

CONSTRUCTED EARTH EMBANKMENTS.
 STRUCTURAL DESIGN BASED ON SOIL PARAMETERS DETERMINED
 BY LABORATORY TESTS FOR CATEGORISATION, GRADING,
 MOISTURE CONTENT, ETC AS MAY BE DEEMED REQUIRED.
 MATERIAL TO BE COMPACTED IN LAYERS NOT EXCEEDING 225MM
 DEEP BY A MINIMUM OF 4 PASSES OF A VIBRATORY ROLLER WITH
 A MASS PER METRE WIDTH NOT LESS THAN 1800KG.
 EACH EVENING, PARTIALLY CONSTRUCTED EMBANKMENTS ARE TO
 BE ROLLED SMOOTH AND GRADED TO REPEL RAINWATER.

INTERNAL SIDE SLOPES
 AT 1:2 (V:H)

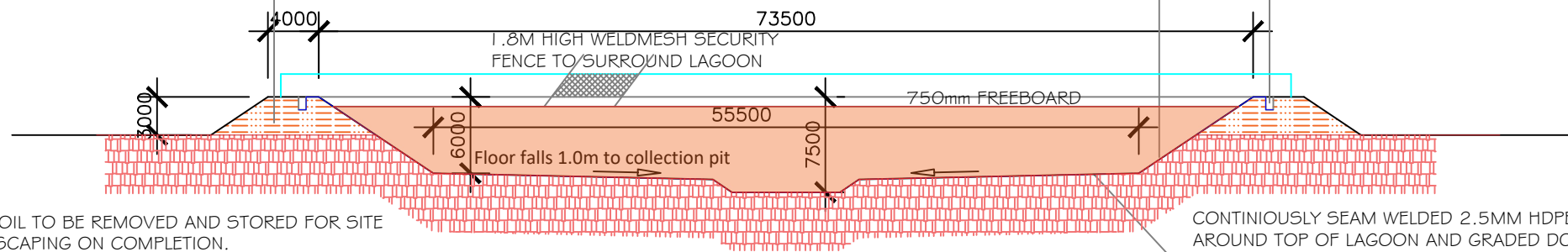
ANCHOR TRENCH TO BE A MINIMUM OF
 1.0M FROM THE EDGE OF THE LAGOON.
 0.6M WIDE X 0.6M DEEP AND FILLED WITH
 LOW-PERMEABILITY MATERIAL.
 THE ANCHOR TRENCH IS NOT A DRAIN
 AND WILL BE PUMPED DRY AS REQUIRED

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 1.0M OF THE LAGOON STORE

LAGOON INTERNAL DIMENSIONS - 75.5m X 40m X 6.0m DEEP
 INTERNAL SIDE SLOPES - 1:1.5
 FREEBOARD - 0.75M
 VOLUMES -
 GROSS 12,160 M3
 NET 10,000 M3 (2.2M GALLONS)

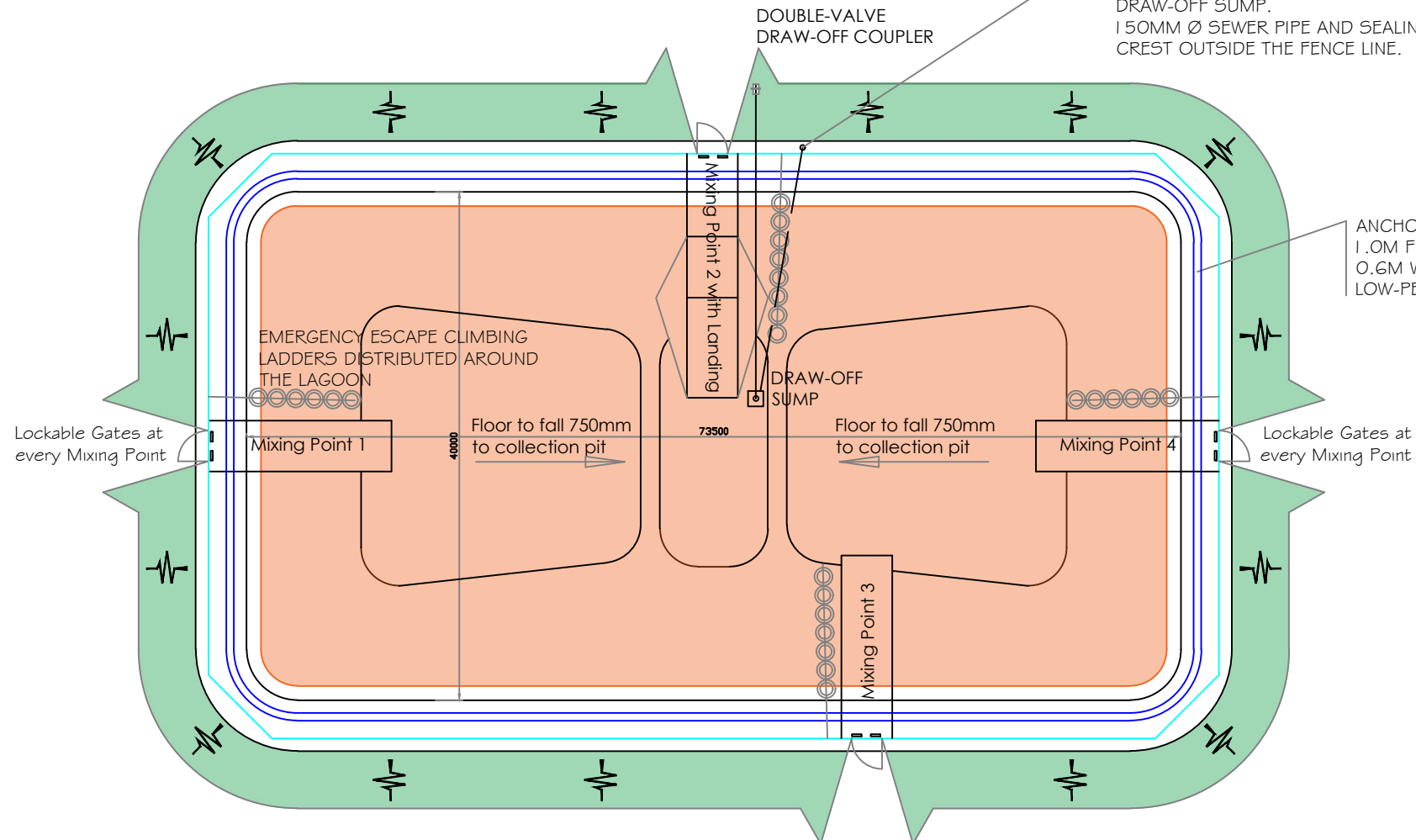


TOPSOIL TO BE REMOVED AND STORED FOR SITE
 LANDSCAPING ON COMPLETION.

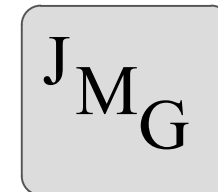
EXTERNAL SIDE SLOPES AT 1:1.5 (V:H)
 SURPLUS MATERIAL TO BLEND LEVELS TO NATURAL
 CONTOURS OF THE LAND AND ACCOMMODATE GRAZING
 TO SECURITY FENCE LINE.

CONTINUOUSLY SEAM WELDED 2.5MM HDPE LINER ANCHORED IN TRENCH
 AROUND TOP OF LAGOON AND GRADED DOWN 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.



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Drawing Title: PLAN & SECTION - CELL 2		The copyright of this drawing remains the property of PG Quinn Limited and may not be copied, reproduced, retained or disclosed to any unauthorised person or entity without written permission.	