gia

Daylight and Sunlight

New City Court & Southwark Cathedral

Prepared by:Kevin FrancisReference:8684Date:01/03/2019

DATE / REF

01/03/2019 KF/8684

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By Email Sarah.Considine@dp9.co.uk

Sarah Considine DP9 Ltd 100 Pall Mall London SW1Y 5NQ

Dear Sarah.

Re: The Proposed redevelopment of New City Court and the Southwark Cathedral – Daylight, Sunlight and Overshadowing Summary

GIA have undertaken detailed Daylight, Sunlight and Overshadowing Assessments to the windows, rooms and courtyard of the Southwark Cathedral. The assessments have been undertaken in accordance with the BRE Guidelines *Site layout planning for daylight and sunlight: a guide to good practice (BR 209).* Whilst not planning policy nor a mandatory set of rules, the BRE document advises on planning developments for good access to daylight and sunlight and is widely used by local authorities to understand the effect a new development may have on the amenity of neighbouring properties.

Daylight and Sunlight

The BRE guidelines provide two main methods of calculation for daylight. The first is known as the Vertical Sky Component ("VSC") method which considers the potential for daylight by calculating the angle of vertical sky at the centre of each of the windows serving the buildings which look towards the site. This is a more simplistic approach and it could be considered as a "rule of thumb" to highlight whether there are any potential concerns to the amenity serving a particular property.

The second method is the No Sky Line ("NSL") method, sometimes referred to as Daylight Distribution. This simply assesses the change in where the sky can be seen and not seen from within a room, between the existing and proposed situations. This methodology does take into account the number and size of windows to a room.

In relation to sunlight, the criteria given calculates the Annual Probable Sunlight Hours ("APSH") which considers the amount of sun available in both the summer and winter for each given window/ room which faces within 90° of due south of the development site. Summer is considered to be the six months between March 21st and September 21st and winter the remaining months.

The high-level summary of our findings of the '*Existing v Proposed*' analysis is that **102/102 (100%)** of windows will meet the BRE criteria for VSC, **19/19 (100%)** of rooms will meet the BRE criteria for NSL and **3/3 (100%)** of south facing rooms will meet the BRE criteria for APSH. The full tabulated results have been appended to this document (appendix 01).

GIA conclude that any impact on Daylight and Sunlight to the receptors on the Southwark Cathedral would be negligible and not noticeable.



Overshadowing

A 'Sun Hours on Ground' ("SHOG") overshadowing assessment has been undertaken upon all relevant amenity spaces neighbouring the site and has been included as part of the Environmental Impact Assessment ("EIA"). Paragraph 3.3.17 within the BRE Guidelines states:

"It is recommended that for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on the 21st March. If, as a result of new development, an existing garden or amenity area does not meet the above and the area which can receive two hours of sun on the 21st March is less than 0.8 times its former value, then the loss of sunlight is likely to be noticeable".

For the purpose of this note, we have extracted the relevant part of the study which relates to the Southwark Cathedrals publicly accessible courtyard (see appendix 02). In the existing scenario, GIAs SHOG analysis indicates that 85% of the courtyard will experience 2+ hours of direct sunlight. In the proposed scenario, our analysis indicates that 85% of the area will continue to enjoy 2+ hours of direct sunlight, which is well in excess of BRE recommendations and indeed no material change from what is currently enjoyed.

This analysis would suggest that any additional shadow that does traverse the courtyard as a result of the proposed development will be brief and transitory and not have a lasting effect on the quality of sunlight within the courtyard as a whole.

I trust the above summary is clear, however should you have any queries, please feel free to contact me.

Yours sincerely For and on behalf of GIA

Kevin Francis **Partner** kevin.francis@gia.uk.com

Encl. Appendix 01 – Daylight and Sunlight Results Appendix 02 – Overshadowing Analysis Appendix 03 – Window Maps



Appendix 01 Daylight and Sunlight Results

Vertical Sky Component (VSC) No Sky Line (NSL) Annual Probable Sunlight Hours (APSH)

						VSC (WINI	DOW)			VSC (ROO	M)			NSL				APSH (RO	OM)				
FLOOP	R	ROOM	PROPERTY	WINDOW	WINDOW	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS	E	х.	P	R.	LO	SS %
			ТҮРЕ		NOTES	%	%		%	%	%		%	%	%	SQM	%	ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER

SOUTHW	ARK CATHED	RAL																			
F00	R1	RELIGIOUS	W1/F00	29.7	28.1	1.6	5.4%	26.9	26	0.9	3.3%	97.1	97.1	0.1	0.0%	98	29	98	29	0.0%	0.0%
			W2/F00	29.3	27.5	1.8	6.1%														
			W3/F00	30.7	28.8	1.9	6.2%														
			W4/F00	30.2	28.3	1.9	6.3%														
			W5/F00	25.8	25.8	0	0.0%														
			W6/F00	32.8	31.2	1.6	4.9%														
			W7/F00	34.1	32.3	1.8	5.3%														
			W8/F00	34.2	32.4	1.8	5.3%														
			W9/F00	34	32	2	5.9%														
			W10/F00	33	31.5	1.5	4.5%														
			W11/F00	30.9	30.1	0.8	2.6%														
			W12/F00	26.1	26.1	0	0.0%														
			W13/F00	23.4	23.4	0	0.0%														
			W18/F00	24.9	22.7	2.2	8.8%														
			W19/F00	17.9	15.8	2.1	11.7%														
			W20/F00	16.3	14	2.3	14.1%														
			W21/F00	26.2	23.8	2.4	9.2%														
			W22/F00	24.2	21.6	2.6	10.7%														
			W23/F00	23.2	22.2	1	4.3%														
			W24/F00	18.1	16.4	1.7	9.4%														
			W25/F00	20.8	18.2	2.6	12.5%														
			W26/F00	27.3	25.1	2.2	8.1%														
			W27/F00	25.9	25.2	0.7	2.7%														
			W28/F00	22.8	20.3	2.5	11.0%														
			W29/F00	28.9	26	2.9	10.0%														
			W30/F00	30.9	28.2	2.7	8.7%														
			W31/F00	32.3	29.1	3.2	9.9%														
			W32/F00	33.3	29.9	3.4	10.2%														
			W33/F00	22.9	22	0.9	3.9%														
			W34/F00	23.1	21.8	1.3	5.6%														
			W35/F00	22.1	21.4	0.7	3.2%														
SOUTHW	ARK CATHED	RAL (CONTINUED)																			
			W36/F00	20.7	19.7	1	4.8%														

(1) KITCHEN SMALLER THAN 13m2

LL/10/L						_	_	_				-		_	_							
					VSC (W	INDOW)			VSC (RO	OM)			NSL				APSH (R					
FLOOR	ROOM	PROPERTY	WINDOW	WINDOW	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS		EX.		PR.	LG	DSS %
		TYPE		NOTES	%	%		%	%	%		%	%	%	SQM	%	ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER
			W37/F00		26.5	24.9	1.6	6.0%														
			W38/F00		26.3	24.7	1.6	6.1%														
			W39/F00		25.7	24.1	1.6	6.2%														
			W40/F00		24	22.5	1.5	6.2%														
			W41/F00		28.6	26.7	1.9	6.6%														
			W42/F00		28.7	26.8	1.9	6.6%														
			W43/F00		28.3	26.4	1.9	6.7%														
			W44/F00		13.8	13.8	0	0.0%														
			W45/F00		16.3	16.3	0	0.0%														
			W46/F00		16.9	16.9	0	0.0%														
			W47/F00		13.9	13.9	0	0.0%														
			W48/F00		16	16	0	0.0%														
			W49/F00		13.3	13.3	0	0.0%														
			W50/F00		29.2	29.2	0	0.0%														
			W51/F00		29.7	29.7	0	0.0%														
			W52/F00		29.2	29.2	0	0.0%														
			W53/F00		28.3	28.3	0	0.0%														
			W54/F00		25	25	0	0.0%														
			W55/F00		15.7	15.7	0	0.0%														
			W56/F00		21.3	21.3	0	0.0%														
			W57/F00		24	24	0	0.0%														
			W58/F00		25.3	24.8	0.5	2.0%														
			W59/F00		32.4	32.4	0	0.0%														
			W65/F00		21.5	21.5	0	0.0%														
			W66/F00		16.6	16.6	0	0.0%														
			W67/F00		23.7	23.7	0	0.0%														
			W68/F00		26.3	26.3	0	0.0%														
			W69/F00		26.3	26.3	0	0.0%														
			W70/F00		26.2	26.2	0	0.0%														
			W71/F00		25.3	25.3	0	0.0%														
SOUTHWA	RECATHEDR	AL (CONTINUED)	W/70/500		22.7	22.7	0	0.0%														
			W72/F00		22.7	22.7	0	0.0%														
			W73/F00		24.4	24.4	0	0.0%														
			W74/F00		29.5	29.5	0	0.0%														
			W75/F00		30.7	30.7	0	0.0%														

(1) KITCHEN SMALLER THAN 13m2

LL/10/L					VECOM						0, 1000E 0											
					VSC (WII	NDOW)			VSC (RO				NSL				APSH (R					
FLOOR	ROOM	PROPERTY			EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS		EX.		PR.		DSS %
		TYPE	N	OTES	%	%		%	%	%		%	%	%	SQM	%	ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER
							_	_														
			W76/F00		31.9	31.9	0	0.0%														
			W77/F00		31.4	31.4	0	0.0%														
			W78/F00		31.7	31.7	0	0.0%														
			W79/F00		29.8	29.8	0	0.0%														
			W82/F00		14.5	14.5	0	0.0%														
			W83/F00		18.2 28.1	18.2	0	0.0%														
			W84/F00 W85/F00		30.4	28.1 30.4	0	0.0%														
			W86/F00		28.5	28.5	0	0.0%														
			W64/F00		26.7	26.7	0	0.0%														
			W63/F00		28.9	28.9	0	0.0%														
			W14/F00		30.5	30.5	0	0.0%														
			W15/F00		32.6	32.6	0	0.0%														
			W16/F00		36.3	33.6	2.7	7.4%														
			W17/F00		27.1	24.8	2.3	8.5%														
	R2	RELIGIOUS	W80/F00		20.4	20.4	0	0.0%	18.4	18.4	0	0.0%	61.2	61.2	0.0	0.0%						
			W81/F00		14.3	14.3	0	0.0%														
F01	R1	RELIGIOUS	W9/F01		19.1	19.1	0	0.0%	19.1	19.1	0	0.0%	30.4	30.4	0.0	0.0%						
	R2	RELIGIOUS	W1/F01		37.9	35.5	2.4	6.3%	37.4	36.3	1.1	2.9%	100	100	0.0	0.0%	95	26	92	23	3.2%	11.5%
			W2/F01		37.8	35.3	2.5	6.6%														
			W3/F01		33.8	31.8	2	5.9%														
			W4/F01		33.8	31.9	1.9	5.6%														
			W5/F01		38.7	38.7	0	0.0%														
			W6/F01		38.7	38.7	0	0.0%														
			W7/F01		39.4	39.4	0	0.0%														
			W8/F01		39.4	39.4	0	0.0%														
F02	R1	RELIGIOUS	W3/F02		38.3	35.9	2.4	6.3%	38	36.9	1.1	2.9%	100	100	0.0	0.0%	95	26	92	23	3.2%	11.5%
SOUTHWA	ARK CATHEDR	AL (CONTINUED)																				
			W4/F02		38.2	35.8	2.4	6.3%														
			W5/F02		34.9	33	1.9	5.4%														
			W6/F02		34.9	33.1	1.8	5.2%														
			W7/F02		39.2	39.2	0	0.0%														
			W8/F02		39.2	39.2	0	0.0%														
			W9/F02		39.6	39.6	0	0.0%														
			W10/F02		39.6	39.6	0	0.0%														

(1) KITCHEN SMALLER THAN 13m2

(2) INC\HZ = SKY COMPONENT (INCLINED\HORIZONTAL WINDOWS)

					VSC (WIN	IDOW)			VSC (ROO	M)			NSL				APSH (RO	OM)				
FLOOR	ROOM	PROPERTY	WINDOW	WINDOW	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS	EX.	PR.	LOSS	LOSS	E	X.	P	R.	LOS	SS %
		ТҮРЕ		NOTES	%	%		%	%	%		%	%	%	SQM	%	ANNUAL	WINTER	ANNUAL	WINTER	ANNUAL	WINTER
	R2	RELIGIOUS	W1/F02		29	29	0	0.0%	26.3	26.3	0	0.0%	50.7	50.7	0.0	0.0%						
			W2/F02		24.1	24.1	0	0.0%														





DAYLIGHT & SUNLIGHT

OVERSHADOWING IMPACT ASSESSMENT

New City Court

02 January 2019 GIA No: **8684**

PROJECT DATA:				
Client	Gree	at Portland Est	ates	
Architect	AHN	иM		
Project Title	New	City Court		
Project Number	868	4		
REPORT DATA:				
Report Title	Ove	rshadowing Im	pact Assessment	
GIA Department	Day	light & Sunlight		
Dated	02 3	January 2019		
Prepared by	GLE			
Checked by				
Туре	Plan	ning		
Revisions	No:	Date:	Notes:	Signed:
Rev A	1	02/01/2019	Shard Place Terrace Added to the Assessments	PCA

SOURCES OF INFORMATION:

Information Received	IR-29_38-8684
Release Number	Rel_04_8684_DSD
Issue Number	05
Site Photos	GIA
3D models	VERTEX
OS Data	FIND Maps



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CONTENTS

1	BRE GUIDELINES	2
2	METHODOLOGY	3
3	OVERSHADOWING ASSESSMENTS	4

1 BRE GUIDELINES

The Building Research Establishment (BRE) have set out in their handbook 'Site Layout Planning for Daylight and Sunlight a Guide to Good Practice (2011)', guidelines and methodology for the measurement and assessment of daylight and sunlight within proposed buildings.

The guide also provides advice on site layout planning to determine the quality of daylight and sunlight within open spaces between buildings.

It is important to note, however, that this document is a guide and states that its aim *"is to help rather than constrain the designer"*.

The document provides advice, but also clearly states that it "is not mandatory and this document should not be seen as an instrument of planning policy." The report also acknowledges in its introduction that "in special circumstances the developer or planning authority may wish to use different target values. For example, in a historic city centre a higher degree of obstruction may be unavoidable if new developments are to match the height and proportions of existing buildings."

It is an inevitable consequence of the built up urban environment that daylight and sunlight will be more limited in these areas. It is well acknowledged that in such situations there may be many other conflicting and potentially more important planning and urban design matters to consider other than just the provision of ideal levels of daylight and sunlight.

1.1 OVERSHADOWING

The BRE guidance in respect of overshadowing of amenity spaces is set out in section 3.3 of the handbook. Here it states as follows:

"Sunlight in the spaces between buildings has an important impact on the overall appearance and ambiance of a development. It is valuable for a number of reasons, to:

- provide attractive sunlit views (all year)
- make outdoor activities, like sitting out and children's play more pleasant (mainly warmer months)
- encourage plant growth (mainly spring and summer)
- dry out the ground, reducing moss and slime (mainly in colder months)
- melt frost, ice and snow (in winter)
- dry clothes (all year)"

Again, it must be acknowledged that in urban areas the availability of sunlight on the ground is a factor which is significantly controlled by the existing urban fabric around the site in question and so may have very little to do with the form of the development itself. Likewise there may be many other urban design, planning and site constraints which determine and run contrary to the best form, siting and location of a proposed development in terms of availability of sun on the ground.

The summary of section 3.3 of the guide states as follows:

"3. 3 .17 It is recommended that for it to appear adequately sunlit throughout the year, at least half of a garden or amenity area should receive at least two hours of sunlight on 21 March. If as a result of new development an existing garden or amenity area does not meet the above, and the area which can receive two hours of sun on 21 March is less than 0.8 times its former value, then the loss of sunlight is likely to be noticeable. If a detailed calculation cannot be carried out, it is recommended that the centre of the area should receive at least two hours of sunlight on 21 March."

2 METHODOLOGY

In order to undertake the daylight and sunlight assessments set out in the previous pages, we have prepared a three dimensional computer model and used specialist lighting simulation software.

The three dimensional representation of the proposed development has been modelled using the scheme drawings provided to us by AHMM. This has been placed in the context of its surrounding buildings which have been modelled from survey information, photogrammetry, OS and site photographs. This allows for a precise model, which in turn ensures that analysis accurately represents the amount of daylight and sunlight available to the building facades, internal and external spaces, considering all of the surrounding obstructions and orientation.

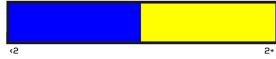
Э OVERSHADOWING ASSESSMENTS

OVERSHADOWING ASSESSMENT - SOUTHWARK CATHEDRAL SOUTHERN GARDEN SUN HOURS ON GROUND - BRE COMPLIANCE EXISTING SCENARIO



Fig. 01: Top view

SUN HOURS ON GROUND





OVERSHADOWING ASSESSMENT - SOUTHWARK CATHEDRAL SOUTHERN GARDEN SUN HOURS ON GROUND - BRE COMPLIANCE PROPOSED SCENARIO



Fig. 02: Top view

SUN HOURS ON GROUND



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SOUTH ELEVATION

SOURCE	S OF INFO	RMATION		
SITE PHOT IR15-8684	OGRAPHY - PLOWMAI	N CRAVEN		
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L O N D O N • M A N C H E S T E R



EAST ELEVATION

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	N.B. DO NC PROJECT: NEW C LONDC DRAWING WINDOW M SOUTHWA DWN BY CRC PROJ No.	CITY CO DN NAME: MAPS RK CATHED SCALE NTS@A3 REL NO.	URT RAL CHK BY ADDR No. -	DATE 06.09.18 IS No. 03 The Whitel Belvedere	A DWG No. 002 house Road
	N.B. DO NC PROJECT: NEW C LONDC DRAWING WINDOW M SOUTHWA DWN BY CRC PROJ No.	CITY CO DN NAME: MAPS RK CATHED SCALE NTS@A3 REL NO.	URT RAL CHK BY ADDR No.	DATE 06.09.18 IS No. 03 The Whitel	A DWG No. 002 house Road 1 8GA
	N.B. DO NC PROJECT: NEW C LONDC DRAWING WINDOW M SOUTHWA DWN BY CRC PROJ No.	CITY CO DN NAME: MAPS RK CATHED SCALE NTS@A3 REL NO.	URT RAL CHK BY ADDR No. -	DATE 06.09.18 IS No. 03 The Whitel 3elvedere ondon SE: 020 7202	A DWG No. 002 house Road 1 8GA 1400 2 1401
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NORTH ELEVATION

		S OF INFO	RMATION		
	SITE PHOT IR15-8684	OGRAPHY - PLOWMAI	N CRAVEN		
	FIND MAP				
	IR14-8684	- 090916			
	SURVEY IR16-8684	- 130916 - F	PLOWMAN C	RAVEN	
	PROPOSED		10		
		1 - 29.08.20 1 - 04.09.20			
	SURVEY BEING	UNDERTAKEN. GIA THE DISPLAYED	IS SUBJECT TO TAKES NO RESPO DATA SINCE A \	NSIBILITY ON THE RIFIED SITE SU	ACCURACY OR RVEY WAS NOT
	MADE AVAILABI	LE PRIOR TO THE	GENERATION OF S	UCH INFORMATIO	ON.
	NOTES:				
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F02 W1					
			F THIS DRA	WING	
			URT		
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	DRAWING WINDOW N				
	SOUTHWA	.RK CATHED	RAL		
	DWN BY	SCALE	СНК ВҮ	DATE	REV No.
	CRC	NTS@A3		06.09.18	А
	PROJ No. 8684	REL No. 03	ADDR No.	IS No. 03	DWG No. 003
	5084	03	-	US	500
				The White	
		1		Belvedere London SE	
) t	020 7202	1400
			r	nail@gia.u	k.com
	LON	D O N •	MANC	www.gia.ul нест	
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WEST ELEVATION

SOU	RCES OF INFO	DRMATION		
	PHOTOGRAPHY 3684 - PLOWMA	N CRAVEN		
FIND N IR14-8	MAP 3684 - 090916			
SURV	EY 3684 - 130916 -			
1810-0	5064 - 130916 -	PLOWMANC	RAVEN	
	OSED SCHEME	10		
	8684 - 29.08.20 8684 - 04.09.20			
	0004 04.00.EC	,10		
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ALL INF	ORMATION DISPLAYED	IS SUBJECT TO	A COMPLETE V	ERIFIABLE SITE
RELIABIL	BEING UNDERTAKEN. GI ITY OF THE DISPLAYED /AILABLE PRIOR TO THE	DATA SINCE A	ERIFIED SITE SU	IRVEY WAS NOT
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DRAW WIND SOUTI	O NOT SCALE O ECT: W CITY CC NDON /ING NAME: OW MAPS HWARK CATHED BY SCALE C NTSØA3 No. REL NO.	DURT	DATE 06.09.18 IS No. 03 The Whitel 3elvedere .ondon SE 020 7202	A DWG No. 004 house Road 1 8GA 1400 2 1401 k.com

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