

- | | |
|--|-----------------------------|
| | Flat Roof |
| | Roof Area |
| | Metal Flashing |
| | Parapet |
| | Rain Water Pipe |
| | (690x970) Skylight w/ Frame |
| | Vent Pipe |

17.9 SQ M
22.3 SQ M
15.3 M
21.0 M
3.0
2.0
1.0

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Building type factor K_b (Table 1) 1 Height (m) 8.5 m
 Dynamic Augmentation, C_r (Figure 3) ok Therefore method applies

Site Wind Speed

Basic wind speed, V_b (m/s) 21

Altitude (m) 20

Altitude factor, S_a 1.0 + 0.02

Direction factor, S_d 1.0

Seasonal factor, S_s 1.0

Probability factor, S_p 1.0

Site wind speed, $V_s = V_b \times S_a \times S_d \times S_s \times S_p = 21.42$

Terrain and building factor, S_b

Terrain (Sea) (Country) (Town)

Effective height:

$$H_r = 8.5 \quad H_o = 8.5 \quad X =$$

If $X \leq 2 H_o$, $H_e = H_r - .8 H_o$ or $H_e = .4 H_r$

If $X \geq 6 H_o$, $H_e = H_r$

If $2 H_o < X < 6 H_o$, $H_e = H_r - 1.2 H_o + .2X$ or $H_e = .4 H_r$

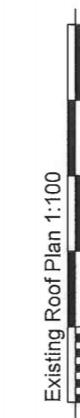
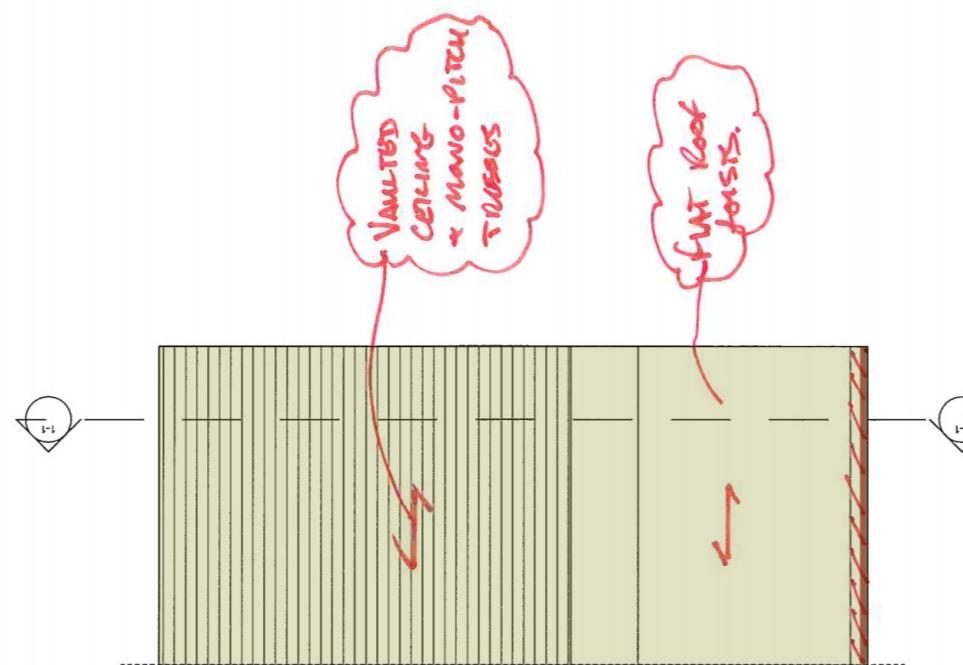
Closest distance to the sea (km) = 10

S_b from Table 4 1.62

Effective wind speed, $V_e = V_s \times S_b = 34.70$

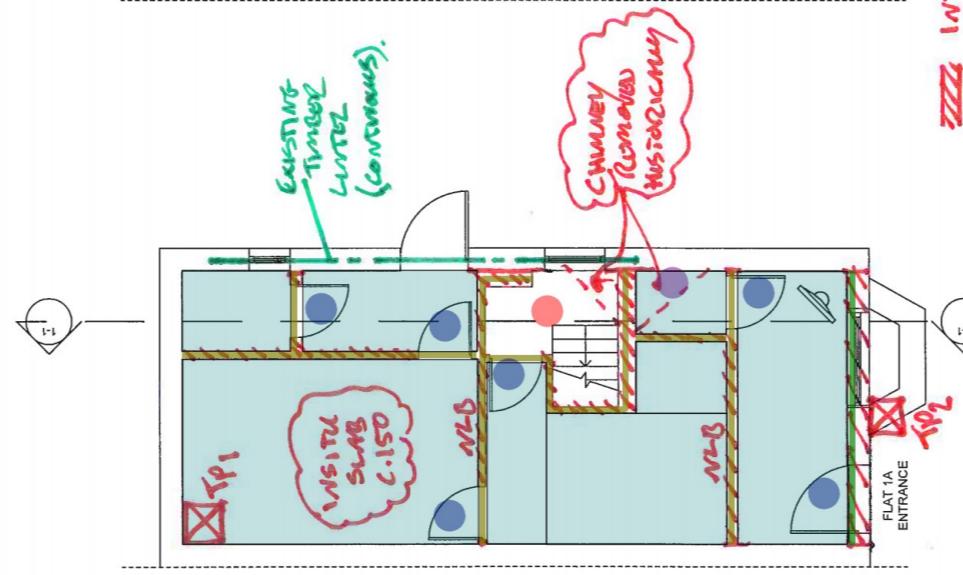
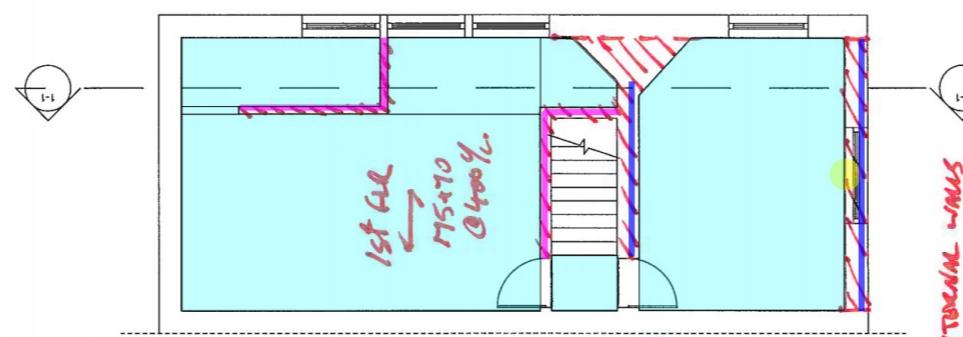
Dynamic Pressure $q_s = \frac{34.70^2}{1000} \times 0.613 = 0.74 \text{ kN/m}^2$

6945/05



CUST 08.06.20

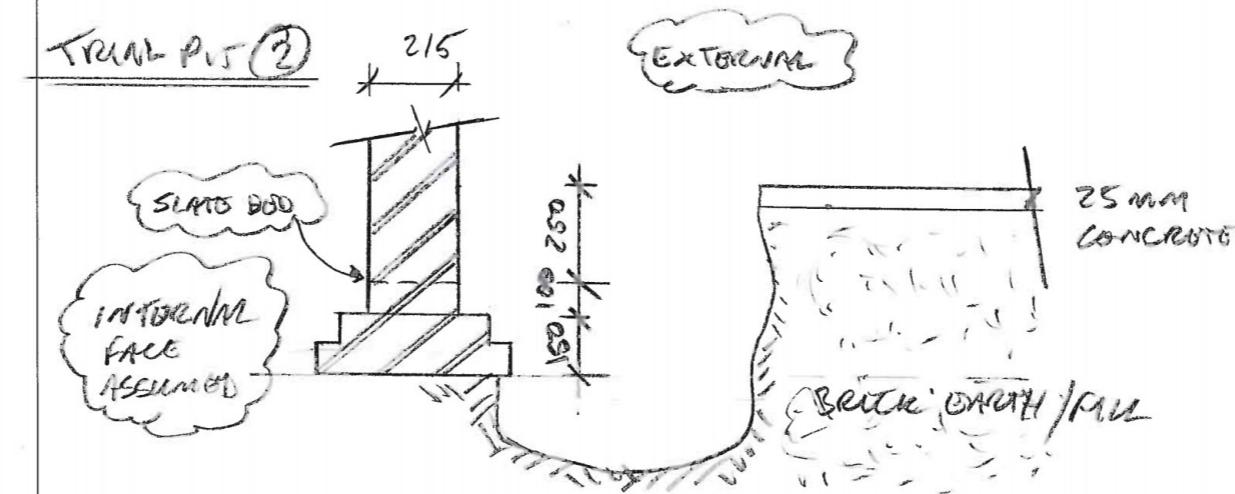
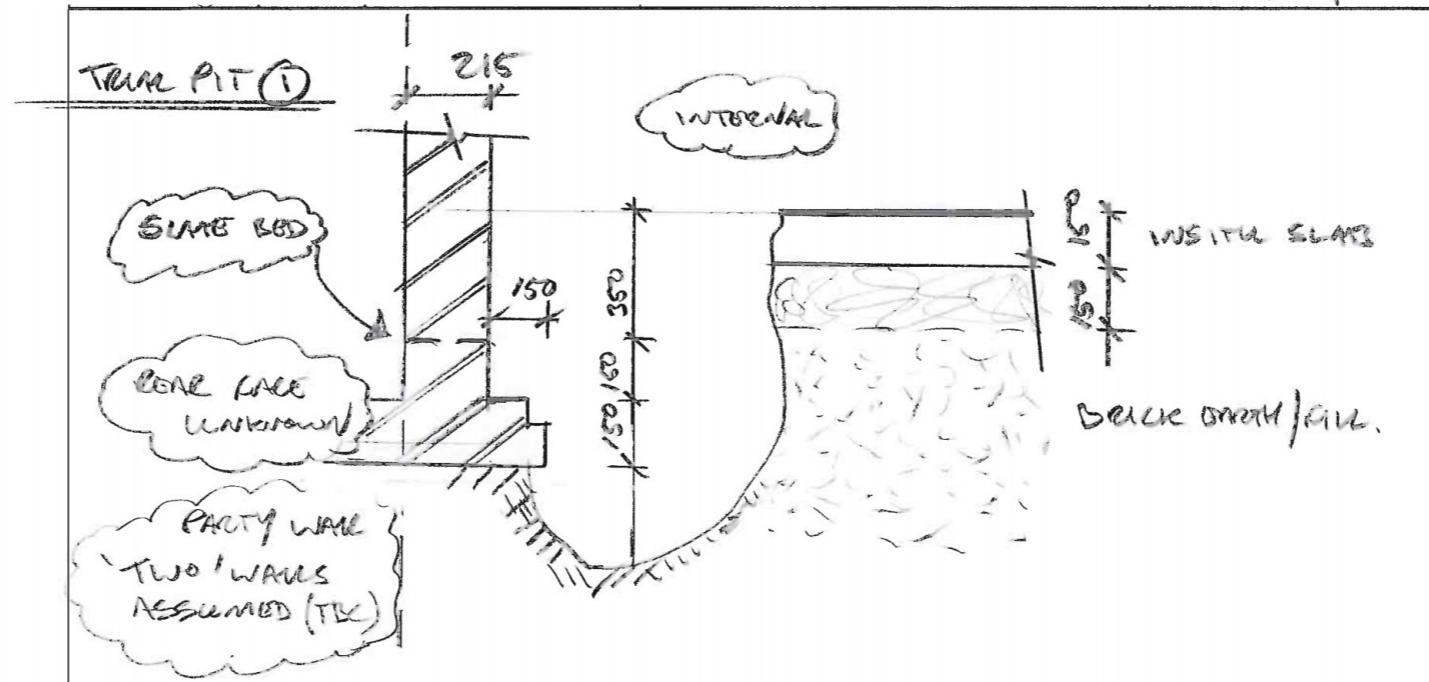
SITE VISIT RECORDED 05.06.20.



6945 - 1a Mancet Rds
SET 1EU

Remove Block Wall	3.6 M
Remove Stud Wall	18.4 M
Remove Door	6.0
Remove Chimney	1.0
Remove Flooring & Ceiling	26.9 SQ M
Remove Stair Entry	1.0
Remove Window	1.0
Remove Block Wall	5.9 M
Remove Stud Wall	5.8 M
Remove Flooring & Ceiling	27.7 SQ M
Remove Parapet Wall	4.2 M
Remove Roof Entry & Roof Framing (As Req'd)	39.5 SQ M

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TRUNK PITS Records 05.06.20.

Contract:

La Marwick Rutt

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6945

Sheet No

By: Checked

201

Date: Jan 20.

Architectural Floor Plan Notes:

- MOVE SUP** (Handwritten note)
- 1 Timber Roof Joists + PARTITIONS** (Handwritten note)
- (X) = 1000 roof l** (Handwritten note)
- TIMBER FRAME WALLS + ROOF ABS15 2ND FLOOR BY SPONMIST TBC** (Handwritten note)

Dimensions and Labels:

- Overall width: 3614 mm
- Overall height: 888 mm
- Rooms: R2.1, R2.2, R2.3, R2.4, Boiler, Store, Bathroom, Landing, Kitchen, Dining, Living, Conservatory, W15, W16.
- Doors: FD30 762 door [D2.3], FD30 838 door [D2.2], FD30 838 door [D2.1].
- Windows: 900 x 115, 900 x 115, 900 x 115.
- Structural Components: C60, DV70, RWP1, RWP2, RWP3.
- Handwritten dimensions: 939, 2452, 88, 1913, 135, 3727, 88, 3527, 88, 903, 1656, 4214, 300, 244.9 SQ FT, 161.5 SQ FT, 2.4 M, 6.4 M, 13.1 M, 84.0 M, 38.0 M.

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DAB	
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Roof

PITCHED RAFTERS = 50x175 C24 @ 450%.

FLAT ROOF JOISTS = 50x200 C24 @ 600% (max).

B7 = 3/50x200 C24 JOISTS BOLTED TOGETHER.

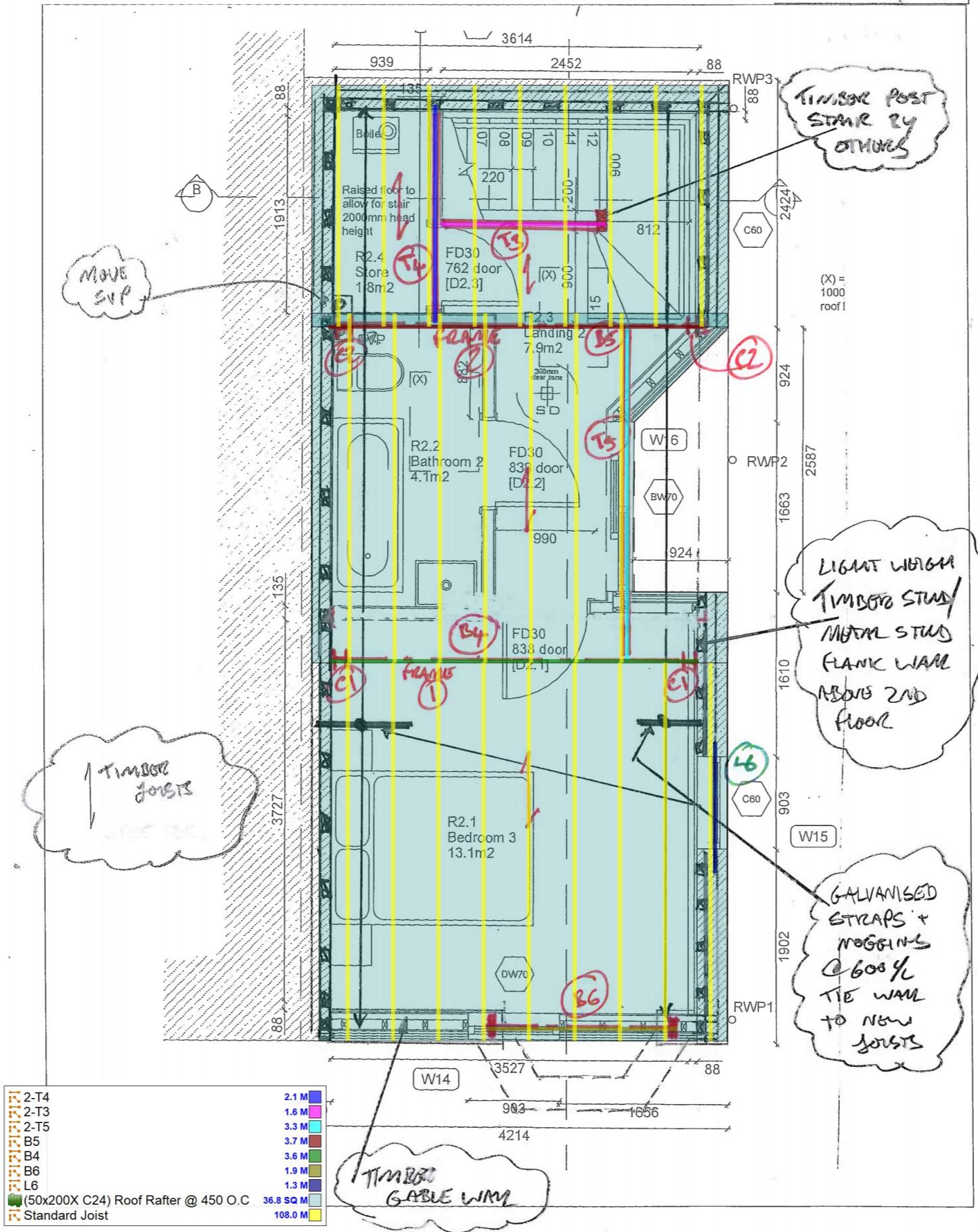
B9 = FLITCH BEAM

2/50x200 C24 JOISTS
WITH 8mm x 195mm PLATE
M12@ BOLTS @ 450%.

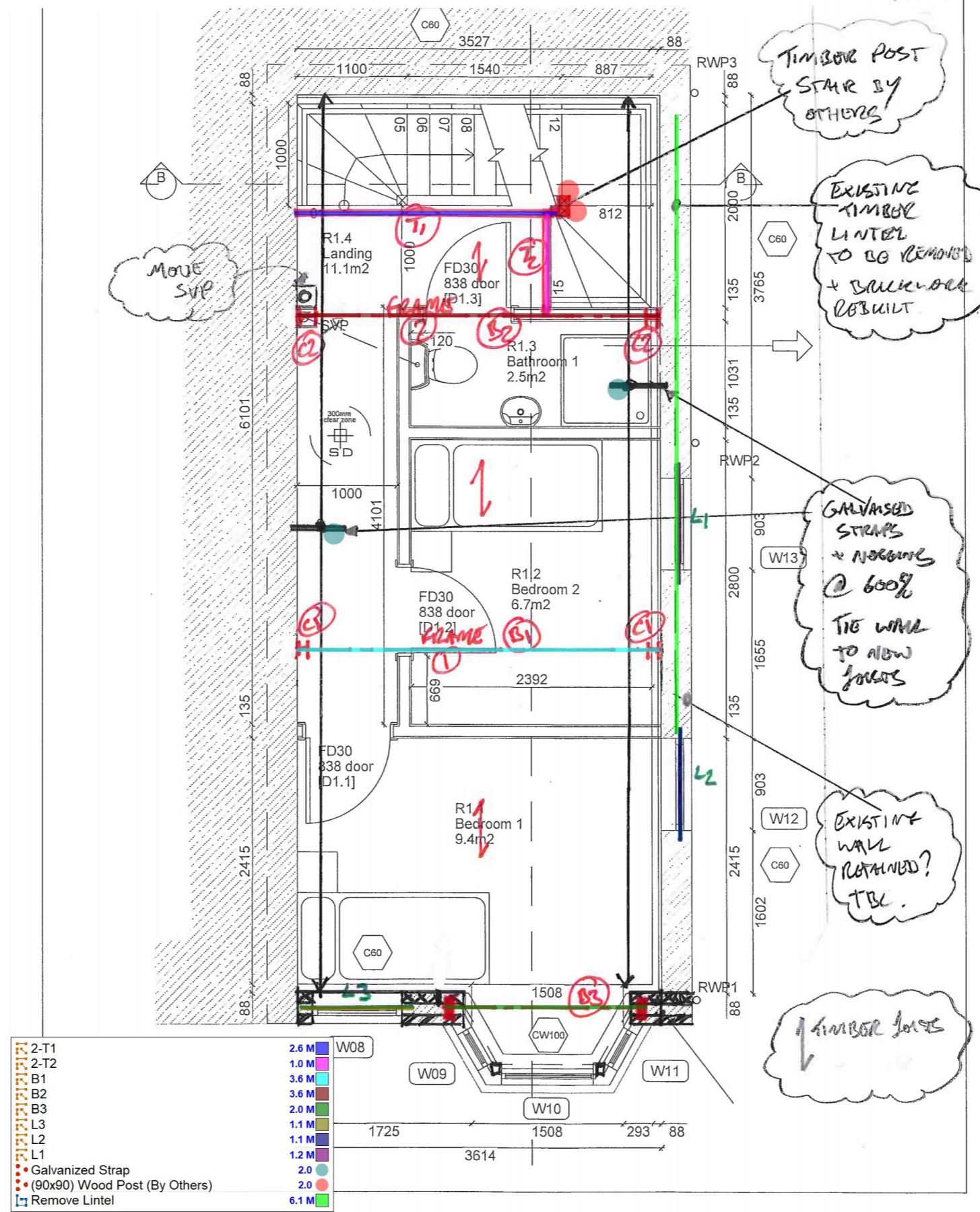
B9/B10/B11 = ----- " -----.

OR BY TIMBER FRAME SPECIALIST.

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1st Floor

Floor joists = 50x200 C24 @ 450 %

T₁ = 2/ 50x200 C24 BOLTED TOGETHER

T₂ = ———

B₁ = 203 x 203 UC 46 (FRAME BEAM) ①

B₂ = 203 x 203 UC 46 (FRAME BEAM) ②

B₃ = 2/ CANTILEVER LINTER SSD100 (OR SIMILAR).

L₁ = CANTILEVER EXTERNAL SOLID WALL LINTER CN50C
(OR SIMILAR)

L_{2+L₃} = ——— (OR SIMILAR)

C₁ = 203 x 203 UC 46 (FRAME COL) ①

C₂ = 203 x 203 UC 46 (FRAME COL) ②.

2nd Floor

T₃ = 2/ 50x200 C24 BOLTED TOGETHER

T₄ = ———

T₅ = 3/ 50 x 200 C24 BOLTED TOGETHER

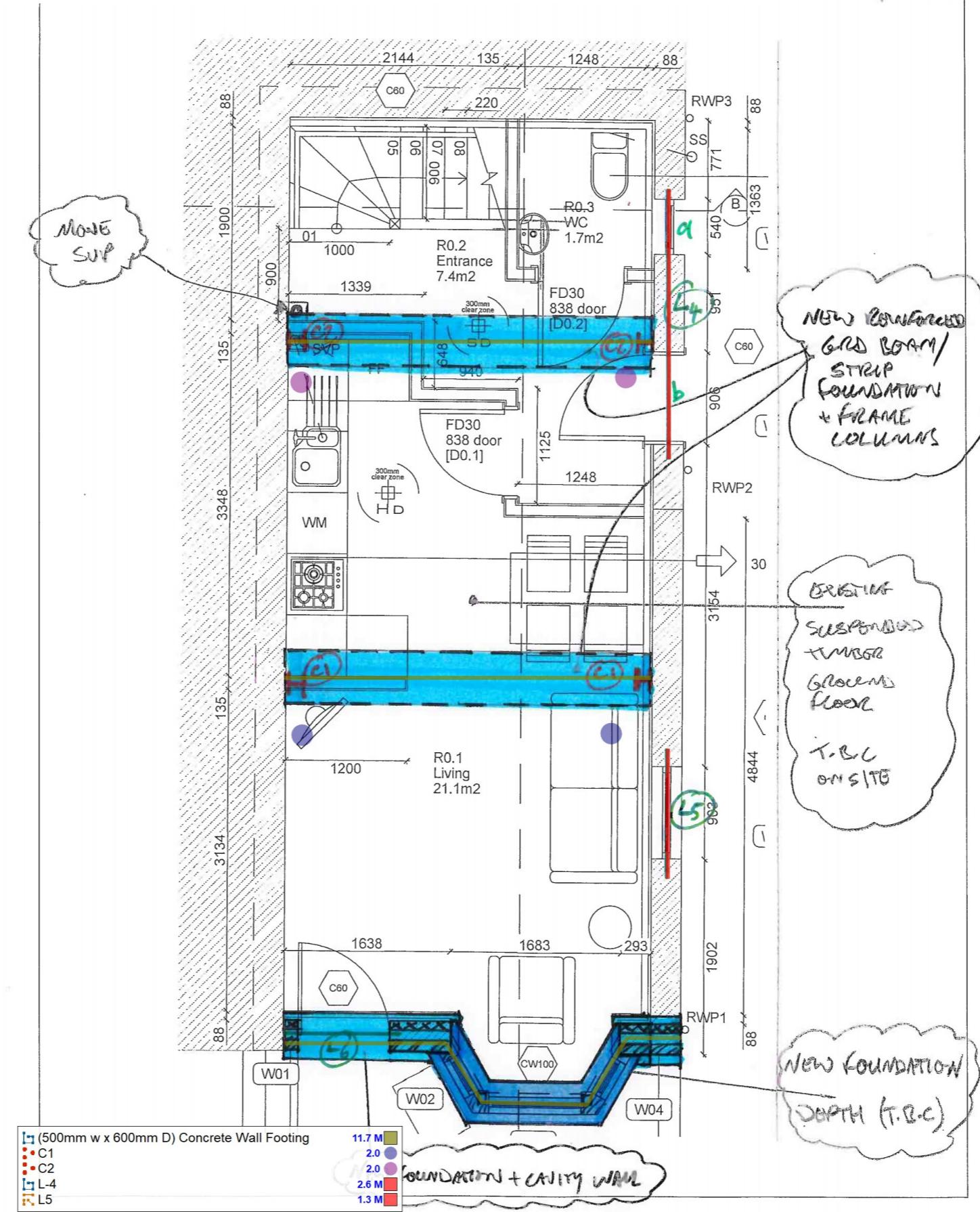
B₄ = 203 x 203 UC 46 (FRAME BEAM) ①

B₅ = 203 x 203 UC 46 (FRAME BEAM) ②

B₆ = 2/ CANTILEVER BAR LINTER SSD100 (OR SIMILAR).

L₆ = CANTILEVER EXTERNAL SOLID WALL LINTER CN50C,
(OR SIMILAR)

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Grid Clear

$$C_1 = 203 \times 203 \text{ u.e. 46} \quad (\text{frame cor}) \quad ①$$

$$C_2 = 203 \times 203 \text{ u.e. 46} \quad (\text{frame cor}) \quad ②$$

L_{4a} = CANTILE EXTERNAL - SOURCE WALL UNTIL CN 50 C (OR SIMILAR)

L_{4b} = —— + ——

L_5 = —— + ——

L_6 = —— + ——

Ground Beam to Frame ① + Frame ②

$$2x \quad 3600 \text{ lg } \approx 500 \text{ wd } \approx 400 \text{ dp}$$

REINFORCEMENT 4 NO B12's TOP + BTM
B12 Links @ 200 mm^2 THROUH OUT.

(FORMATION LEVEL TO BE
CONFIRMED ON SITE BY
BUILDING CONTRACT).

STRIP FOUNDATION TO NEW FRONT WALL

$$W, \text{ width} = 4.45 \times 6.10 = 27.15 \text{ m}$$

$$1d = 3.15 \times 4.0\% = 6.30$$

$$2nd = —— = 6.30$$

$$\text{Roof} = 2.30 \times 2.6\% = 3.00$$

$$\text{GAP} = 1.0 \times 25\% = \frac{1.25}{44.000 \text{ kN/m}}$$

$$\therefore \frac{44}{100} = 0.440 \Rightarrow 500 \text{ kN MIN} \quad (\text{DEPTH TO BE CONFIRMED
ON SITE BY
BUILDING CONTRACT}).$$

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Date: Jun 20

