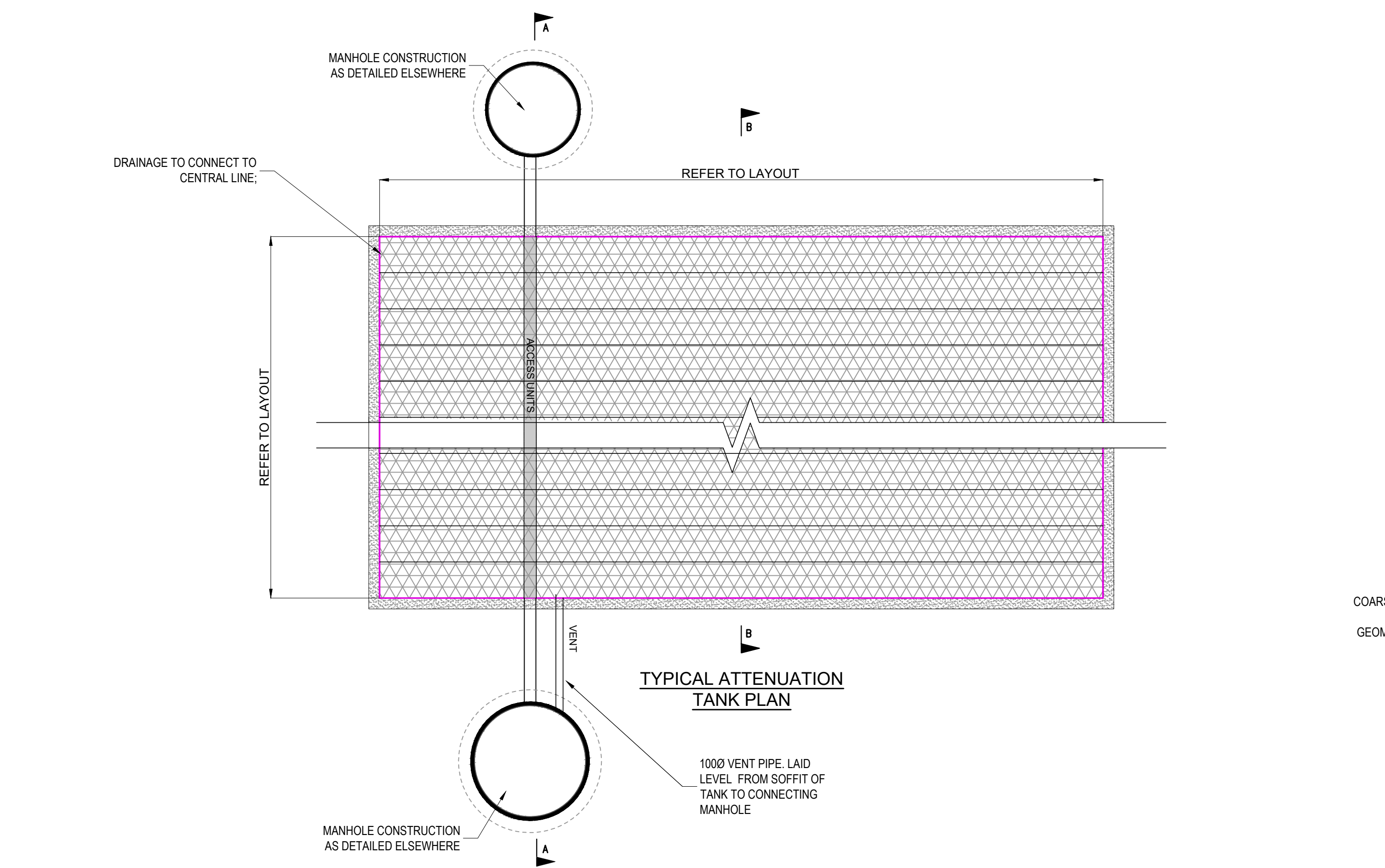




CURRENT DESIGN ASSUMPTIONS

DESIGN BASED ON POLYSTORM R (PSM1A) AND POLSTORM INSPECT (PSM4) UNITS. 1000X500X400(D),

TANK IS LOCATED IN AN AREA SUBJECT TO PEDESTRIAN LOADING ONLY*. DETAILED STRUCTURAL CALCULATIONS REQUIRED TO PROVE TANK HAS SUFFICIENT STRENGTH.
*FINAL LOADING CASE TBC AS PART OF F1 WORKS

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

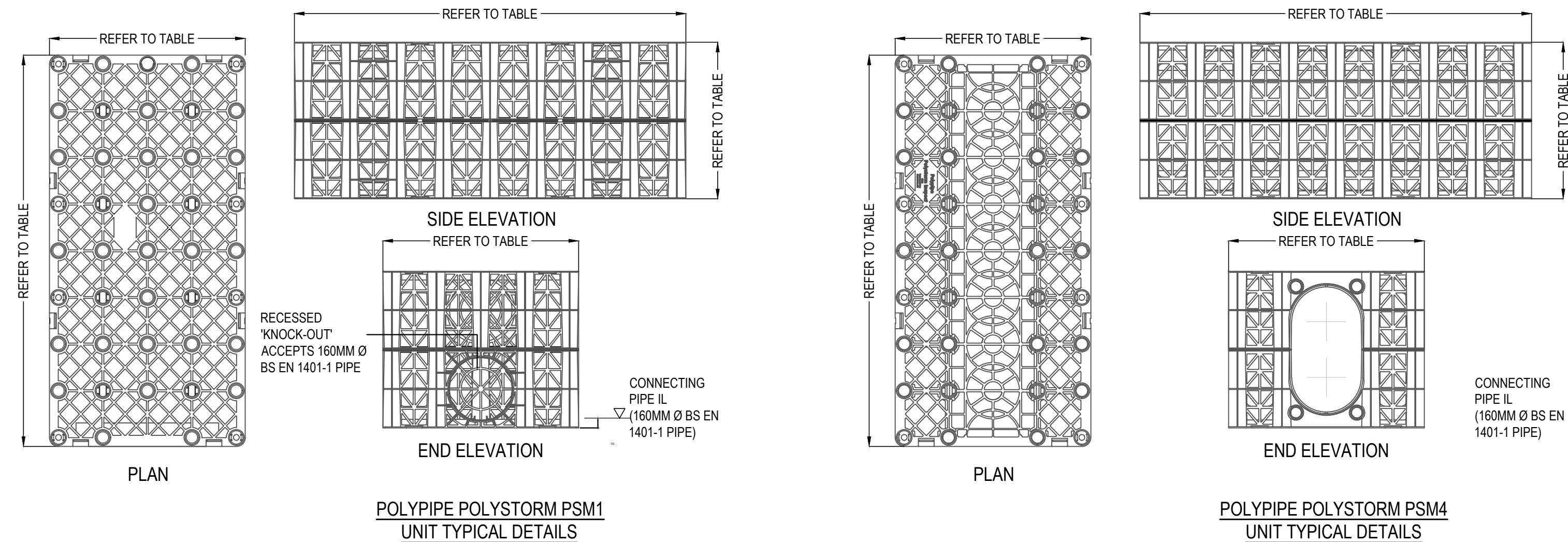
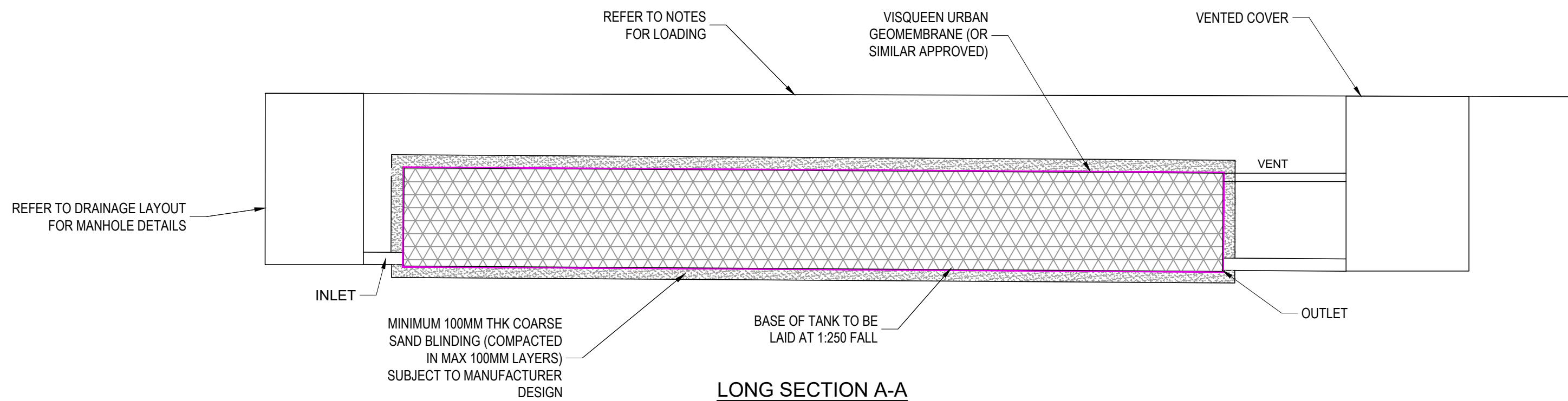
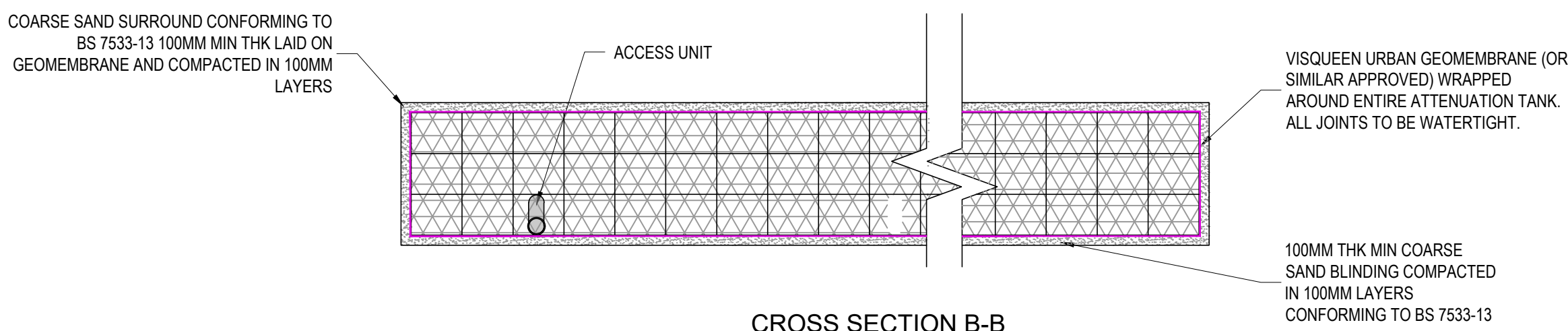
GROUND LEVEL APPROX 32.42- 32.73**
INLET LEVEL: 30.57
OUTLET LEVEL: 30.52
MIN COVER: 1.10m
MAX COVER: 1.41m
**FINAL COVER LEVELS TBC BY LANDSCAPE ARCHITECT

DIMENSIONS OF TOTAL UNIT ARE AS SHOWN.
PLAN AREA OF TANK IS 70m² (10m x 7m)
TOTAL DEPTH OF TANK IS 0.8m.
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 54m³

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

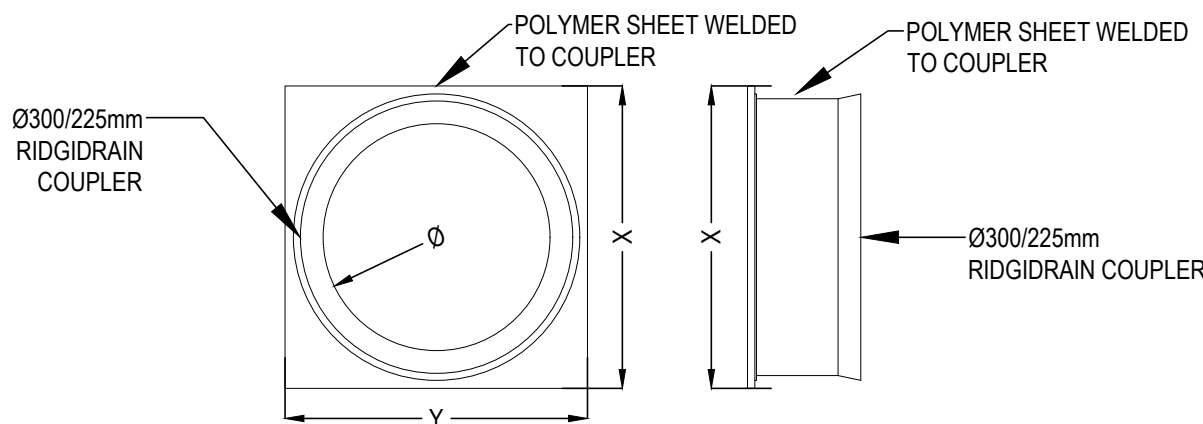
GROUNDWATER LEVELS TAKEN FROM MONITORING WELL BH03 BY GEO-ASSIST RANGE FROM 23.31 - 23.57.
AS GROUNDWATER LEVELS ARE BELOW THE BASE OF TANK, FLOATATION IS NOT THOUGHT TO BE AN ISSUE. HOWEVER, THIS SHOULD BE CONFIRMED BY THE MANUFACTURER.

REFER TO DRAINAGE LAYOUT 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, PSM3 CELLS.
* CONSIDERATION TO HYDRAULIC PERFORMANCE SHOULD BE TAKEN WHEN USING A FLANGE ADAPTER



- 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 Z1-CUR-G580-PL-GRD-92500 FOR THE LOCATION OF THE ATTENUATION TANK.
 - ATTENUATION TANK TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
 - THE CURRENT TANK IS BASED ON POLYSTORM UNITS BY POLYPIPE 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 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, PILLING MATERIALS, HEAVY PLANTS ETC.
 - FOR FULL DRAINAGE NOTES REFER TO DWG Z1-CUR-G580-PL-GRD-92510

C01	ISSUED FOR CONSTRUCTION	NY1	JC	ATL
P04	DRAFT UPDATE TO INCLUDE PLOT F1 (STAGE 4)	08.05.24	JC	ATL
P03	STAGE 4 ISSUE	08.03.24	ATL	CG
P02	DRAFT ISSUE FOR COMMENT	13/09/23	ATL	CG
P01	ISSUED FOR STAGE 3/PLANNING CONDITIONS	28/07/23	KS	CG
Rev:	Description:	Date:	By:	Chkd:

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Status: **CONSTRUCTION**

Project: **PLOT F, GREAT JACKSON STREET**

Dwg Title: **DRAINAGE DETAILS SHEET 4**

Drawn By: KS	Designed By: KS	Checked By: CG
Curtins Project Reference: 078524	Date: 05/07/23	Scales: @ A1 NTS
Project No - Originator - Function - Spatial - Form - Discipline - Number		Revision
Z1 - CUR - G580 - DE-XX- 92533		C01