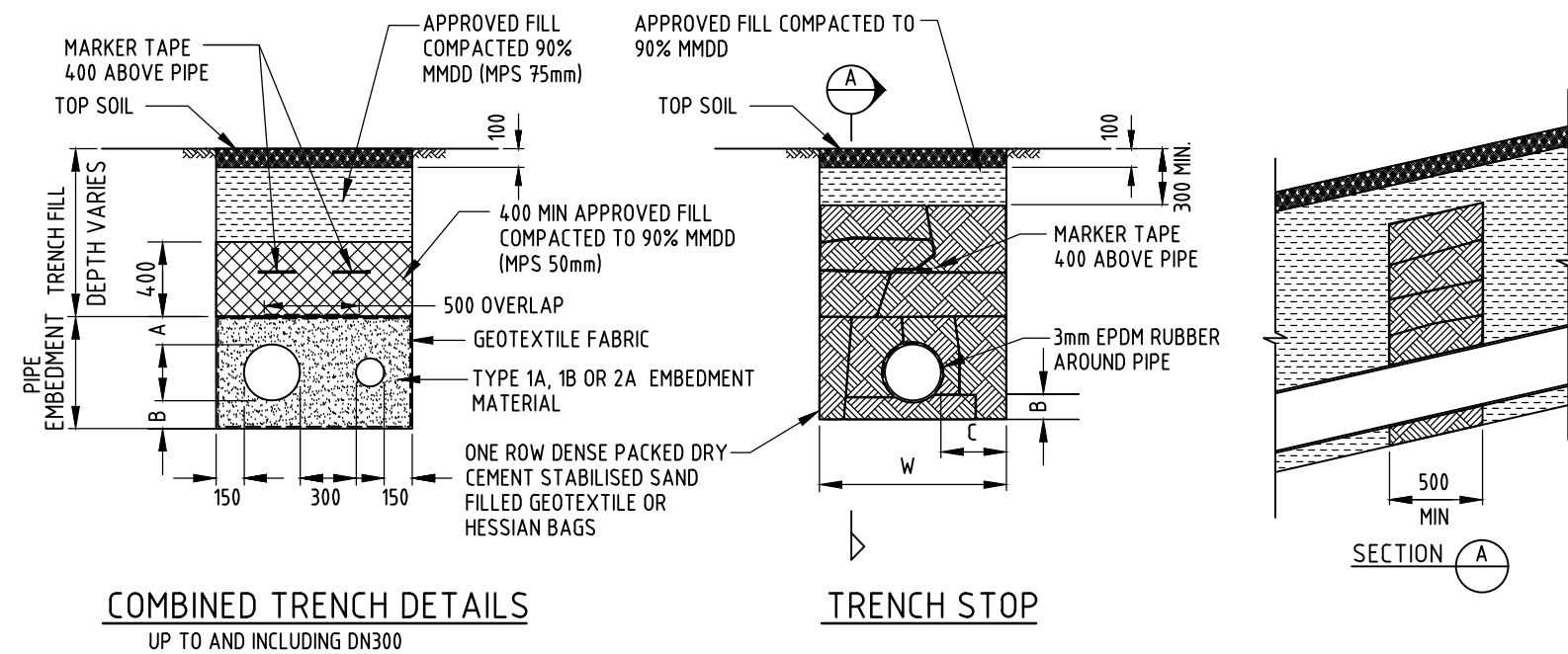


## NOTES

- ALL TRENCHES ARE TO BE FULLY REINSTATED TO EXISTING NATURAL SURFACE LEVEL.
- WHERE THE WATER MAIN PASSES THROUGH TURNOUT DRAINS, TABLE DRAINS AND OPEN UNLINED DRAINAGE CHANNEL, THE FINISHED SURFACE SHALL BE REINSTATED TO MATCH EXISTING PROFILE.
- PROVIDE VERTICAL GEOTEXTILE BARRIER AT BOUNDARY BETWEEN DIFFERENT BEDDING TYPES.
- MPS - MAXIMUM PARTICLE SIZE.
- MINIMUM OVERLAP FOR GEOTEXTILE CAN BE REDUCED TO 400mm WHERE TRENCH WIDTH IS LESS THAN 500mm.
- USE RESTRAINED JOINTS UNDER MAJOR ROADS, HEAVY TRAFFICABLE AND CBD AREAS.
- TYPE 2A MATERIAL SHALL BE USED FOR DN750 OR GREATER EXCEPT FOR SINTAKOTED MSCL PIPE WHERE SUPPORTED BY MANUFACTURER.
- PLACE TRENCHFILL IN LOOSE LAYERS AND COMPACT EACH LAYER SEPARATELY. LAYERS SHALL NOT EXCEED 200mm (TRAFFICABLE AREAS) AND 300mm (NON TRAFFICABLE AREAS).
- ROAD REINSTATEMENT TO MEET ROAD OWNERS' SPECIFICATIONS.
- GEOTEXTILE FABRIC TO WSA PS 355. CEMENT STABILISED SAND TO WSA PS 352 AND VIBRATED WHEN PLACED.

PIPE SIZE (DN)	MINIMUM TRENCH WIDTH (W)	EMBEDMENT DIMENSIONS		
		A	B	C
150	450 (a)	100	150	100
200	600	150	150	150
225	600	150	150	150
250	600	150	150	150
300	750	150	150	150
375	900	150	150	200
450	900	150	150	200

(a). WHERE WORKER ACCESS IS REQUIRED THE MINIMUM WIDTH SHOULD BE 600mm.



## TRENCH STOP

MINIMUM COVER	ROAD RESERVE OR NORMAL TRAFFICABLE AREAS CREEK CROSSING OPEN UNLINED DRAINS	750mm
	NON-TRAFFICABLE AREA (EASEMENT, PARK, ETC..)	600mm
	NTG MAJOR ROADS OR HEAVY TRAFFICABLE AREAS	1500mm
	NOTE: PVC NOT TO BE USED UNDER ROADS.	
STRUCTURAL SLAB WILL BE REQUIRED OVER PIPE BEDDING IF ABOVE MINIMUM COVER CANNOT BE MAINTAINED.		

## EMBEDMENT MATERIAL

HOLD POINT: PROVIDE NATA TEST CERTIFICATES TO THE SUPERINTENDENT NOT LESS THAN SEVEN DAYS PRIOR TO PLACING EMBEDMENT MATERIAL IN THE EXCAVATION AND STATE THE SOURCE OF THE MATERIAL. DO NOT PLACE ANY EMBEDMENT UNTIL MATERIAL HAS BEEN APPROVED.

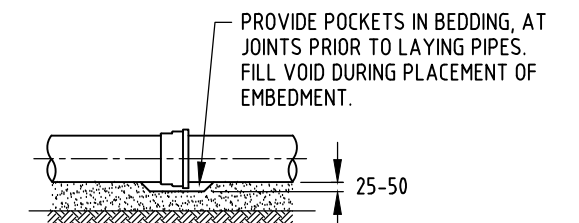
TYPE 1 EMBEDMENT MATERIAL: SAND FREE OF CLAY, DUST, SALT OR ORGANIC MATTER.

SIEVE SIZE	PERCENTAGE PASSING BY DRY WEIGHT	
	TYPE 1A	TYPE 1B
4.75 mm	100	90 - 100
2.36 mm	95 - 100	75 - 100
1.18 mm	80 - 100	45 - 95
600 µm	40 - 80	20 - 80
300 µm	0 - 6	0 - 6
150 µm	0 - 6	0 - 6
75 µm	0 - 6	0 - 6

LINEAR SHRINKAGE OF MATERIALS PASSING A 425 µm SIEVE SHALL BE LESS THAN 2.5%.

TYPE 2 EMBEDMENT MATERIAL: SINGLE SIZE GRAVEL COMPRISING OF CLEAN, HARD, SOUND CRUSHED ROCK, WITH A LOS ANGELES ABRASION LOSS (LA) OF LESS THAN 30, NON-PLASTIC AND FREE OF ORGANIC MATTER.

SIEVE SIZE	PERCENTAGE PASSING BY DRY WEIGHT	
	TYPE 2A (10mm SINGLE SIZE)	TYPE 2B (20mm SINGLE SIZE)
19.0 mm	100	100
9.5 mm	95 - 100	0 - 5
4.75 mm	0 - 5	0 - 1



## PIPE JOINT BEDDING POCKETS FOR JOINT PROJECTIONS (SOCKETS, FLANGES ETC.)

4	WATER SERVICE DETAIL ADDED DETAIL 8, COMBINED TRENCHES AND NOTES AMENDED. GENERAL AMENDMENTS 2022. REDRAWN, RENUMBERED, & AMENDED 2021. ISSUED FOR INFORMATION.	J.C.	JUL'25	J.C.	D.C.
3		J.W.	JAN'24	J.C.	D.C.
2		P.W.	JUN'22	J.C.	D.C.
1		P.W.	JUN'21	J.R.	D.C.
0		A.W.	OCT'18	J.R.	D.C.
NO	DESCRIPTION	DRN	DATE	CKD	APPD
AMENDMENTS					

 N O R T H E R N   T E R R I T O R Y	DES	T.M.	WATER STANDARD DRAWING MAINLAYING DN150 – DN450 TRENCHING DETAILS – 6, 7, 8, COMBINED & TRENCH STOP		
	DRN	A.W.			
	CHK	J.R.			
	APPD	D.C.			
	SCALE	N.T.S.			
	ISSUED	OCT' 19	A3	DRAWING NUMBER W1-2-21B	4
	ALL DIM. IN mm				
DRAFTING STANDARD TO A.S.1100			CAD PRODUCT – DO NOT AMEND MANUALLY	AMDT	

**PowerWater**  
NORTHERN TERRITORY

DES	T.M.	WATER STANDARD DRAWING MAINLAYING DN150 - DN450 TRENCHING DETAILS - 6, 7, 8, COMBINED & TRENCH STOP	
DRN	A.W.		
CHK	J.R.		
APPD	D.C.		
SCALE	N.T.S.		
ISSUED	OCT' 19		
ALL DIM. IN mm		A3	DRAWING NUMBER W1-2-21B
DRAFTING STANDARD TO A.S.1100		CAD PRODUCT - DO NOT AMEND MANUALLY	
		4	
		AMDT	