

- Notes
- DO NOT SCALE - Use figured dimensions only
  - All dimensions shown are in millimetres unless otherwise stated.
  - All levels are in metres above ordnance datum unless otherwise stated.
  - The Contractor is to verify all dimensions on site before commencing work or preparing shop drawings.
  - This drawing is to be read in conjunction with all Engineers and Architects drawings.

- MASONRY
- Blockwork to be minimum 3.6N/mm<sup>2</sup> compressive strength.
  - Mortar above ground: Type (iii)/M4 to BS 5628-1 (2005) 1 : 5 to 6 (cement : sand) by volume.
  - Mortar below ground: Type (ii)/M6 to BS 5628-1 (2005) 1 : 3 to 4 (cement : sand) by volume
  - Blockwork below dpc to be 7N/mm<sup>2</sup> compressive strength.
  - Vertical movement joints to be spaced at max 6m horz c/c in blockwork & 12m horz c/c in brickwork unless bed joint reinforcement has been specified.
  - All cavity walls to be constructed with Type 2 cavity wall ties (Ancor RT2 or similar). Installed at 750 horz c/c & 450 vert c/c (or to provide not less than 2.5 ties/m<sup>2</sup>). Additional ties spaced at 225 vert c/c within a distance of 225mm of all openings, movement joints & roof verges.

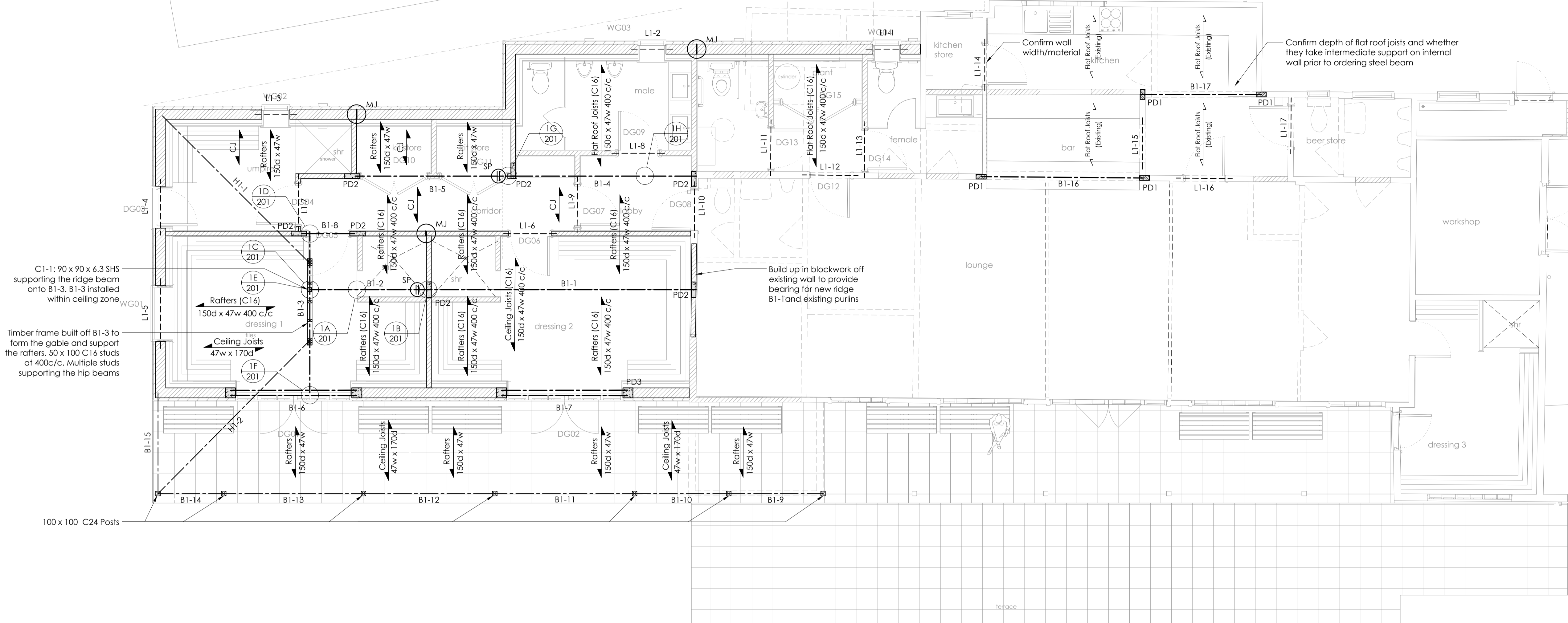
- LINTELS
- All lintels to have minimum 150 mm end bearing each end.
  - Pre-stressed concrete type: Naylor Hi-Spec / Supreme Concrete. Steel lintels to be IG / Keystone / Catnic

- STEELWORK
- All steelwork to be CE marked.
  - Execution Class EXC2 to BS EN 1090-2.
  - Steel beams to be grade S275
  - Connections to be minimum 4No. M16 grd 8.8 bolts
  - Minimum bearing length:
    - 100 mm where spanning perpendicular to wall
    - 150 mm where longitudinal with wall
  - Protective coating - Internal Concealed:
    - Paint manufacturer: Sherwin-Williams
    - Shop preparation: Blast cleaning to BS EN ISO 8501-1, preparation grade Sa2.5
    - Shop primer: Macropoxy C400V3 Zinc phosphate primer/ buildcoat; dry film thickness: 80 microns.

- LATERAL RESTRAINT STRAPS
- Wall plates to be strapped down internal face of inner leaf blockwork with 30 x 5.0 mm galvanised metal straps 1200 long at max 2m c/c plugged & screwed.
  - Rafters/joists parallel to walls to be strapped to inner leaf with 30 x 5.0 mm galvanised metal straps (1200 long x 150 bent end) No.12 woodscrews into first 3No. rafters/joists & noggins installed between them.

- TIMBER
- Multiple timber beams to be bolted together M12 4.6 bolts 400 horz c/c, staggered vert c/c to avoid splitting timber along the grain.
  - Timber to be strength graded C16 unless noted otherwise.
  - Floor joists should be strutted by one or more rows of strutting solid or herringbone strutting as follows:
 

Joist span <2.5m	No strutting required
Joist span 2.5 to 4.5m	One row at midspan
Joist span >4.5m	Two rows at 1/3rd points



**ROOF STRUCTURE  
(OVER GROUND FLOOR LAYOUT)**  
Scale 1:50

BEAM SCHEDULE - ROOF (over Ground)			
Ref.	Section Size	Plate / Angles (RSA)	Notes
H1-1	100w x 200d C24		
H1-2	100w x 200d C24		
B1-1	203 x 133 x 25 UB		
B1-2	203 x 133 x 25 UB		
B1-3	178 x 102 x 19 UB		
B1-4	178 x 102 x 19 UB		
B1-5	178 x 102 x 19 UB		
B1-6	2 No. 152 x 89 x 16 UB		
B1-7	2 No. 152 x 89 x 16 UB		
B1-8	152 x 89 x 16 UB		
B1-9 to B1-15	100w x 200d C24		
B1-16	150 x 90 x 24 PFC		
B1-17	152 x 89 x 16 UB		

KEY - BEAMS & LINTELS	
B1-2 : Size	New beam, size as shown
L2-1: Size (I) / (O)	New lintel - concrete / steel (I) Denotes inner leaf / (O) Denotes outer leaf
MJ	Masonry movement joints - refer to details
KEY - PADSTONES	
PD1	1No. Class B Engineering Brick
PD2	140d x 100w x 330 long mass concrete padstone (by Naylor Lintels or other)
PD3	215d x 215w x 215 long mass concrete padstone (by Naylor Lintels or other)

LINTEL SCHEDULE - FIRST FLOOR (over Ground)		
Ref.	Specification	Location/Notes
L1-1	IG Box 200	
L1-2	IG Box 200	
L1-3	IG Box 200	
L1-4	IG Box 200	
L1-5	IG Box 200	
L1-6 to L1-17	100w x 65d PCC lintel	

B	10.10.22	BUILDING REGULATIONS	PMC	MM
A	15.09.22	PRELIMINARY ISSUE	PMC	MM
Rev	Date	Description	Drawn	CHK'd
Client name				

Project file  
SONNING CRICKET CLUB PAVILION

Drawing file  
ROOF STRUCTURE AND STRUCTURAL BEAMS/LINTELS

File issued	Drawn	Checked	Sheet size	Scale
SEP 22	PMC	MM	A1	As shown
Drawing number	Revision			
<b>22-079/101</b>	<b>B</b>			

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