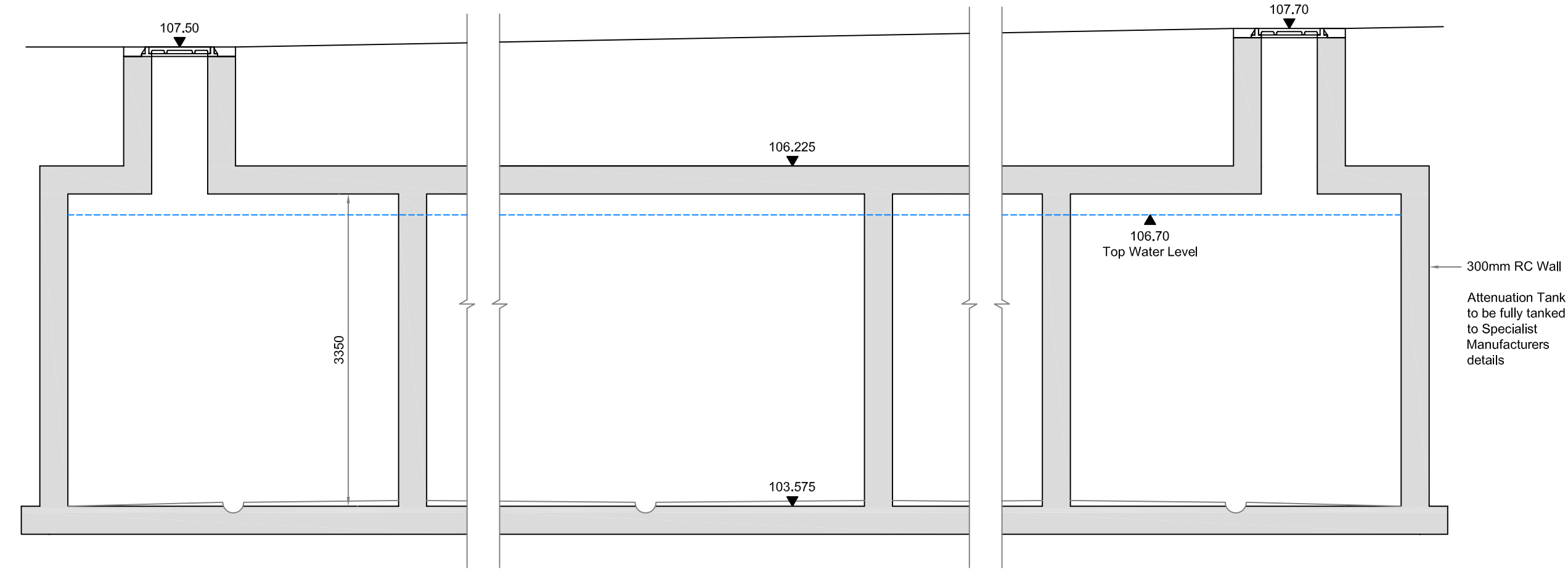
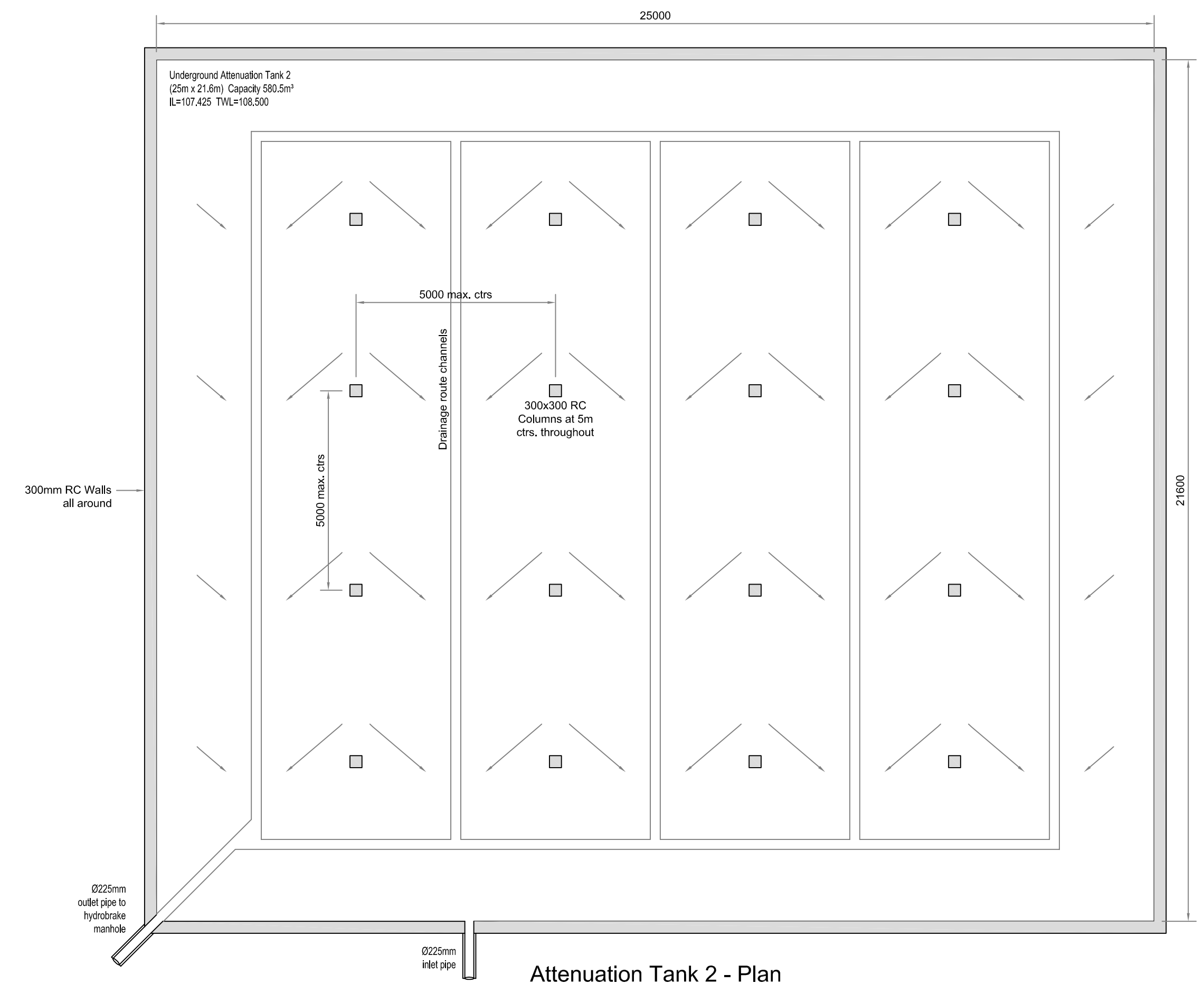


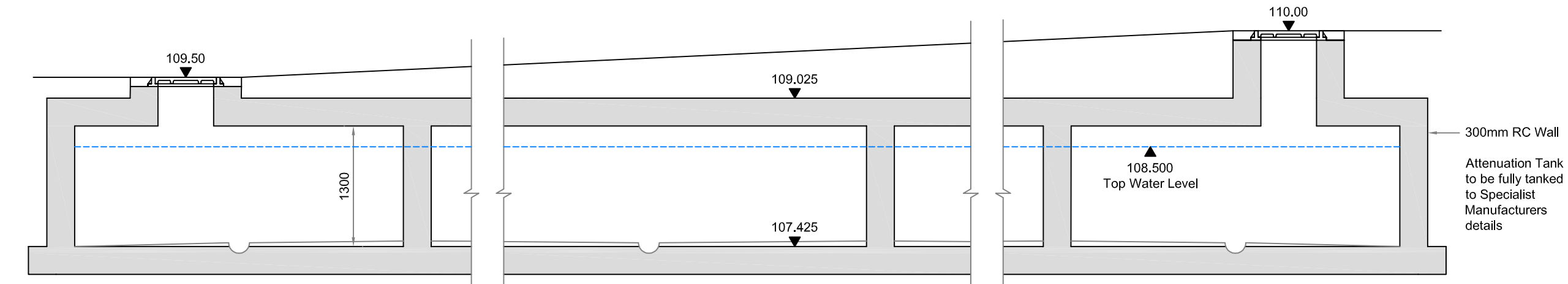
**Attenuation Tank 1 - Plan**  
Scale 1:100



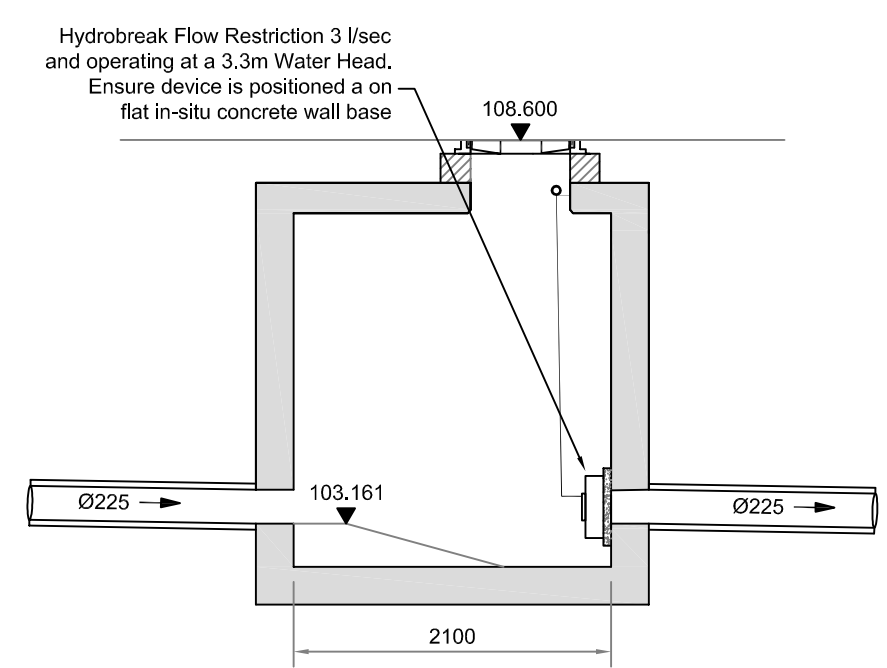
**Attenuation Tank 1 - Section**  
Scale 1:50



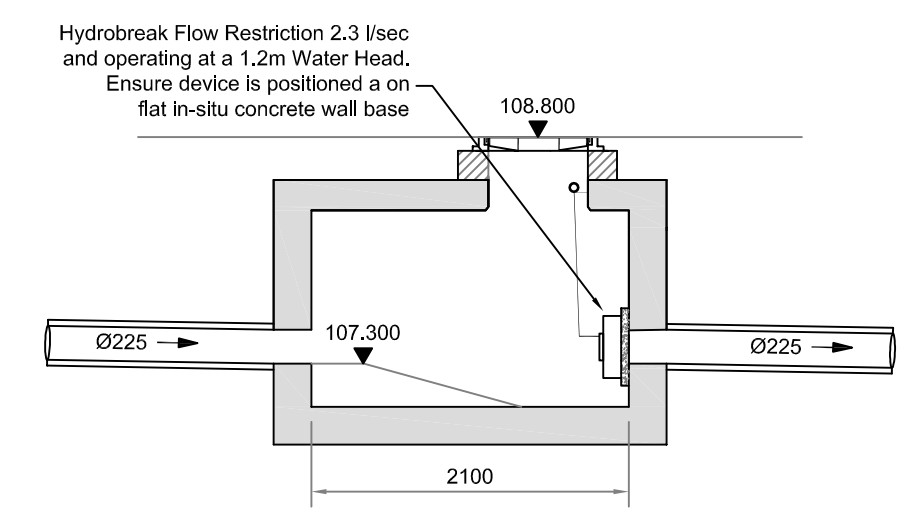
**Attenuation Tank 2 - Plan**  
Scale 1:100



**Attenuation Tank 2 - Section**  
Scale 1:50



**Hydrobrake Manhole at Attenuation Tank 1**  
Scale 1:50



**Hydrobrake Manhole at Attenuation Tank 2**  
Scale 1:50



**Typical 225 Litre Rainwater Butt**  
N.T.S

All houses to receive a 225 litre Rainwater Butt tapped to roof drain downpipe, to store rainwater for domestic garden use

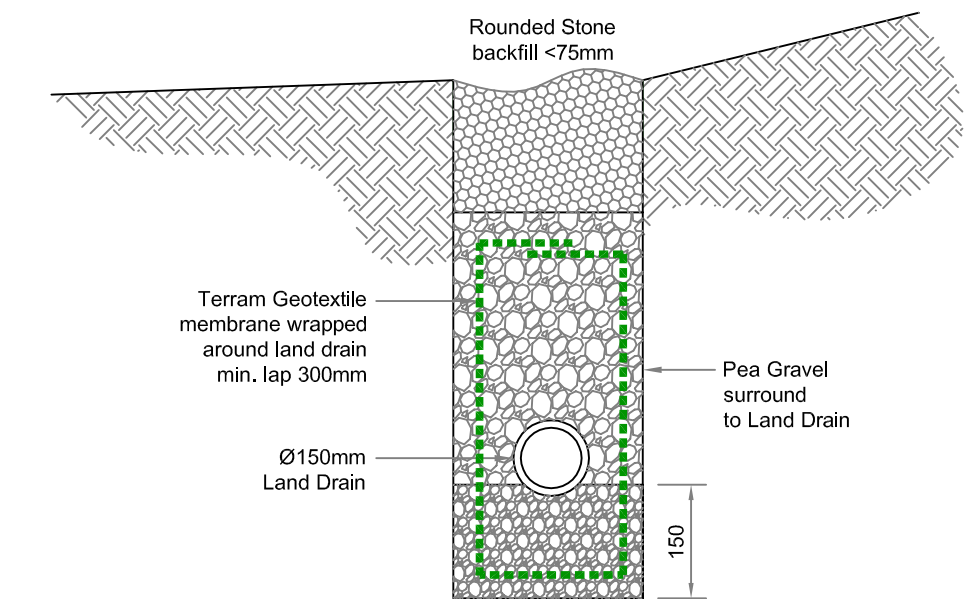


**Klargester Bypass Separator NSBP004**  
N.T.S

Each bypass separator design includes the necessary volume requirements for:

- Oil separation capacity
- Oil storage volume
- Silt storage capacity
- Coalescer

The unit is designed to treat 10% of peak flow. The calculated drainage areas served by each separator are indicated according to the formula given by FPG3 NSS = 0.0018A(m<sup>2</sup>). Flows generated by higher rainfall rates will pass through part of the separator and bypass the main separation chamber. Class 1 separators are designed to achieve a concentration of 5mg/litre of oil under standard test conditions.



**Typical Land Drain Detail**  
SCALE 1:10

|   |                      |                          |                           |
|---|----------------------|--------------------------|---------------------------|
| P1  | 20.11.17             | REVISED LAYOUT           | CB                        |
| REV.  | DATE                 | DESCRIPTION              | BY                        |
| © This drawing is Copyright and must only be used for the project below.  |                      |                          |                           |
| <b>PAT O'GORMAN &amp; ASSOCIATES</b><br>Consulting Structural and Civil Engineers   |                      |                          |                           |
| Unit C2, Nutgrove Office Park, Rathfarnham, Dublin 14.<br>Tel: +353 1 205 1101 Fax: +353 1 205 1102<br>E-mail: info@pogorman.ie www.pogorman.ie |                      |                          |                           |
| <b>PROJECT</b><br>EARLS COURT, KILL, Co. KILDARE  |                      |                          |                           |
| <b>DRAWING TITLE</b><br>ATTENUATION & DRAINAGE DETAILS  |                      |                          |                           |
| <b>ARCHITECT</b><br>JFOC ARCHITECTS   |                      | <b>STAGE</b><br>PLANNING |                           |
| <b>DATE</b><br>JUN 2017   | <b>CHECKED</b><br>EM | <b>DRAWN</b><br>CB       | <b>SCALES</b><br>AS SHOWN |
| <b>DWG NO.</b><br>1715-108  |                      | <b>REV.</b><br>P1        |                           |