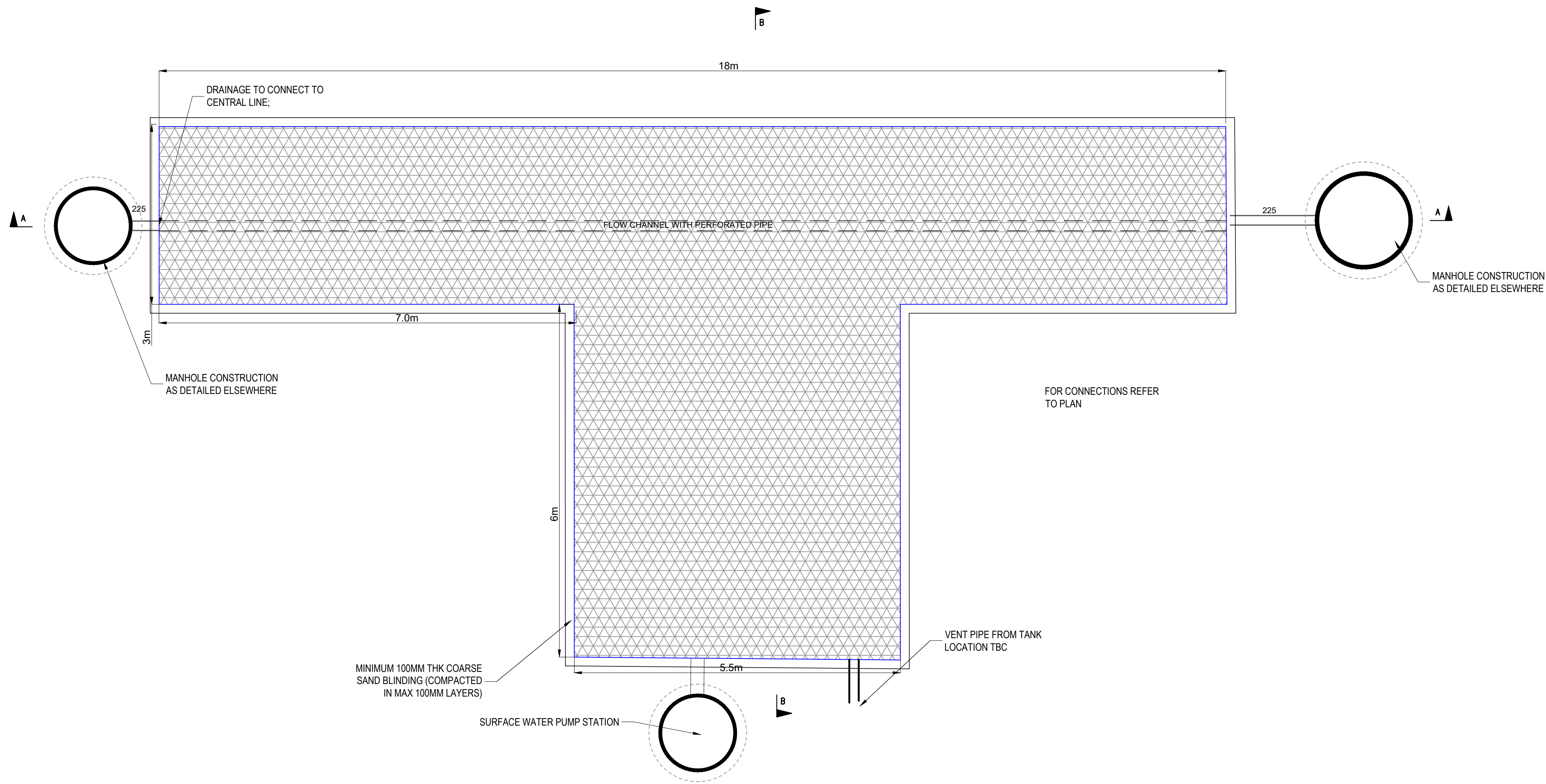
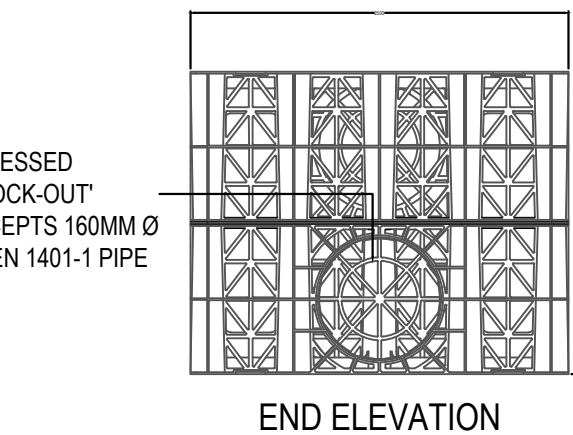
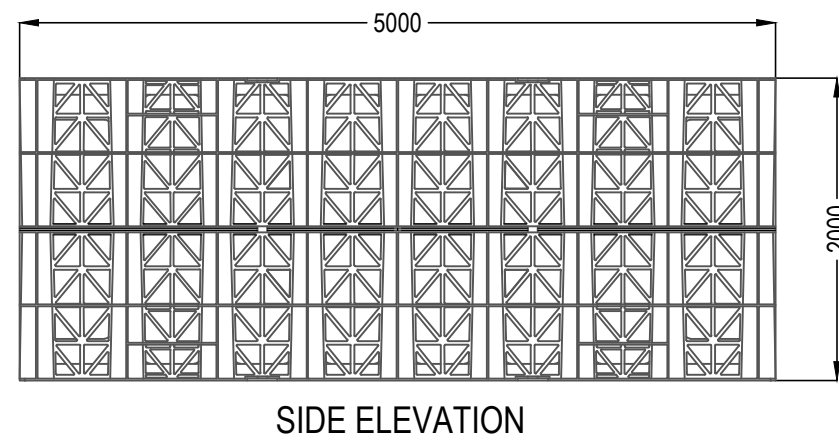
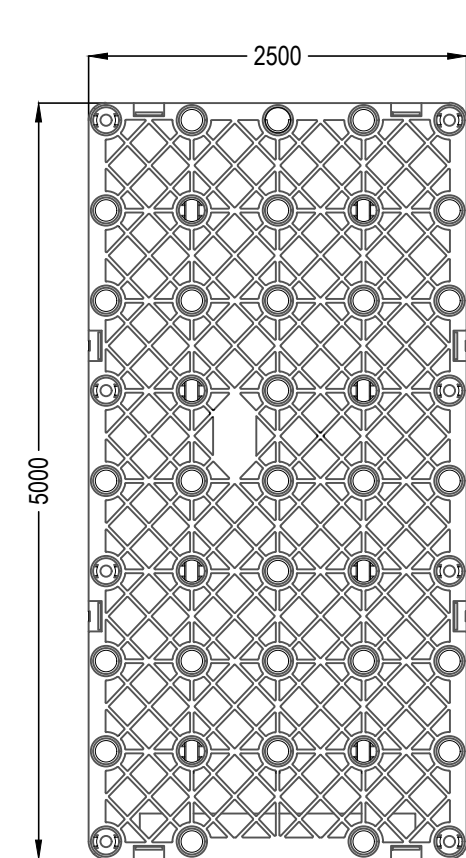
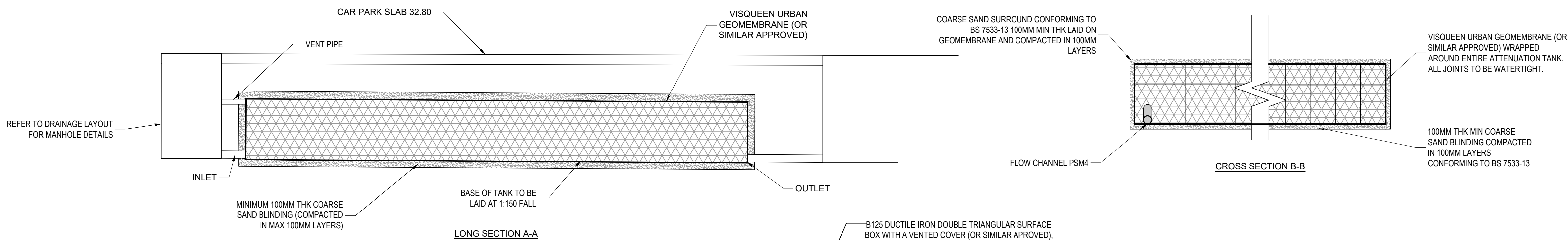
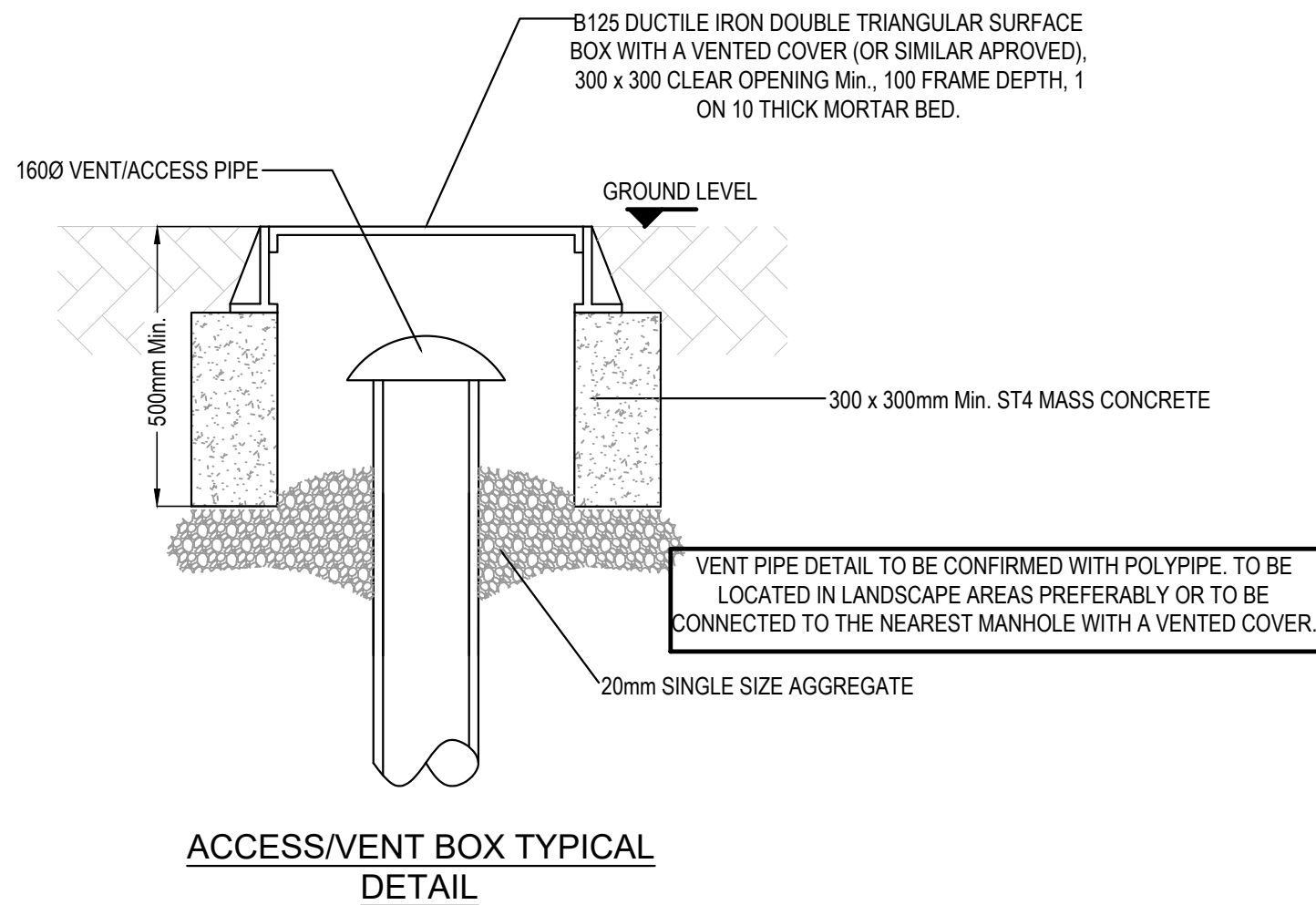




TYPICAL ATTENUATION TANK PLAN



POLYPIPE POLYSTORM PSM1A
ONE UNIT TYPICAL DETAILS



CURRENT DESIGN ASSUMPTIONS

DESIGN BASED ON POLYPIPE 1000LX500WX400D

TANK IS LOCATED UNDER BASEMENT SUSPENDED SLAB - CAR PARK

THE MANUFACTURER WILL NEED TO CONFIRM THAT THE TANK HAS SUFFICIENT STRENGTH FOR THIS LOCATION IN ACCORDANCE WITH CIRIA C680.

GROUND LEVEL IS 32.80.

INVERT LEVEL OF INLET PIPES - VARIES (SEE LAYOUT)

TANK BASE 30.84

INVERT LEVEL OF OUTLET PIPE - 30.84

BASE OF TANK TO BE LAID AT 1:150 FALL.

DIMENSIONS OF TOTAL UNIT AS SHOWN

TANK HEIGHT IS 1600mm.

ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 130.70m³

IMPERMEABLE MEMBRANE, BED AND SURROUND TO BE CONFIRMED WITH THE MANUFACTURER.

PERCHED GROUND WATER LEVEL 37.08MAOD BASED ON WS104 TABLE 5.7 SITE INVESTIGATION, FLOATATION CALCULATION SHOULD BE CARRIED OUT BY MANUFACTURER

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- ALL DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE.
- REFER TO DRAINAGE LAYOUT 63068-CUR-XX-B1-DR-C-5200- Drainage Layout FOR THE LOCATION OF THE ATTENUATION TANK.
- ATTENUATION TANK TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
- WHERE AN ALTERNATIVE ATTENUATION TANK DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.
- THE DESIGN OF THE TANK SHOULD BE PROVIDED BY THE MANUFACTURER OR SUPPLIER TO ENSURE THE TANK IS SUFFICIENT FOR THE SITE SPECIFIC CRITERIA.
- THE TANK DESIGN SHOULD INCORPORATE:
 - TANK LOCATED UNDER SUSPENDED SLAB, BASEMENT CAR PARK
 - SUITABLE MAINTENANCE ACCESS; AND
 - VENTING TO PREVENT TRAPPED AIR POCKETS.
- THE STRENGTH OF THE TANK SHOULD COMPLY WITH CIRIA C680 STRUCTURAL DESIGN OF MODULAR GEOCELLULAR DRAINAGE TANKS.
- ACCESS FOR MAINTENANCE SHOULD BE IN ACCORDANCE WITH CIRIA GUIDANCE.
- VENTING TO THE TANK SHOULD BE CONFIRMED BY THE TANK MANUFACTURER. VENTING SHOULD BE LOCATED WITHIN LANDSCAPED AREAS, OR ROUTED BACK TO THE NEAREST MANHOLE ABOVE THE DESIGN WATER LEVEL.
- CONSTRUCTION AND INSTALLATION OF THE TANK SHOULD BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
- THE CURRENT DESIGN OF THE TANK IS BASED ON USE OF POLYPIPE MODULES, TO ALLOW AN ASSUMPTION OF UNIT SIZES WITHIN THE OVERALL DESIGN HOWEVER, WHERE AN ALTERNATIVE SYSTEM IS PROPOSED, THE DIMENSIONS OF THE UNITS WILL NEED TO BE CHECKED WITHIN THE DESIGN AND MAY RESULT IN A REDESIGN.
- THE CONTRACTOR SHALL PROHIBIT THE MOVEMENT OF CONSTRUCTION PLANT ACROSS THE STORAGE TANK AND WHERE NECESSARY PROVIDE ADDITIONAL SUPPORT AND PROTECTION TO THE STRUCTURE. PARTICULARLY POST CONSTRUCTION. TEMPORARY FENCING CAN BE USED TO PROHIBIT TRADE STOCKS, PILING MATERIALS, HEAVY PLANTS ETC.
- FINAL DESIGN IS SUBJECT TO CONTRACTOR'S DESIGN PORTION

P01	STAGE 3 ISSUE	04.04.22	MW	MW
Rev:	Description:	Date:	By:	Chkd:
 Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG 0161 236 2384 manchester@curtins.com www.curtins.com Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kentish • Leeds • Liverpool • London • Manchester • Nottingham				
Status:	STAGE 3			
Project:	ST MICHAELS - PHASE 1			
Orig Title:	DRAINAGE DETAILS SHEET 3			
Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	04.04.22	MW	MW	MW
Scale:	1:50			
Project No:	Originator:	Zone:	Level:	Type: Discipline: Category / Number: Rev:
63068	- CUR	- XX	- XX	- DR - C - 5232 -P01