

North Western  
Passive  
Recreation Area

North Eastern  
Passive  
Recreation Area

South Western  
Passive  
Recreation Area

Wetland consisting  
of 20 modules.  
Total length - 500m.  
To be located adjacent  
to Slalom Course

South Eastern  
Passive  
Recreation Area

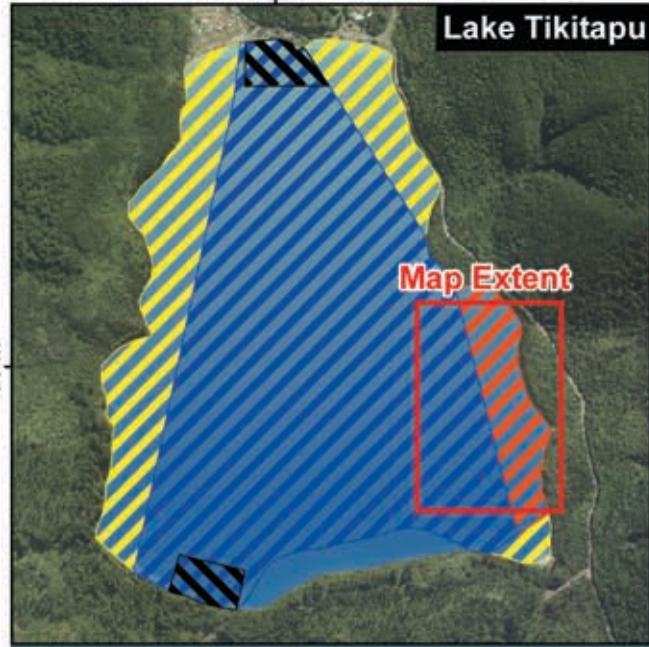
- Legend**
- Boat Ramp
  - Water Ski Access Land Post
  - Water Ski Access Lane Buoy
  - Yellow Conical - Swim no boats
  - Red Conical - No swimming
  - 5 Knot Marker
  - Proposed floating wetland
  - Personal Water Craft Area
  - Water Ski Area
  - Passive Recreation Area
  - Water Ski Access Area
  - Lake Tikitapu

1<sup>1</sup> Aerial LINZ dataset from Western Bay of Plenty District Council GIS, CC-BY-3.0-NZ  
 2<sup>1</sup> Map image: Land Information New Zealand NZ Topo Series, CC BY 3.0 NZ  
 3<sup>1</sup> Lake areas sourced from Bay of Plenty Regional Council - Lake Tikitapu - Base Map (c2472 November 2010)  
 4<sup>1</sup> Schematic only, not to be interpreted as an engineering design or construction drawing  
 5<sup>1</sup> Drawn by: KC; Reviewed by: XX



Coordinate System: NZGD 2000 New Zealand Transverse Mercator





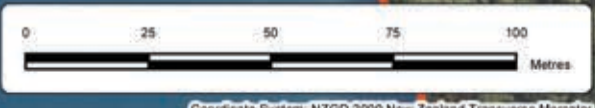
**Lake Tikitapu**

**Map Extent**



- Legend**
- Slalom course buoys
  - Red Conical - No swimming
  - Buoy
  - Matts
  - Personal Water Craft Area
  - Water Ski Area
  - Lake Tikitapu

1<sup>1</sup> Aerial LINZ dataset from Western Bay of Plenty District Council GIS, CC-BY-3.0-NZ  
 2<sup>1</sup> Map image: Land Information New Zealand NZTopo Series, CC BY 3.0 NZ  
 3<sup>1</sup> Lake areas sourced from Bay of Plenty Regional Council - Lake Tikitapu - Base Map (c2472 November 2010)  
 4<sup>1</sup> Width of Matt is 2.3m - dimension shown on map is collectively rounded to 0 decimal point  
 5<sup>1</sup> Schematic only - not to be interpreted as an engineering design or construction drawing  
 6<sup>1</sup> Drawn by: KC. Reviewed by: XX



Coordinate System: NZGD 2000 New Zealand Transverse Mercator



**DRAFT**

TITLE | **SITE LAYOUT PLAN - LAKE TIKITAPU**

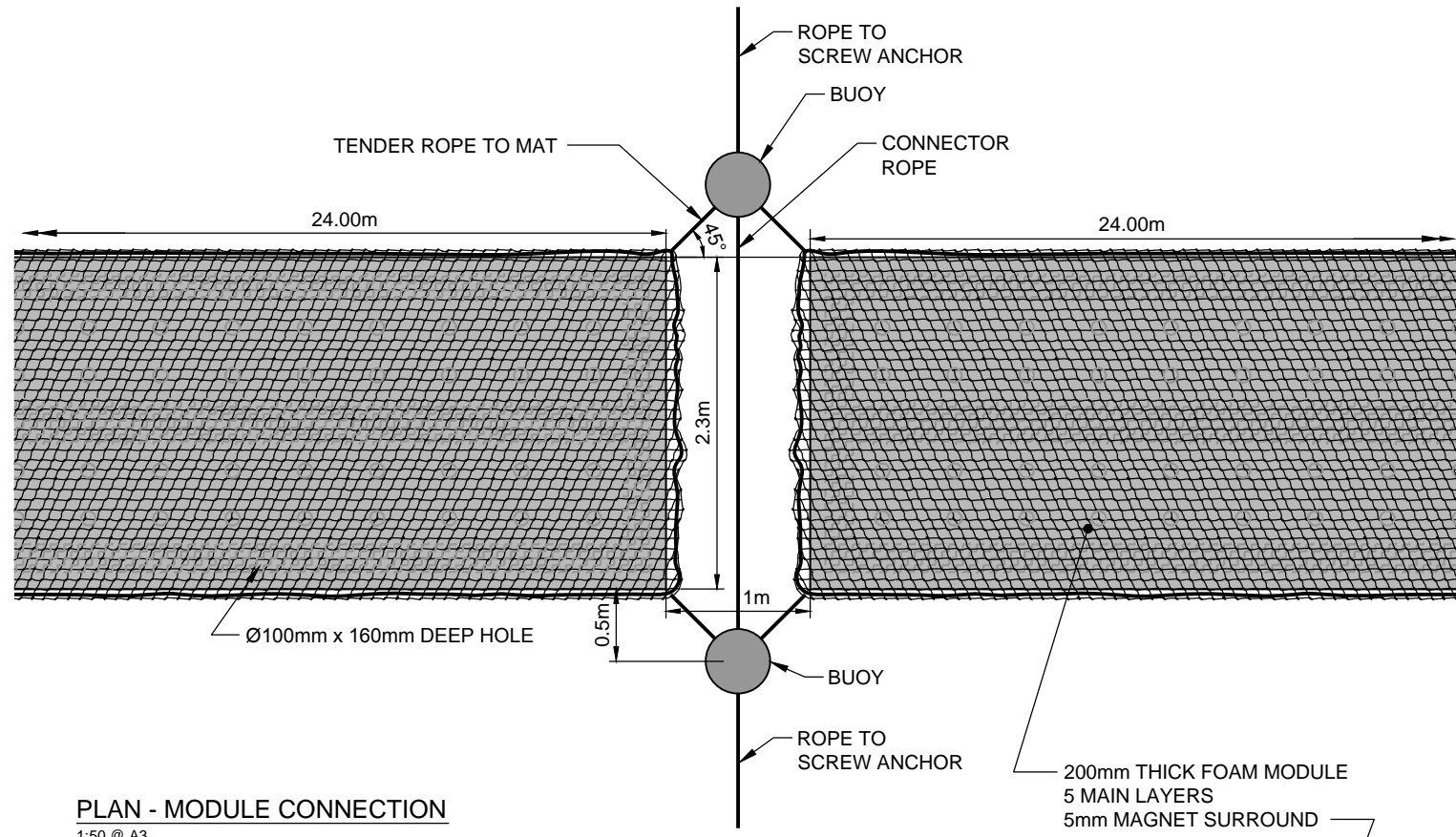
**JUNE 2015**

PROJECT | 0978210861

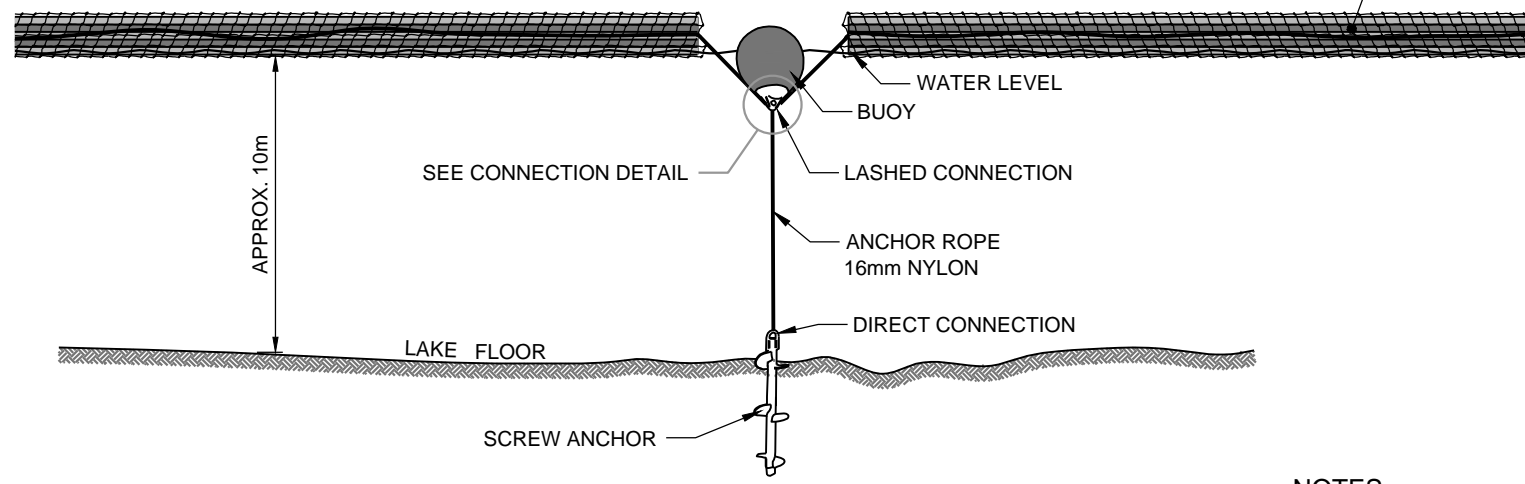
**2**



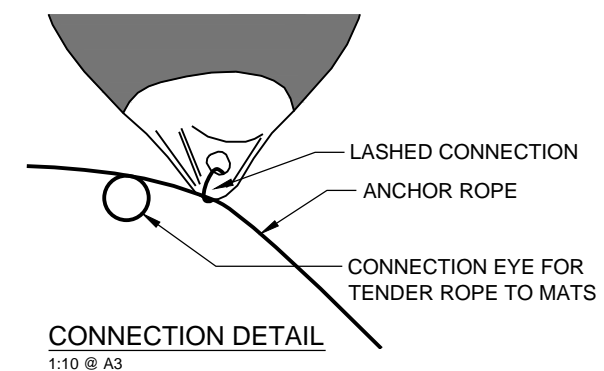
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**PLAN - MODULE CONNECTION**  
1:50 @ A3



**SECTION - MODULE CONNECTION**  
1:50 @ A3



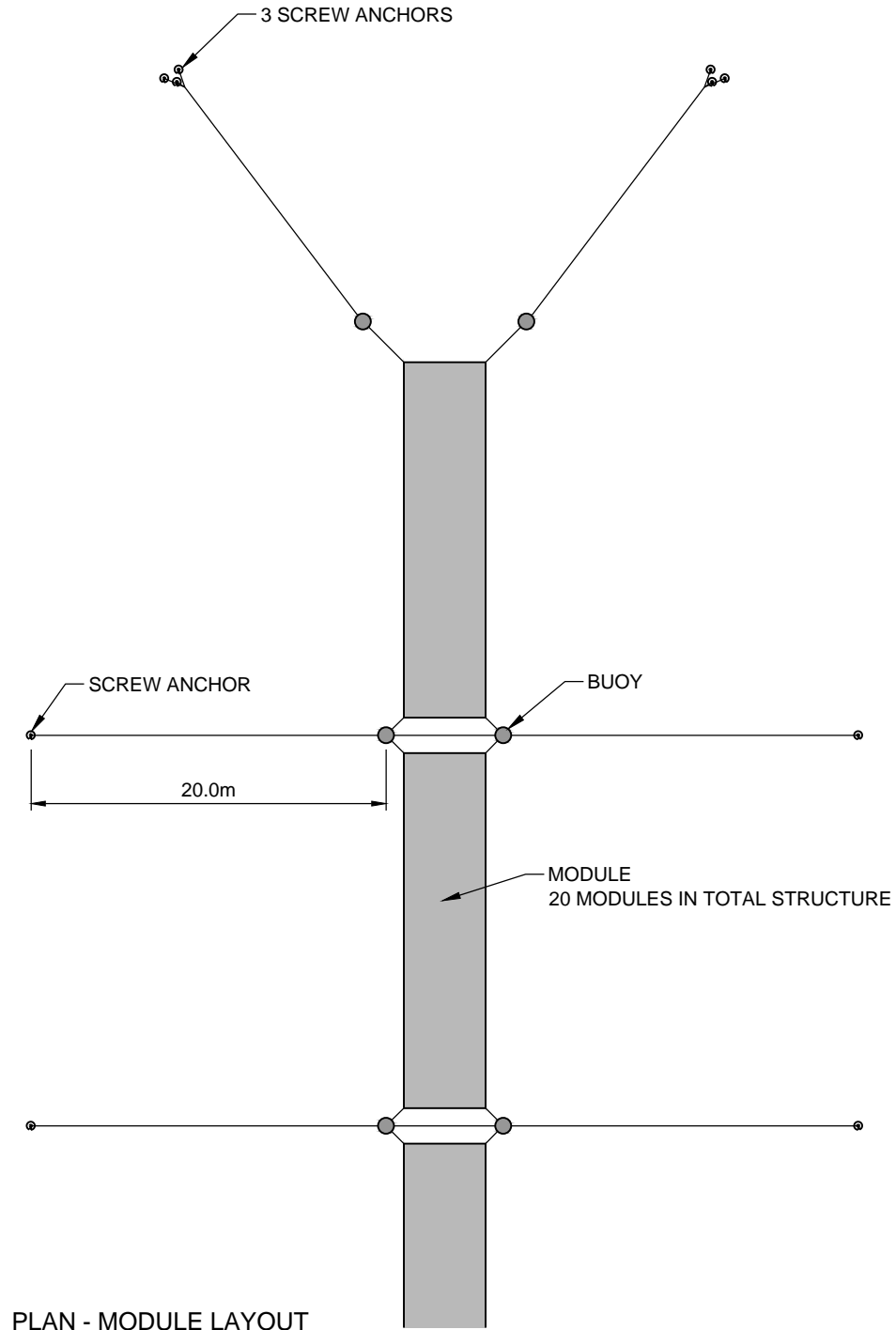
**CONNECTION DETAIL**  
1:10 @ A3

**NOTES:**

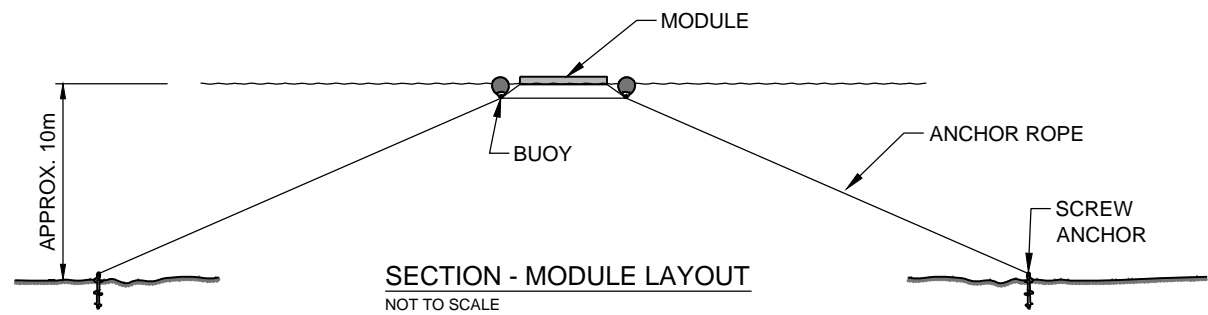
1. Screw anchor supplied and installed by Fielder Marine. Individual design holding power approximately 1,300kg
2. Anchor rope 16mm dia. nylon rope breaking strain >5,000kg
3. Buoys 55l flotation HD PPE sub-sea floats
4. All connections tied, lashed or shackled as required
5. Overall structure tensioned to minimize movement

	CLIENT Waterclean Technologies		PROJECT LAKE TIKITAPU FLOATING WETLAND						
	DRAWN BY TRA	DATE JUNE 2015	DRAWING TITLE MODULE ASSEMBLY						
	CHECKED BY IL	DATE JUNE 2015							
	SCALE AS SHOWN AT A3	SHEET SIZE A3	PROJECT No 0978210861	DOC No -	DOC TYPE -	FIGURE No F001	REVISION 1		

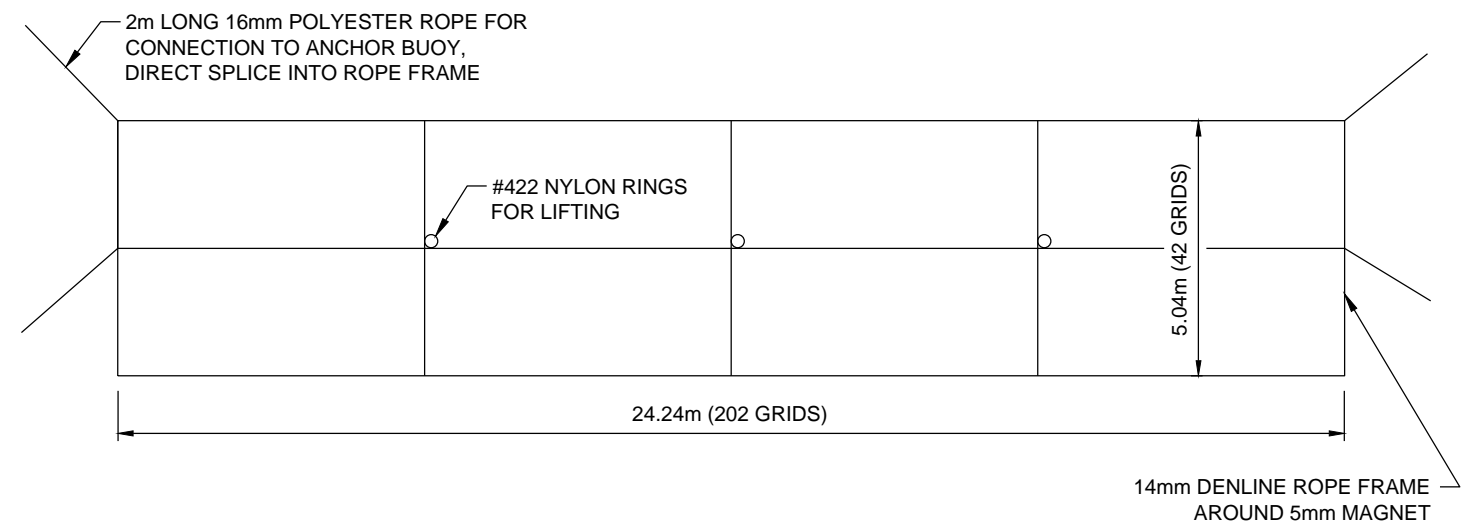
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**PLAN - MODULE LAYOUT**  
NOT TO SCALE



**SECTION - MODULE LAYOUT**  
NOT TO SCALE



**NET CAGE DETAIL**  
NOT TO SCALE

**NET STRUCTURE TO ENCASE FOAM MATS AND TO BE LASHED TOGETHER**

**NOTES:**

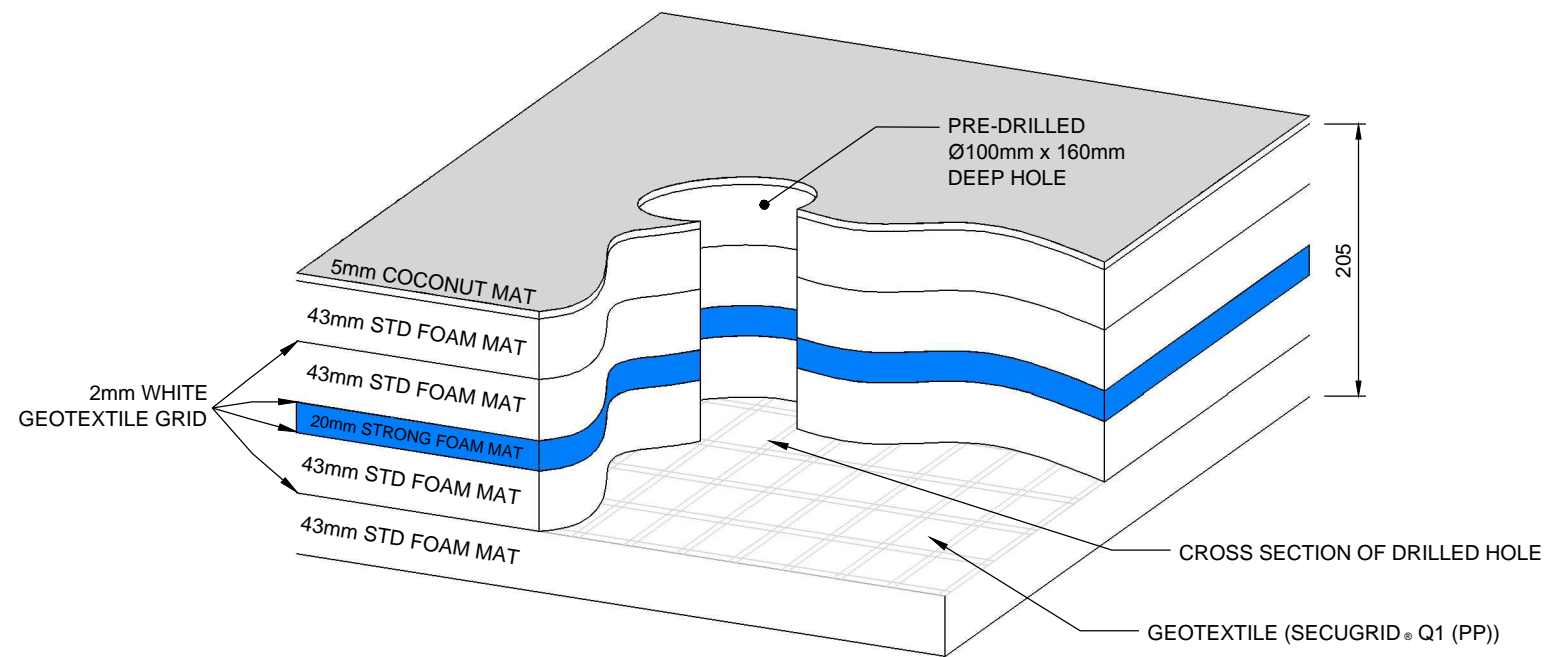
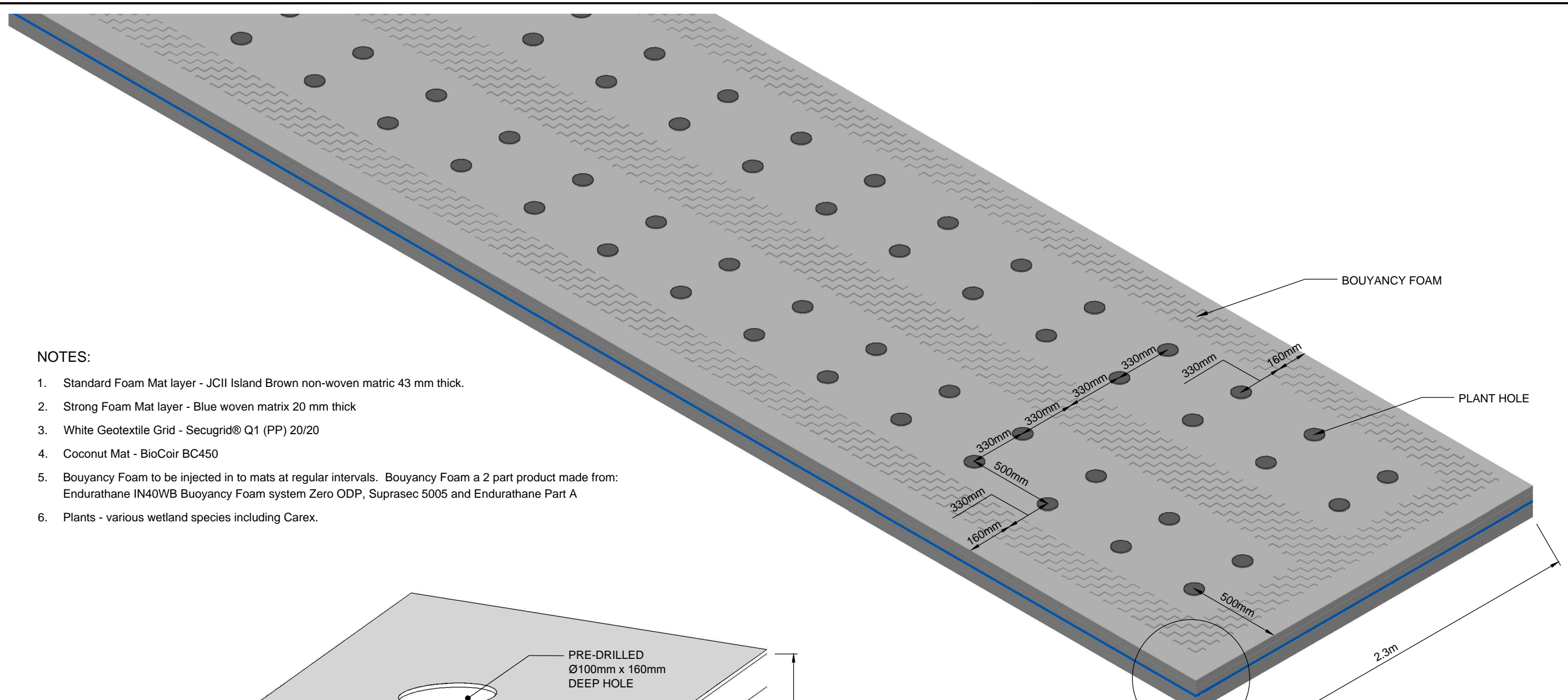
1. Screw anchor supplied and installed by Fielder Marine. Individual design holding power approximately 1,300kg
2. Anchor rope 16mm dia. nylon rope breaking strain >5,000kg
3. Buoys 55l flotation HD PPE sub-sea floats
4. All connections tied, lashed or shackled as required
5. Overall structure tensioned to minimize movement
6. Total structure to consist of 20 mat modules
7. Two northern mat modules to be angled in at 12° from the rest of the floating wetland

	CLIENT Waterclean Technologies		PROJECT LAKE TIKITAPU FLOATING WETLAND						
	DRAWN BY TRA	DATE JUNE 2015	DRAWING TITLE						
	CHECKED BY IL	DATE JUNE 2015	<b>MODULE LAYOUT</b>						
SCALE AS SHOWN AT A3	SHEET SIZE A3	PROJECT No 0978210861	DOC No -	DOC TYPE -	FIGURE No F002	REVISION 1			

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**NOTES:**

1. Standard Foam Mat layer - JCII Island Brown non-woven matric 43 mm thick.
2. Strong Foam Mat layer - Blue woven matrix 20 mm thick
3. White Geotextile Grid - Secugrid® Q1 (PP) 20/20
4. Coconut Mat - BioCoir BC450
5. Bouyancy Foam to be injected in to mats at regular intervals. Bouyancy Foam a 2 part product made from: Endurathane IN40WB Buoyancy Foam system Zero ODP, Suprasec 5005 and Endurathane Part A
6. Plants - various wetland species including Carex.



**ISOMETRIC**  
1:25

**DETAIL A**  
1:5

	CLIENT Waterclean Technologies		PROJECT LAKE TIKITAPU FLOATING WETLAND						
	DRAWN BY TRA	DATE MAY 2015	DRAWING TITLE						
	CHECKED BY IL	DATE MAY 2015	<b>PLANT HOLES ISOMETRIC &amp; DETAIL</b>						
	SCALE AS SHOWN @ A3	SHEET SIZE A3	PROJECT No 0978210861	DOC No -	DOC TYPE -	FIGURE No F003	REVISION 0	-	