

Retaining Wall Layout Plan
Scale 1:50

- NOTES :**
1. All work to be carried out in accordance with current building regulations & codes of practice.
 2. Do not scale the drawings.
 3. All the dimensions should be verified on the site.
 4. This drawing and the design is the copyright of FBS and is not to be used for any purpose without their consent.
 5. The associated drawings may not be copied, lent, used by a third party or reproduced in whole or in part without express written permission of the drawing owner.

Retaining Wall Blockwork to be dense concrete with a minimum compressive strength of 7N/mm². Mortar to be 1:1/2:4 1/2 Cement : Lime : Sand or equivalent.

Concrete to be grade C28/35 to BS8110. Class 1 Sulphate resisting max aggregate size:-
Wall - 10mm
Base - 20mm

Foundation to be on ground capable of supporting 100KN/m².

Cover to reinforcement to be 50mm.

CDM Regulations - The client and the contractor must be abide by the construction design and management regulation 2015 which relate to any building works which: (a) Last longer than 30 working days and has more than 20 workers working simultaneously at any point in the project. or: (b) Exceeds 500 persons a day.

Please refer to <http://www.hse.gov.uk/pubns/indg411.htm> for guidance and compliance. for the cdm regulation the client will be employing one contractor and fbs responsibility for the project will be for the design only and does not include any project management.

REV.No.	Date	Description

CLIENT

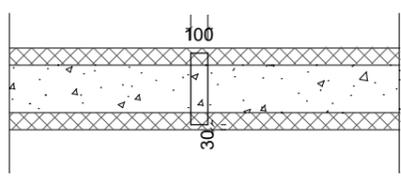


PROJECT NAME
18 Wells Road, WF120LE

DRAWING TITLE
Retaining Wall Design

DRAWN BY/ CHECKED BY
MR/FY

PHASE	SCALE	SHEET NO.	PROJ.NO.
Planning	varies @ A3	ST-13	E20054



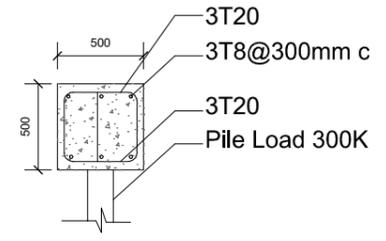
Wall Ties/Construction options
Scale 1:20

Details for High Lift Construction
Tie to be 6mm Dia links as diagram.

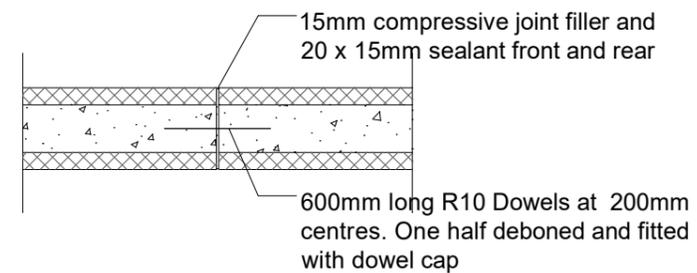
Austenitic Stainless Steel or Galvanised low carbon steel (Galvanised to BS729 min. Mass of Zinc Coating 940g/m²) As diagram.

For Concrete Pours up to 1.5m high fix ties at above at 225mm vertical and 900mm horizontal centres (staggered by 450mm). Before concrete is placed the cavity is to be fully cleaned out. clean out holes (200 x 150 at 500mm centres) to be left at the base of the wall.

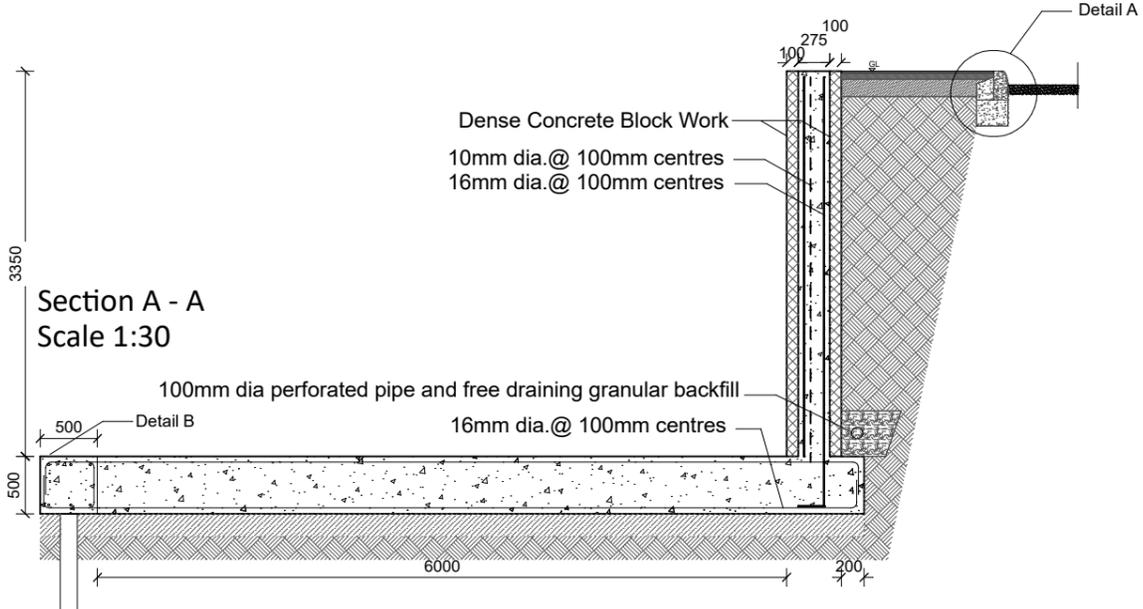
Details for low Lift Construction
For low lift concrete pours stainless steel vertical twist (or equivalent) ties should be used at 750mm Horizontal Centres and 225mm Vertical Centres staggered (75mm Embedment). The cavity must be fully cleaned and concrete poured in 450 lifts.



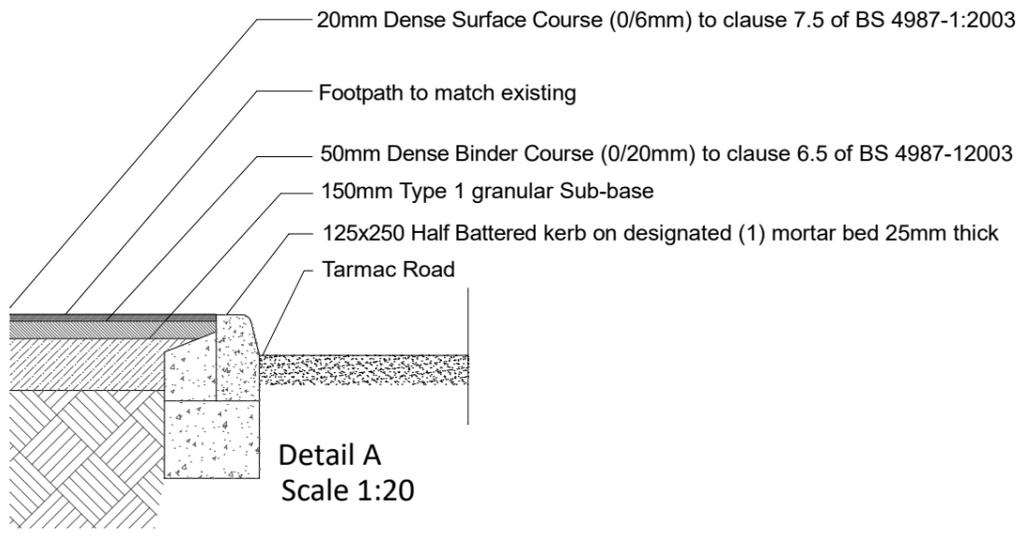
Detail B
Scale 1:20



Expansion Joint Detail
Scale 1:20



Section A - A
Scale 1:30



Detail A
Scale 1:20