

PIPE LOCATION ZONE DESCRIPTION	FREEWAYS & ARTERIAL ROADS (UNDER PAVEMENTS)	OTHER ROAD PAVEMENTS	FOOTPATHS VEHICLE ACCESS	NATURE STRIPS & TREE RESERVES	REMARKS
MIN. COVER	1200mm	800mm	800mm	600mm (MEASURED FROM LIP OF KERB)	FINAL REPAIRS BY ARRANGEMENT WITH CONTROLLING AUTHORITY
SURFACE COURSE 75mm MIN.	TEMPORARY REPAIR PAVED AREAS 7mm COLD ASPHALT	TEMPORARY REPAIR PAVED AREAS 7mm COLD ASPHALT	TEMPORARY REPAIR TO SUIT LOCAL CONDITIONS	TOPSOIL & SEEDING ETC. TO MATCH EXISTING SURFACE	COMPACT 150mm(MAX) COMPACTED LAYERS TO ACHIEVE COMPACTION TARGET
UPPER 150mm MIN. BACKFILL	R <sub>d</sub> =98% 20mm A GRADE CRUSHED ROCK	R <sub>d</sub> =98% 20mm A GRADE CRUSHED ROCK	R <sub>d</sub> =95% 20mm A GRADE CRUSHED ROCK	SELECTED EXCAVATED MATERIAL (REF. NOTE 2) R <sub>d</sub> =85%	COMPACT 150mm(MAX) COMPACTED LAYERS TO ACHIEVE COMPACTION TARGET
LOWER BACKFILL	R <sub>d</sub> =95% 40mm B GRADE CRUSHED ROCK	R <sub>d</sub> =95% 40mm B GRADE CRUSHED ROCK	R <sub>d</sub> =90% 40mm B GRADE CRUSHED ROCK	SELECTED EXCAVATED MATERIAL (REF. NOTE 2) R <sub>d</sub> =85%	COMPACT 150mm(MAX) COMPACTED LAYERS TO ACHIEVE COMPACTION TARGET
EMBEDMENT ZONE	EMBEDMENT SAND OR 5mm MINUS (REFER NOTE 9) R <sub>d</sub> =85%				METHODS PROVEN TO ACHIEVE SPECIFIED COMPACTION TARGET

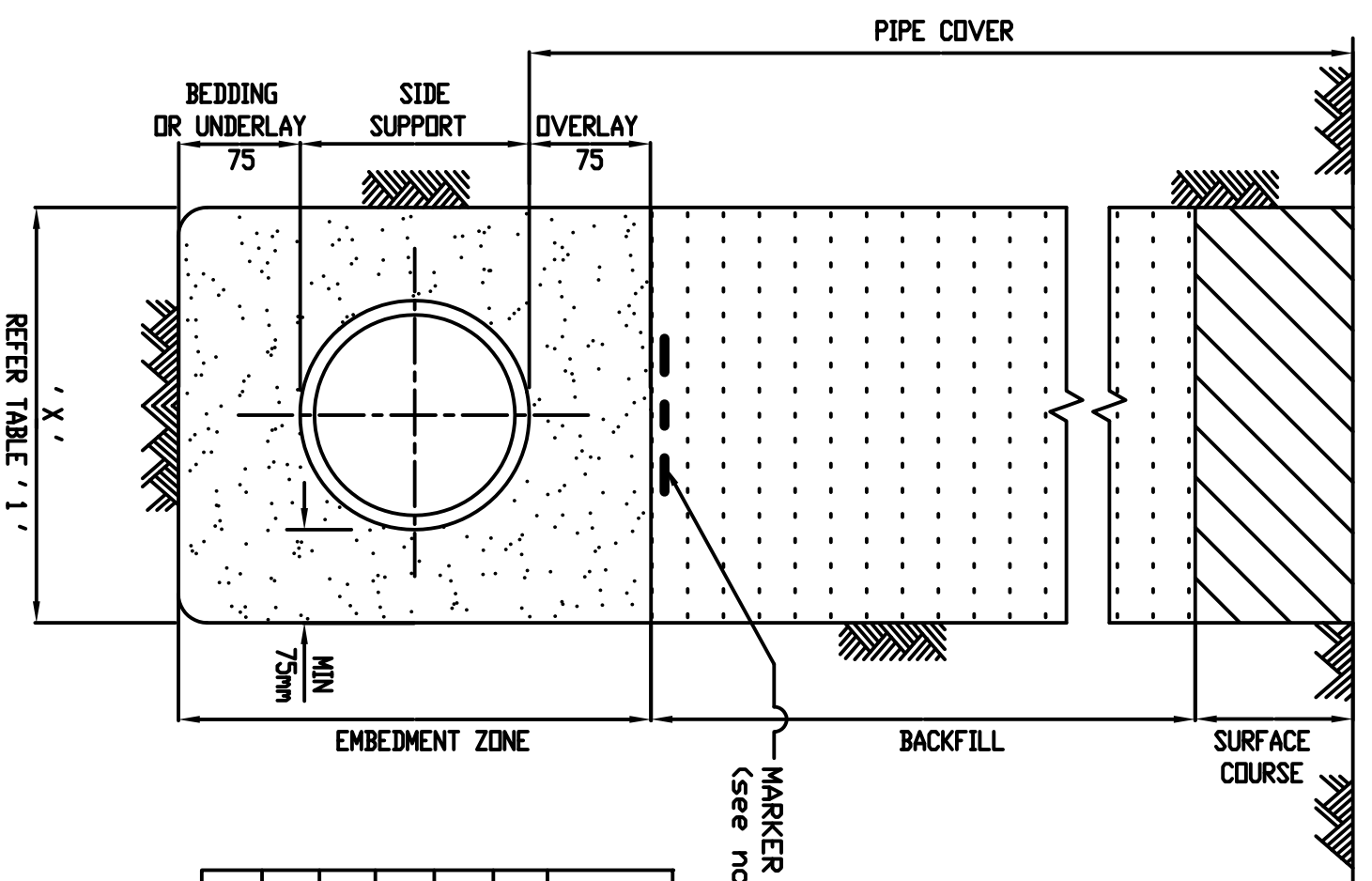
TABLE 2

NOTES: EMBEDMENT & BACKFILLING DETAILS

- THIS DRAWING REFERS TO ALL APPROVED WATER MAIN PIPE MATERIALS.
- SELECTED EXCAVATED MATERIAL FREE OF HARD, SHARP OBJECTS AND ORGANIC MATERIAL IS ACCEPTABLE AS BACKFILL MATERIAL WHERE SPECIFIED, PROVIDED THE RELEVANT COMPACTION TARGET IS ACHIEVED. THE MAXIMUM PARTICLE SIZE IS 75mm FOR BACKFILL MATERIAL.
- IMPORTED SELECTED MATERIAL MUST BE USED WHERE EXCAVATION IS IN ROCK OR REEF.
- SANDS AND CRUSHED ROCK MUST BE IN ACCORDANCE WITH THE SPECIFICATION.
- SAND IS SUITABLE FOR SLUICING, JETTING OR MECHANICAL COMPACTION. EXCAVATED MATERIALS MUST BE COMPACTED BY MECHANICAL METHODS ONLY.
- THE DRY DENSITY (RD)(STANDARD) OF THE MATERIAL MUST BE TESTED IN ACCORDANCE WITH AS1289, TEST PROCEDURES E11 & E4.1.
- WHERE TRENCH EXCAVATION EXCEEDS THE DESIGN DEPTH BY MORE THAN 150, THE EXCESS MUST BE REFILLED TO THE REQUIRED INVERT LEVEL WITH 20mm CRUSHED ROCK COMPACTED TO R<sub>d</sub>=95%.
- WHERE SUBSTANTIAL TRENCH SUPPORT IS REQUIRED THE SPECIFIED MINIMUM TRENCH WIDTH MUST BE MAINTAINED INSIDE THE SUPPORT.
- FOR EMBEDMENT OF PIPES, EMBEDMENT SAND OR 5mm MINUS SCORIA OR CRUSHED ROCK AS APPROVED BY THE SUPERINTENDENT IS TO BE USED.
- MARKER TAPE AS SPECIFIED ON DESIGN DRAWINGS.
- CRUSHED ROCK REFILL & COMPACTION SPECIFIED SHALL BE VERIFIED WITH RESPONSIBLE ROAD AUTHORITY.

PIPE NS.	MINIMUM TRENCH WIDTH 'X'	
	CLAY	ROCK
63	225	325
100	300	400
150	350	450
225	425	525
300	500	600
375	575	675

TABLE 1  
TRENCH WIDTH



TRENCH AND EMBEDMENT DETAILS

REVISIONS		WANNON REGION WATER AUTHORITY	
1	MARKER TAPE, DEPTH & PIPE SIZES	12/07/10	I.B.
0	ISSUED FOR CONSTRUCTION	16.05.01	A.R.M.
REVISION	DETAILS	DATE	APPROVED
WATER MAIN STANDARD DETAIL DRAWING		SCALE N.T.S.	
EXCAVATION AND PIPE EMBEDMENT DETAILS		SHEET 1 OF 1	
		DRAWING NO. W-351-C	