

ATTENUATION DETAILS												
REF	U/S MANHOLE	BASE LEVEL (mAOD)	TOP OF TANK LEVEL (mAOD)	MIN GROUND LEVEL (mAOD)	MAX GROUND LEVEL (mAOD)	MIN COVER TO TOP OF TANK (mAOD)	MAX COVER TO TOP OF TANK (mAOD)	LOADING	LENGTH 'X' (m)	WIDTH 'Y' (m)	DEPTH 'Z' (m)	VOLUME (m³)
AST1	SS	69.97	70.77	71.37	71.77	0.60	1.00	HGV	8.0	8.0	0.80	48
GROUNDWATER LEVEL (mAOD)												TBC
NOTES												

CURRENT DESIGN ASSUMPTIONS

DESIGN BASED ON POLYSTORM UNITS. PSM1 & PSM4 1000x500x400(D), MANUFACTURER TO CONFIRM EXACT TYPES REQUIRED.

DETAILED STRUCTURAL CALCULATIONS REQUIRED TO PROVE TANK HAS SUFFICIENT STRENGTH. REFER TO TABLE FOR TANK LOADINGS.

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

ALLOWANCE SHOULD BE MADE FOR A REINFORCED CONCRETE COVER SLAB DUE TO SHALLOW CONSTRUCTION DEPTH.

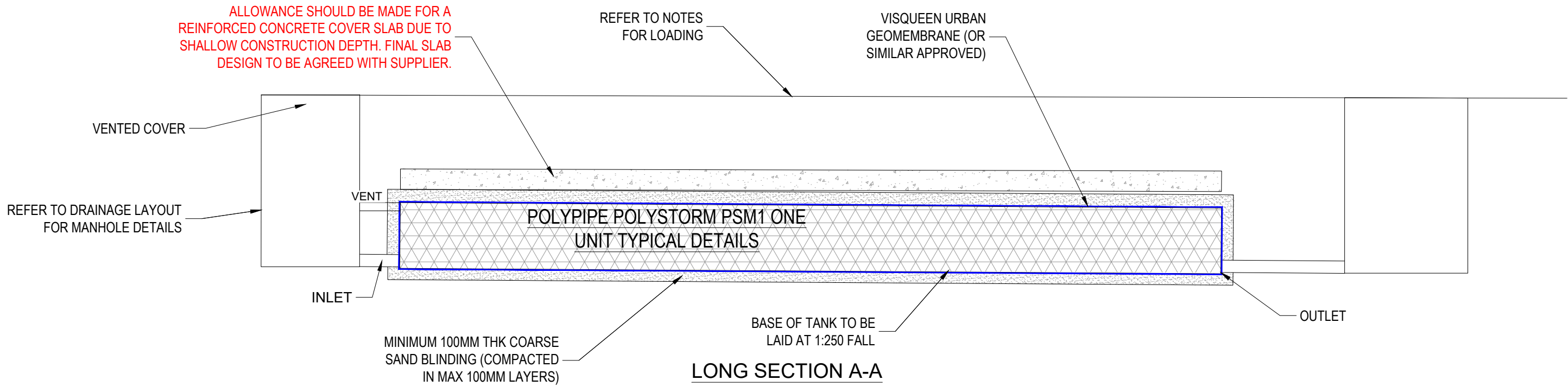
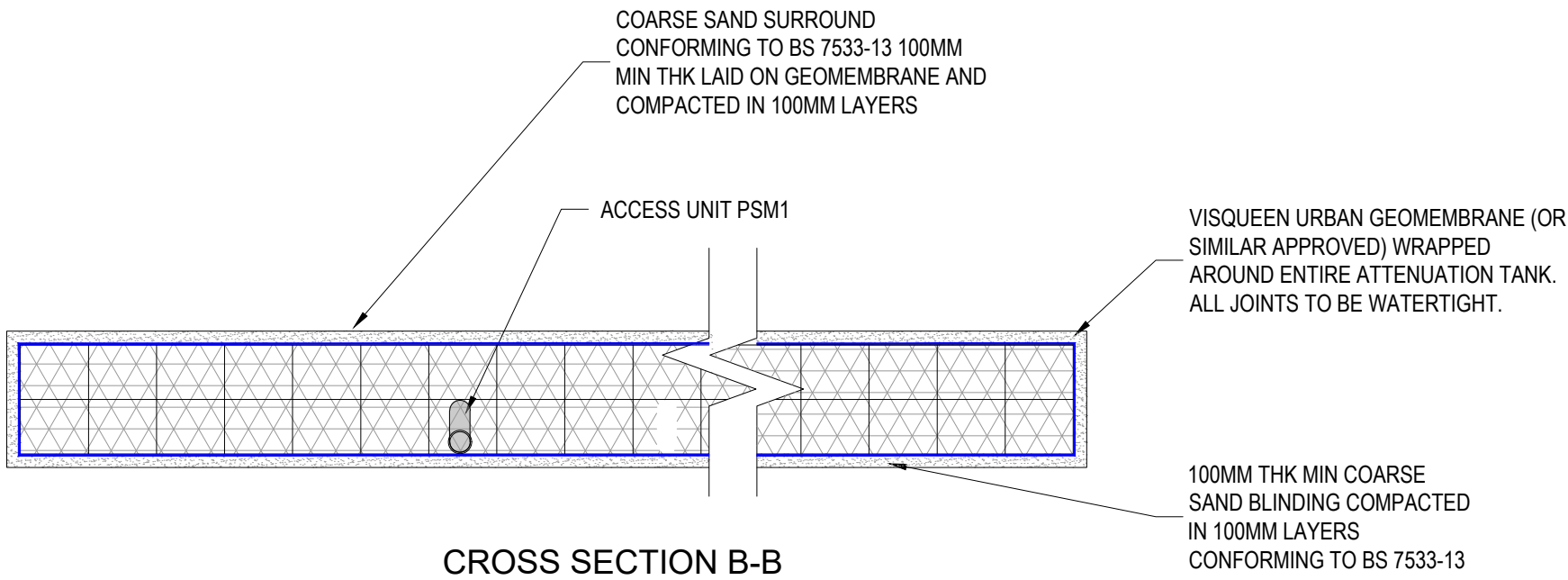
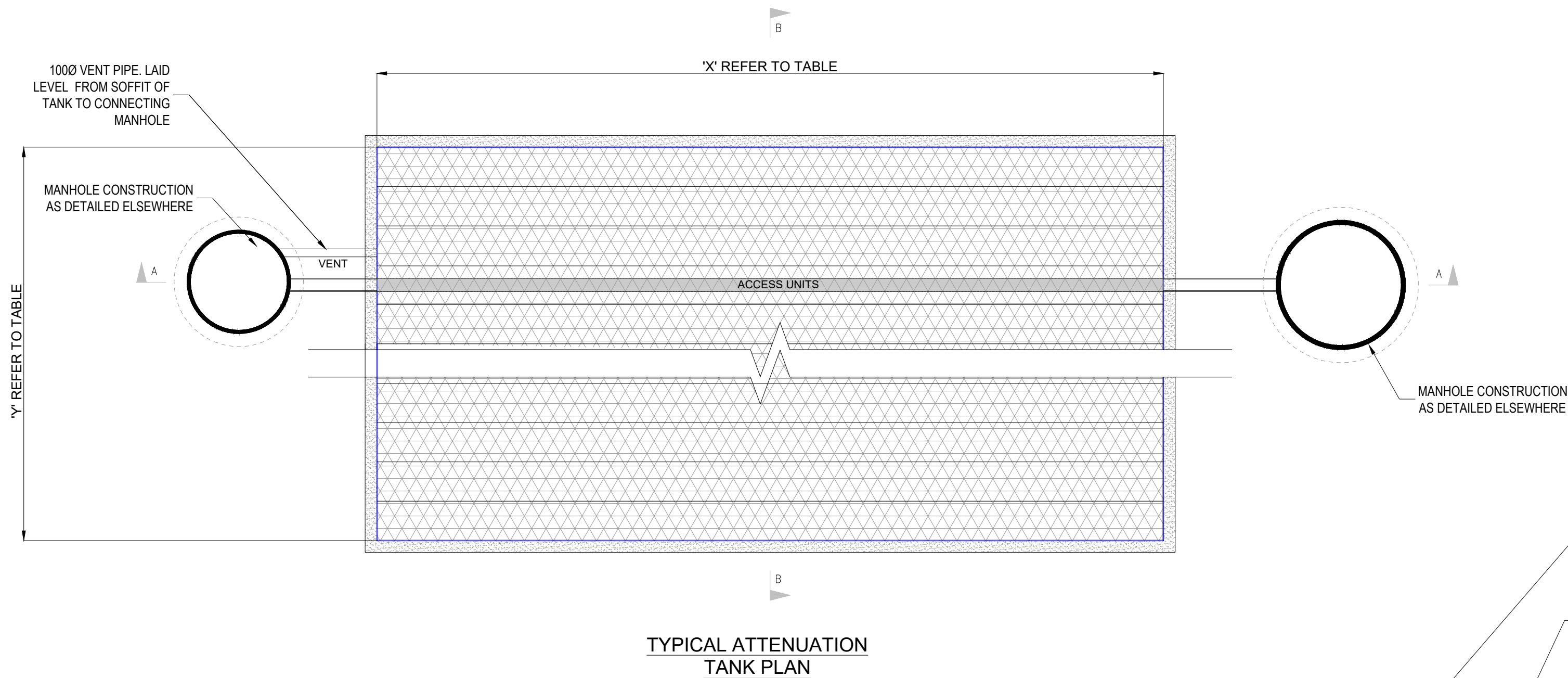
SEE TABLE FOR INVERT LEVELS, COVER LEVELS & COVER DEPTHS

SEE TABLE FOR DIMENSIONS OF TANKS AND VOLUMES

ATTENUATION VOLUME, BASED ON 95%

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

REFER TO DRAINAGE LAYOUT NMGH-CUR-WP6-XX-D-C-92500 FOR INLET/ OUTLET LOCATIONS



- 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 NMGH-CUR-WP6-XX-D-C-92500 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 PSM1 & PSM4 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.

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Status: **STAGE 3**

Project: **NMGH WP06**

Orig Title: **WP06 DRAINAGE DETAILS SHEET 4**

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Revision NMGH - CUR-WP6-XX-D-C-92533 P01		