

PLAN OF LAGOONS



SITE LAYOUT  
1:1250

NOTES

DESIGN, EXCAVATION, GROUND WATER CONTROL, EMBANKMENT CONSTRUCTION AND MATERIAL COMPACTION TO BE IN COMPLIANCE WITH BS 6031:2009 - CODE OF PRACTICE FOR EARTHWORKS.

THE BEST INFORMATION AVAILABLE INDICATES THAT THERE ARE NO DEEP DRAINS WITHIN 10M OF THE LAGOON STORE

LAGOON INTERNAL DIMENSIONS - 2 No. 63.5 X 42.0m X 7.0m DEEP  
 INTERNAL SIDE SLOPES - 1:1.5  
 EXTERNAL SIDE SLOPES - 1:1.5  
 FREEBOARD - 0.75M  
 VOLUME IN EACH LAGOON -  
 Gross 11,940 m3  
 NET 10,000 m3

ANCHOR TRENCH TO BE A MINIMUM OF 1.0M FROM THE EDGE OF THE LAGOON. 0.6M WIDE X 0.6M DEEP AND FILLED WITH LOW-PERMEABILITY MATERIAL. THE ANCHOR TRENCH IS NOT A DRAIN AND WILL BE PUMPED DRY AS REQUIRED

EMBANKMENT TO BE CONSTRUCTED AND COMPACTED IN LAYERS NOT EXCEEDING 225mm IN DEPTH. COMPACTION PLANT TO HAVE SUFFICIENT COMPACTIVE EFFORT AND BE APPROPRIATE FOR THE FILL MATERIAL. TENSAR SS20 GEOGRID REINFORCEMENT TO EMBANKMENTS AT 900mm CENTRES VERTICALLY. THE BASE OF THE FILLS TO BE TERRACED FLAT INTO THE EXISTING GROUND.

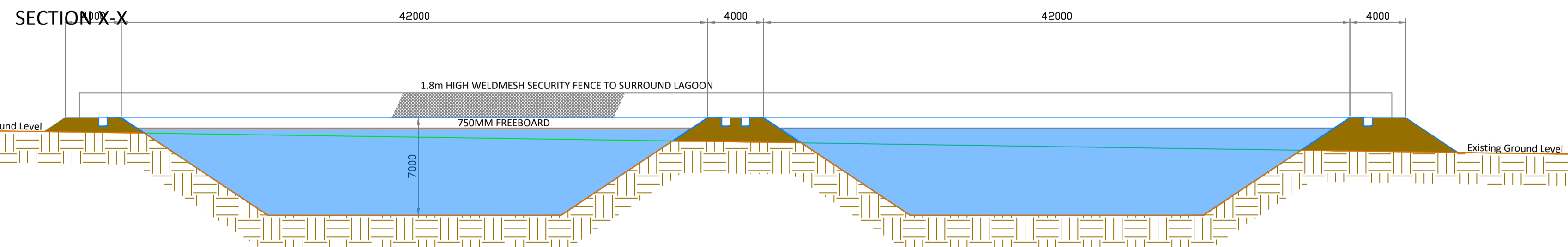
TOPSOIL TO BE REMOVED AND STORED FOR SITE LANDSCAPING ON COMPLETION. SURPLUS MATERIAL TO BLEND LEVELS TO NATURAL CONTOURS OF THE LAND.

CONTINUOUSLY SEAM WELDED 2.5MM HDPE LINER ANCHORED IN TRENCH AROUND THE TOP OF LAGOON AND GRADED DOWN AT 1:100 TO THE DRAW-OFF SUMP. THE SUB-GRADE WILL BE FREE FOR A DEPTH OF AT LEAST 150MM OF ANY OBJECTS THAT MIGHT PUNCTURE THE MEMBRANE. THE SUB-GRADE WILL BE FREE FROM ANY CONTAMINATION THAT MIGHT CHEMICALLY AFFECT THE SELECTED GEOMEMBRANE MATERIAL. THE SURFACE ONTO WHICH THE MEMBRANE IS TO BE LAID WILL BE SMOOTH.

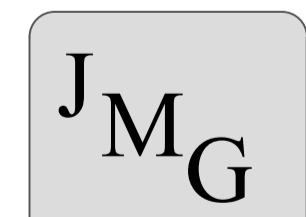
LEAK DETECTION AND SAMPLING POINT  
 A SAMPLING JAR ON A RETRACTABLE ROD TO RECOVER SAMPLES FROM THE GROUND WATER COLLECTION CHAMBER BESIDE THE DRAW-OFF SUMP. 150MM Ø SEWER PIPE AND SEALING CAP ON THE EMBANKMENT CREST OUTSIDE THE FENCE LINE.

FLOATING COVER

1.5MM HDPE RAINWATER COLLECTION COVER  
 RAINWATER CHANNELS TO BE FORMED IN THE COVER TO DIRECT SURFACE WATER TO SUBMERSIBLE PUMP POINT FOR DISCHARGE TO ADJACENT FIELD DRAINAGE SYSTEM



SECTION Y-Y



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TWIN LINED LAGOONS & COVER DETAILS	128 - 106	27 FEB 2025	1:250
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GUY & WRIGHT LTD, GREEN TYE, HERTFORDSHIRE	128 - 106 - 20	2	
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PLAN, SECTIONS & DETAILS			