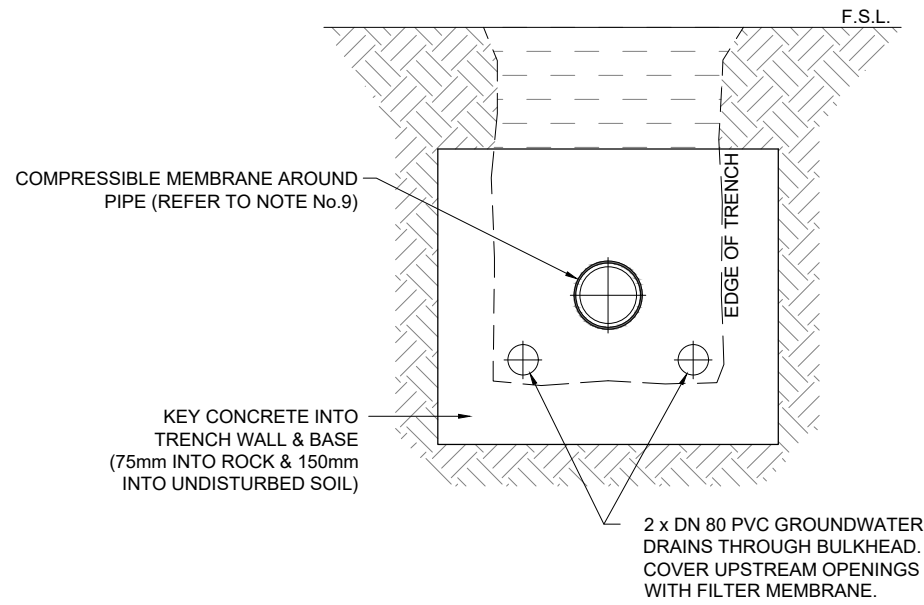
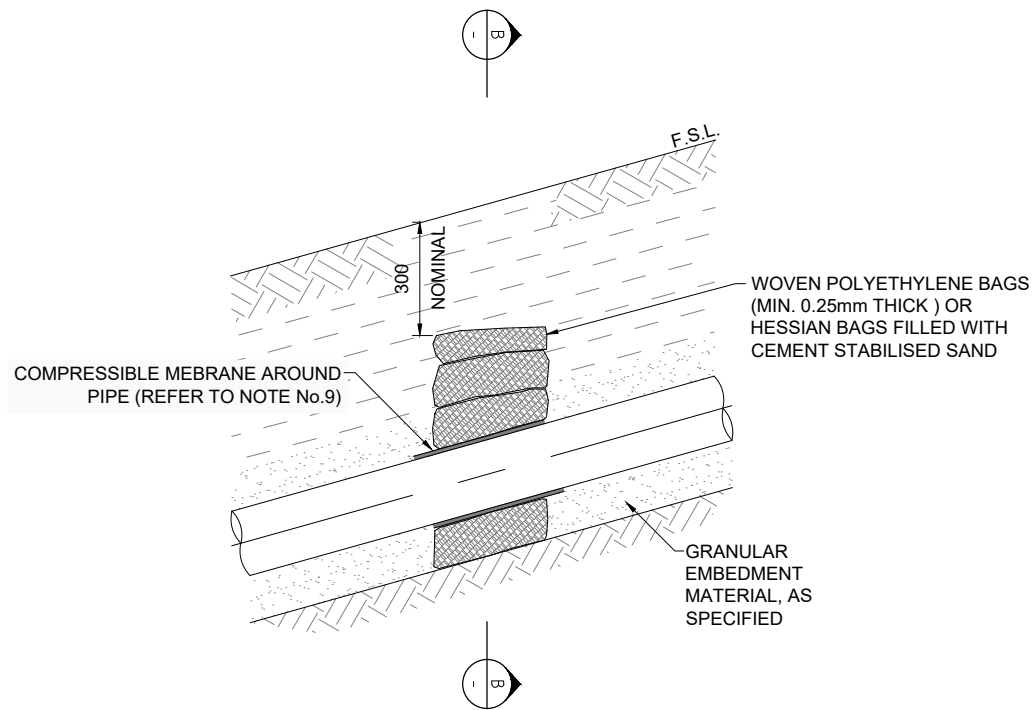


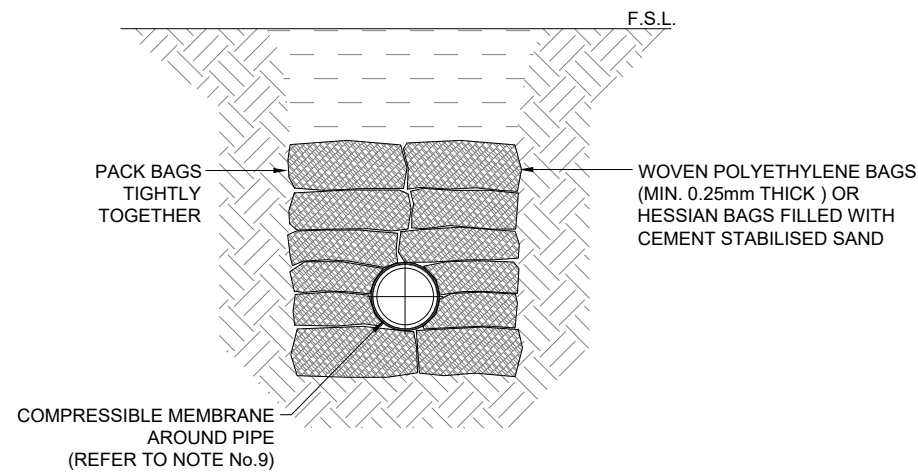
CONCRETE BULKHEAD DETAIL (15-30%)
SCALE 1:20 (A3)



SECTION A
SCALE 1:20 (A3)



TRENCH STOP DETAIL (5-14%)
SCALE 1:20 (A3)



SECTION B
SCALE 1:20 (A3)

NOTES:

1. ALL DIMENSIONS IN MILLIMETRES.
2. CONSTRUCT CONCRETE BULKHEADS AND TRENCH STOPS AT LOCATIONS SPECIFIED IN THE DESIGN DRAWINGS.
3. BULKHEAD AT RETAINING WALL TO BE UNDER WALL.
4. KEY CONCRETE BULKHEADS INTO SIDES OF BOTTOM OF TRENCH AGAINST A BEARING SURFACE OF UNDISTURBED SOIL.
5. CONCRETE TO BE CLASS N25.
6. DO NOT DEFORM PIPES DURING PLACEMENT OF CONCRETE.
7. SEAL BAGS TO PREVENT LEAKAGE OF CONTAINED MATERIAL.
8. PROVIDE A CONTINUOUS DRAINAGE PATH
 - THROUGH BULKHEADS AND TRENCH STOPS
 - AROUND VALVE CHAMBERS
 - IN TRENCH EXCAVATIONS ACROSS ROADWAYS
 TRENCH DRAINAGE TO BE IN ACCORDANCE WITH WSA02-2002 SEW-1217.
9. COMPRESSIBLE MEMBRANE AROUND PIPE TO BE 3mm THICK RUBBER FOR BULKHEADS AND TRENCH STOPS ON SLOPES.
10. FOR SLOPES > 30% CONTINUOUSLY ENCASE THE PIPE TO PREVENT MOVEMENT AND TRANSFER OF GROUND WATER. WRAP JOINTS TO PREVENT DAMAGE TO RRJ.
11. A NOMINAL 75mm DIAMETER DRAINHOLE IS REQUIRED IN THE BULKHEAD WITH CRUSHED ROCK OR GRAVEL ON TOP OF THE FOUNDATION OR ENCASEMENT BEDDING IN ACCORDANCE WITH C402.29.1.C
12. FOR FURTHER DETAILS OF CONCRETE BULKHEAD REQUIREMENTS REFER TO C.402.29.1.

C	NOTES AMENDED	S.K.J	18.03.2019
B	ROAD CROSSING BULKHEAD DETAIL REMOVED, NOTE No.3 REMOVED & NOTE No.9 AMENDED	G.P.C.	19.12.2013
A	ORIGINAL ISSUE	G.P.C.	08.10.2010
ISSUE	AMENDMENT DETAILS	INITIALS	DATE



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DESIGN ENGINEER DATE 19.12.13
DESIGN MANAGER DATE 20.12.13
DRAWN	ENGINEERING & OPERATIONS DESIGN UNIT
SCALE	1:20 (A3)

PROJECT:	SEWERAGE WORKS STANDARDS
PLAN TITLE:	TRENCH DRAINAGE BULKHEADS & TRENCH STOPS

DRAWING NUMBER:	S.D. 276
	JAN 2014

