

[REDACTED]

From: Sarah Burrow <Sarah.Burrow@arun.gov.uk>
Sent: 11 May 2021 10:40
To: Planning.Responses <Planning.Responses@arun.gov.uk>
Cc: Kathryn Welch <Kathryn.Welch@arun.gov.uk>; Stephen Aldridge [REDACTED]
Subject: WA/33/21/DOC

Engineers Comments Regarding Surface Water Drainage

The applicant has supplied me with a revised Drainage Layout which addresses the minor inconsistency picked up on in my previous consultation. He has advised that this has been submitted to planning to be uploaded to the application however I have attached it here for reference.

It is recommended that condition 3 imposed under to WA/103/20/HH is discharged.

Please construct all surface water drainage in accordance with the following drawings:

- C1650_100_P1_SW_Drainage Layout
- Drainage Details Dwg No 300 Rev P-

Many thanks and kind regards

Sarah Burrow
Engineering Assistant, Engineering Services



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Current working pattern: Monday 8am-2:30pm, Tuesday 8am-5:30pm, Wednesday 8am-5pm, Thursday 8am-5:30pm, Friday 8am-11:30am.

Arun District Council, Civic Centre, Maltravers Rd, Littlehampton, West Sussex, BN17 5LF
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= 33mm Glazed Unikron Panels - Weight: 210kg / Per Panel
= New trimmers.

General Notes

See drawing 19286/001.

For steel connection scheme see calculation.

All beams supported by posts to have 6mm thick full depth stiffeners.

140mm thick concrete block (min. 7.2N/m²) wall onto 450mm wide mass concrete (G60/2) foundations onto firm virgin soil - depth to be by BCO. Provide movement joint into outer leaf of main building. Adjacent balcony joist to be resin bolted to blockwork, and full depth neoprene to be provided between adjacent 4no. joists, and 30x5.0 ms straps @ 450mm centres to be notched into timbers and fixed in place. Provide special Catnic arch lintel over archway - specification and installation guidelines to be provided by Catnic.

Infill to match existing. New masonry to be tooth bonded into existing. Provide well rammed dry packing between top of infill and existing structure. Width of inner leaf to be confirmed prior to order of infill.

Assumed non-load-bearing masonry wall. To be confirmed prior to undertaking works.

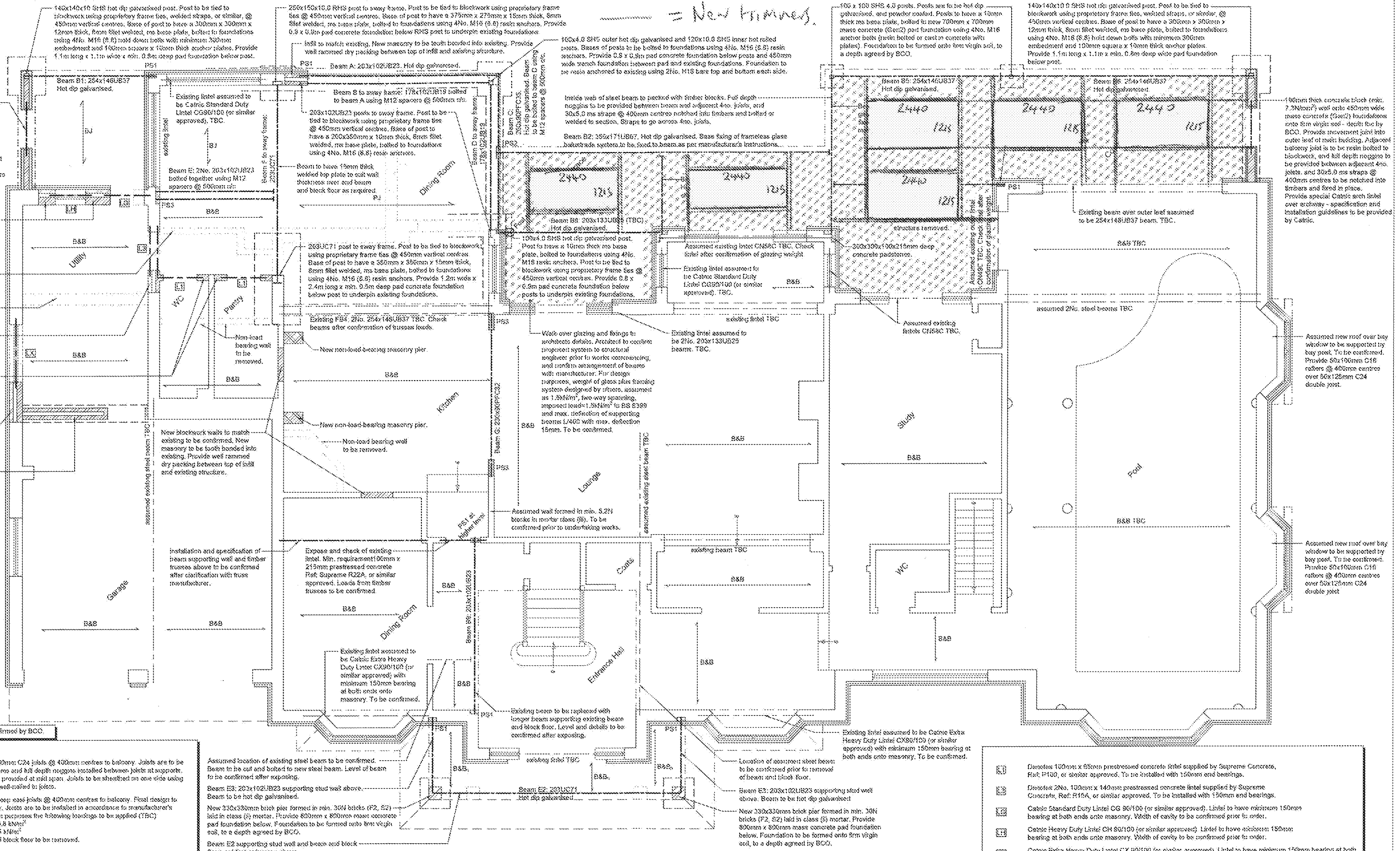
Assumed non-load-bearing wall to be removed.

Infill to match existing. New masonry to be tooth bonded into existing. Provide well rammed dry packing between top of infill and existing structure.

New blockwork walls to match existing to be confirmed. New masonry to be tooth bonded into existing. Leave gap between top of wall and ceiling to ensure no load transfer.

Infill to match existing. New masonry to be tooth bonded into existing. Provide well rammed dry packing between top of infill and existing structure.

300mm thick cavity wall onto 450mm wide mass concrete (G60/2) foundations onto firm virgin soil - depth to be by BCO. Wall to be toothed into inner leaf of main building. Foundation to be resin anchored to existing using 2No. M16 bars top and bottom each side. Leave gap between top of wall and ceiling to ensure no load transfer.



Proposed Ground Floor Plan
(Showing structure over)
(1:50)

Allowable GBP = 100 kN/m² to be confirmed by BCO.

- BJ** Denotes span of 50 x 200mm C24 joists @ 400mm centres to balcony. Joists are to be installed into web of beams and full depth neoprene installed between joists at supports. Full depth neoprene to be provided at mid span. Joists to be sheathed on one side using 18mm thick ply or OSB well-nailed to joists.
- PJ** Denotes span 210mm deep joist joists @ 400mm centres to balcony. Final design to be confirmed by supplier. Joists are to be installed in accordance to manufacturer's specification. For design purposes the following loadings to be applied (TBC)
 - Floor dead load = 0.8 kN/m²
 - Floor live load = 1.5 kN/m²Note: Existing beam and block floor to be removed.
- B&B** Denotes assumed span of beam and block floor over. To be confirmed prior to undertaking works.
- B&B** Denotes span of new 150mm beam and block system. For design purposes the following loadings from Milbank span tables was applied (TBC)
 - Floor dead load = 1.78 kN/m²
 - 75mm screed = 1.9 kN/m²
 - Floor live load = 1.5 kN/m²Final design & specification to be confirmed by supplier.

Assumed location of existing steel beam to be confirmed. Beam to be cut and bolted to new steel beam. Level of beam to be confirmed after exposing.

Beam E3: 203x102x102 supporting stud wall above. Beam to be hot dip galvanised.

New 330x330mm brick pier formed in min. 304 bricks (F2, S2) laid in class (ii) mortar. Provide 800mm x 800mm mass concrete pad foundation below. Foundation to be formed onto firm virgin soil, to a depth agreed by BCO.

Beam E2 supporting stud wall and beam and block floor, not timber trusses above.

Expose and check of existing lintel. Min. requirement 100mm x 215mm prestressed concrete lintel. Supreme R22A, or similar approved. Loads from timber trusses to be confirmed.

Existing lintel assumed to be Catnic Extra Heavy Duty Lintel CH90/100 (or similar approved) with minimum 150mm bearing at both ends onto masonry. To be confirmed.

Existing beam to be replaced with longer beam supporting existing beam and block floor. Level and details to be confirmed after exposing.

Beam E2: 203x102x102 supporting stud wall above. Beam to be hot dip galvanised.

Beam E3: 203x102x102 supporting stud wall above. Beam to be hot dip galvanised.

New 330x330mm brick pier formed in min. 304 bricks (F2, S2) laid in class (ii) mortar. Provide 800mm x 800mm mass concrete pad foundation below. Foundation to be formed onto firm virgin soil, to a depth agreed by BCO.

Location of assumed steel beam to be confirmed prior to removal of beam and block floor.

Beam E3: 203x102x102 supporting stud wall above. Beam to be hot dip galvanised.

New 330x330mm brick pier formed in min. 304 bricks (F2, S2) laid in class (ii) mortar. Provide 800mm x 800mm mass concrete pad foundation below. Foundation to be formed onto firm virgin soil, to a depth agreed by BCO.

Existing lintel assumed to be Catnic Extra Heavy Duty Lintel CH90/100 (or similar approved) with minimum 150mm bearing at both ends onto masonry. To be confirmed.

Location of assumed steel beam to be confirmed prior to removal of beam and block floor.

Beam E3: 203x102x102 supporting stud wall above. Beam to be hot dip galvanised.

New 330x330mm brick pier formed in min. 304 bricks (F2, S2) laid in class (ii) mortar. Provide 800mm x 800mm mass concrete pad foundation below. Foundation to be formed onto firm virgin soil, to a depth agreed by BCO.

- R1** Denotes 100mm x 100mm prestressed concrete lintel supplied by Supreme Concrete, Ref: P100, or similar approved. To be installed with 150mm end bearings.
- R2** Denotes 2No. 100mm x 140mm prestressed concrete lintel supplied by Supreme Concrete, Ref: P15A, or similar approved. To be installed with 150mm end bearings.
- R3** Catnic Standard Duty Lintel CG 90/100 (or similar approved). Lintel to have minimum 150mm bearing at both ends onto masonry. Width of cavity to be confirmed prior to order.
- R4** Catnic Heavy Duty Lintel CH 80/100 (or similar approved). Lintel to have minimum 150mm bearing at both ends onto masonry. Width of cavity to be confirmed prior to order.
- R5** Catnic Extra Heavy Duty Lintel CH 90/100 (or similar approved). Lintel to have minimum 150mm bearing at both ends onto masonry. Width of cavity to be confirmed prior to order. Loads from timber trusses to be confirmed.
- P21** Denotes 215 x 102 Engineering brick class B padstone.
- P22** Denotes 330 x 102 x 215mm deep mass concrete padstone.
- P23** Denotes 440 x 102 x 215mm deep mass concrete padstone.

TENDER ISSUE

NOT FOR CONSTRUCTION PURPOSES

Revision	Date	Description
A	23.10.2019	Tender Issue.
B	25.10.2019	Size of balcony joists, incl. lintel.
C	30.10.2019	Notes to posts, beam B9.
D	01.11.2019	Beams A, B1, B6, B5, B6 & C, post foundation, existing walkway to bedroom 3 balcony, outer lintel.
E	04.11.2019	

PHILIP GOACHER ASSOCIATES
Consulting Civil and Structural Engineers
First Floor - 122A Newland Road - Worthing - West Sussex - BN11 1LB

Scale: 1:50 @ A1
Date: Nov/19
Engineer: Checked: SG
OR

Mr R Chapman
Luna View, Gorse Av., E. Pr.
PROPOSED GROUND FLOOR

Project No: 19286
Drawing No: 002
Revision: E