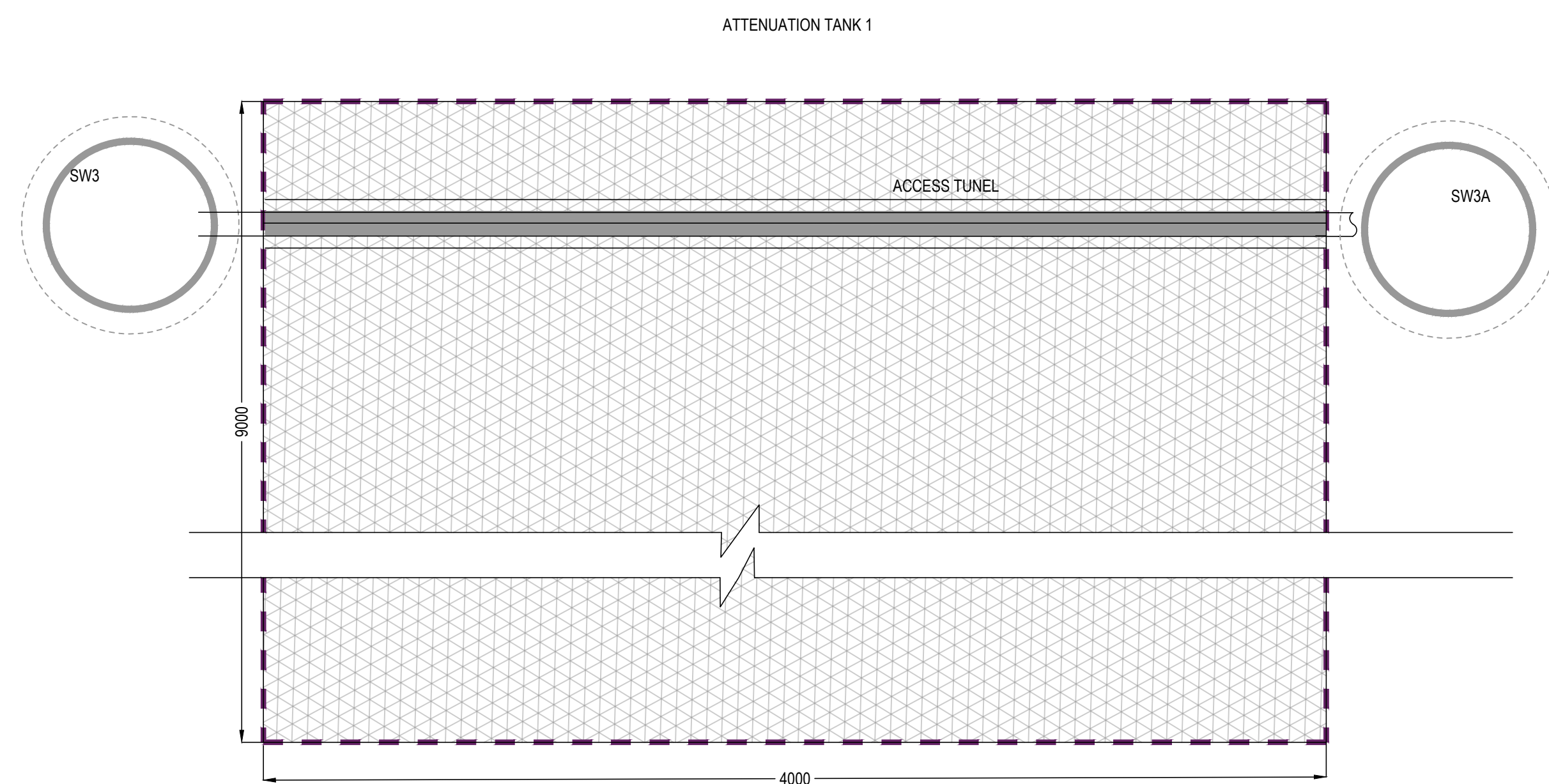




TANK 1 CURRENT DESIGN ASSUMPTIONS

**DESIGN BASED POLYESTER DIMEB (PSM1) 0.50m (W) 0.40m (H), 1m (L)
BASED ON APPROXIMATE MINIMUM BURIAL DEPTH OF 3.22m**

**TANK IS LOCATED IN AN AREA SUBJECT TO LIGHT VEHICLE LOADING.
THE MANUFACTURER WILL NEED TO CONFIRM THAT THE TANK HAS
MINIMUM GROUND LEVEL IS 72.09m, DEPTH TO SOFFIT 0.70m**

**TOP OF TANK 71.39
INVERT LEVEL OF INLET PIPE 68.99
BASE OF TANK TO BE LAID AT 1.000 FALL.**

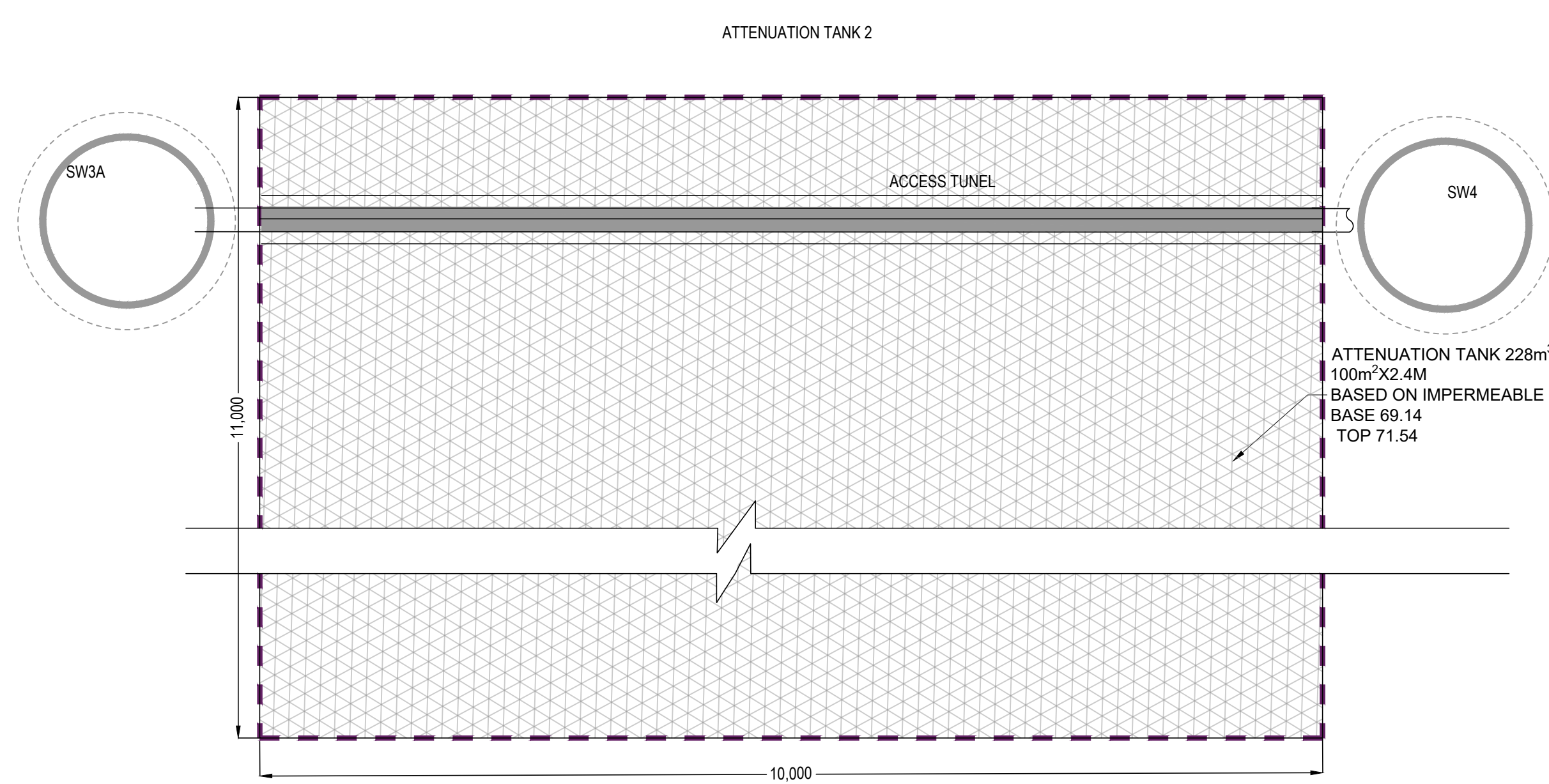
**DIMENSIONS OF TOTAL UNIT AS SHOWN.
PLAN AREA OF TANK IS 36m²
TOTAL DEPTH OF TANK IS 2.4m
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 82.1m³**

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

**REFER TO DRAINAGE LAYOUT FOR TANK & INLET/OUTLET
LOCATIONS.**

**THE MAX GROUND WATER LEVEL IDENTIFIED IN SITE INVESTIGATION
MONITORING IS BELOW PROPOSED BASE LEVEL.
FINAL TANK DESIGN TO BE CONFIRMED BY TANK MANUFACTURER.**

**CONSTRUCTION METHODOLOGY TO BE CONFIRMED WITH
CONTRACTOR DUE TO PROXIMITY TO PILECAPS**



TANK 2 CURRENT DESIGN ASSUMPTIONS

DESIGN BASED POLYESTER DEEP (PSM1) 0.50m (W) 0.40m (H), 1m (L)
BASED ON APPROXIMATE MINIMUM BURIAL DEPTH OF 3.18m

TANK IS LOCATED IN AN AREA SUBJECT TO LIGHT VEHICLE LOADING.
THE MANUFACTURER WILL NEED TO CONFIRM THAT THE TANK HAS
MINIMUM GROUND LEVEL IS APPROX. 72.12m, DEPTH TO SOFFIT 0.78m

TOP OF TANK 71.34
INVERT LEVEL OF INLET PIPE 68.94
BASE OF TANK TO BE LAID AT 1.300 FALL.

DIMENSIONS OF TOTAL UNIT ARE AS SHOWN.

PLAN AREA OF TANK IS 110m²
TOTAL DEPTH OF TANK IS 2.4 m.
ATTENUATION VOLUME, BASED ON 95% VOID RATIO IS 250.8m³

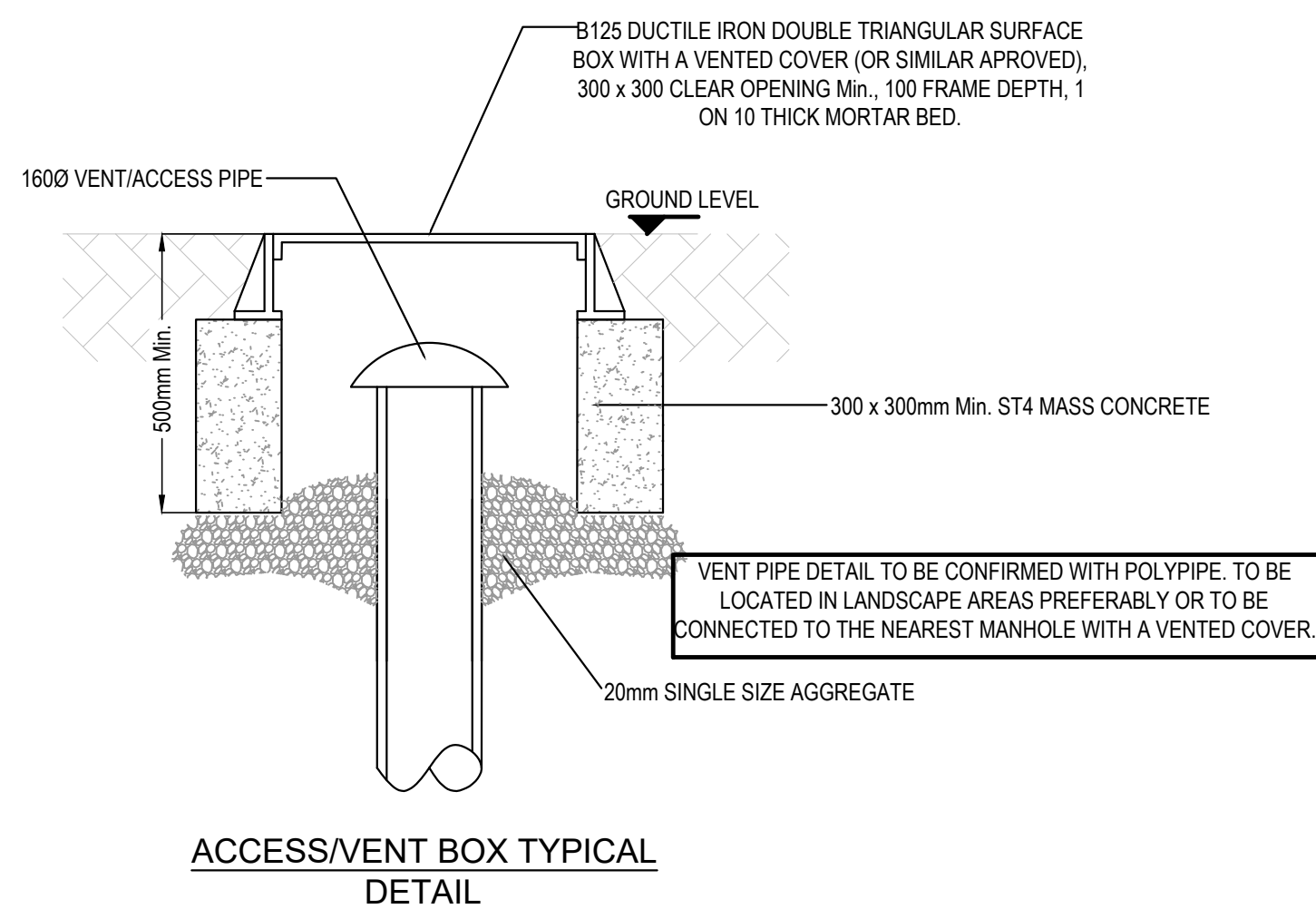
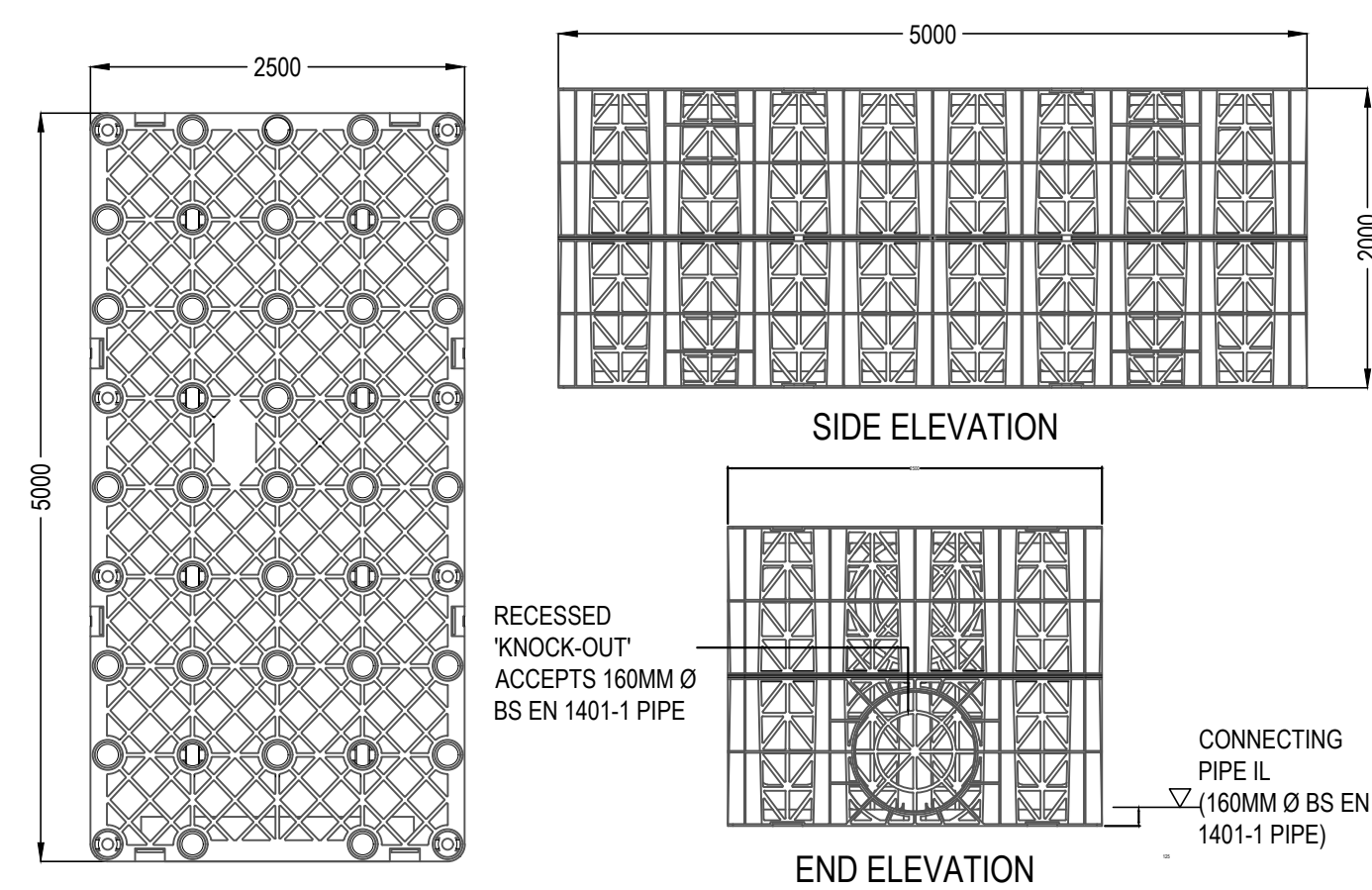
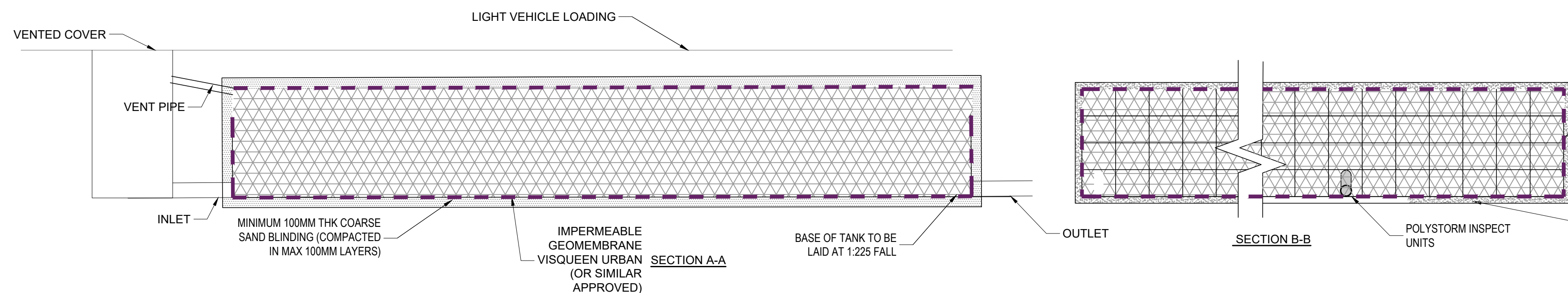
IMPERMEABLE MEMBRANE, BED AND SURROUND TO BE CONFIRMED
WITH THE MANUFACTURER.

REFER TO DRAINAGE LAYOUT FOR TANK & INLET/OUTLET LOCATIONS.

**THE MAX GROUND WATER LEVEL IDENTIFIED IN SITE INVESTIGATION
MONITORING IS BELOW PROPOSED BASE LEVEL.**

FINAL TANK DESIGN TO BE CONFIRMED BY TANK MANUFACTURER.

**CONSTRUCTION METHODOLOGY TO BE CONFIRMED WITH
CONTRACTOR DUE TO PROXIMITY TO PILECAPS**



1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
2. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. REFER TO THE DRAINAGE LAYOUT FOR THE LOCATION OF THE FLOW CONTROL.
5. FLOW CONTROL TO BE INSTALLED STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S REQUIREMENTS.
6. WHERE ALTERNATIVE FLOW CONTROL DEVICE IS PREFERRED, IT WILL BE SUBJECT TO REDESIGN TO CONFIRM WHETHER THE SYSTEM HAS CAPACITY.
7. DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
8. THE DESIGN OF THE TANK SHOULD BE PROVIDED BY THE MANUFACTURER OR SUPPLIER TO ENSURE THE TANK IS SUFFICIENT FOR THE SITE SPECIFIC CRITERIA.
9. THE TANK DESIGN SHOULD INCORPORATE:
 - CRATES SUBJECT TO PEDESTRIAN LOADING
 - SUITABLE MAINTENANCE ACCESS; AND
 - VENTING TO PREVENT TRAPPED AIR POCKETS.
10. THE STRENGTH OF THE TANK SHOULD COMPLY WITH CIRIA C680 STRUCTURAL DESIGN OF MODULAR GEOCELLULAR DRAINAGE TANKS.
11. CONSTRUCTION FOR MAINTENANCE SHOULD BE IN ACCORDANCE WITH CIRIA GUIDANCE.
12. 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.
13. CONSTRUCTION AND INSTALLATION OF THE TANK SHOULD BE STRICTLY IN ACCORDANCE WITH THE MANUFACTURER'S INSTALLATION REQUIREMENTS.
14. THE CURRENT DESIGN OF THE TANK IS BASED ON USE OF POLYPIPE POLYSTYROM PSPM TUNITS. TO ALLOW AN ASSUMPTION OF UNIT SIZES WITHIN AN 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.
15. 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.

P06	STAGE 4 ISSUE	17.12.21	ATL	CG
P04	TANK DETAIL UPDATED	10.08.21	TH	MW
P03	DRAFT STAGE 4 ISSUE	22.07.21	MW	MW
P02	DRAFT STAGE 4 ISSUE	28.06.21	MW	DS
REV.	DESCRIPTION	DATE	DRW.	CHK.

 Manchester University NHS Foundation Trust			
 Merchant Exchange, 17-19 Whitworth Street West, Manchester M1 5WG 0161 235 2384 manchest@curtins.com www.curtins.com			
PROJECT		NMGH MSCP	
TITLE			
Drainage Details sheet 3			
STATUS		PURPOSE OF ISSUE	
S4		FOR CONSTRUCTION	
DRAWN BY		CHECKED BY	DATE
MW		DS	28/06/2021
SCALE (@A1)		PROJECT NUMBER	
1:20		075805	
FILE DRAWING NUMBER			REV.
20200-CUR-MSCP-ZZ-DR-C-9253			P05