

CURRENT DESIGN ASSUMPTIONS

DESIGN BASED POLYSTORM (PSM1) UNIT 1000x500x400(D) WITH POLYSTORM INSPECT (PSM4) 1000x500x400(D), BASED ON APPROXIMATE MINIMUM BURIAL DEPTH OF 2.3m.

TANK IS LOCATED IN AN AREA SUBJECT TO OCCASIONAL HEAVY VEHICLE LOADING. DETAILED STRUCTURAL CALCULATIONS REQUIRED TO PROVE TANK HAS SUFFICIENT STRENGTH.

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

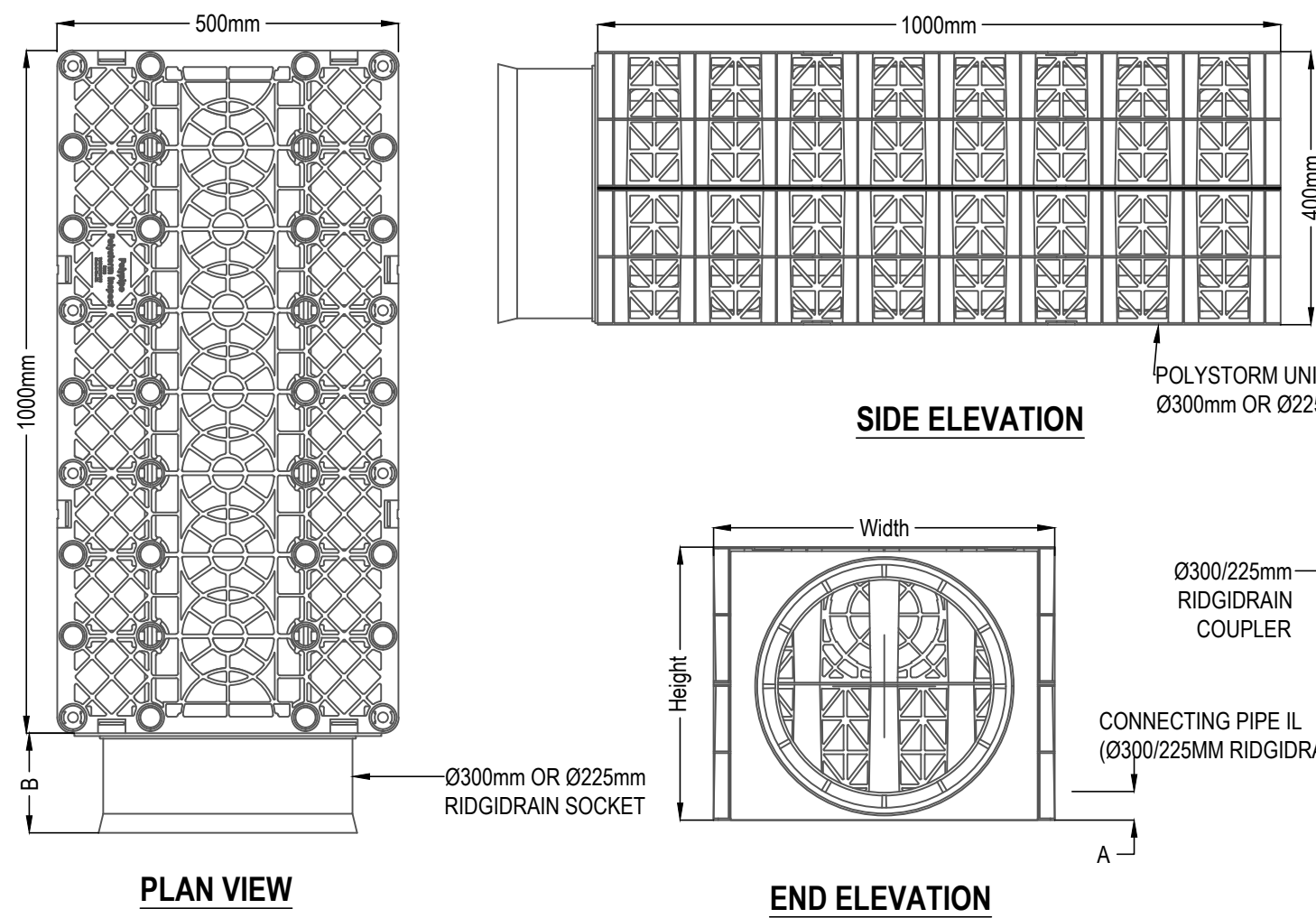
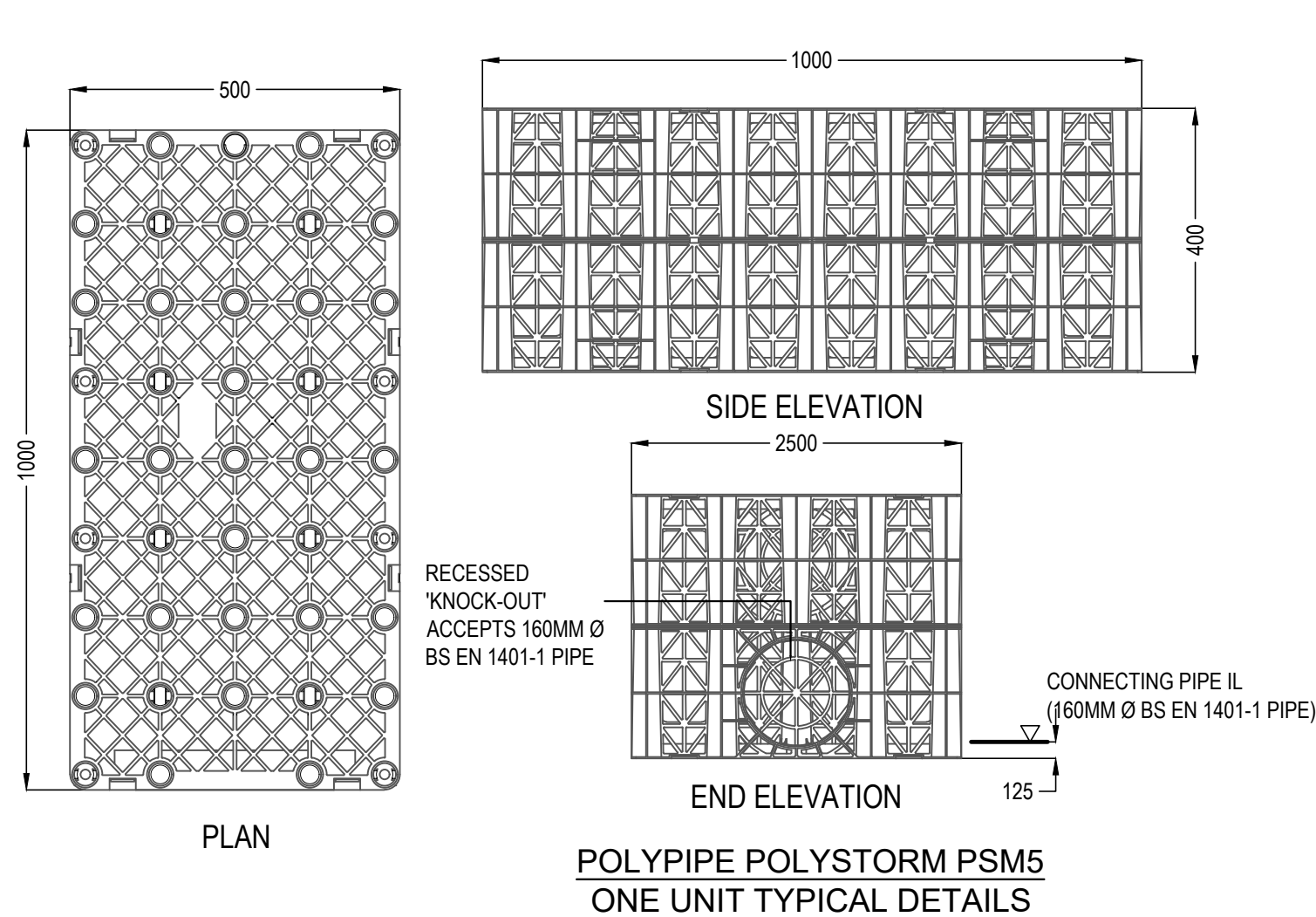
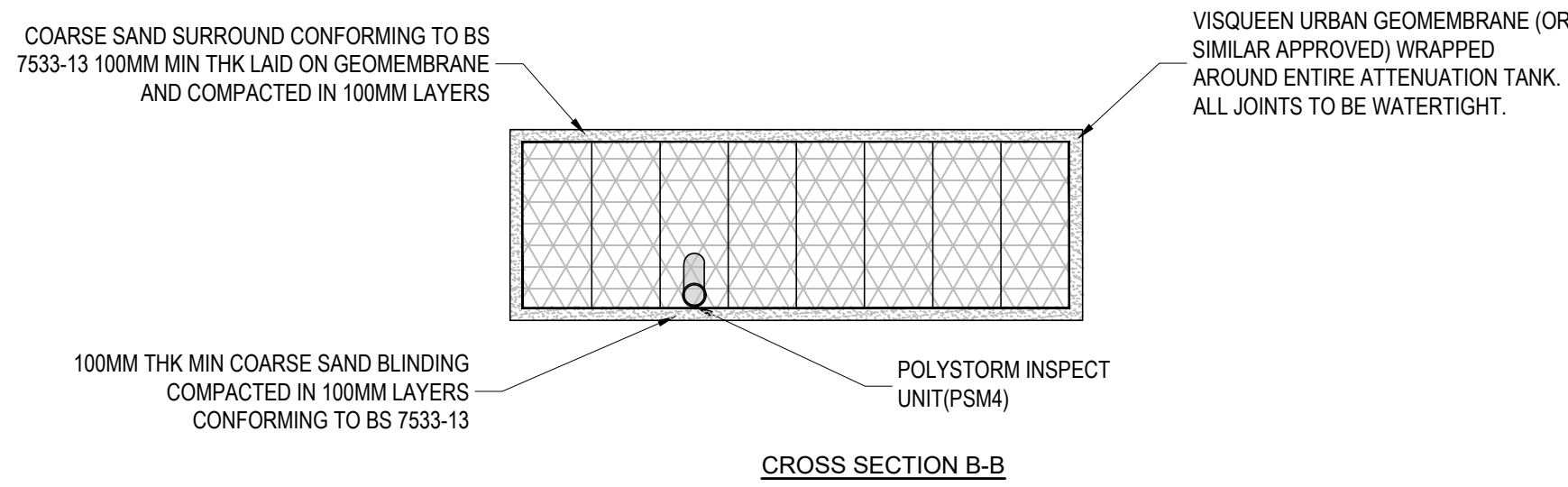
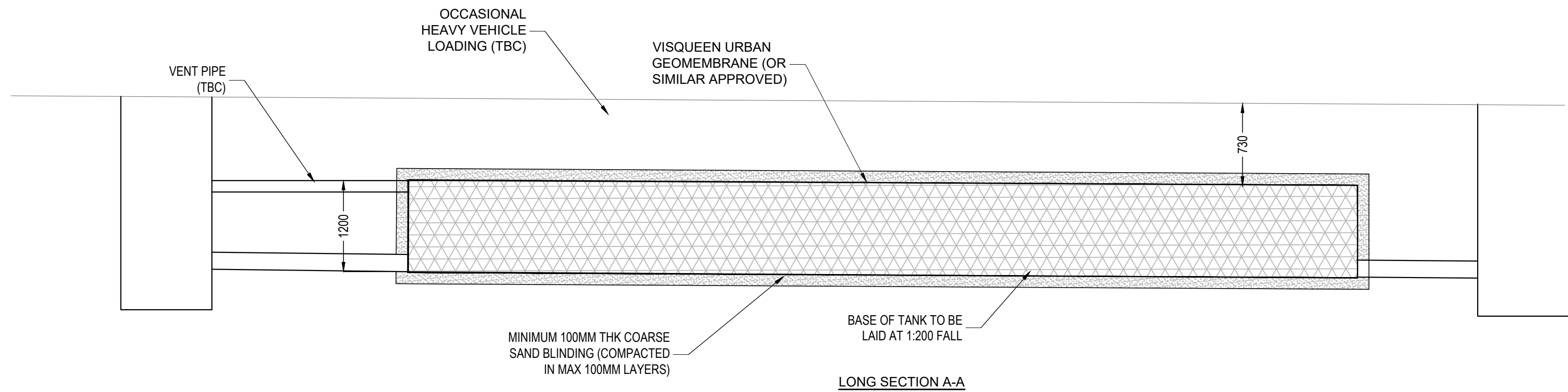
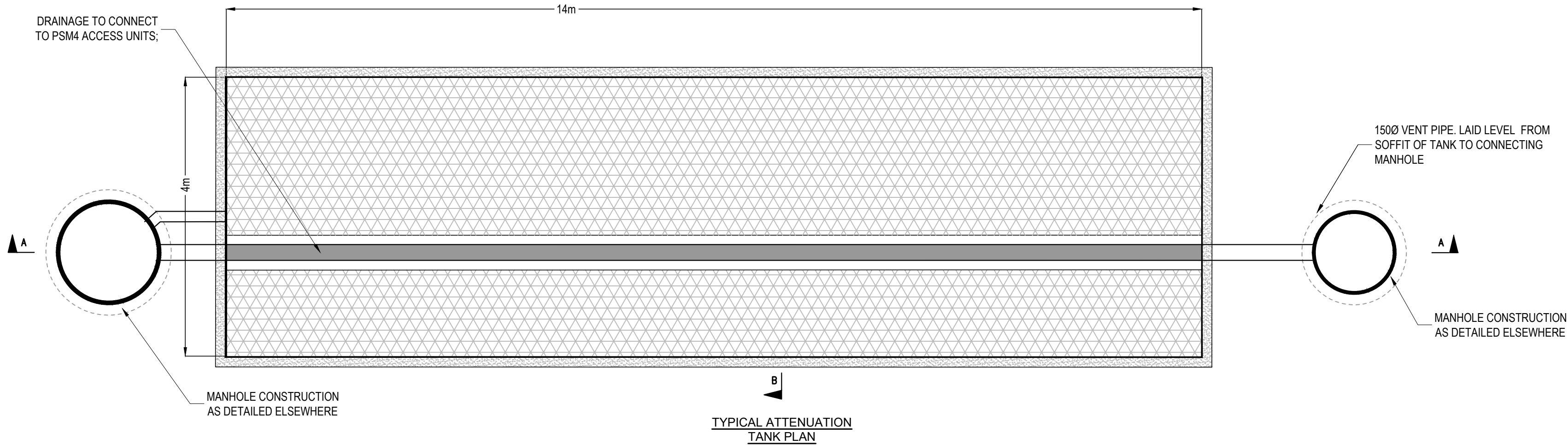
MINIMUM GROUND LEVEL IS APPROX. 39.00, BASED ON EXISTING CAR PARK LEVELS (MIN 730mm APPROX COVER).

INVERT LEVEL OF INLET PIPE 37.09
INVERT LEVEL OF OUTLET PIPE 367.07
BASE OF TANK TO BE LAID AT 1:200 FALL.

DIMENSIONS OF TOTAL UNIT ARE AS SHOWN.
PLAN AREA OF TANK IS 56m²
TOTAL DEPTH OF TANK IS 1200mm.
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 64m³

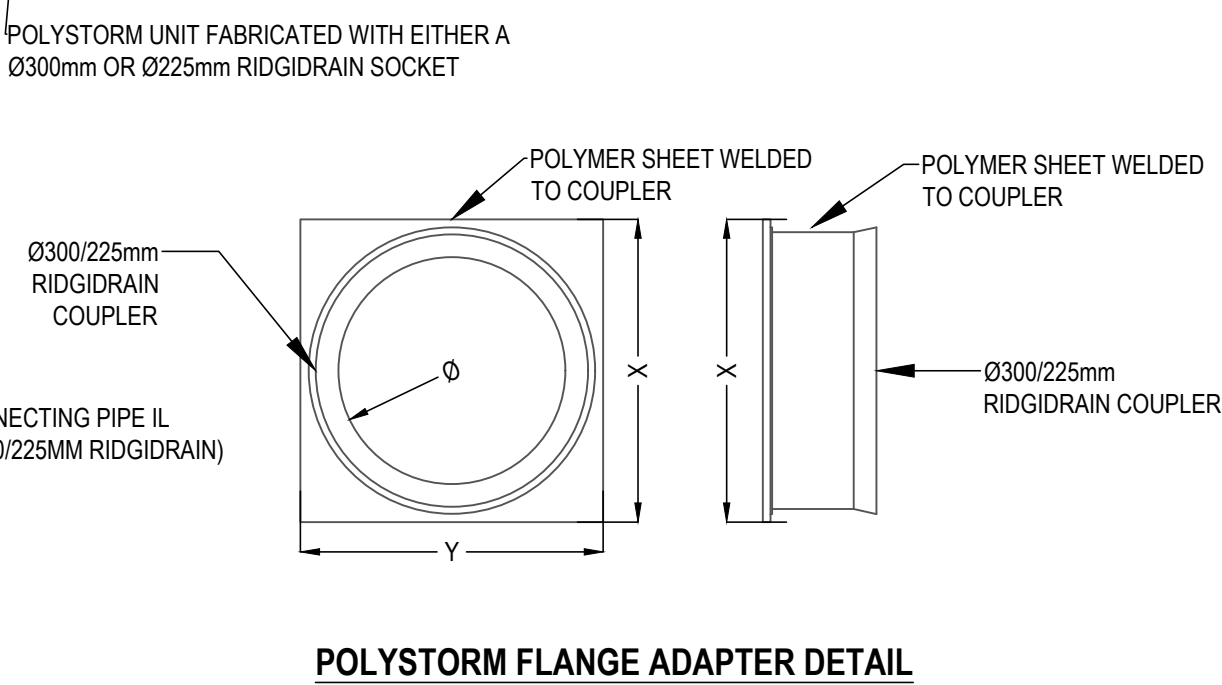
IMPERMEABLE MEMBRANE, BED AND SURROUND TO BE CONFIRMED WITH THE MANUFACTURER.

REFER TO DRAINAGE LAYOUT 500991-CUR-ZZ-00-DR-C-92500 FOR TANK & INLET/OUTLET LOCATIONS.



POLYSTORM FLANGE ADAPTER TABLE			
FLANGE CODE	Ø (mm)	X (mm)	Y (mm)
PSMFA300	300	385	450

* FLANGE ADAPTERS ARE COMPATIBLE WITH THE PSM1, PSM1A, PSM2, PSM5 CELLS.
* CONSIDERATION TO HYDRAULIC PERFORMANCE SHOULD BE TAKEN WHEN USING A FLANGE ADAPTER



GENERAL NOTES:

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- 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 072071-CUR-XX-00-DR-C-90001 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:
 - CRATES SUBJECT TO REGULAR HEAVY VEHICLE LOADING,
 - 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 ESS PLUVIAL CUBE 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, PILLING MATERIALS, HEAVY PLANTS ETC.
- FOR FULL DRAINAGE NOTES REFER TO DWG072071-CUR-XX-00-DR-C-90001

C02	UPDATED IN LINE WITH DESIGN TEAM COMMENTS	09/11/21	ATL	ATL
C01	CONSTRUCTION ISSUE	20.09.21	ATL	MW
P02	ISSUED FOR DISCHARGE OF CONDITION	05.07.21	ATL	ATL
P01	STAGE 2 ISSUE	21.02.20	ATL	CD
Rev:	Description:	Date:	By:	Chkd:



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CONSTRUCTION

KINCARDINE COURT

TYPICAL DRAINAGE DETAILS
SHEET 3

Size:	Date:	Drawn By:	Designed By:	Checked By:			
A1	21.02.20	ATL	ATL	CD			
Scale: NTS							
Project No:	Originator:	Zone:	Level:	Type:	Discipline:	Category / Number:	Rev:
072071 - CUR - ZZ - ZZ - DR - D - 9522 -C02							