

# 17 Strategies and schedules Area Plans/Height plan

The site plan opposite shows the number of storeys and building heights for both the proposed and retained buildings on the site.

### BUILDING SCHEDULE FLOOR AREA GIA (SQM)

	Existing GIA Retained	New Build GIA	Proposed Total GIA
Kneller Hall	3928.1	221.8	4114.5
Guards House	465.5	0	465.5
Band Practice Hall	230.7	129.3	366.0
Teaching Block	0	5069.0	5069.0
Sports Centre	0	2977.2	2977.2
Sports Pavilion	0	305.4	305.4
Energy Centre	313.8	109.6	413.4
Storage Hut	45.7	0	45.7
Total		8812.4	13756.0

### STOREYS & GROSS INTERNAL AREAS - SUMMARY (SQM)

	Existing Footprint	•	Demolished Footprint	Existing GIA*	Proposed GIA	Demolished GIA
Whole site	4550	7194	3031	9811.2	13756	4862.8
In MOL	1149	538	977	1031.7	484	905.1

\*GIA for existing buildings assumption calculated 90% GEA





# 17 Strategies and schedules *Green Roof Strategy*

Across the site the proposed new buildings, the teaching building, sports centre and sports pavilion, and the extension to Kneller Hall will have green roofs.

There will be 2938 sqm of green roof over the whole site covering 70.02% of the proposed new build roof area of 4196 sqm.

This will add to the biodiversity of the site, more detail of this is found in the associated landscape design and access statement.





## 17 Strategies and schedules *Community Use*

Dukes Education is keen to have community access to the site outside of school hours. This community use can be divided into two groups; regular use of sports facilities and occasional use for events.

### Future community use would include:

- + Sports club use of:
  - Outdoor Grassed Pitches: Rugby and Football
  - Astroturf Pitch
  - Two Tennis Courts
  - Basketball and Netball Court
  - Sports Pavilion with Changing Rooms, Club Room, Storage and Toilets
  - Cricket Pitch, in the Summer
  - Indoor Swimming Pool
  - Four Court Sports Hall with Changing Facilities
- + Local Schools Access to Forest School
- + Access to the Chapel as Part of the Open House Festival
- + Opportunity to Hire the School Hall
- + Invitations to Local Residents to Concerts, Plays and other events







# 17 Strategies and schedules *Security*

The principle of the site security is based a secure line to the site boundary utilising the existing listed perimeter wall used by the Royal Military School of Music. Two main entrances and a third entrance only for staff and deliveries reduces the number of access point which will need to be over seen. A second line of security win be based on each building with fob access into buildings based on student and staff cards.



Main secure line based on boundary wall and fencing

Secondary security line - Fob controlled access to buildings

Staff & delivery vehicle entrance point

--- Parent & visitor vehicle entrance

--> Pupils & general public entrance point

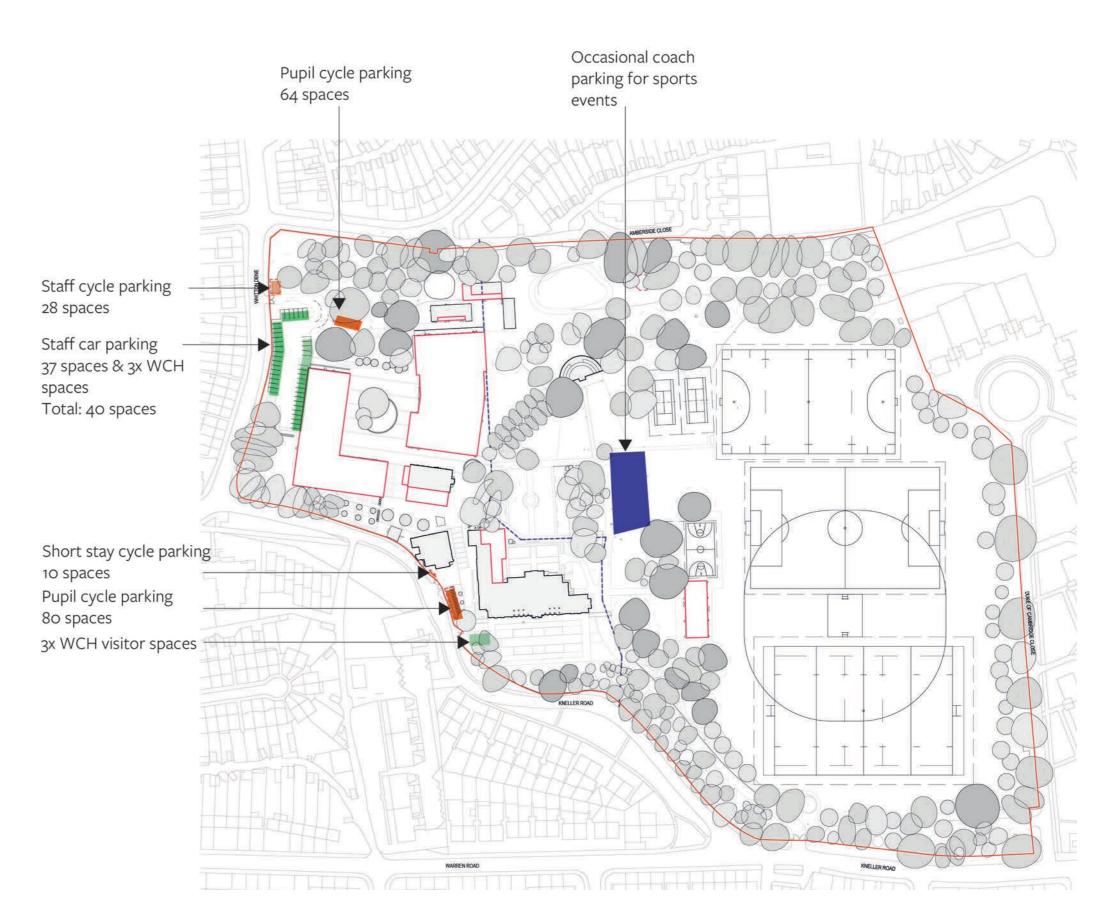




# 17 Strategies and schedules *Parking Strategy*

Parking on site will be managed with 40 staff spaces, including 3 WCH user parking spaces, accessed off Whitton Dene. 3 further WCH user visitor spaces are proposed to the side of the parade ground within easy distance of the main entrance to Kneller Hall building.

Cycle use will be promoted for both students and staff with 144 spaces in two bike store available for students and a further 28 for staff housed in a separate store. 5 Sheffield stands will provide 10 visitor cycle parking space.





### 17 Strategies and schedules

Waste Strategy

On site waste will be collected via an external private waste collection service. To reduce traffic movements across the site waste generated on site will be collected in two bin stores on close to the kitchen which will generate a large proportion of the on site waste as well as a second within the energy centre and maintenance compound to the north of the site. Both locations are accessible via refuse truck via the Whitton Dene access without the truck crossing the centre of the site.

The capacity of the bin stores across the site is based on the LBoRuT refuse guidance which sets out a requirement for 2.6 cubic metres of waste storage should be provided for every 1,000m2 gross floor space. For this proposal that equates to 33.2774 cubic metres or 33277 litres.

Total bin store capacity = 18+13 Eurobins (1100L each)

= 31X1100L

**= 34100L** (of which 17600L is reserved for recycling)

This exceeds the required capacity set out in the Local plan.



Bin collection route



Secondary bin

store: Capacity 13 x

Floorplan of secondary bin store, nts

WORKSHOP

LAWNMOWER GARAGE



# 17 Strategies and schedules Schedule of Accommodation

Pupil Numbers: 1000 total (8FE)

					Location of propos	ed accommodation
Accommodation				Notes	Listed buildings	New Buildings
	No.	≈ Area (m2)	Total (m2)			
Basic Teaching Area						
General Teaching Spaces						
General Classroom	22	53	1163	General classrooms located in new teaching block to all area guidelines to be followed	Kneller (7 no.)	New teaching block (15 no.)
General Classroom (6th form)	10	Varies	323		Kneller	
Seminar Room	3	Varies	100		Kneller (2 no.)	New teaching block (1 no.)
ICT / Business Studies						
ICT	4	74	293			New teaching block
Practical Learning Spaces / Science						
Science Laboratory	8	80-100	685			New teaching block
Art						
General Art Room	3	100	295	Art preferred on top floor	Kneller	
Music & Drama						
Music Classroom Drama Studio	3 1	35-77 227	150 227	Includes digital music & recording.  Drama studio / Performance space	Guards House Band Practice Hall	
Design & Technology						
DT	4	80-100	341	Ground floor		New teaching block
TOTAL Basic Teaching Area			3577			
						-



Accommodation				Notes	Listed buildings	New Buildings
Halls / Dining / PE Zone						
Main Hall	1			Provided within Band Practice Hall (Drama) Retractable seating included	Band Practice Hall	
Chapel	1	90	90	Existing - FF of Kneller	Kneller	
Knellerup' Lecture Theatre	1	103	103	Existing - GF of Kneller	Kneller	
School Sports Hall (4-court)	1	700	700	Retractable seating included		New sports building
Activity Studio	1	122	122	First floor level of Sports building		New sports building
Fitness Studio	1	100	100	First floor level of Sports building		New sports building
Swimming pool	1	545	545			New sports building
Cricket pavilion	1	292	292	4 no. changing rooms for external pitches - student & community use		New pavilion
Dining & Social Areas						
Dining Area	1	462	462	3 sittings		New teaching block
Social Space (6th form)	1	70	70	o ottimigo	Kneller	rew teaching block
Café	1	58	58	Staff, students & visitors	Kneller	
Bar / Flexible space	1	60	60	Staff, students & visitors	Band Practice Hall	
TOTAL Halls / Dining / PE Zone			2602			
Learning Resource Areas						
Learning Resource Areas						
Library Resource Center	1	190	190		Kneller	
Study Area (6th form)	2	Varies	55		Kneller	
Break-out space	2	Varies	135			New teaching block
Creative Arts						
Music Practice / Group Rooms	7	10	72	Sound proofing reqs TBC	Guards House	
Control Room (recording)	2	13	26	Sound proofing reqs TBC	Guards House	
Green room (Drama)	3	10	30		Band Practice Hall	
SEN & Support spaces						
Learning support	1	24	24		Kneller	
Pastoral office	1	80	80			New teaching block
TOTAL Learning Resource Areas			612			



Accommodation				Notes	Listed buildings	New Buildings
Staff & Administration Zone						
Staff & Administration Areas						
Staff Work Room	3	Varies	95		Kneller	
Staff Room (social) Conference / Meeting Room	2 1	Varies 32	129 32		Kneller	New teaching block
	-				initelie.	
Admin Suite						
Head's Office (meeting room)	1	36	36		Kneller	
Admin Office  Formal entrance hall	1 1	42 72	42 72	Existing - GF of Kneller	Kneller Kneller	
Sick bay / Nurse / First Aid	3	7-14	31		Guards House	
Offices						
Meeting room	1	32	32		Kneller	
Security offices	3	15	47		Guards House	
Staff offices	3	15	104			
TOTAL Staff & Administration Zone			620			
Storage Zone						
Teaching Storage						
General Teaching Store	3	Varies	32			
Science Prep Room & Chemical Store	2	45	91			
Multi-materials Store / Prep Room	1	41	41			
PE Stores (sports hall)	4	Varies	144			
Non-teaching Storage						
Retractable seating (Sports hall)	1	30	30			
Dining store (chairs)	1	28	28			
Cleaner's Store			10			
TOTAL Storage Zone			376			



Accommodation				Notes	Listed buildings New Buildings
Non-net Area					
Kitchen					
Kitchen, prep & stores etc Servery	1 1	189 80	189 80		New teaching block New teaching block
Toilets (and personal care)					
Sports Hall / Pool Changing & WCs Sports Pavilion Changing & WCs WCs & DWCs	7		416 320	Included above Staff, Pupils, Visitors, DWCs	New sports building Pavilion
Plant					
Plant & risers Energy Centre			194 157		Energy Centre
Circulation					
Corridors, stairs & lifts Internal partitions (Nom 5%)			2085 550	Approx.	
TOTAL Non-net Area			3991	•	

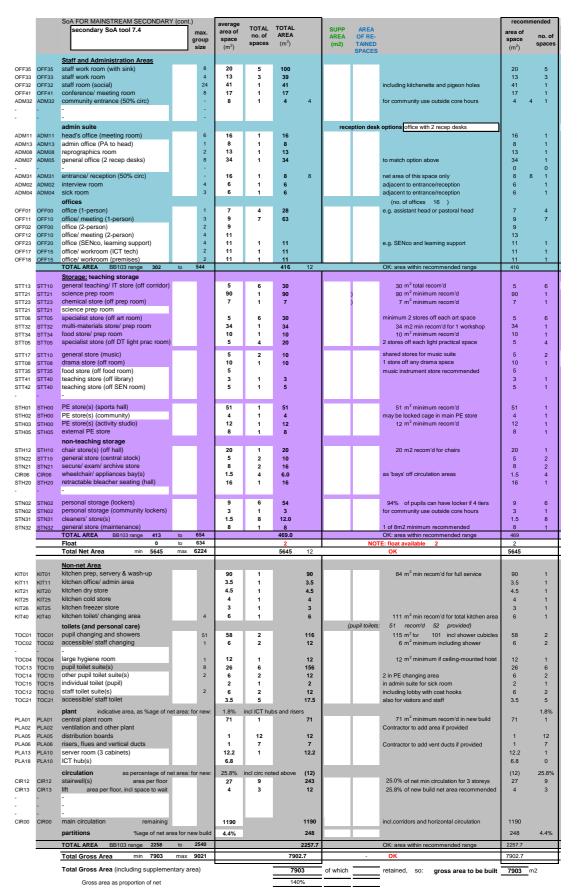
SUM TOTAL 11778



### 17 Strategies and schedules DFE Calculator

The Department for Education calculator shown opposite is a design tool used to develop an early schedule of accommodation based on the number of pupils a school will be designed to accommodate. This informed early discussions with the school on what ADP were to design into the school proposals. As a private school some of the spacial requirements of the school and Dukes Education are different from those set out in this calculator.

		SCHEDULE OF ACCOMMODATION F	FOR ANY MAINS	STREAM SE	CONDARY S	SCHOOL			1	/ersion 7.3	Mar 2018
		date age range 11-16		secondary	SoA tool 7.4	1				as a chec	k, if new:
		check age range and places  6 FE	years	net capa	ncity		1	site: a	area (m²) type ample site	net ca	pacity
810 0		classes of 11 to 16 places 810 27 16 to 19 places 200	5		A below = 10		NOTE: ove	er capacity	number of storeys: 3-storey	for recomn SoA below	
0.0%		Total Mainstream Places 1010		1021	potential range to 113				existing buildings to be: some retained		to 1135
			new (;			-	•		float if min net not over min gross		
ADS	Parent ADS code	Additionally resourced places for:	max. group	average		TAL NON-	] <sub>eupp</sub>	AREA		recomr	nenaea
Final AI code	rent. de	- SEN	max. group size (for size	area of space		REA AREA	SUPP AREA	OF RE- TAINED	curriculum C: typical	area of space	no. of
i	₽ 8	curriculum analysis data manual	of space)	(m <sup>2</sup> )	spaces (r	m²) (m²)	(m²)	SPACES		(m²)	spaces
		Basic Teaching Area									
		general teaching spaces classrooms 0	1		(27)		Ι,	classroom	options all standard except post-16		(27)
CLA02		seminar room	22	41		32			-	41	2
CLA12	CLA12	general classroom	30	55	25 1	375			55 m2 standard size for 30 pupils 62 m2 standard size for 30 pupils	55	25
-	-	-									
-	-	ICT/ business studies 0			(5)						(5)
CLA32	CLA32	ICT-rich classroom	30	62	(5) 4 2	48			62 m2 standard size for 30 pupils	62	(5) 4
CLA42	CLA42	ICT/ business studies room	30	62	1 (	62			standard size	62	1
-	-	practical learning spaces									
		science 0			(8)			science	options all standard labs + post-16		(8)
SCI02 SCI05	SCI02 SCI05	science studio general science laboratory	30 30	69 83	6 4	98			83 m2 standard size for 30 KS 3-4 pupils	83	6
	SCI11	specialist science laboratory	30	90		80			for post-16 chemistry, biology and physics	90	2
-	-	- -									
		art 0			(3)						(3)
DAT02		general art room	30	83	2 1	66			83 m2 standard size for 30 pupils	83	2
DAT03	DAT03	3D art room -	30	97	1 !	97			97 m2 standard size for 30 pupils	97	1
		music and drama			(2)						(2)
	PER02	music classroom	30 30	62	1 (	62			62 m2 standard size for 30 pupils	62	1
	PER02 PER15	extensive music classroom drama studio	32	69 90	1 9	90			69 m2 standard size for 30 pupils 90 m2 standard size for 30 pupils	90	1
PER08	PER08	music recital/ drama studio	30	83					83 m2 standard size for 30 pupils		
DAT43	DAT42	design and technology resistant materials workshop (single)	24	104	(4) 1 1	04			104 m2 standard for 24 if one space	104	(4) 1
	DAT35	food room (single)	24	104	1 1	04			104 m2 standard for 24 if one space	104	1
	DAT22 DAT25	graphic products constructional textiles	25 25	83 83		B3 B3			83 m2 standard size for 25 pupils 83 m2 standard size	83 83	1
-	-	-		"					oo mz standard size		
-	-	- -									
		PE basic teaching spaces 0	All PE Spaces		(3)						(3)
-	-										
		TOTAL AREA BB103 range 2989	to <b>3542</b>		3:	234			OK: area within recommended range	3234	
HAI 02	HAL01	<u>Large spaces</u> : halls and indoor PE main hall (secondary, with bleachers)	313	197	1 1	97		main hall	options hall with bleacher seating 0% of pupils eating cold food at lunch	197	1
HAL03 SPH03	SPH00	school sports hall (3-court)	168	504		04			recommended: school sports hall (3-court)	504	1
ACT06	ACT05	activity studio (10 x 12)	30	120	1 1	20			recommended: activity studio (10 x 12) dining 60 mins in dining area and hall	120	1
		Dining and Social Areas							272 m² min. recom'd for all pupils dining		
DIN01	DIN01	dining area(s)	284	272 104		72			102% of pupils incl 33% eating hot food	272	1
DIN05	DIN04	social space (sixth form) -	93	104	1 1	04			recommended: social space (sixth form)	104	1
-	-	TOTAL AREA BB103 range 981	to 1377		1.	197			OK: area within recommended range	1197	
		Total timetabled spaces			(52)				one and minimize commended range		2
LIBOS	LIDOS	Learning Resource Areas library resource centre	57	152		52			130 m <sup>2</sup> minimum recommended	152	
	LIB05 LIB06	study area (sixth form)	37	62		52 62			60 m2 minimum recommended	62	1
-	-	-	-						50 III2 IIIIIIIIIIII TEOUTIIIIEIUGU		
RES21	RES21	creative art kiln room	-	4	1	4			4 m <sup>2</sup> minimum in new build	4	1
RES12	RES12	music practice/ group rooms	3	8	2	16			8 m <sup>2</sup> standard size	8	2
RES13 RES14		extensive music practice room control room (recording)	7	16 8	1	16			16 m2 minimum in new build 8 m2 minimum in new build	16	1
RES16		control room (lighting/ audio)	2	6	1	6			6 m2 minimum in new build	6	1
-		SEN and support spaces									
SEN11		SEN therapy/ MI room	4	12		12			12 m2 min recommended	12	1
SEN01 RES02	SEN01 RES00	SEN resource base small group room	7 4	16 9		16 27			group room suitable for SEN/ multi-agency FLA etc.	16 9	1 3
RES03	RES00	medium group room	6	12							
RES04	RES00	large group room (SEN etc) -	8 -	16	1	16				16	1
-	-	TOTAL ADEA DOLOG	-			27			OV. sees within	007	
		TOTAL AREA BB103 range 327	to <b>503</b>		3	27			OK: area within recommended range	327	





17 Strategies and schedules
Existing and Proposed Floorspace figures by Use Class





### FLOORSPACE BY USE CLASS (EXISTING)

UseClass	GIA (m²) *
C2	9811.19
F1	0

### \*GIA for existing buildings assumption calculated 90% GEA

### FLOORSPACE BY USE CLASS (PROPOSED)

UseClass	GIA (m²) *
C2	0
F1	13756.58