

Ground Beam Schedule		
Type	Size	Reinforcement (UNO)
B1	600w x 600d	6No. H12's top, 6No. H25's bottom, H10 links @ 200mm c/c
B1A	600w x 450d	6No. H12's top, 6No. H25's bottom, H10 links @ 200mm c/c
B2	600w x 600d	4No. H12's top, 4No. H25's bottom, H10 links @ 200mm c/c
B3	600w x 600d	4No. H12's top, 4No. H20's bottom, H10 links @200mm c/c
B3A	600w x 450d	4No. H12's top, 4No. H20's bottom, H10 links @200mm c/c
B4	600w x 600d	4No. H12's top, 4No. H16's bottom, H10 links @ 200mm c/c
B4A	600w x 450d	4No. H12's top, 4No. H16's bottom, H10 links @ 200mm c/c
B5	600w x 600d	4No. H20's top, 4No. H25's bottom, H10 links @ 200mm c/c
Tie Beam	400w x 400d	4No. H12's top, 4No. H12's bottom, H10 links @ 200mm c/c

Note:

Heave Protection required to some ground beams - refer to drawing 102 for details of protection measures and 701 for extent of ground beams affected

Top of Ground beam level 6.105m unless stated otherwise

GENERAL NOTES:

- This drawing is to be read in conjunction with all relevant Architect's, Engineer's and specialist Sub-contractor's drawings and specifications.
- All setting out to be in accordance with the Architects drawings, any discrepancies between the Engineers and Architects drawings to be referred to the Architect before proceeding. Dimensions must not be scaled.
- All dimensions are in millimetres; levels are in metres A.O.D. (Above Ordnance Datum).

REINFORCED CONCRETE:

- Concrete grade to be as stated on drawings/details
- All reinforcing steel to be grade B500 to BS EN 10080:2005 and BS4449:2005. All tying wire to be stainless steel annealed wire, 1.2mm diameter.
- Cover to reinforcement to be as stated on drawings/details
- Aggregate to comply with BS EN 12620 and should be normal weight, 20mm maximum unless noted otherwise.
- Concrete finishes to be as follows (refer to the Specification for definitions):

In foundations:	Basic
Wall, unless exposed:	Plain smooth
Exposed faces of walls:	Fine smooth
Soffit of ground floor slab:	Special
Exposed edges of ground floor and roof slabs:	Special
Slabs, unless stated otherwise:	Fine smooth
Roof upstand:	Fine smooth
External stairs:	Plain smooth
- Concrete delivery to comply with BS EN200-1 and conform to BS EN8500-2.
- All watertight concrete is to be constructed using the Sika concrete system, and is to be constructed in accordance with the current recommendations and regulations of Sika specification. All services passing through watertight concrete to have waterbars in accordance with Sika details. Refer to the concrete specification table for Sika concrete mix specification. For maximum embedment depth of fixings into Sika concrete, refer to Sika's recommendations.

PCC PLANK FLOOR NOTES:

- ALL PCC PLANK FLOORS IN ACCORDANCE WITH SPECIALIST SUPPLIERS DESIGN, DETAILS AND SPECIFICATION.
- Floor manufacturer to submit detailed drawings, layouts and calculations to the engineer, allowing 10 working days for comment prior to required date of approval.
 - Beam & block floor loadings (excluding self weight) -

Screed	- 1.80 kN/m ²
Insulation	- 0.10 kN/m ²
Services	- 0.20 kN/m ²
Partitions	- 1.00 kN/m ²
Total dead	- 3.10 kN/m ²
Live (Apartments)	- 1.50 kN/m ²
Live (Communal areas)	- 3.00 kN/m ²
 - The Principal Contractor is to ensure that the design loadings specified for the flooring system are not exceeded in the temporary condition i.e. under construction loadings.
 - Load bearing walls to be constructed in advance of concrete floors which they support and are to be sufficiently cured before being loaded.
 - Coursing slips to be supplied by specialist floor manufacturer where required.
 - Main contractor to ensure pre-camber to floor planks does not impact the Engineers or Architects details or specifications.

MASONRY NOTES:

- All masonry walls to be in accordance with BS 5628
- Brickwork to have a minimum average crushing strength of 20N/mm² and a water absorption not exceeding 12%.
- All blockwork below DPC level to be 7N/mm² medium dense aggregate concrete blocks unless noted otherwise.
- Walls below DPC level to be set in mortar designation (ii), strength class M6 in accordance with BS5628-1:2005 table 1.
- Walls above DPC level to be set in mortar designation (iii), strength class M4 in accordance with BS5628-1:2005 table 1.
- Wall ties to be Ancor ST2 or equivalent to PD6697 at 450mm centres vertically and 900mm centres horizontally staggered.
- Additional ties to be provided at openings and at movement joints at 225mm centres vertically.
- Minimum tie embedment 50mm, wall ties shall not slope inwards.
- Backfill operations to be carried out simultaneously to both sides of walls below ground floor level to prevent surcharging the wall.
- Cavities below ground level to be concrete filled to within 150mm of DPC. All DPC's, DPM's and tanking to be in accordance with the Architect's specifications and details U.N.O.
- All walls to be central to their foundations unless noted otherwise.
- Movement joints to be positioned at 6m centres in blockwork and 12m centres in brickwork.
- Movement joints to be formed with 15mm Fosroc Hydrocol XL or similar joint filler with a Fosroc 20 x 15 Thioflex 600 joint sealant. (Colour and fire resistance of sealant to be advised by Architect).
- Openings in rendered blockwork to have masonry bed reinforcement - refer detail on drawing 202

Key

Spans of 150mm thick PCC floor

B	22.03.2017	Substructure walls added around booster pump room	JSB
A	07.03.2017	Substructure amended to HGP comments. Additional ground beams added under water booster tank	JSB
T	04.01.2016	Base plates added	JCNC
T	20.12.2016	First Issue	JCG
Rev.	Date	Description	Issued By

STAGE 5 FOR CONSTRUCTION

calcinotto

CONSULTING STRUCTURAL CIVIL AND ENVIRONMENTAL ENGINEERS

ADDRESS: 2nd Floor, Jonsen House, 43 Commercial Road, Poole, Dorset BH14 0HU
T: 0044 1202 237237 W: www.calcinotto.co.uk E: admin@calcinotto.co.uk

Client: **McCarthy & Stone**

Project Title: **Hayling Island Retirement Living**

Drawing Title: **Foundation and Ground Floor GA**

Drawn By	JCNC	Project No.	Drwg No. [Rev]
Scale	1:100 @ A1	SO-2267-05-SE 101 [B]	
Date	14.12.16		