

PRE-CAST FLOOR CONSTRUCTION

1. All design packages used for pre-cast concrete floor units shall be B.S.I. or agrément approved. Copies of relevant documentation shall be supplied to the Engineer on request.

2. The pre-cast unit manufacturer shall supply the Engineer with 2 copies of all design calculations, drawings etc. (including reinforcement drawings for R.C. elements) and shall not proceed with manufacture until comments are received from the engineer. Allow 5 working days for comments and programme works to comply with main contractors programme.

3. All structural concrete design shall comply with BS 8110 and shall allow for the following unfactored loadings:

Finishes & screed load

All areas - 2.5kN/m²

Imposed load

Office loading - 3.0kN/m²
Plant Room - 7.5kN/m²
Main Hall - 5.0kN/m²
Partitions - 1.0kN/m²

4. Self weight of floor units for ground floor construction to be not more than 300 kg/m².

5. Self weight of floor units for upper floor construction to be not less than 300 kg/m² and not more than 340 kg/m².

6. Where beam and block floor systems are used, air bricks to ventilate the under floor voids shall not be located under beam bearings.

7. All concrete units to have nominal 90mm (minimum 75mm) bearings on structural steelwork sections and nominal 100mm (minimum 90mm) bearings on masonry except where shown otherwise on the drawings.

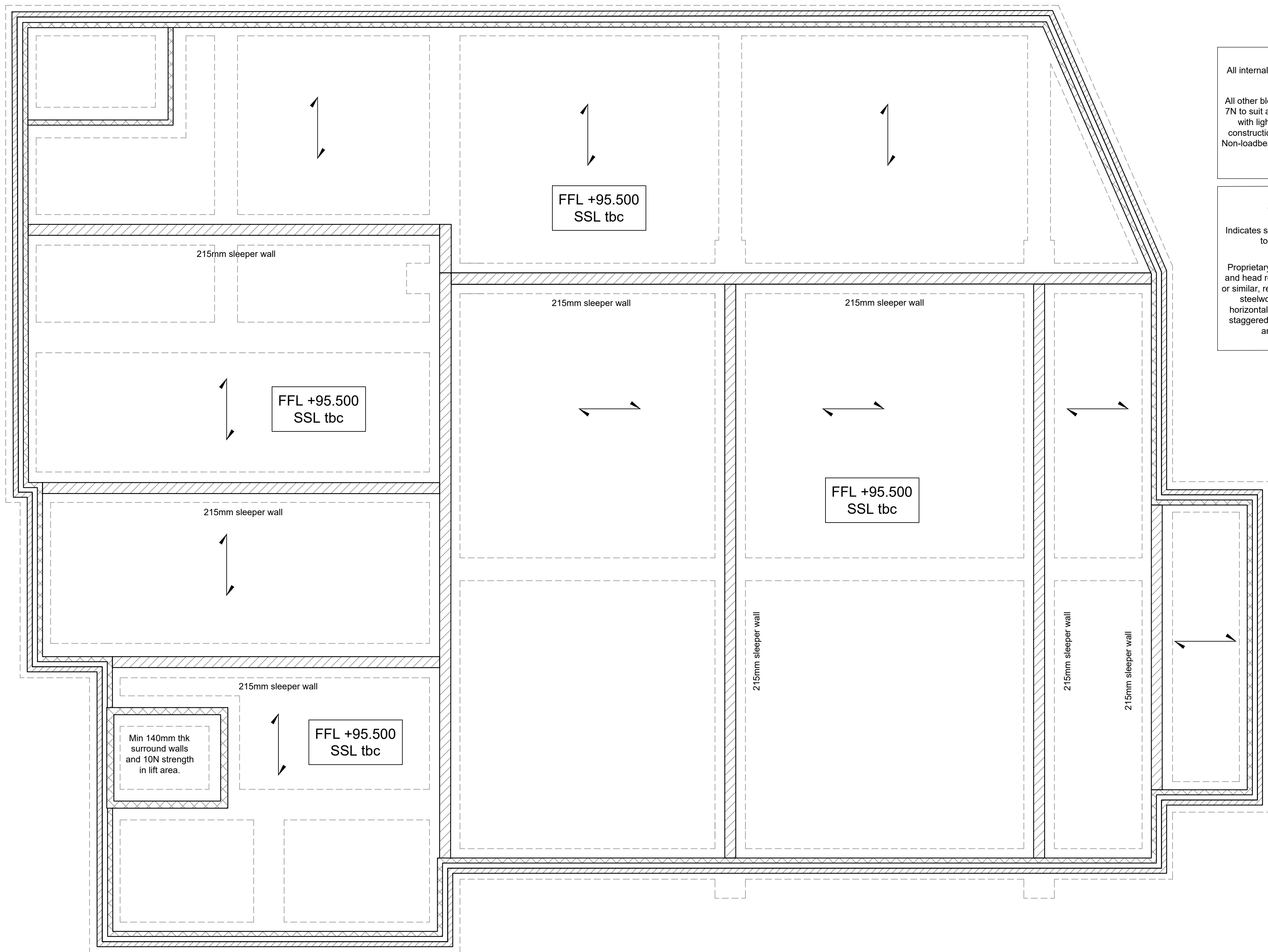
8. Where sides of hollow plank units are built into walls, pin up hard between wall and underside of unit with 1:3 cement:sand mortar to ensure structural continuity.

9. All concrete infill between hollow plank units and for closing up of holes around services etc. Not to be less than grade C25/30, S3 slump to BSEN206-1, BS8500-1 and BS8500-2.

10. Grouting of units shall be in strict accordance with manufacturer's instructions.

11. External and party walls parallel with beam span shall be restrained at top of upper floor levels with galvanised 30 x 5.0mm straps having a size not less than 100 x 900 at no more than 2.0m centres in houses and 1.25m centres in flats.

12. PCC planks to be designed to suit holes and notches as detailed on the drawings. Floor supplier to include for trimming around service holes, except as detailed on the drawings.



All internal walls to be lightweight partitions.

All other blockwork to be minimum 7N to suit architects requirements, with lightweight internal wall construction to architects details. Non-loadbearing lintels to architects details.

Indicates span of 225 deep B+B floor to specialist design.

Proprietary stainless steel wall ties and head restraint fixings, by Ancon or similar, required to the surrounding steelwork at 900mm centres horizontally and 450mm vertically staggered, in accordance with the architects details.

Key

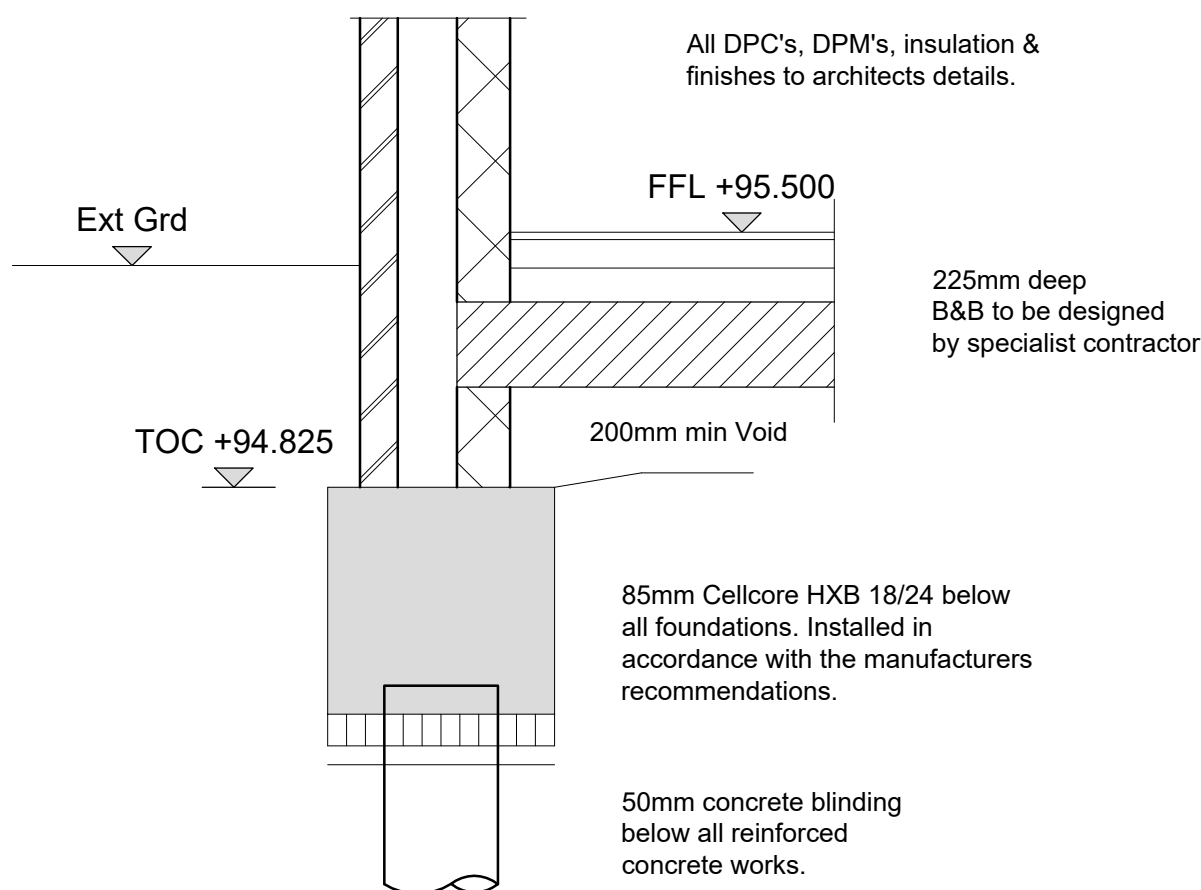
215mm blockwork
7.N min strength

100mm brickwork
20N to architect's specification

100mm blockwork
7.N min strength

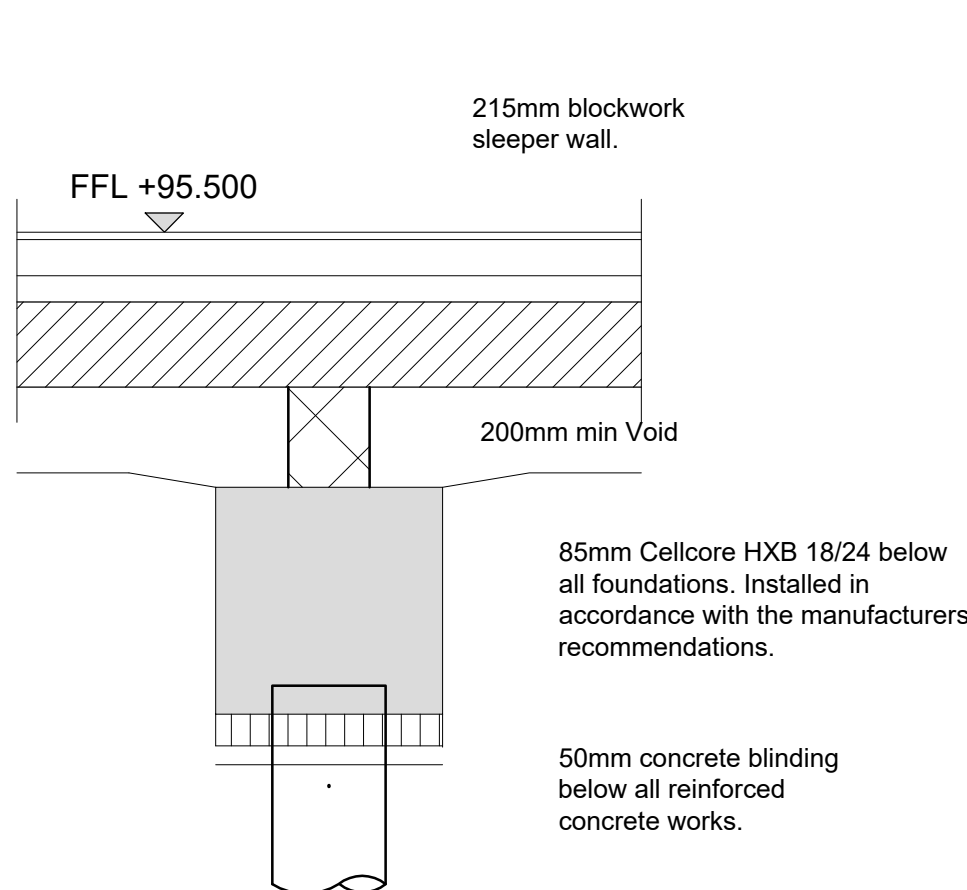
Span of B+B Floor
by specialist design.

PLEASE NOTE THAT ALL 215mm SLEEPER WALLS ARE TO BE PLACED CENTRALLY ON GROUND-BEAMS, ALL EXTERNAL WALLS ARE TO BE SET OUT ACCORDING TO ARCH'S DRAWINGS.



Typical External Section

(Scale 1:25)



Typical Internal Section

(Scale 1:25)

PLEASE NOTE THAT THE EXISTING FOUNDATIONS FOR THE EXISTING STRUCTURE ARE TO BE REMOVED BEFORE PLACING NEW FOUNDATIONS. CONTRACTOR TO ALLOW FOR THE REMOVAL OF EXISTING FOUNDATIONS. FOR AREAS OF EXISTING FOUNDATION REFER TO RECORD & EXISTING DRAWINGS

P4	- Issue for Tender	08/02/19	XX	XX
P3	- Revised to Arch's Drawing	19/12/18	XX	XX
P2	- Revised to suit foundation layout	30/11/18	XX	XX
P1	- Issue for Comment	08/11/18	XX	XX
Rev	Description	Date	CHK	Apr
Project No:	600682	Scale @ A1:	As Indicated	Drawn By: A.J.W



Vision, form and function

Project:
Chantry Community Centre
Chantry Way
Billericay, Essex
CM11 2BB

Client:
Billericay Town Council

Title:
Foundation layout

Drawing Number:	CHNTRY- IW -XX-XX-DR-S-7001		
Status:	Purpose of Issue:	Revision:	
D2	Tender	P4	