



20 Oman Road

18 Oman Road

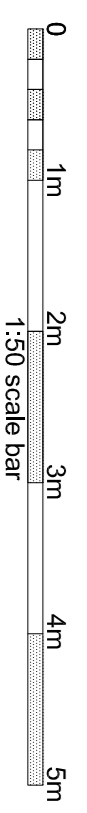
18 Oman Road

20 Oman Road



1 Existing Front Elevation  
SCALE 1:50 @ A1

2 Existing Rear Elevation  
SCALE 1:50 @ A1



Rev	Description	Date	By
A	Preparatory advice incorporated	Apr 13	SS
Rev	Amendments	Date	Chkd

Client  
Southfields Property Company Ltd

**S T S Structural Engineering Ltd**  
 88 Crossway, Welwyn Garden City, Hertfordshire, AL8 7BE  
 Tel: 01707 695466 Fax: 01707 692006  
 Web: www.sts.co.uk Email: sales@sts.co.uk

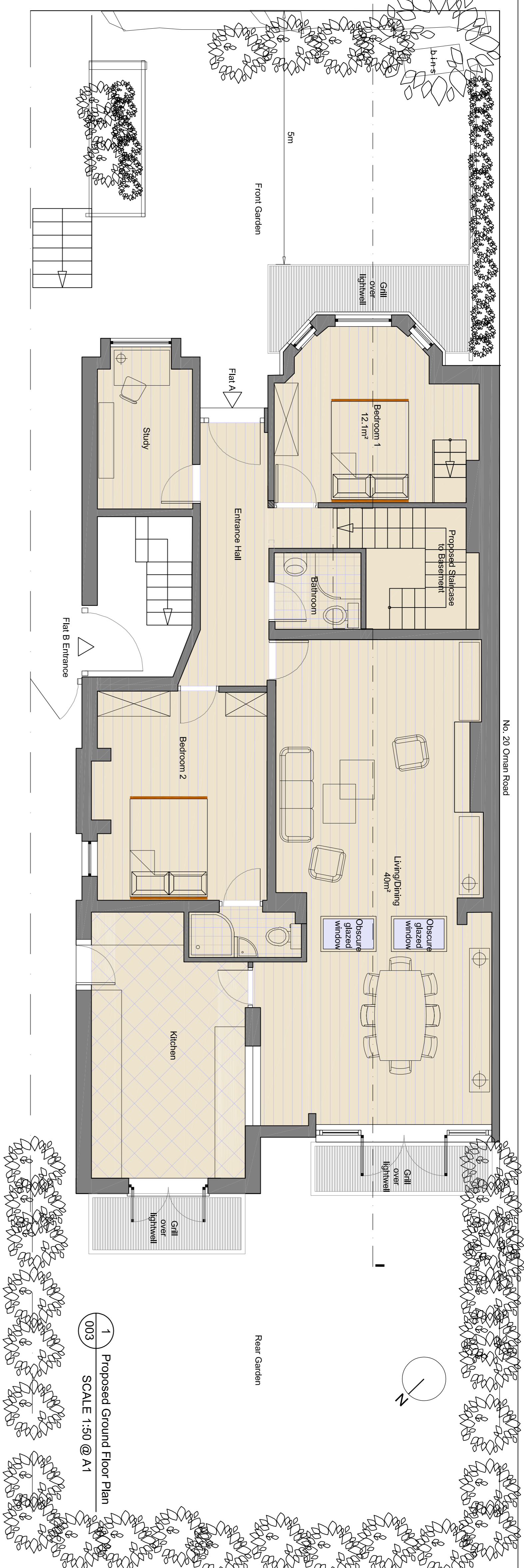
Project  
18 Oman Road  
London NW3 4PX

Title  
Existing Elevations

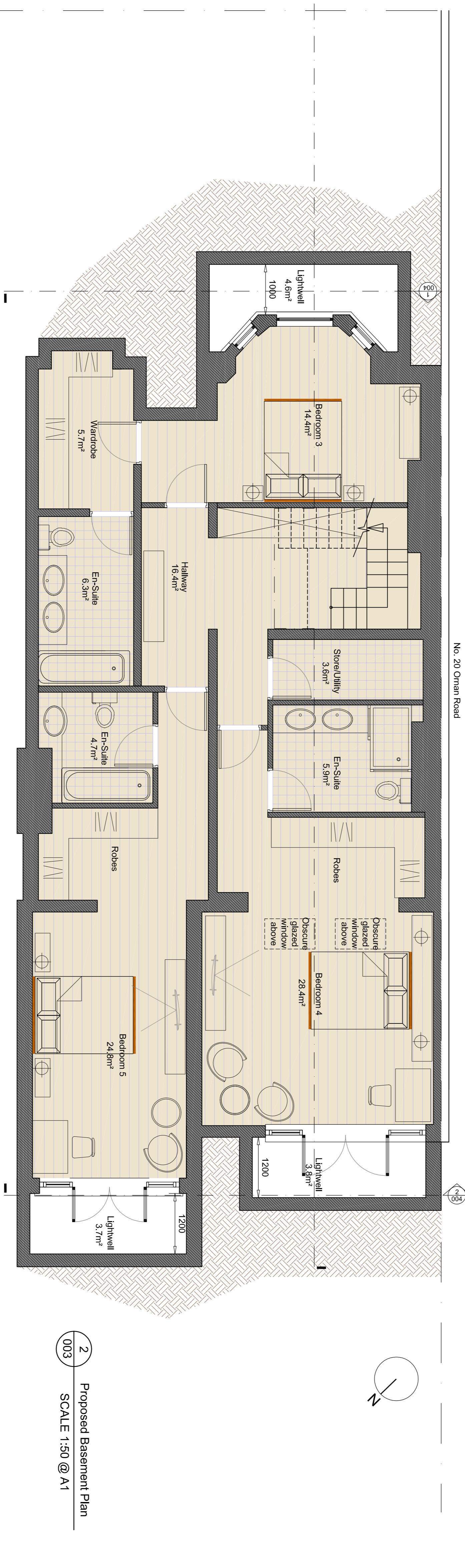
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Checked	MM	Date	Nov/12		
Approved	SS	Date	Nov/12	Size	A1

Drawing No.  
1206-667-002

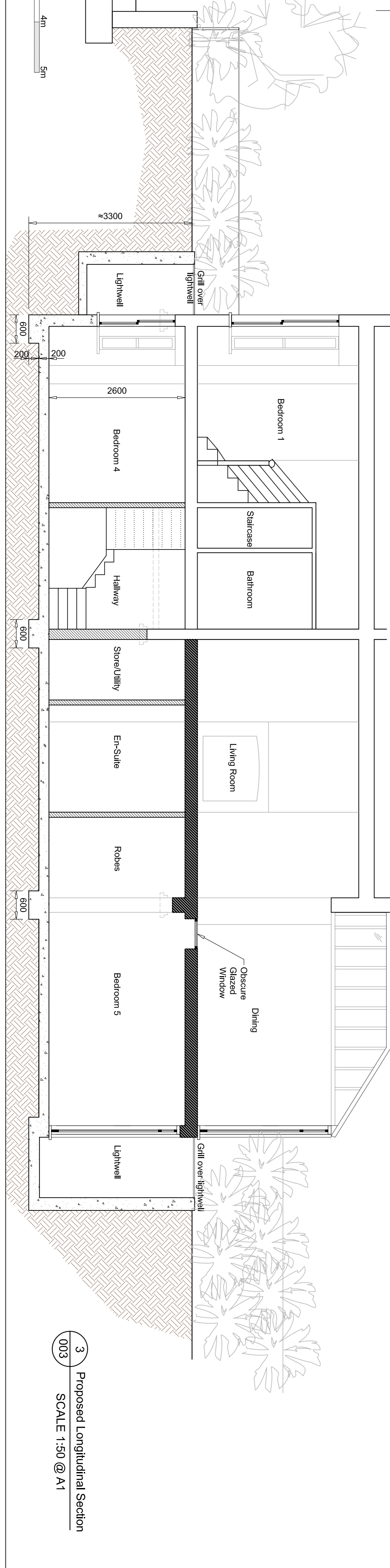
Rev.  
A



1 Proposed Ground Floor Plan  
SCALE 1:50 @ A1



2 Proposed Basement Plan  
SCALE 1:50 @ A1



3 Proposed Longitudinal Section  
SCALE 1:50 @ A1

NOTES

B	Footings details amended	Dec 15	SS
A	Preparatory advice incorporated	Apr 13	SS
Rev.	Amendments	Date	Chkd.

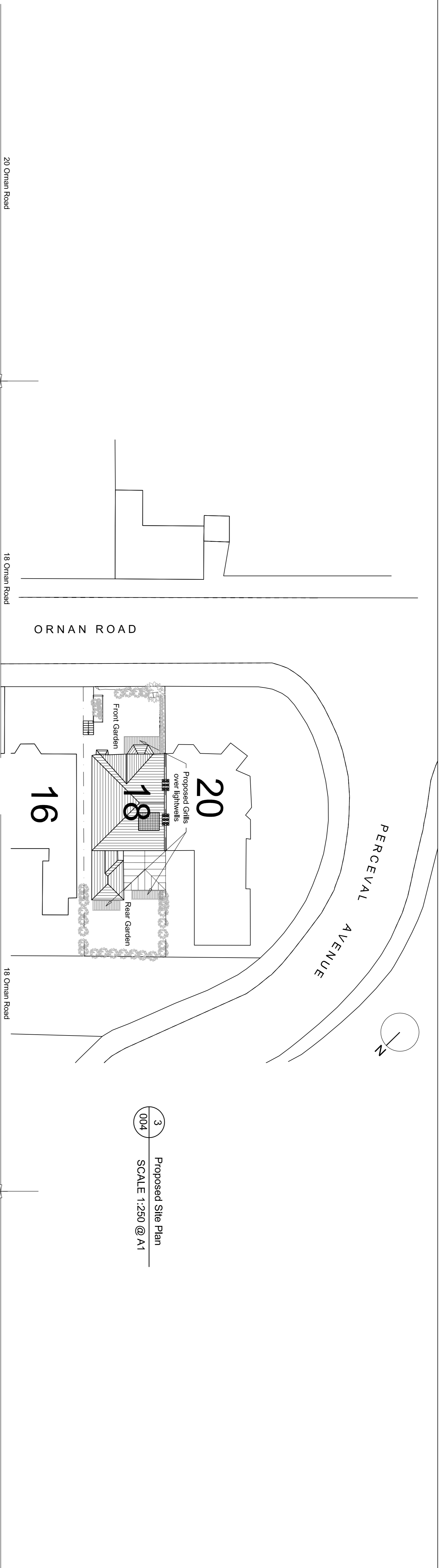
Client  
Southfields Property Company Ltd

**S T S Structural Engineering Ltd**  
 88 Goswamy, Woburn Garden City, Hemel Hempstead, AL8 7TE  
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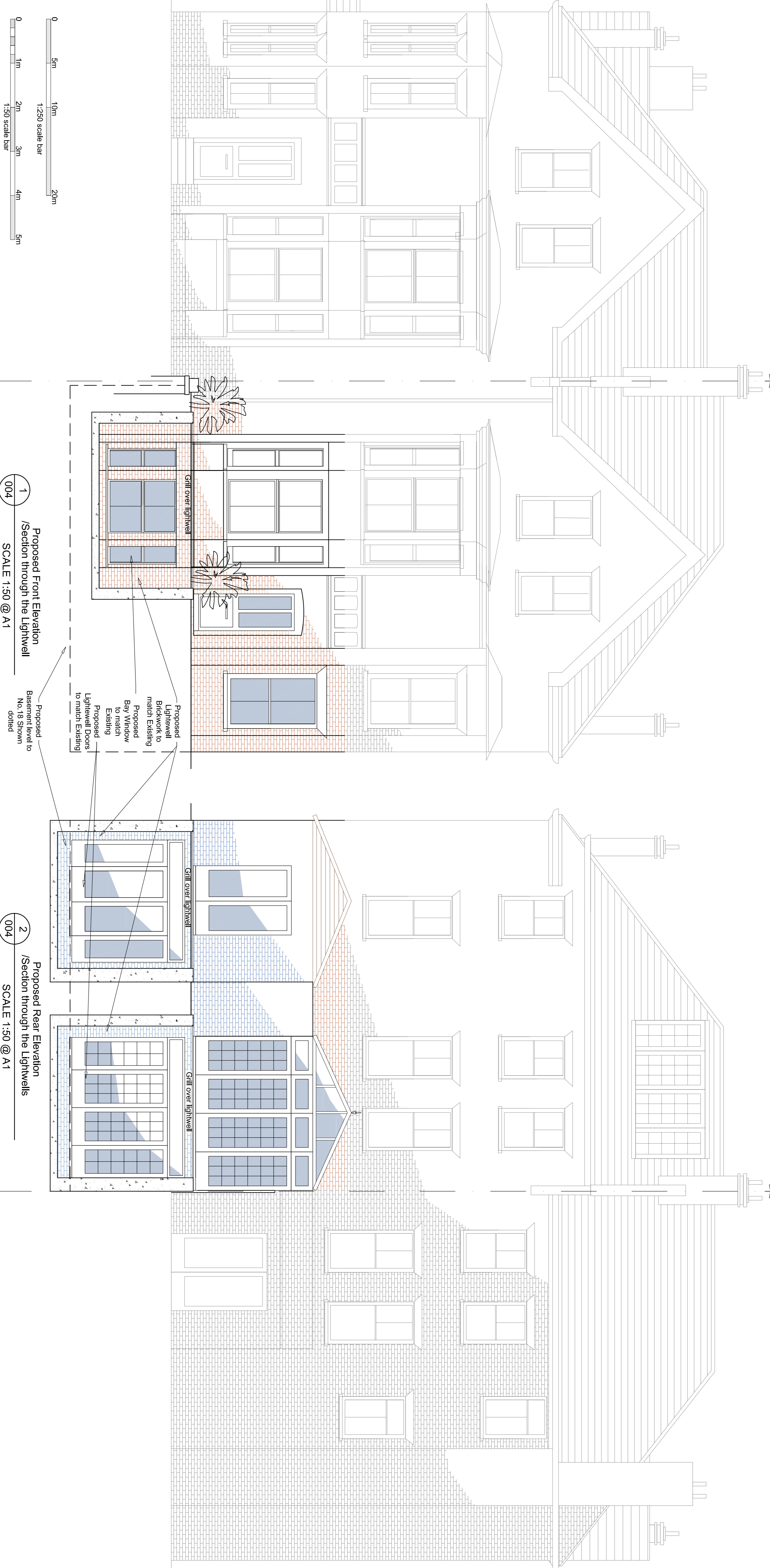
Project  
18 Oman Road  
London NW3 4PX

Title Proposed Basement and Ground Floor Plans and Longitudinal Section	
Drawn	US Date Nov/12 Scale 1:50
Checked	MM Date Nov/12
Approved	SS Date Nov/12 Size A1

Drawing No. 1206-667-003 Rev. B



3  
004 Proposed Site Plan  
SCALE 1:250 @ A1

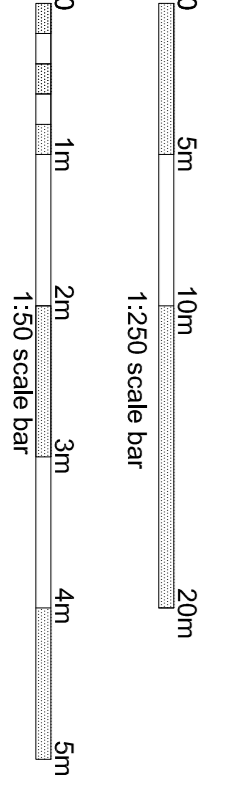


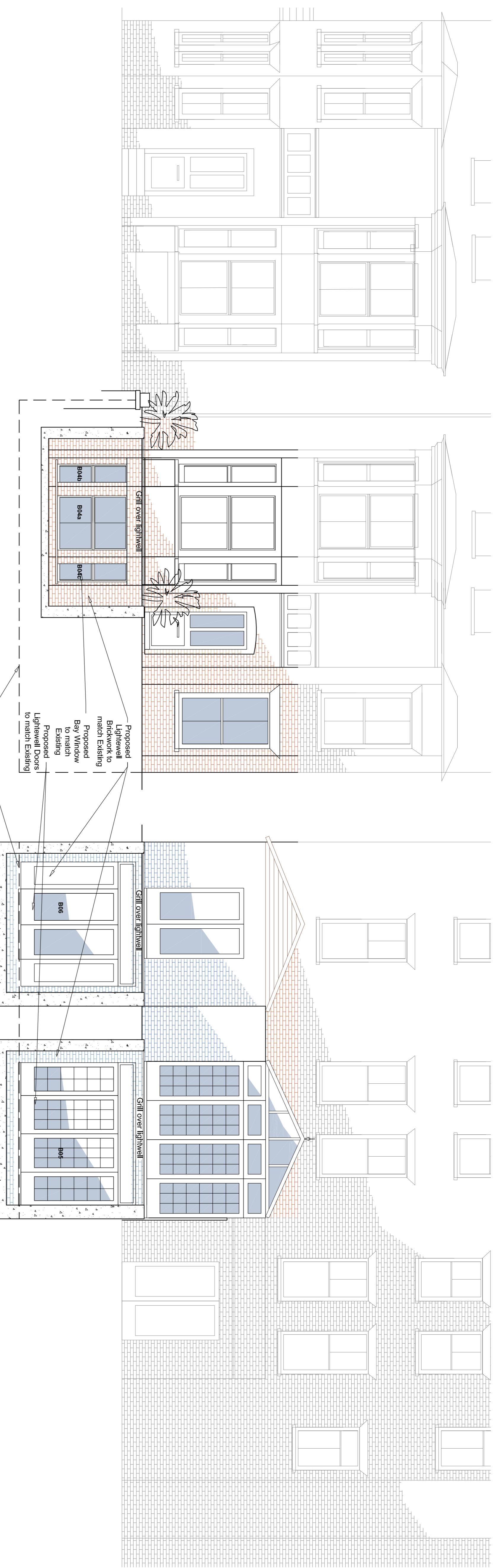
1  
004 Proposed Front Elevation  
/Section through the Lightwell  
SCALE 1:50 @ A1

2  
004 Proposed Rear Elevation  
/Section through the Lightwells  
SCALE 1:50 @ A1

Proposed Lightwell Brickwork to match existing  
Proposed Bay Window to match Existing  
Proposed Lightwell Doors to match Existing  
Proposed Basement level to No.18 shown

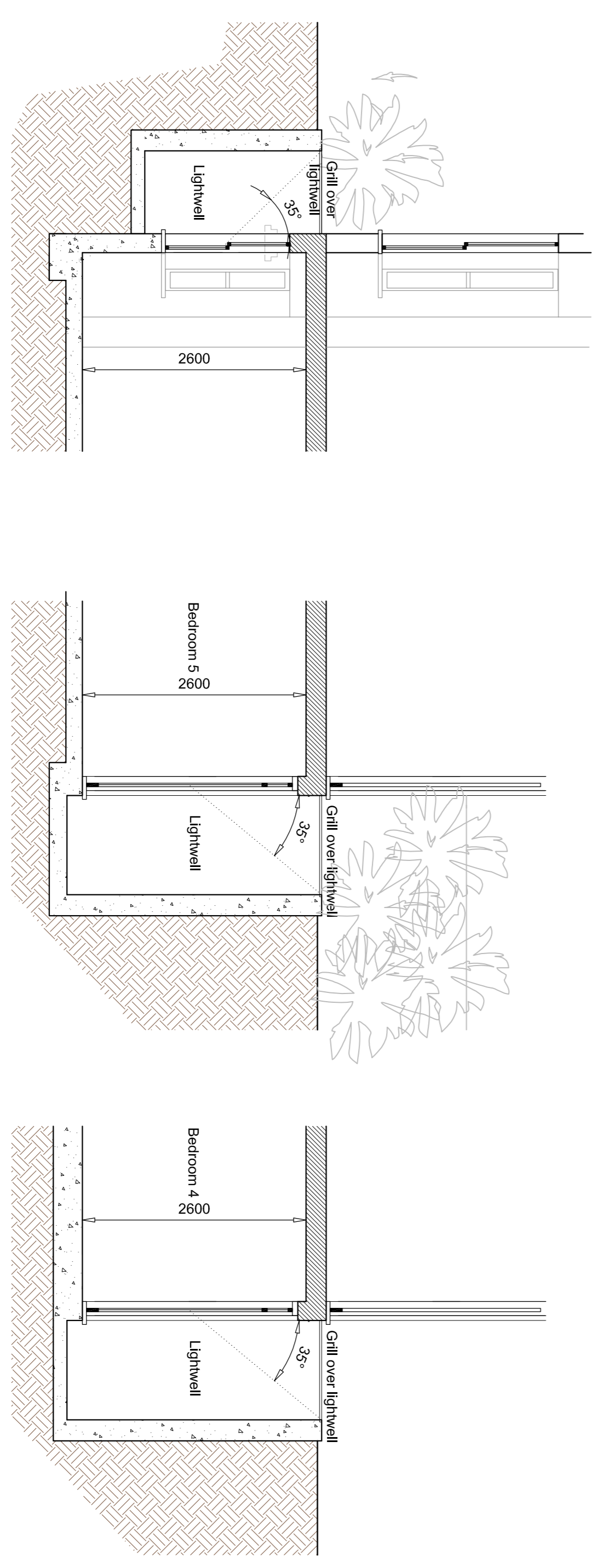
<p>Client <b>Southfields Property Company Ltd</b></p>		<p>Rev. A Preparatory advice incorporated Date: Apr 13 SS</p>	
<p>Project <b>18 Ornan Road London NW3 4PX</b></p>		<p>Rev. Amendments Date Chkd.</p>	
<p>Client <b>S T S Structural Engineering Ltd</b> 88 Crossway, Woburn Garden City, Hemel Hempstead, AL8 7BE Tel: 01707 695466 Fax: 01707 692066 Web: www.sts.co.uk Email: sales@sts.co.uk</p>			
<p>Title <b>Proposed Site Plan and Elevations/Sections through the Lightwells</b></p>			
Drawn	US	Date	Nov/12
Checked	MM	Date	Nov/12
Approved	SS	Date	Nov/12
Scale	AS Shown		
Size	A1		
Rev.	A		





1  
005  
Proposed Front Elevation /Section through the Lightwell  
SCALE 1:50 @ A1

2  
005  
Proposed Rear Elevation /Section through the Lightwells  
SCALE 1:50 @ A1



1  
005  
Proposed Partial Sections  
SCALE 1:100 @ A1

N.B This demonstrates that about 90% of the grille would be open and about 10% solid. On this basis 10% of the daylight reaching the centre of the window would be blocked. The true level of internal daylight would be the 90% of 1.26% (initially) = 1.13%. This is above the British Standard and BRE recommended level for a bedroom.

**Average Daylight Factor**

$$ADF_{B_{04a}} = \frac{T \times A_w \times \theta}{A \times (1-R^2)} = \frac{0.8 \times 2.14m^2 \times 35^\circ}{79m^2 \times (1-0.8^2)} = 1\%$$

$$ADF_{B_{04b}} = \frac{T \times A_w \times \theta}{A \times (1-R^2)} = \frac{0.8 \times 0.88m^2 \times 35^\circ}{79m^2 \times (1-0.8^2)} = 0.41\%$$

$$ADF_{B_{04c}} = \frac{T \times A_w \times \theta}{A \times (1-R^2)} = \frac{0.8 \times 0.88m^2 \times 35^\circ}{79m^2 \times (1-0.8^2)} = 0.41\%$$

$$ADF_{B_{04d}} = \frac{T \times A_w \times \theta}{A \times (1-R^2)} = \frac{0.8 \times 4.18m^2 \times 35^\circ}{123.15m^2 \times (1-0.8^2)} = 1.26-10\%_{B_{04a}} = 1.44\% \geq 1\%$$

N.B Presuming B<sub>1</sub> is 0.5, the right hand side of the equation equals 4. The room is evenly lit. If the left hand side of the equation exceeds 4, the rear half of the room will appear gloomy and supplementary electric lighting would be required.

**Room Depth Calculations**

$$\frac{L}{W} + \frac{L}{H} \leq \frac{2}{1-R^2} \Rightarrow \frac{3.4m}{5.53m} + \frac{3.4m}{2.5m} \leq \frac{2}{1-0.5^2} \Rightarrow 1.97m \leq 4$$

$$\frac{L}{W} + \frac{L}{H} \leq \frac{2}{1-R^2} \Rightarrow \frac{7.6m}{4.5m} + \frac{7.6m}{2.8m} \leq \frac{2}{1-0.5^2} \Rightarrow 4.73m > 4$$

$$\frac{L}{W} + \frac{L}{H} \leq \frac{2}{1-R^2} \Rightarrow \frac{9.6m}{3m} + \frac{9.6m}{2.6m} \leq \frac{2}{1-0.5^2} \Rightarrow 8.9m > 4$$

**The Average Daylight Factor Calculations**

Drawn	US	Date	Nov/12	Scale	1:50
Checked	MM	Date	Nov/12	Size	A1
Approved	SS	Date	Nov/12	Rev.	B

Drawing No. 1206-667-005

Client	Southfields Property Company Ltd												
Project	18 Oman Road London NW3 4PX												
Rev.	<table border="1"> <tr> <td>B</td> <td>Footings details amended</td> <td>Dec-15</td> <td>SS</td> </tr> <tr> <td>A</td> <td>Preplanning advice incorporated</td> <td>Apr-13</td> <td>SS</td> </tr> <tr> <td>Rev.</td> <td>Amendments</td> <td>Date</td> <td>Chkd.</td> </tr> </table>	B	Footings details amended	Dec-15	SS	A	Preplanning advice incorporated	Apr-13	SS	Rev.	Amendments	Date	Chkd.
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