JB/JP/3561/2007

30th November 2007

Mr Tim Cronin
Development Control
London Borough of Camden
Argyle Street
London
WC1H 8EQ

Dear Mr Cronin

RE: THE REDEVELOPMENT OF CHICHESTER HOUSE AND DAYLIGHT AND SUNLIGHT

As discussed at the Committee Meeting on November 29th 2007, I write to inform you of our updated results for the daylight and sunlight assessments carried out on 12-15 Great Turnstile.

When reading this letter one should consider that the effects of changes in lighting levels (daylight and sunlight) to the residents to 12-15 Great Turnstile will not be instantly apparent or discernable to the human eye but are non-discernable changes to the daylight and sunlight that the residents currently enjoy. It should be further noted that only two rooms in totality will be adversely affected as a result of this proposal

With the benefit of more accurate internal layout arrangement drawings of 12-15 Great Turnstile our computer model has since been updated to ensure the highest degree of accuracy in the data. These have been attached to this letter and form the basis of our advice.

The BRE Guidelines 'Site Layout Planning for Daylight and Sunlight – A Guide to Good Practice' forms the basis of our methodology. These guidelines stipulate three methodologies for understanding daylight within a room and the alteration experienced as a consequence of implementing a neighbouring development. The industry method for determining the adequacy of daylight would consider (in order) the assessments of the VSC, ADF and NSL. A full computer analysis including all three methods of daylight assessment has been undertaken to understand the real changes in light levels. Whilst quite technical, I think it important to explain each method briefly.

In a City centre and in particular in a location such as Chichester House, it is common to affect daylight and sunlight to a higher degree than the criteria suggested within the BRE guidelines. This is because the guidelines were originally drafted for suburban residential environments and it is therefore recognised that the BRE targets cannot be expected to be achieved in City centre locations. It is therefore of paramount importance to bear in mind that the standards are given as guidelines and that the numerical values involved are purely advisory and must be considered in the context of matters such as, for example, site layout constraints. This point is clearly referred to on page 1 of the BRE document.

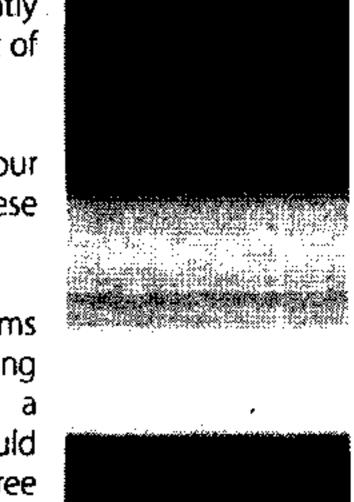
Vertical Sky Component (VSC)

The Vertical Sky Component (VSC) method calculates the amount of visible sky on a vertical face (normally a window) at a given point. This is normally the central point of a window except at ground floor level where it is taken 2 metres above the ground. This method of measurement is limited because it only records the potential for light by reference to visible sky. It does not take into account the size of windows, the number of windows serving a room and the room layout and use. Thus it only measures light reaching the outside plane of the window and not the actual light in a room

Within a suburban context for which this test was devised the VSC is very helpful, however, within a densely developed urban context it is not particularly helpful. The reason for saying this is that where buildings are built close to one another, as is the case in Great Turnstile, the existing levels of VSC are very low. Consequently a modest level of development at such proximity can result in large percentage changes in VSC which in real terms are little more than a few percent. For a real understanding of the light behind those windows then two other methods of assessment are available.

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No-Sky Line (NSL)

The No-Sky Contour method seeks to determine the internal distribution of light by reference to the extent of light penetration into a room at the working plane level (approximately desk height). It is more accurate than the Vertical Sky Component method because it does take account of the window sizes and room plan but still only considers sky visibility and disregards room use. It helps as a guide but can sometimes be misleading, because if a substantial part of the room falls behind the no skyline contour, the distribution of light within the room may look worse than truly the case.

The BRE Guidelines suggest that where the NSL is altered by more than 20% this may become noticeable to the occupant. On the basis of which all but 2 rooms out of 11 tested (which face the proposed site) will experience satisfactory and BRE compliant daylight by reference to this methodology.

In relation to the two rooms that fall below the suggested guidelines (i.e. reductions above 20%) i.e. room R2/111 within Flat 13 on the ¹⁰ Floor, and room R2/112 within Flat 23 on the Second floor further detailed consideration is given below in relation to the most accurate of the three methods of daylight analysis, namely the Average Daylight Factor.

Average Daylight Factor (ADF)

The Average Daylight Factor (ADF) considers the average amount of light in a room based upon sky visibility and reflectivity of internal surfaces. It thus incorporates the Vertical Sky Component but takes into account the quality of light in the room (albeit averaged) based upon room size and volume and use. The British Standard BS8206 Part II provides different criteria for different room uses. These are also set out within the BRE document in Appendix C on page 58. In essence, the minimum levels of Average Daylight Factor that are suggested are as follows:

Kitchens: 2%

Living rooms: 1.5%

Bedrooms: 1%

Room R2/111 within Flat 13 on the 1st Floor is used as a living room and the ADF is currently 1.07% a level below the general threshold by reference to the BRE Guidelines and British Standard BS8206: Part2. This will be reduced to 0.68% once the proposed scheme is implemented. Room R2/112 within Flat 23 on the Second floor is used as a bedroom/ study and the ADF is currently 1.18% a level considered acceptable for a bedroom by reference to the BRE and will be 0.81% as a consequence of the proposed scheme, slightly below the British standard. Whilst the light enjoyed by these 2 rooms is reduced slightly, the changes in light levels would not alter the way in which the space is materially being used, supplementary electric lighting would still continue to be required at the same levels/periods, as it is currently utilised.

The modest level of change proposed has been considered acceptable in relation to other developments at various locations within London, notably the, Middlesex Hospital site, St Giles Court, Osnaburgh Street. In addition they are driven by a very tight urban site in which any small increase in massing will result in fluctuations in light levels to neighbouring properties. This is something which the BRE Guidelines acknowledge when they state that they should not be read in a mandatory way, but should be applied flexibly particularly in historic or urban city centres precisely such as this. In addition to which the scheme has been designed in such a way to step back from the aforementioned properties and create a greater sense of openness than the existing building offers.

In conclusion only two rooms are affected by this proposal; one to a slightly greater degree than the other. In both cases the levels of light appear to be acceptable and the reductions to be non discernible to the human eye.

Yours sincered

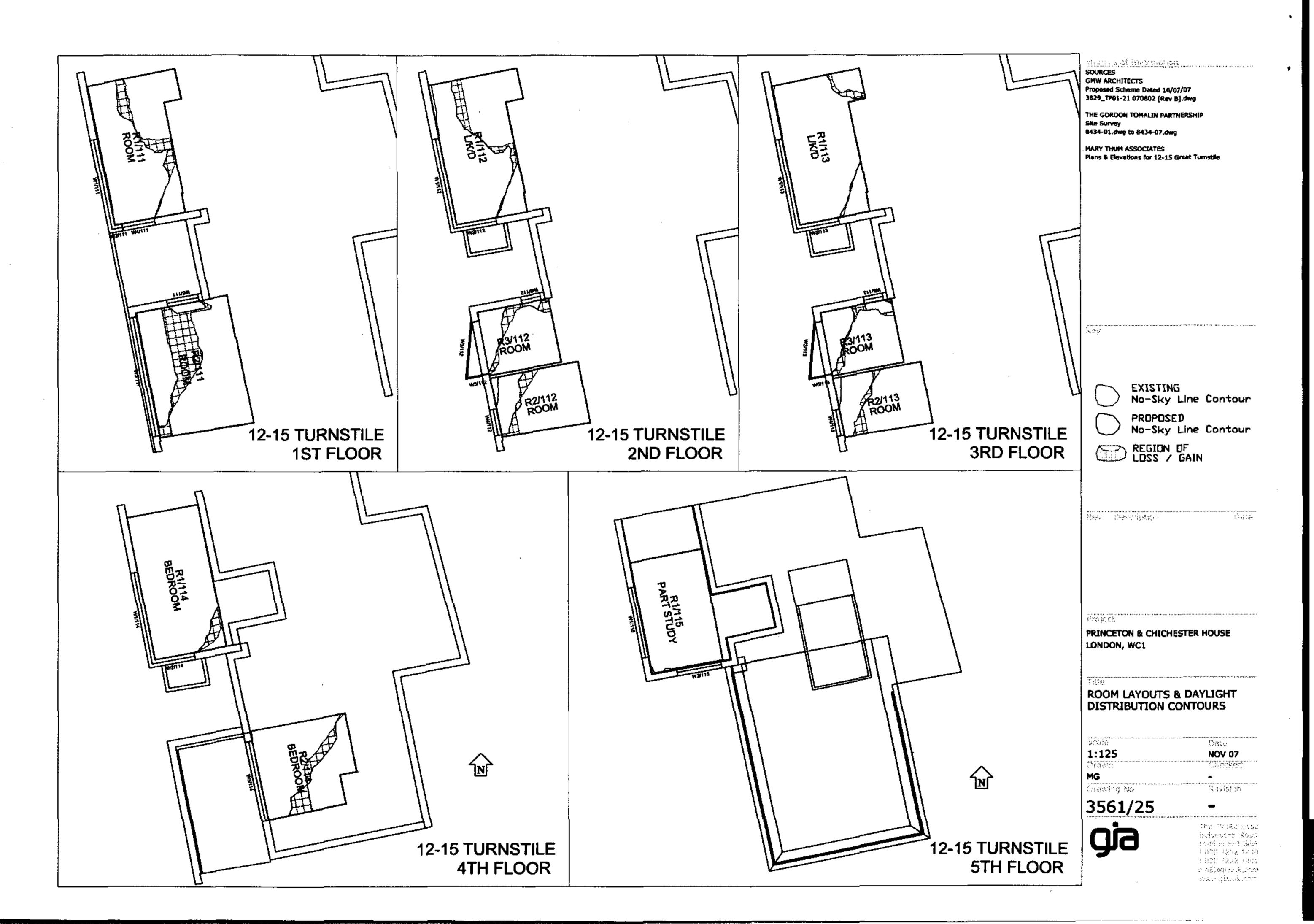
JESTIN BOLTON

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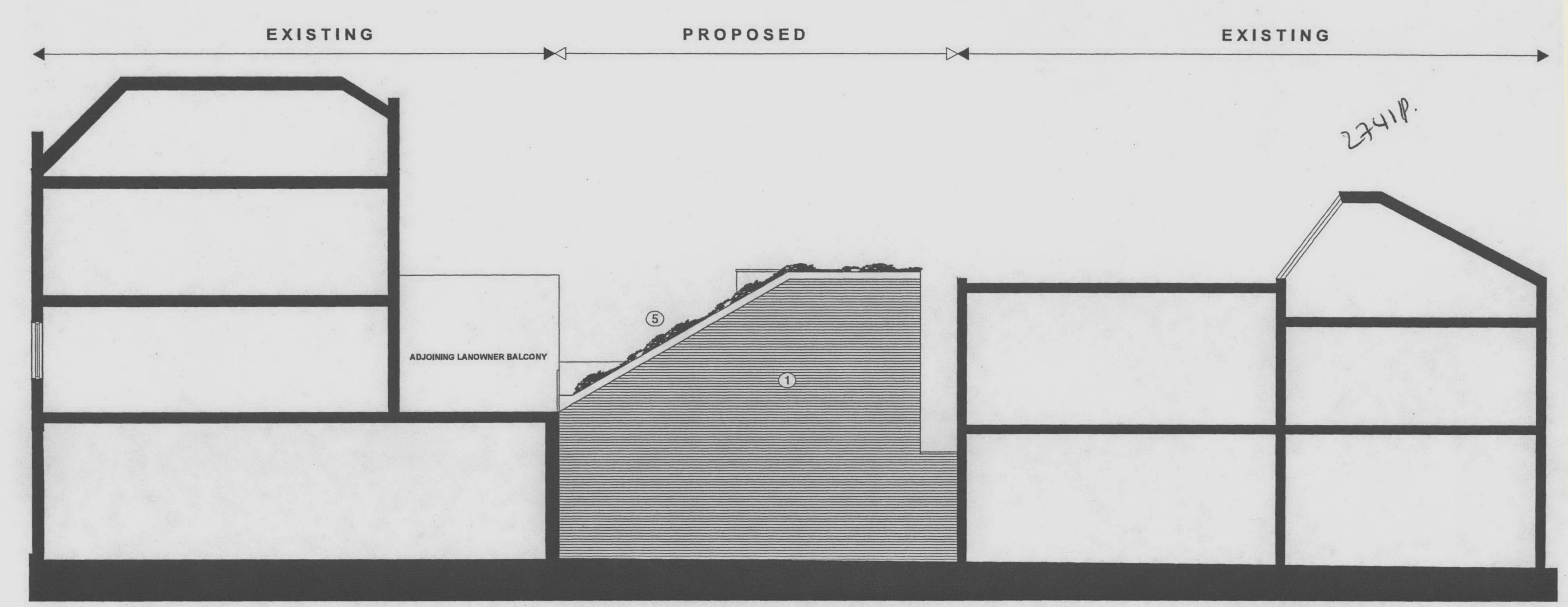
	Vertical Sky Component					Average Daylight Factor								
loom	Window	Existing	Proposed	Loss	0/0	Room	Window	Room Use	ADF	sting Total	ADF	osed Total	Loss	%
2-15 Great Tu	urnstile					12-15 Great	Turnstile							
R1/111	W1/111	4.39	2.10	2.29	52.16	R1/111	W1/111	ROOM	1.05		0.52			
21/111	W2/111	6.55	5.18	1.37	20.92	R1/111	W2/111	ROOM	0.18		0.17		5	
21/111	W4/111	2.29	1.38	0.91	39.74	R1/111	W4/111	ROOM	0.52	1.76	0.40	1.09	0.67	37.9
2/111	W3/111	4.50	2.93	1.57	34.89	R2/111	W3/111	ROOM	0.90		0.61		1 P A	
2/111	W5/111	0.85	0.39	0.46	54.12	R2/111	W5/111	ROOM	0.16	1.07	0.07	0.68	0.39	36.24
1/112	W1/112	5.45	2.59	2.86	52.48	R1/112	W1/112	L/K/D	1.68		0.91			
1/112	W2/112	4.13	2.74	1.39	33.66	R1/112	W2/112	L/K/D	0.76	2.44	0.63	1.54	0.91	37.0
2/112	W4/112	8.02	4.98	3.04	37.91	R2/112	W4/112	ROOM	1.18	1.18	0.81	0.81	0.37	31.2
3/112	W3/112	5.98	2.84	3.14	52.51	R3/112	W3/112	ROOM	1.18		0.80			
3/112	W5/112	11.65	10.68	0.97	8.33	R3/112	W5/112	ROOM	0.35		0.34			
R3/112	W6/112	1.17	0.60	0.57	48.72	R3/112	W6/112	ROOM	0.24	1.76	0.16	1.29	0.47	26.5
1/113	W1/113	7.24	3.45	3.79	52.35	R1/113	W1/113	L/K/D	2.57		1.57			
R1/113	W2/113	6.49	4.88	1.61	24.81	R1/113	W2/113	L/K/D	1.15	3.72	0.98	2.55	1.16	31.3
2/113	W4/113	10.49	6.73	3.76	35.84	R2/113	W4/113	ROOM	1.37	1.37	0.98	0.98	0.40	28.8
3/113	W3/113	8.02	3.93	4.09	51.00	R3/113	W3/113	ROOM	1.38		0.94			
23/113	W5/113	13.23	12.30	0.93	7.03	R3/113	W5/113	ROOM	0.37		0.37			
23/113	W6/113	1.88	1.10	0.78	41.49	R3/113	W6/113	ROOM	0.35	2.10	0.28	1.59	0.52	24.4
1/114	W1/114	9.79	4.74	5.05	51.58	R1/114	W1/114	BEDROOM	3.04		1.91			
1/114	W2/114	20.30	18.41	1.89	9.31	R1/114	W2/114	BEDROOM	2.24	5.28	2.11	4.03	1.25	23.6
2/114	W3/114	16.37	11.59	4.78	29.20	R2/114	W3/114	BEDROOM	4.29	4.29	3.45	3.45	0.84	19.6
1/115	W1/115	13.89	6.91	6.98	50.25	R1/115	W1/115	PART STUDY	3.52		2.25			
21/115	W2/115	25.95	23.93	2.02	7.78	R1/115	W2/115	PART STUDY	1.61	5.13	1.53	3.78	1.34	26.1

Princeton Chichester House Scheme Dated 3/8/07 DAYLIGHT DISTRIBUTION ANALYSIS

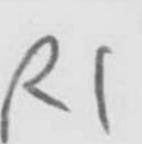
Room/		Whole	Prev	New	Loss	%Loss	
Floor	Room Use	Room	sq ft	sq ft	sq ft		
12-15 Great	Turnstile						
R1/111	ROOM	209.2	138.1	119.4	18.8	13.6	
R2/111	ROOM	231.0	100.4	55.9	44.5	44.3	
R1/112	L/K/D	209.2	128.7	114.4	14.3	11.1	
R2/112	ROOM	104.3	27.8	20.7	7.1	25.5	
R3/112	ROOM	103.8	44.3	35.5	8.8	19.9	
R1/113	L/K/D	209.2	182.6	177.6	5.1	2.8	
R2/113	ROOM	104.3	30.7	27.2	3.5	11.4	
R3/113	ROOM	103.8	48.6	43.3	5.3	10.9	
R1/114	BEDROOM	199.8	195.6	189.1	6.5	3.3	
R2/114	BEDROOM	160.4	102.5	103.2	-0.7	-0.7	
R1/115	PART STUDY	155.8	154.7	154.4	0.3	0.2	

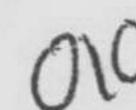






- 1. BRICK SAMPLE TO BE AGREED
- 2. STEEL/TIMBER WINDOW FRAMES COLOUR TO BE CONFIRMED
- 3. STEEL HANDRAIL WITH GLASS PANEL
- 4. PERFORATED METAL DOOR-COLOUR TO BE CONFIRMED
- 5. GREEN ROOF







Land to Rear 169 York Way London, N7 9LN

PROJECT

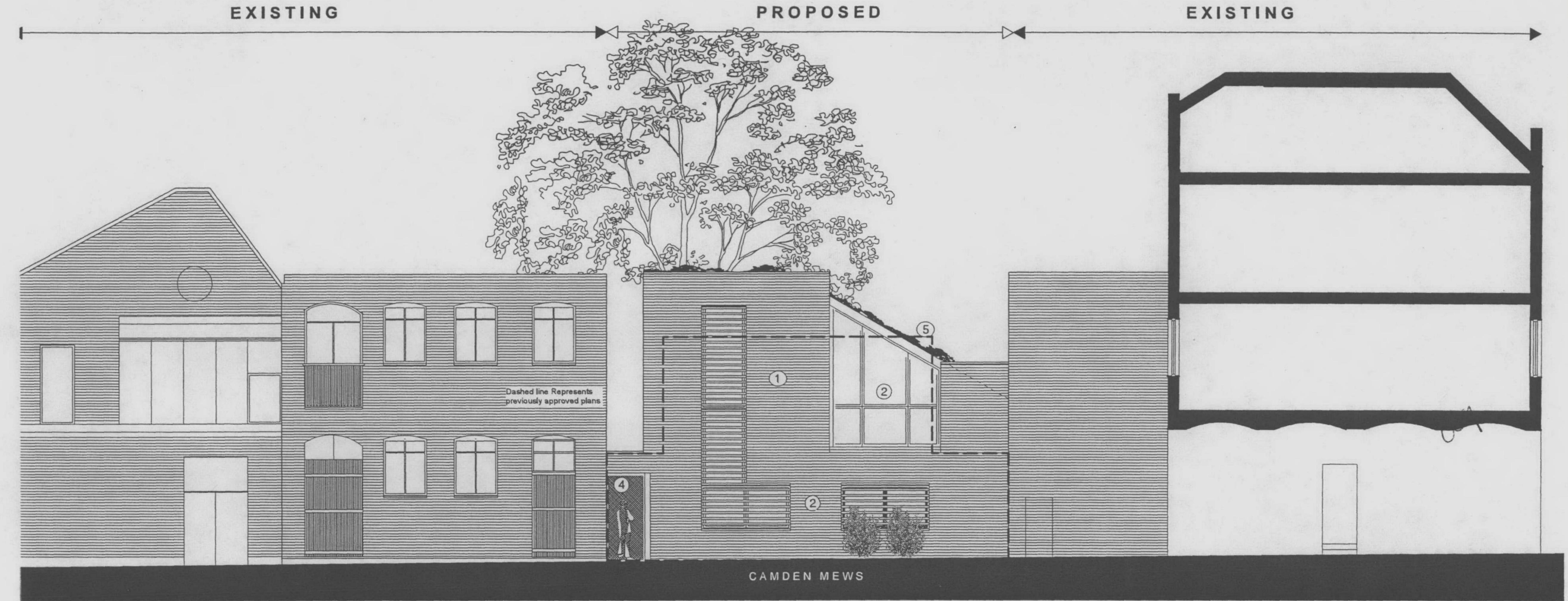
Proposed Elevations
South-West

O6915/PL/010

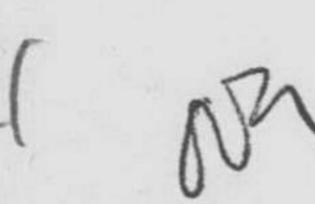
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YURKY CROSS CHARTERED ARCHITECTS

67a York Way LONDON N7 9LN 020 7267 0481 F 020 7267 1248 E-mail: info@yurkycross.co.uk Land to Rear 169 York Way London, N7 9LN

Proposed Elevations
South-East

DRAWING NUMBER 06915/PL/009

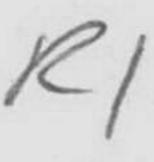
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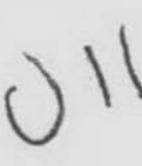
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PROJECT

Proposed Elevations
South-West
Flank

ORAWING NUMBER

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SCALE DATE REVISION

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Proposed Elevations

South-East
Front

ORAWING NUMBER

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SCALE DATE REVISION

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