#### » 07 / DESIGN APPROACH

The trends and themes described above have some specific implications on the design of lab spaces, as designers rise to the challenge of meeting the future needs of the fast-growing and constantly evolving science sector.

Facade design may need to respond to the increasing desire for "science on show" while fulfilling high building performance requirements. Adjacencies of different relevant functions must be captured and connectivity provided, along with encouraging the "chance encounter". Space provision for the building

in operation must be worked through with appropriate areas for loading bays, storage and facilities management incorporated into the design.

Provision of flexible space will offer the potential for future conversion and allow users to flex between wet and dry lab space. Testing the layouts for potential usage options at an early stage allows the team to make a considered economic provision for central plant, with strategies for locally flexing the provision as usage proportions change.

Overprovision of services does not benefit the scheme economically or strategically, adversely affecting floor heights, plant sizes and capital cost.

The location of plant needs careful consideration to permit use of vibration-sensitive equipment associated with life science. Early identification of zones where low vibration can be easily safeguarded helps define equipment zones and influences plant locations. Providing sufficient distance between fume extract requirements and intake locations adds further

constraints. Defining an economic but agile strategy early in the project allows the optimum solution to be achieved for services, structure and architecture.

The structural solution needs to respond to floor-loading requirements to keep the building's use flexible over its lifespan and to meet localised vibration criteria requirements. The structural layout could be developed to set a rational grid that responds to design efficiencies, while at the same time creating swing space for laboratory or office planning modules.

## 08 / ABOUT THE COST MODEL

The cost model is based on the following:

- A standalone, eight-storey plus half-basement new-build laboratory building in central London housing a combination of biology, chemistry and digital labs with adjacent offices and write-up space. The building is designed with inherent flexibility to enable the relative proportions of laboratory and office space to flex over the life of the building. The laboratory space comprises one-third dry labs and two-thirds wet labs to containment level two, CL2.
- For the purposes of setting a notional budget, the cost model assumes a shell and core construction by a developer ready for occupation and fit-out by a single tenant. The shell and core includes the substructure, superstructure, facade, and the arrival/lift lobby/WC/back-of-house fit-out together with central plant and distribution for core MEP services. All other fit-out is included in the ranges shown for tenant fit-out.
- The shell and core includes a raft foundation with secant pile basement perimeter wall, in-situ concrete ground and upper floor slabs, in situ concrete frame

to cater for loadings and vibration requirements, curtain wall facade, reinforced concrete roof slab to cater for rooftop plant.

- The MEP element of the cost model is based on a central air plant services strategy with typical cooling, heating and ventilation loads. The shell and core includes plant, equipment and system distribution to occupied areas to facilitate the extension of the fit-out requirements by the tenant. The shell and core cost model includes drainage, central hot and cold water supplies, modular condenser boilers, space heating, air treatment, ventilation, electrical and protective systems. Special life science implications are limited to notional shell and core allowances for limited laboratory area MEP services infrastructure. Medical gases and compressed air systems are included as an allowance subject to specialist design and costing.
- The majority of the mechanical plant is on the roof, restricting use of the basement to water storage and main electrical plant. Rooftop mechanical plant gives

the advantage of fresh air intake at high level and immediate access to heat rejection air.

- The fit-out ranges allow for wall, floor, ceiling finishes, raised access floors where appropriate, fixed furniture and fittings, including benching, fume cupboards, cold rooms. Loose furniture and special equipment is excluded. Services include fit-out of space with enhancements for dedicated ventilation, gases and water for laboratory environment.
- All rates are base date Q1 2019
- Exclusions from this cost model include fees, VAT, demolitions, site clearance, external works, incoming utilities, section 106/278, CIL payments and the like.

## Areas

- Vibration sensitive laboratories: 462m²
- Laboratories: 6,040m²
- Office/hub space/meeting suite/cafe fit-out: 4,077m²
- Lift lobbies/reception areas: 836m²
- Plant, WCs, circulation, back-of-house: 3,955m²
- Total GIA: 15,370m²

#### 09 / COST MODEL

_	Element cost (£)	Cost/m² GIFA	% total cost	_	Element cost (£)	Cost/m <sup>2</sup> GIFA	% total cost
SUBSTRUCTURE Enabling works (breakout slab; beams;	3,710,000	241.36	7.47	Ground floor slab (250mm flat slab including formwork and reinforcement)	520,000		
temp works / propping etc	347,000			Below-slab drainage (including allowance for			
Piling mat (including disposal), for basement				additional drainage for wet labs)	130,000		
secant piling only	65,000						
Secant piling to perimeter (750mm-diameter				SUPERSTRUCTURE	18,810,000	1,223.73	37.89
piles, including guide wall and capping beam	1,360,000			Frame and upper floors	6,010,000	391.00	12.10
Cavity drainage and blockwork liner wall	170,000			Reinforced concrete frame; 6.8x8.5m grid;			
Excavation including disposal	423,000			concrete core and concrete columns and beams	3,074,000		
Raft slab (1.5m deep) including hard-core,				300mm reinforced in-situ concrete upper floors	2,873,000		
reinforcement, insulation, dpm	650,000			Extra over for riser grillages (2.5% of GIA)	58,000		
Extra over for forming lift pits	40,000						

# 09 / COST MODEL (CONTINUED)

Section   Sect	_	Element cost (£)	Cost/m <sup>2</sup> GIFA	% total cost	El-	ement cost (£)	Cost/m² GIFA	% total cost
Feature participants on Official hobis press   1,170,000   1,170	Stairs	340,000	22.12	0.69	ductwork distribution serving floors			
Second	Dogleg staircases including handrails and balustra	ades 285,000			Ventilation	1,432,000		
Secretary   Secr	Feature staircases to office/hub areas				WC, basement ventilation, mechanical smoke			
Marcia	(excluded - in tenant fit out rates)							
Marcal	Sundry access	50,000				2,321,000		
Solution								
Company   Com			76.12	2.36				
Allowance for grillage above more plant agrees   \$40,000   Allowance for congressed air system   \$20,000   Allowance for par	Inverted roof system with insulation;	390,000				23,000		
Allowance for grillings above not plant space   \$30,000   \$30,00					Gas distribution to boilers			
Statemal walls					_			
Curtain walling to office and leboratory floors	Allowance for grillage above roof plant space	520,000						
Extra over for ground floor reception glacing								
Extra over for from definition completing logizing			618.05	19.13		507,000		
Fire detection and alarm, valice alarm,   Seeching doors   200,000   200,						4.044.000		
Reculting cloars   200,000   10,000						1,214,000		
DAD pass doors								
Prime cupboards, MRI or similar implications accluded	_	,						
Delivery ontrance	•				· ·			
Modu								
LIFTS	•							
Internal walls and doors to form lift lobbies, risers, WCs and shell space   1,655,000   1,645   1,000   1,					Neriewables - allowarice	330,000		
Internal walls and doors to form lift lobbies, risers, MCs and shell space of 1,655,000   116,45   1,36,000   116,45   1,36,000   116,45   1,36,000   116,55,000   116,55,000   116,500   116,5000	Bivio	200,000			LIFTS	890.000	57.90	1.79
Extra over for fire-fighting controls to 1nr passenger lift	Internal walls and doors	1.790.000	116.45	3.61			07.00	2.70
Final Residual Resi		_,, ,						
Fine-fighting lift to secondary core   220,000   220,0	· ·	1,655,000						
MITH SERVICES   750,000   48.79   1.50		136,000				220,000		
MITH SERVICES   750,000   48.79   1.50	FINISHES & FITTINGS	2.260.000	147.03	4.55	BUILDER'S WORK IN CONNECTION			
Allowance for BWIC; enhanced performance criteria   750,000   7	Arrival/reception fit-out; double-height space				WITH SERVICES	750,000	48.79	1.51
PRELIMINARIES   5,700,000   370.83   11.48   18.0000   18.000   18.000   18.000   18.0000   18.000   18.0000   18.000   18.00000   18.00000   18.00000   18.00000   18.00000   18.00000   18.00000   18.00000   18.00000   18.00000   18.00000   18.000000   18.000000   18.0000000   18.000000000000000000000000000000000000		238,000			Allowance for BWIC; enhanced performance criteria	750,000		
Main contractor preliminaries @15%   5,700,000   5,7	WC fit-out - self-contained unisex bathrooms	613,000						
Allowance for shower and bike space fit-out (20 bike spaces, 2 showers)	Finishes to plant rooms	90,000			PRELIMINARIES	5,700,000	370.83	11.48
Allowance for escape stair and back-of-house finishes 874,000 Fit-out to net internal areas/usable space - excluded, by tenant, see fit-out ranges below 0 89.78 2.78  M&E / PUBLIC HEALTH INSTALLATIONS 11,600,000  M&E / PUBLIC HEALTH INSTALLATIONS 11,600,000  Sanitaryware 0 CONTINGENCY 2,360,000 153.54 4.75  Excluded (included in fittings and finishings above)  Disposal installation 489,000  Rainwater disposal, soil waste/vent to WCs based on all WCs comprising self-contained unisex bathrooms  Water installation 423,000  MCWS storage, hot and cold water distribution to self-contained unisex bathrooms  Heat source 142,000  Gas-fired condensing boiler, based on heat load of 90W/m², 3 x 450kW, flues from basement 5powling load based on 150W/m², roof mounted, air-cooled chillers, 3 x 1,000kW, chilled/low-temp fitted of the fit-out from shall, including gate fit-out (4,077m²) £1,400 to £1,650/m² £5.7m-£6.7m water distribution. Handling unit to office and hub	-	18,000			Main contractor preliminaries @15%	5,700,000		
Risk Main contractor design and build risk @30, 1,380,000 89.78 2.78  M&E / PUBLIC HEALTH INSTALLATIONS 11,600,000 52 23.36  Sanitaryware 0 CONTINGENCY 2,360,000 153.54 4.75  Excluded (included in fittings and finishings above)  Disposal installation 489,000  Rainwater disposal, soil waste/vent to WCs based on all WCs comprising self-contained unisex bathrooms  Water installation 423,000  MCWS storage, hot and cold water distribution to self-contained unisex bathrooms  Heat source 142,000  Gas-fired condensing boiler, based on heat load of 90W/m², 3 x 450kW, flues from basement  Space heating 2,580,000  Z,580,000  Allowance for vibration sensitive lab fit-out (462m²) £6,250-£6,750/m² £2.9m-£3.1m  Space heating (2,580,000) Allowance for fice/hub space/meeting suite /cafe fit-out from shell, including cat A fit-out (4,077m²) £1,400 to £1,650/m² £5.7m-£6.7m  water distribution. Handling unit to office and hub	(20 bike spaces, 2 showers)	50,000			OHP	2,190,000	142.48	4.41
RISK Main contractor design and build risk @3% 1,380,000 1,380,00	Allowance for escape stair and back-of-house finis	shes 874,000			Main contractor OH&P @5%	2,190,000		
M&E / PUBLIC HEALTH INSTALLATIONS 11,600,000 754.67 Sanitaryware 0 CONTINGENCY 2,360,000 153.54 4.75 Excluded (included in fittings and finishings above)  Disposal installation 489,000 Rainwater disposal, soil waste/vent to WCs based on all WCs comprising self-contained unisex bathrooms  Water installation 423,000 MCWS storage, hot and cold water distribution to self-contained unisex bathrooms  Heat source 142,000 Gas-fired condensing boiler, based on heat load of 90 W/m², 3 x 450kW, flues from basement  Space heating 2,580,000 2,580,000 MCW storage had based on 150W/ m², roof mounted, air-cooled chillers, 3 x 1,000kW, chilled/low-temp water distribution. Handling unit to office and hub  Main contractor design and build risk @3% 1,380,000 1.3230,000 MCONTINGENCY 2,360,000 1.53.54 4.75 CONTINGENCY 2,360,000 1.53.54 4.75 Design reserve/contingency @5% 2,360,000 7.53.60,0	Fit-out to net internal areas/usable space -							
M&E / PUBLIC HEALTH INSTALLATIONS 11,600,000 754.67 23.36  Sanitaryware 0 0 CONTINGENCY 2,360,000 153.54 4.75  Excluded (included in fittings and finishings above)  Disposal installation 489,000 Rainwater disposal, soil waste/vent to WCs based on all WCs comprising self-contained unisex bathrooms  Water installation 423,000 MCW storage, hot and cold water distribution to self-contained unisex bathrooms  Heat source 142,000 Gas-fired condensing boiler, based on heat load of 90W/m², 3 x 450kW, flues from basement Space heating 2,580,000 2,580,000 Spower fire out (6,040m²) £2,800-£3,600/m² £16,9m-£21.7m  Cooling load based on 150W/ m², roof mounted, air-cooled chillers, 3 x 1,000kW, chilled/low-temp water distribution. Handling unit to office and hub  Total CONSTRUCTION COSTS 49,650,000 3,230.01 100.00  Total CONSTRUC	excluded, by tenant, see fit-out ranges below	0			RISK		89.78	2.78
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	2 x 3m³/s, laboratory air handling unit 3 x 8m³/s,					, ,		