

MATERIAL	CLASS	PERMITTED CONSTITUENTS
GENERAL FILL	6F2	ANY MATERIAL OR COMBINATION OF MATERIALS OTHER THAN UNBURNT COLLIERY SPOIL AND ARGILLACEOUS ROCK
IMMEDIATE SURROUND	6H	NATURAL GRAVEL, NATURAL SAND, CRUSHED GRAVEL, CRUSHED ROCK OTHER THAN ARGILLACEOUS ROCK, CRUSHED CONCRETE, WELL-BURNT COLLIERY SPOIL OR ANY COMBINATION THEREOF
ADDITIONAL SURROUND	6N	NATURAL GRAVEL, NATURAL SAND, CRUSHED GRAVEL, CRUSHED ROCK, CRUSHED CONCRETE, WELL-BURNT COLLIERY SPOIL OR ANY COMBINATION THEREOF. NONE OF THE CONSTITUENTS SHALL INCLUDE ANY ARGILLACEOUS ROCK
ALTERNATIVE SURROUND	6P	NATURAL GRAVEL, NATURAL SAND, CRUSHED GRAVEL, CRUSHED ROCK, CRUSHED CONCRETE, WELL-BURNT COLLIERY SPOIL OR ANY COMBINATION THEREOF. NONE OF THE CONSTITUENTS SHALL INCLUDE ANY ARGILLACEOUS ROCK
LOWER BACKFILL OVER TANK	8	ANY EXCEPT THERE SHALL NOT BE ANY STONES OR LUMPS GREATER THAN 40mm NOMINAL DIAMETER

BACKFILL & BEDDING MATERIALS SPECIFICATION

MINIMUM 300mm BACKFILL ABOVE UNITS FREE FROM PARTICLES EXCEEDING 40mm IN ACCORDANCE WITH CLASS 8 MATERIAL TO MCHW VOLUME 1 SERIES 600.

ESS VERSAVOID UNITS (500x500x4050 HIGH), MODULES TO BE INTERLINKED IN ACCORDANCE WITH ESS SPECIFICATION

TYPICAL OUTLET CONNECTION

SCALE 1:20

PREPARED EXCAVATION TO TANK INSTALLATION SHALL HAVE MIN 500mm WORKING SPACE TO ALL SIDES.

TYPICAL INLET CONNECTION

SCALE 1:20

100mm COARSE SAND FLAT LEVEL, SMOOTH BASE WITH NO UNDULATIONS. SOFT SPOTS REPLACED WITH 6F2.

HEAVY DUTY DUCTILE IRON SURFACE BOX 100mm FRAME WITH MIN 150mm SQUARE CLEAR OPENING. FRAME ON 100mm MORTAR BED ON MIN 150mm ST4 MASS CONCRETE

APPROX LEVEL 9.413

TOP OF TANK 90.550m

6F7 MATERIAL IN ACCORDANCE WITH MCHW VOLUME 1 SERIES 600.

MINIMUM 100mm BACKFILL TO TOP AND SIDES USING COARSE SAND OR CLASS 6H MATERIAL IN ACCORDANCE WITH MCHW VOLUME 1 SERIES 600.

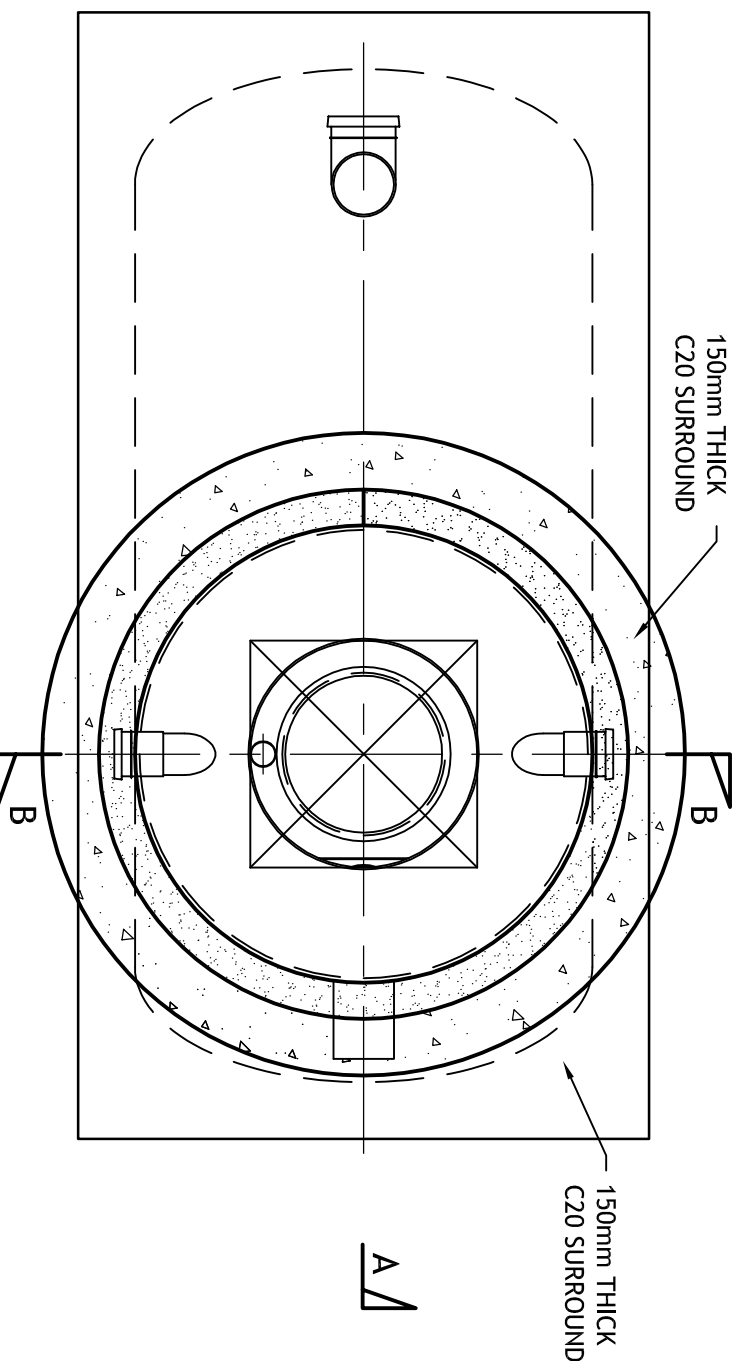
REMAINING SIDE EXCAVATION AREA BACKFILLED USING 6N OR 6P GRANULAR MATERIAL IN ACCORDANCE WITH MCHW VOL. 1

TANK SURROUNDED WITH GEOTEX 300PP NEEDLE PUNCHED NON-WOVEN PROTECTION GEOTEXTILE WITH 300mm LAPPED JOINTS

BOTTOM OF TANK 85.50m

PLAN ON SEPARATOR

SCALE 1:20



MORTAR HAUNCHING TO COVER AND FRAME

CLASS PD00 LOCKABLE DUCTILE IRON COVER AND FRAME OF A SUITABLE NON-ROCK LIND DESIGN, WHICH DOES NOT RELY ON CUSHION INSERTS, BEDDED ON MORTAR

600mm x 600mm OPENING IN COVER SLAB.

VENT PIPE

150mm THICK C20 SURROUND

A393 MESH TO TOP

OUTLET TO TOP

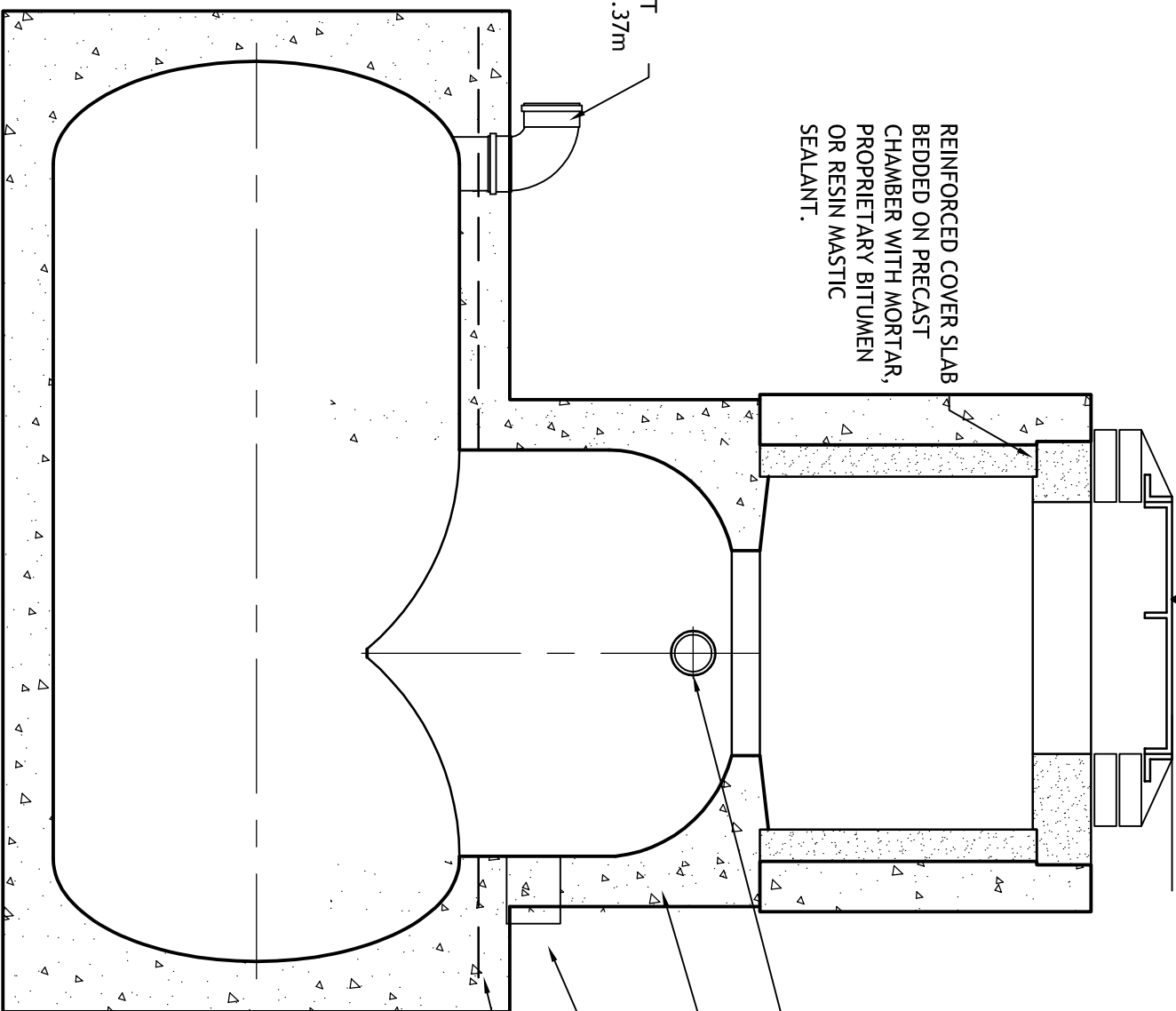
INLET c.89.37m

REINFORCED COVER SLAB BEDDED ON PRECAST CHAMBER WITH MORTAR, PROPRIETARY BITUMEN OR RESIN MASTIC SEALANT.

CLASS B ENGINEERING BRICKWORK, MIN 2 COURSES, 4 MAX.

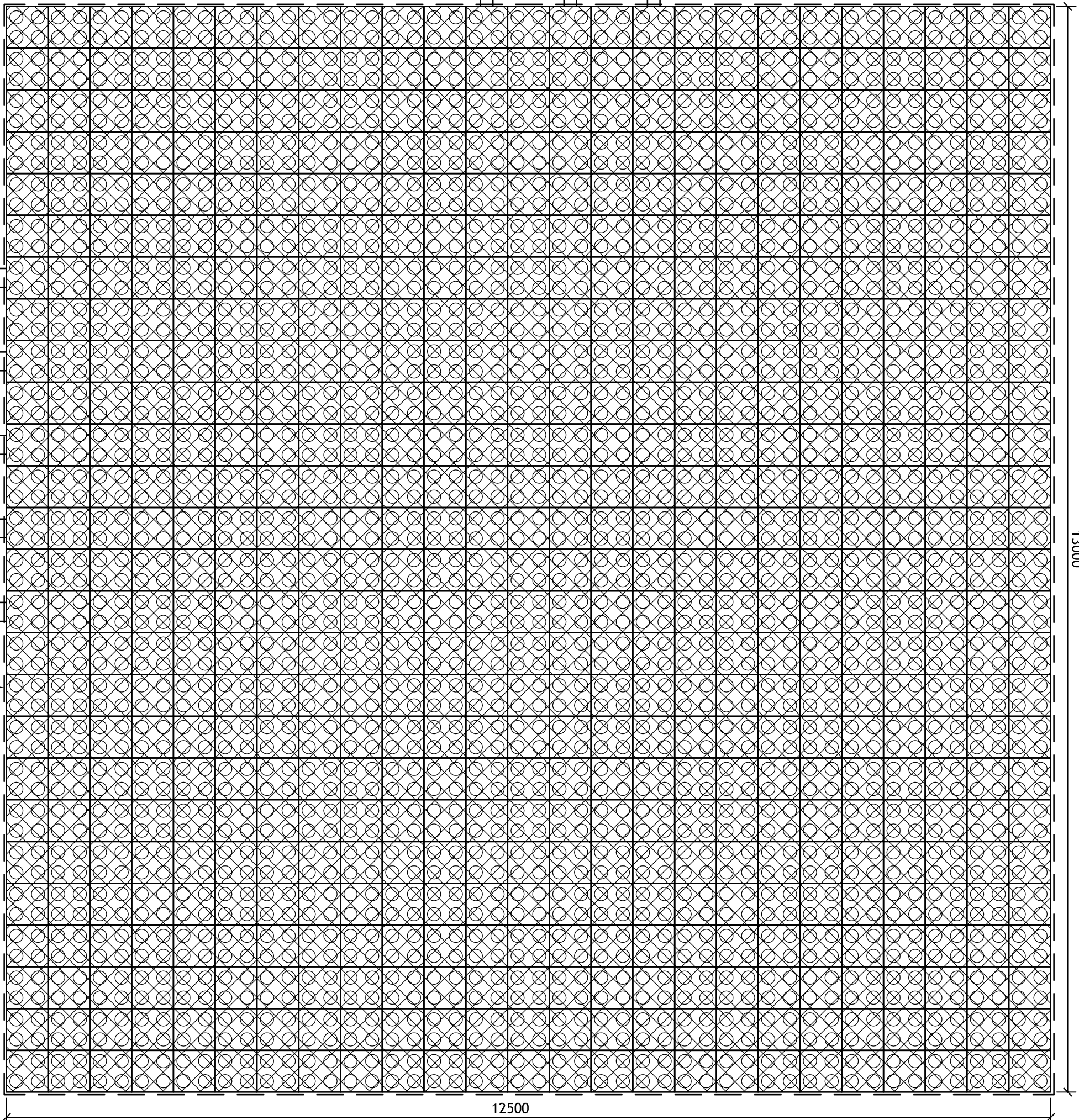
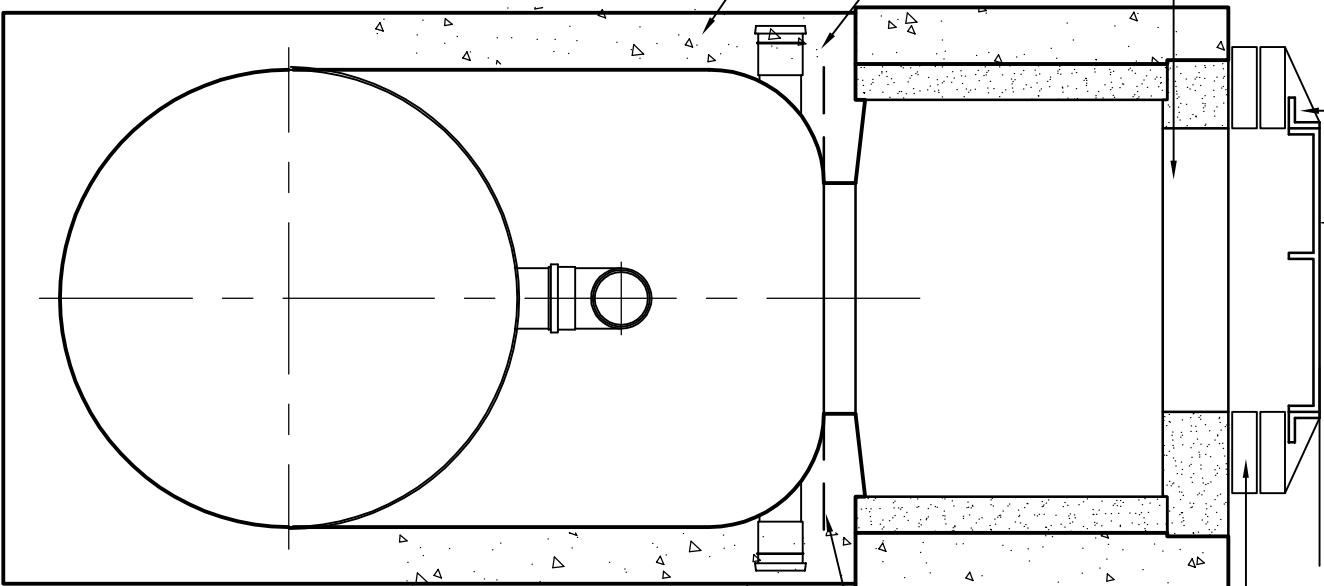
SECTION A-A

SCALE 1:20



SECTION B-B

SCALE 1:20



TO PROTECT THE GEOMEMBRANE DURING BACKFILLING OVERLAY THE TOP AND SIDES OF THE TANK WITH GEOTEX 300PP NEEDLE PUNCHED NON-WOVEN PROTECTION GEOTEXTILE WITH 300mm LAPPED JOINTS

PLAN ON ESS VERSAVOID TANK

SCALE 1:30

1. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE SPECIFICATION
2. ALL DRAWINGS TO BE READ IN CONJUNCTION WITH THE RELEVANT ARCHITECTURAL AND STRUCTURAL DRAWINGS.
3. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
4. ALL LEVELS ARE IN METRES RELATIVE TO BUILDING DATUM OF +0.000m = -0.000m FFL.
5. ALL DIMENSIONS ARE TO BE CHECKED ON SITE BY THE CONTRACTOR PRIOR TO THE COMMENCEMENT OF CONSTRUCTION

DRAINAGE

1. THIS DRAWING USES THE ARCHITECTURAL DRAWING AS A BACKGROUND. THE CONTRACTOR SHOULD USE ARCHITECTURAL DRAWINGS FOR SETTING OUT OF ALL POP-UPS AND ABOVE GROUND DRAINAGE POSITIONS.
2. REFERENCE SHOULD BE MADE TO ALL OTHER DRAINAGE DRAWINGS PROVIDED BY SWF CONSULTING WHICH GIVES CONSTRUCTION DETAILS.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE DRAINAGE SPECIFICATION PREPARED FOR THIS PROJECT.
4. THE DESIGN OF THE PIPES HAS BEEN BASED ON CLAYWARE. HOWEVER, SUBJECT TO WRITTEN CONSENT FROM SWF CONSULTING, OTHER MATERIALS MAY BE USED.
5. THE EXACT LOCATION OF THE OUTFALL PIPE/MANHOLE IS TO BE CHECKED AND CONFIRMED TO SWF CONSULTING PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS.
6. REFERENCE SHOULD BE MADE TO ANY CCTV SURVEY, SEWER RECORDS WHICH INDICATE THE EXISTING DRAINAGE SYSTEMS.
7. ON COMPLETION OF THE CONTRACT, THE PIPES SHALL BE JET CLEANED TO REMOVE ANY SILT OR CONSTRUCTION DEBRIS AND A CCTV SURVEY SHOULD BE UNDERTAKEN.
8. ONCE THE AS-BUILT SURVEY HAS BEEN COMPLETED A COPY OF THE SURVEY LOGS SHOULD BE ISSUED TO SWF CONSULTING TOGETHER WITH THE VIDEO FOOTAGE FOR THEIR COMMENT WITH DUPLICATE COPIES BEING ISSUED TO THE CDM CO-ORDINATOR FOR INCLUSION IN THE HEALTH & SAFETY FILES.
9. COVER LEVELS ARE INDICATIVE AND MAY NEED TO BE ADJUSTED TO SUIT THE ACTUAL FINISHED LEVELS OF THE EXTERNAL AREAS.
10. GRADIENTS INDICATED ON PIPES ARE MINIMUM GRADIENTS REQUIRED. HOWEVER, MANHOLE INVERT LEVELS ARE TO TAKE PRECEDENCE OVER THESE GRADIENTS.
11. POSITIONS OF MANHOLES, GULLYS AND DRAINAGE ARE TO BE SET OUT BY THE CONTRACTOR TO AVOID WHITE LINING DELINEATING CAR PARKING AREAS, KERB LINES ETC.

ABBREVIATIONS

FFL - FINISHED FLOOR LEVEL
SSL - STRUCTURAL SLAB LEVEL
TOC - TOP OF CONCRETE
TOS - TOP OF STEEL
UOS - UNDERSIDE OF STEEL
UOR - UNDERSIDE OF RAIL
WP - WIND POST
DL - DEAD LOAD
IL - IMPOSED LOAD

Client
HARRIS PARTNERSHIP
Job No. Drawing No. Revision Scale 1:200 UNO @ A1

Project
ALDI STORES LTD
RUTHIN ROAD
WREXHAM

Rev	Date	Description	MS	PS
T2	07/04/16	SOMERWAY TANK UPDATED	NCT	PS
T1	15/12/15	ISSUED FOR TENDER	NCT	PS

Drawing Title
DRAINAGE
STORAGE AND SEPARATOR