

Project 163 Sumatra Road

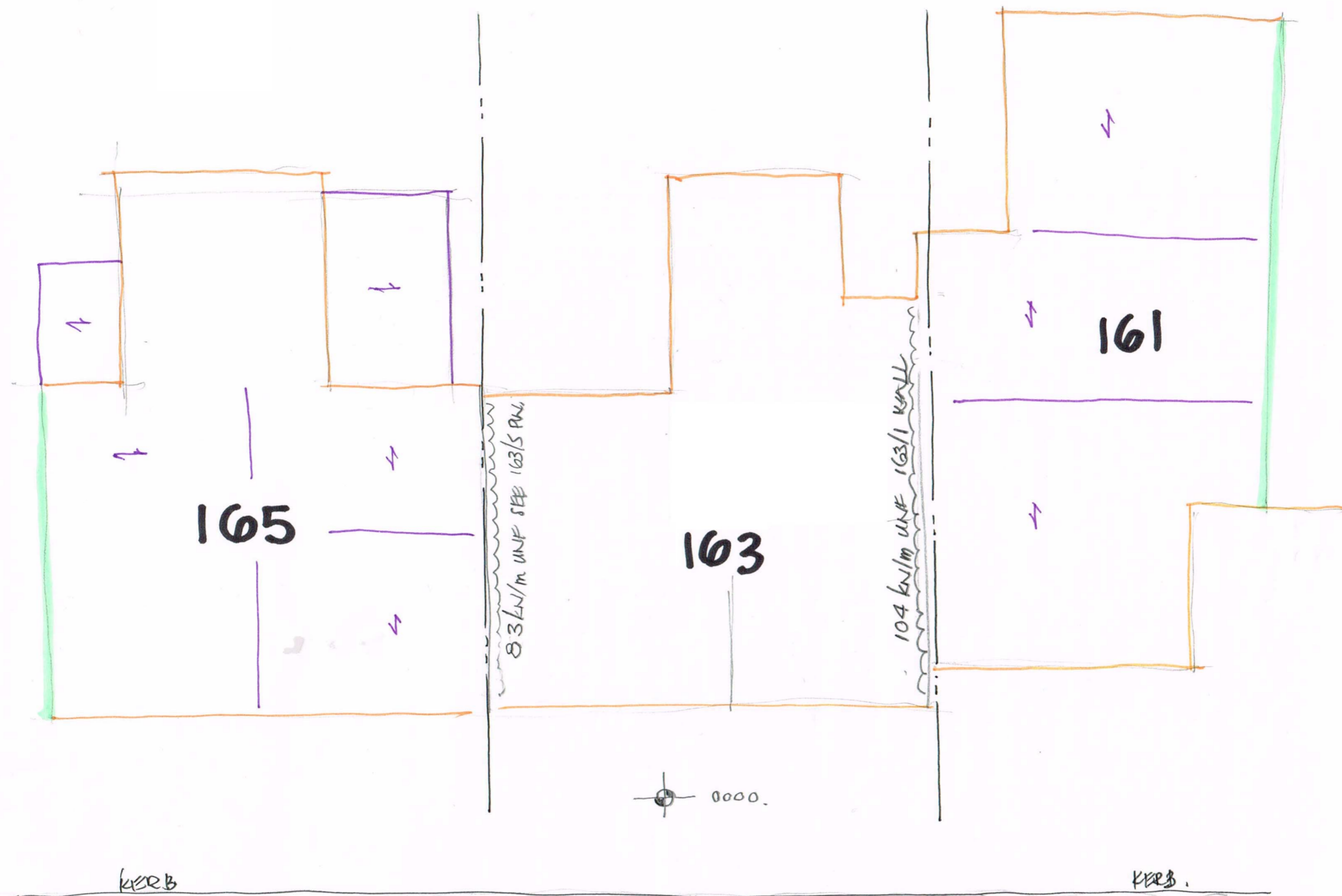
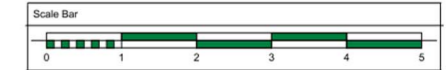
Location Reference Basement

Title Additional Information after
DVT BIA queries 16th
September 2019

Revision	
Date Issued	November 12, 2019
Number of Sheets	
Client	JS
Issued to	JS/DVT
Issued by	GH
Issued for	INFORMATION ONLY (NOT FOR CONSTRUCTION)

Comment

Wall Ty			UDL (u/s founds)	GBP on 600 four	
A			53.88	89.80	2 storey 9" wall no windows, floors
B	Orange		43.39	72.31	two storey 9" wall, windows, floors
C	Green	PW	62.96	104.94	party wall, no basement
D	Purple	PW	56.54	94.24	internal 4" with floors and roof



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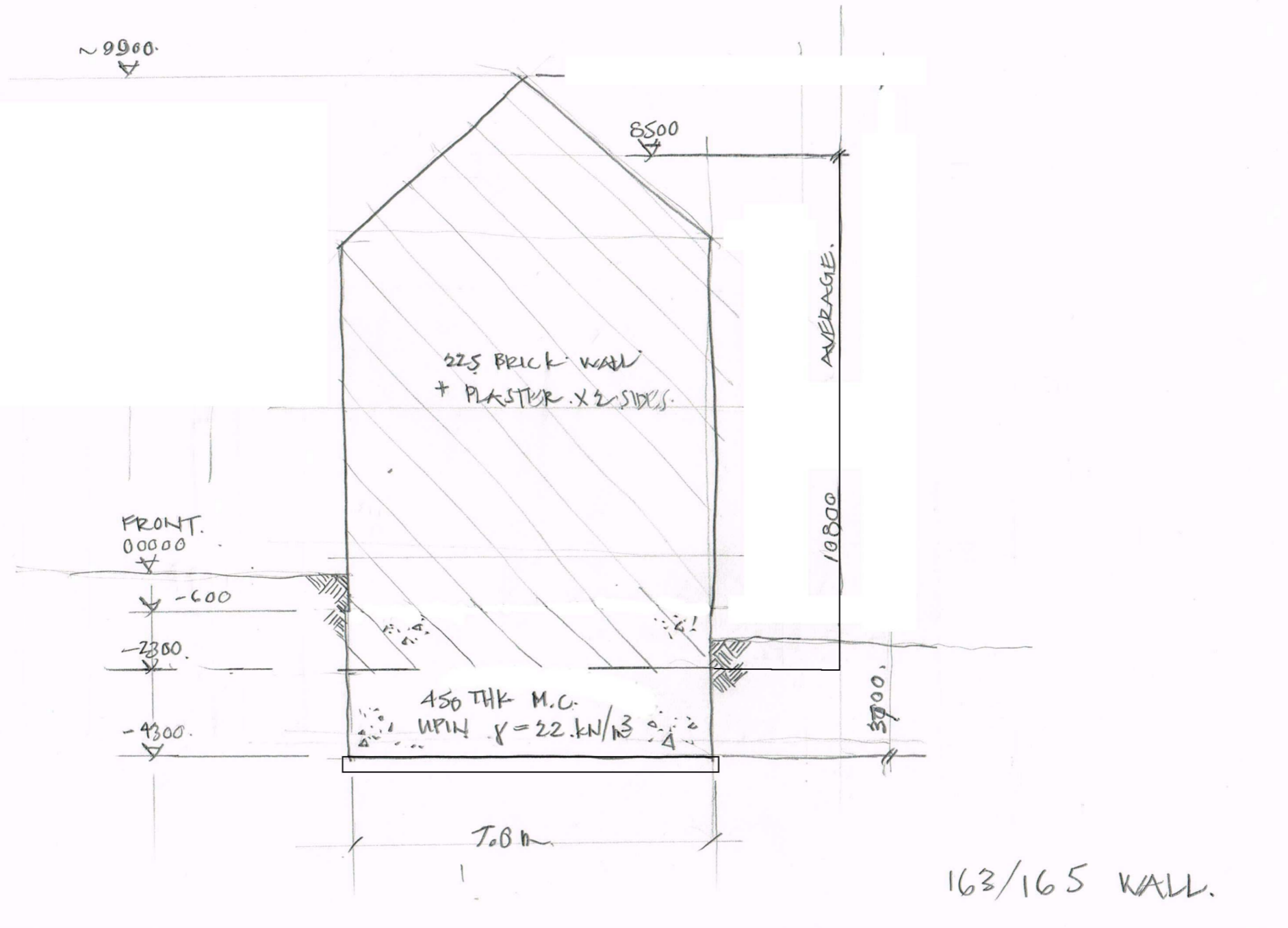
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LOADS AT FOUNDATION LEVEL (EXISTING)

height	thickness	density	UDL
m	m	kN/m ³	kN/m
10.80	0.27	22.00	62.96
2.00	0.45	22.00	19.80
			82.76 kN/m total at base of underpinning



8508
 + 2200
 10708

 4300
 - 2300
 2000

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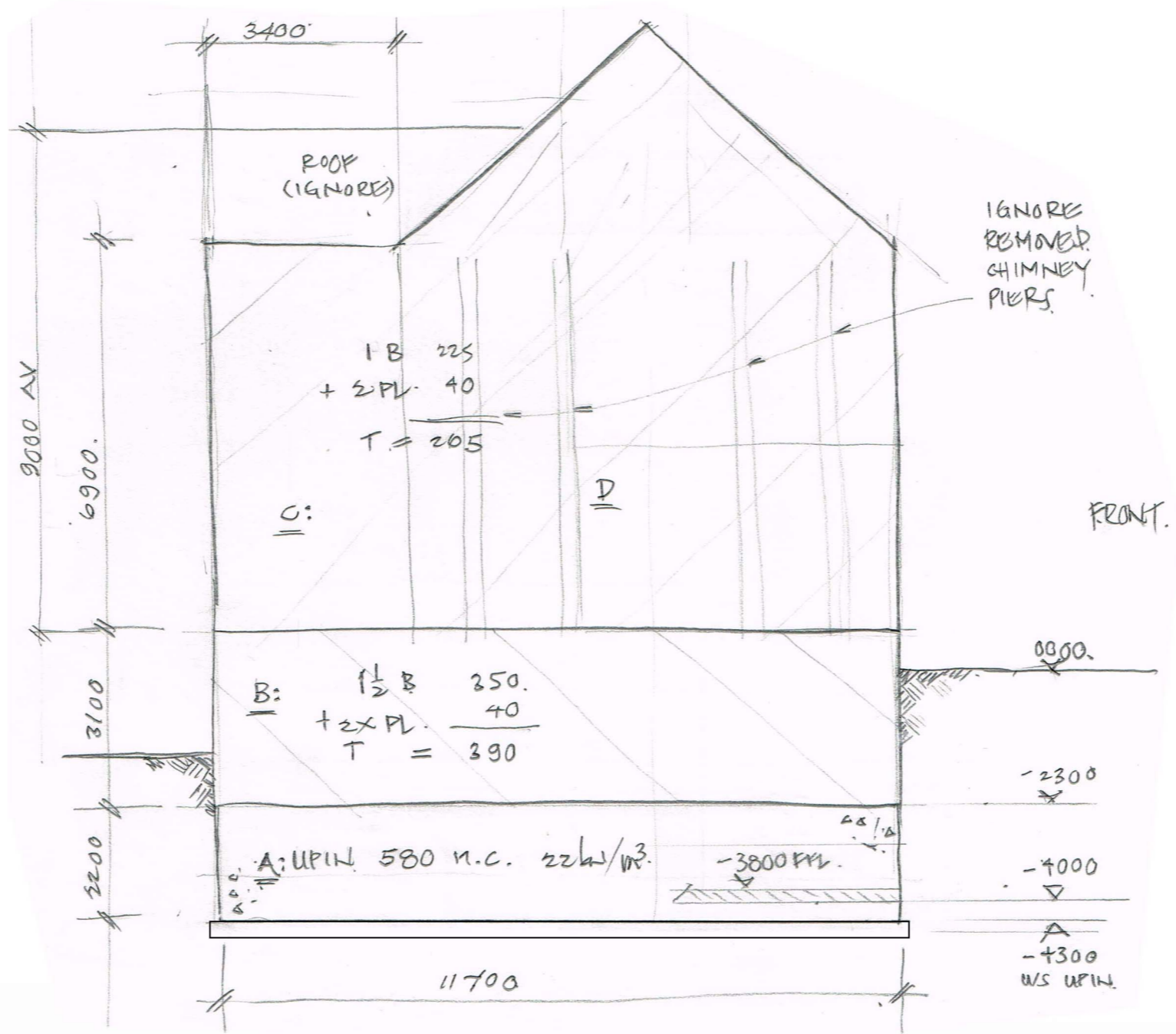
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165/163 Loaded Wall Elevation

163 161 wall udl (base of underpinning)		103.58 kN/m (unf)							
item	item description	thickness mm	height mm	density kN/m ³	kN/m	length mm	weight of item kN (unf)		
A	underpin	580.00	2,200.00	22.00	28.07	11,700.00	328.44		
B	1.5 brick + plaster either side	390.00	3,100.00	22.00	26.60	11,700.00	311.20		
C	1 brick + plaster either side	265.00	6,900.00	22.00	40.23	3,400.00	136.77		
D	1 brick + plaster either side	265.00	9,000.00	22.00	52.47	8,300.00	435.50		
TOTAL FOR WALL						11,700.00	1,211.91	103.58 kN/m (unf)	



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161 to 163 Loaded Wall Elevation

Wall Type													UDL (u/s founds) kN/m		
A		Floors	fl-fl	height	density	thickness	dead	live	d+l	oncoming	Window reduction				
		number	m		kN/m3	mm	unfactored kN/m2	kN/m2		m	%				
		Roof					1.20	0.75	1.95	2.00			3.90		
		Loft					1.00	1.50	2.50	2.00			5.00		
		First Floor					1.00	1.50	2.50	2.00			5.00		
		Ground Floor Walls	2.00	3.00	6.00	22.00	265.00	5.83	0.00	5.83	6.00	0%		34.98	2 storey 9" wall no windows, floors
B	Orange	Floors	fl-fl	height	density	thickness	dead	live	d+l	oncoming	Window reduction				
		number	m		kN/m3	mm	unfactored kN/m2	kN/m2		m	%				
		Roof					1.20	0.75	1.95	2.00			3.90		
		Loft					1.00	1.50	2.50	2.00			5.00		
		First Floor					1.00	1.50	2.50	2.00			5.00		
		Ground Floor Walls	2.00	3.00	6.00	22.00	265.00	70%	4.08	0.00	4.08	6.00	30%	24.49	two storey 9" wall, windows, floors
C	Green	PW	Floors	fl-fl	height	density	thickness	dead	live	d+l	oncoming	Window reduction			
			number	m		kN/m3	mm	unfactored kN/m2	kN/m2		m	%			
			Roof					1.20	0.75	1.95	0.00			0.00	
			Loft					1.00	1.50	2.50	0.00			0.00	
			First Floor					1.00	1.50	2.50	0.00			0.00	
			Ground Floor Walls			10.80	22.00	265.00		5.83	0.00	5.83	10.80	0%	62.96
D	Purple	PW	Floors	fl-fl	height	density	thickness	dead	live	d+l	oncoming	Window reduction			
			number	m		kN/m3	mm	unfactored kN/m2	kN/m2		m	%			
			Roof					1.20	0.75	1.95	4.00			7.80	
			Loft					1.00	1.50	2.50	4.00			10.00	
			First Floor					1.00	1.50	2.50	4.00			10.00	
			Ground Floor Walls	2.00	3.00	6.00	22.00	142.00	100%	18.74	0.00	18.74	1.00	0%	18.74