
200 – 250	600	1000
300 – 375	800	1000

TABLE 2
MINIMUM PIPE COVER

PIPE DN	PIPE COVER	
	MINIMUM	MAXIMUM
63 – 200	750	1200
250	800	1200
300	875	1200
375	950	1200

NOTE:
FOR CONSIDERATION OF PIPE COVER THE TOP OF VALVE SPINDLE OR VALVE SPINDLE EXTENSION SHALL BE MINIMUM 150mm TO MAXIMUM 300mm BELOW ROAD SURFACE LEVEL.



8. EASEMENT WIDTHS AND CLEARANCES
BECAUSE OF THE POTENTIAL FOR DAMAGE IF A WATER MAIN BURSTS, THE EASEMENT WIDTH AND CLARENCE REQUIREMENTS ARE CONSIDERABLY GREATER THAN THOSE REQUIRED FOR SEWERS:
 - FOR SA WATER'S MINIMUM REQUIREMENTS FOR EASEMENT WIDTH & CLARENCE TO STRUCTURES & OTHER PIPES REFER TABLE 3.

TABLE 3
EASEMENT WIDTHS & CLEARANCES

WATER MAIN DIAMETER	EASEMENT WIDTHS (mm)	MINIMUM CLEARANCE (mm)	
		STRUCTURES	OTHER PIPES
DN63 TO DN150	7000	4000	1200
DN200 TO DN375	10000	5000	1500

- WHERE A WATER MAIN EASEMENT IS SHARED WITH A STORMWATER PIPELINE, THE STORMWATER EASEMENT MAY OVERLAP EITHER A PORTION OR THE WHOLE WIDTH OF THE SA WATER EASEMENT.
- THE WATER MAIN SHALL BE LOCATED WITHIN THE EASEMENT ON THE OPPOSITE SIDE TO ANY BUILDING OR STRUCTURE.
- WHERE AN EASEMENT CONTAINS DUAL WATER SYSTEM PIPES (DRINKING & NON DRINKING) THERE SHALL BE A MINIMUM SEPARATION OF 1500 mm BETWEEN THE MAINS..
- REFER SA WATER SUPPLEMENT TO WSA 03-2011, CLAUSE 5.4.4. FOR PROVISION OF EASEMENT REQUIREMENTS.

FOR ADDITIONAL NOTES REFER 4005-30002-02.

REVISION PANEL					DESIGN PANEL			SA WATER STANDARD DRAWINGS			A3		2	
REV	DATE	DRN	DETAILS	APR	CURRENT REV 16/12/16	DESIGNED: 28/09/15	AUTHORISED: 31/03/16	SA Water		WATER SUPPLY CONSTRUCTION MANUAL	SHT SIZE	TOTAL SHEETS: 3		REVISION
					AUTHORISED: T. GALEK	RJP								
					SIGNATURE:	DRAWN: 16/11/15	SIGNATURE:							
						MS		This drawing is the property of the SOUTH AUSTRALIAN WATER CORPORATION and shall not be copied or modified in part or in whole without authorization.		GENERAL NOTES		SUPERSEDES:		DRAWING NUMBER
2	19/07/16	PC	TABLE 3 AMENDED			REVIEWED: 21/03/16	ORIGINAL SIGNED							
1	31/03/16	MS	2016 STANDARDS REVIEW	TG		TG				SHEET 1 OF 3		4005-30002-01		
											PREFIX	NUMBER	SHEET	