CBS - IN-VIVO

London Institute of Medical Sciences 1802.01 Medical Research Council (MRC) ROOM CRITERIA SHEET

abell nepp Issued: 23 Feb 2018

	Desription of Lab and its ope	erations			CBS Procedure Roc First Floor
ENERAL	Nominal Area 11 nsm	Occupants tbc	Hours in Use Full 24 hour use	Equality Act Compliance Compliant	Natural Light Not Acceptable
Laboratories Only:	Containment ACDP CL2	<u>Fumigation</u> No	Safety Risks Biological	-	-
RCHITECTURAL Sound Attenuation					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
_	See arch. note below	See arch. note below	Type	Door + Half Leaf	
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	
Construction	50mm Screed		Operation	Swinging	
Floor Finish	Vinyl	<u>- </u>	Door Material	Timber- Solid Core	<u> </u>
Skirting	150mm coved		Door Finish	HPL	-
			Frame Material	Timber	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	-
Construction	Blockwork		Locks	Key Lock& Thumb Turn	-
Finish	Sikaguard Coating	-	Closers	Closer	-
Protection	Wall + Corner Guards	-	Vision PnI	Vistamatic VP	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	
System	Special System		Other	Light-tight	
Finish	Special Details		Other	Light tight	
Features	Washable		Window Coverings	At Façade	Internal
Height	Washable	-	Type	Roller Blinds	internal
neight		-			<u> </u>
			Light Control	Solar & Grey-out	
Accessories (non-Lab)	Items	Notes	Operation	Manual	<u>-</u>
			Manifestations / Film	-	<u> </u>
Architectural Notes	reverse cycle experiments).	Room to be Home office comp	pliant for holding of rodents, 2	Shelf noise does not affect room occ 4/7 operation. Sound Attenual ar opening of leaf and half bety	tion: Acoustic consultant
Architectural Notes	reverse cycle experiments).	Room to be Home office comp n. Doors: ** Clear opening of fi	similar. Must ensure external pliant for holding of rodents, 2	noise does not affect room occ 4/7 operation. Sound Attenual	cupants (when used for tion: Acoustic consultant
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NGINEERING HVAC Temp (°C): Summer	reverse cycle experiments). advise on Sound Attenuation	Room to be Home office com n. Doors: ** Clear opening of fi stop light bleed.	similar. Must ensure external pliant for holding of rodents, 2	noise does not affect room occ 4/7 operation. Sound Attenual ar opening of leaf and half betu	cupants (when used for tion: Acoustic consultant
NGINEERING HVAC Temp (°C): Summer 220C	reverse cycle experiments). advise on Sound Attenuation to have peep holes only, to s Temp (°C): Winter 22oC	Room to be Home office comp. Doors: ** Clear opening of fitop light bleed. Drainage	similar. Must ensure external pliant for holding of rodents, 2	onsie does not affect room occ 4/7 operation. Sound Attenual ar opening of leaf and half bets Structural Loading	cupants (when used for tion: Acoustic consultant ween 1000-1200 mm. Do
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NGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC Ventilation. supply Comfort Cooling Humidity 504-15% RH Art Filtration	reverse cycle experiments), advise on Sound Attenuation to have peep holes only, to so the sound of the sound	Room to be Home office com, Doors: ** Clear opening of fi top light bleed. Drainage HDPE Chem Resist	similar. Must ensure external pliant for holding of rodents, 2	noise does not affect room occ. 4/7 operation. Sound Attenual ar opening of leaf and half bets. Structural Loading — Guipment — Data / AV / Comms Data / AV / Comms	cupants (when used for tion: Acoustic consultant ween 1000-1200 mm. Do
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NGINEERING HVAC Temp (C): Summer 220c Temp Tolerance ± 20c Ventilation, supply Comfort Cooling Humidity 504-1596 RH Mr Filtration F9 Supply Min Air Changes 17 AC/HR (Occupied) Piped Services	reverse cycle experiments), advise on Sound Attenuation to have peep holes only, to so the sound of the sound	Room to be Home office com Doors: **Clear opening of fitting light bleed. Drainage HDPE Chem Resist	similar. Must ensure external plant for holding of rodents, 2 util leaf 800 mm minimum. Ge	noise does not affect room occ. 4/7 operation. Sound Attenual ar opening of leaf and half bets. Structural Losding	cupants (when used for tion: Acoustic consultant ween 1000-1200 mm. Do
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Behavioural Procedure - Feeding Cage System

Lab Benching	Type	Benchtop Material	Depth	Notes	
	-	-			
	-		<u> </u>		
Other LF Elements	Above Lab Bench		Other Storage Units		
	-	-	-		-
	-	-	-	-	
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD,	PTD included)
	Dbl Sink- Epoxy (int)	Lab CW & HW	Lever Handle (mixer)	Splash Pnl & Dry Rack	-
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPN	1ENT (ASE*) refer to MRC li	st			
			* ASE = Architecturally (/Engine	ering) Significant Equipment	** O = Owner C = Contra
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	IVC Rack	Biodaq	4 units	16 cages	
			_		
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	-				-

Note: RCSs are preliminary, with detail to be agreed with the Users during RIBA Stage 3.

V1.00

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	15 nsm	tbc	Extended Hours	Compliant	Not Required
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	ACDP CL2	No	Biological	Noise	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Type	Door + Half Leaf	-
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Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	
Construction	Blockwork	Type I Not Osco	Locks	Key Lock& Thumb Turn	
Finish			Closers	Closer	
	Sikaguard coating				-
Protection	Wall + Corner Guards		Vision Pnl	Peep Hole Only	-
			Protection	Kick Plates	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Acoustic	-
System	Special System	-	Other	-	-
Finish	Special Details	-			
Features	Washable		Window Coverings	At Façade	Internal
Height	-		Type	Roller Blinds	-
			Light Control	Solar & Grey-out	
* · · · · · · · · · · · · · · · · · · ·	Items	Notes	Operation	Manual	
		Notes		IVIdIIUdi	
Accessories (non-Lab)					
Accessories (non-Lab)			Manifestations / Film		-
Accessories (non-Lab)	-				-
Architectural Notes	light tight and privacy shadir Doors: ** Clear opening of f	ng ideally on the glass when bl	Manifestations / Film Shelving (non-lab) Illing coatings to be Liquid Plasti inds open. Sound Attenuation: ear opening of leaf and half bet	Acoustic consultant to advise	on Sound Attenuation.
Architectural Notes	light tight and privacy shadir	ng ideally on the glass when bl	Shelving (non-lab) iling coatings to be Liquid Plasti linds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise	in this room needs to be on Sound Attenuation.
Architectural Notes	light tight and privacy shadir Doors: ** Clear opening of f	ng ideally on the glass when bli ull leaf 800 mm minimum. Cle	Shelving (non-lab) iling coatings to be Liquid Plasti linds open. Sound Attenuation:		in this room needs to be on Sound Attenuation.
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LABORATORY FURNITI	JRE				
Lab Benching	Type	Benchtop Material	Depth	Notes	
	Bench, Movable	Trespa Toplab Base	750mm -	-	
Other LF Elements	Above Lab Bench	· ·	Other Storage Units		
	-		-		-
	-		-	-	-
Lab Sinks	Sink Type	Water Source	Taps	Accessories (assume SD, P	TD included)
	Wash Hand Basin	Lab CW & HW	Hands-free (sonar)	Lab Safety Eye Wash	-
LABORATORY EQUIPM	IENT (ASE*) refer toMRC l				
			* ASE = Architecturally (/Engin	eering) Significant Equipment	** O = Owner C = Contrac
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	-				-
	· -				
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
					-
			-		

Note: RCSs are preliminary, with detail to be agreed with the Users during RIBA Stage 3.

V1.00

CBS - IN-VIVO

London Institute of Medical Sciences 1802.01 Medical Research Council (MRC) ROOM CRITERIA SHEET Behavioural Procedure - Laser Room - Optogenetics

abell nepp Issued: 23 Feb 2018

					CBS Procedure R First Floor
ENERAL					
ENERAL	Nominal Area 15 nsm	Occupants tbc	Hours in Use Extended Hours	Equality Act Compliance Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
,	ACDP CL2	No	Biological	Noise	-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. note below	See arch. note below	Type	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm**	-
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl	-	Door Material	Timber- Solid Core	-
Skirting	150mm coved		Door Finish	HPL	-
			Frame Material	Timber	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Painted	
Construction	Blockwork		Locks	Key Lock& Thumb Turn	
Finish	Sikaguard coating		Closers	Closer	-
Protection	Wall + Corner Guards		Vision Pnl	Peep Hole Only	-
Protection	Wall + Corner Guards	-			
			Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	
System	Special System	<u>- </u>	Other		
Finish	Special Details				
Features	Washable	<u> - </u>	Window Coverings	At Façade	Internal
Height	-	-	Type	Roller Blinds	-
			Light Control	Solar & Grey-out	-
Accessories (non-Lab)	Items	Notes	Operation	Manual	-
			Manifestations / Film		-
	-		ividilirestadoris / Tillir		
				Shelf	Notes
Architectural Notes	light tight and privacy shadin Doors: ** Clear opening of fi	ng ideally on the glass when bl	Shelving (non-lab) ling coatings to be Liquid Plasti inds open. Sound Attenuation: ar opening of leaf and half bets	Acoustic consultant to advise	on Sound Attenuation
	light tight and privacy shadin	ng ideally on the glass when bl	Shelving (non-lab) ling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise	n this room needs to b
Architectural Notes ENGINEERING HVAC	light tight and privacy shadin Doors: ** Clear opening of fi	ng ideally on the glass when bl	Shelving (non-lab) ling coatings to be Liquid Plasti inds open. Sound Attenuation:	- ic/Sikaguard or similar. Blinds i Acoustic consultant to advise	n this room needs to b
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NGINEERING HVAC Temp (°C): Summer 22oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity	light tight and privacy shading Joors: ** Clear opening of fixed plight bleed. Temp (°C): Winter 22oC Temp Variation + 2 oC Ventilation, exhaust General & Dedicated Air Pressure	g ideally on the glass when bit util leaf 800 mm minimum. Cle Drainage HDPE Chem Resist	Shelving (non-lab) ling coatings to be Liquid Plasti inds open. Sound Attenuation:	c-/Sikaguard or similar. Blinds Actoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading Equipment	n this room needs to b on Sound Attenuation b have peep holes only
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NGINEERING HVAC Temp.(2C): Summer 22oC Temp Tolerance 2 2OC Vernilation. susply Comfort Cooling Humidity 504-15% RH Air Filtration	light tight and privacy shading oboxes: **Clear opening of fitop light bleed. Temp (°C): Winter 22oC 22oC 22oC 24oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 45oHiston 42oC 45oHiston 45oH	ng ideally on the glass when bi utl leaf 800 mm minimum. Cle Drainage HDPE Chem Resist 	Shelving (non-lab) ling coatings to be Liquid Plasti inds open. Sound Attenuation:	Cikiaguard or similar. Blinds i Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading — Equipment — Data / AV / Comms —	n this room needs to b on Sound Attenuation b have peep holes only
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NGINEERING HVAC Temp (*C): Summer 22oC Temp Tolerance 1 2 OC Ventilation, supply Comfort Cooling Humstill Solv-135/8 RH Alir Filtration PS Supply Min Alir Changes 17 AC/HR (Occupied)	light tight and privacy shading oboxes: **Clear opening of fitop light bleed. Temp (°C): Winter 22oC 22oC 22oC 24oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 45oHiston 42oC 45oHiston 45oH	g ideally on the glass when bit utilities and the second of the sec	Shelving (non-lab) ling coatings to be Liquid Plastic inds open. Sound Attenuation: ar opening of leaf and half beth	Cikiaguard or similar. Blinds i Acoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading — Equipment — Data / AV / Comms —	n this room needs to b on Sound Attenuation b have peep holes only
NGINEERING HVAC Temp_CO: Summer 22oc Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity 504-15% RH Air Filtration F9 Supply Adin Air Changes 17 AC/HR (Occupied) Filed Services	light tight and privacy shading oboxes: **Clear opening of fitop light bleed. Temp (°C): Winter 22oC 22oC 22oC 24oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 45oHiston 42oC 45oHiston 45oH	g ideally on the glass when bit utilities and the second of the sec	Shelving (non-lab) ling coatings to be Liquid Plastic inds open. Sound Attenuation: ar opening of leaf and half beth	Cikiaguard or similar. Blinds i Accoustic consultant to advise ween 1000-1200 mm. Doors to Structural Loading — Equipment — Data / AV / Comms Data / AV / Comms — Digital Projection	n this room needs to b on Sound Attenuation b have peep holes only
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NGINEERING HVAC Temp[*C]: Summer 220c Temp Tolerance 2 20c Ventation, supply Comfort Cooling Bulleting Soly-1358 RH Air Effication F9 Supply Min Air Changes 17 AC/HR (Occupied) Piped Services Water Lab CW & HW Piped Services	light tight and privacy shading oboxes: **Clear opening of fitop light bleed. Temp (°C): Winter 22oC 22oC 22oC 24oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 44oHiston 45oC 44oC 44oC 44oC 44oC 44oC 44oC 44oC	g ideally on the glass when bit uit leaf 800 mm minimum. Cle Drainage HDPE Chem Resist Electrical Power Supply 2300, trunking Cleaners outlets Essential / Standby Power EM Interference Lighting	Shelving (non-lab) ling coatings to be Liquid Plastic inds open. Sound Attenuation: ar opening of leaf and half bets	C/Sikaguard or similar. Blinds i C/Sikaguard or similar. Blinds i Consults consultant to advise ween 1000-1200 mm. Doors to Structural Loading 	n this room needs to 1 on Sound Attenuation on Sound Attenuation on Sound Attenuation have peep holes only Vibration Criteria Alarm Systems
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NGINEERING HVAC Temp[*C]: Summer 220c Temp Tolerance 2 20c Ventation, supply Comfort Cooling Bulleting Soly-1358 RH Air Effication F9 Supply Min Air Changes 17 AC/HR (Occupied) Piped Services Water Lab CW & HW Piped Services	light tight and privacy shading oboxes: **Clear opening of fitop light bleed. Temp (°C): Winter 22oC 22oC 22oC 24oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 44oHiston 45oC 44oC 44oC 44oC 44oC 44oC 44oC 44oC	g ideally on the glass when bill leaf 800 mm minimum. Cle Drainage HDPE Chem Resist Electrical Power Supply 230V, trunking Cleaners outlets Essential / Stantby Power EM Interference Lighting Lighting Switching Single Control	Shelving (non-lab) ling coatings to be Liquid Plasts indo open. Sound Attenuation: or opening of leaf and half bet	C/Sikaguard or similar. Blinds in C/Sikaguard or similar. Blinds in C/Sikaguard or similar. Blinds in C/Sikaguard or similar to advise ween 1000-1200 mm. Doors to Continue to C/Sikaguard or C/Sikaguard or C/Sikaguard or Siraguard or C/Sikaguard or Siraguard or C/Sikaguard or Siraguard	n this room needs to 1 on Sound Attenuation on Sound Attenuation on Sound Attenuation have peep holes only Vibration Criteria Alarm Systems
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NGINEERING HVAC 1200 Temp (*C): Summer 2200 Temp Tolerance 2 200 Temp To	light tight and privacy shading oboxes: **Clear opening of fitop light bleed. Temp (°C): Winter 22oC 22oC 22oC 24oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 42oC 44oHiston 44oHiston 45oC 44oC 44oC 44oC 44oC 44oC 44oC 44oC	g ideally on the glass when bit uit leaf 800 mm minimum. Cle Drainage HDPE Chem Resist Electrical Power Supply 2300, trunking Cleaners outlets Essential / Standby Power EM Interference Lighting Lighting Lighting Switching Switching Switching Switching Single Control Other Lighting	Shelving (non-lab) ling coatings to be Liquid Plasts indo open. Sound Attenuation: or opening of leaf and half bet	C/Sikaguard or similar. Blinds in C/Sikaguard or similar. Blinds in C/Sikaguard or similar. Blinds in C/Sikaguard or similar to advise ween 1000-1200 mm. Doors to Continue to C/Sikaguard or C/Sikaguard or C/Sikaguard or Siraguard or C/Sikaguard or Siraguard or C/Sikaguard or Siraguard	n this room needs to 1 on Sound Attenuation on Sound Attenuation on Sound Attenuation on Sound Attenuation on the sound of

LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench		Other Storage Units	-	<u> </u>
Lab Sinks	Sink Type Wash Hand Basin	Water Source Lab CW & HW	Taps Hands-free (sonar)	Accessories (assume SD, PT Lab Safety Eye Wash	TD included)
LABORATORY EQUIPM	MENT (ASE*) refer toMRC I				
			* ASE = Architecturally (/Engin	eering) Significant Equipment	** O = Owner C = Contrac
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install** -
	Equipment	Name/Model	Quantity	Size	Furnish - Install**

Note: RCSs are preliminary, with detail to be agreed with the Users during RIBA Stage 3.

V1.00

Hawkins\Brown @ | 05.03.18 | 17034,180305_Stage02Report | RIBA Stage 2 Report 21

D Room Criteria S	hoote
D KUUIII GIILEIIA 3	HEELS

- D.1 General Room Criteria SheetD.2 Science Room Criteria Sheets

Room Criteria Sheets D

D.1

General Room Criteria Sheet

Hawkins\ Brown

Accommodation group/ Room name	Location/floor	Firsthea/ Regularments	no.	Further notes
Reception	_	Polished concrete floor. Exposed concrete		Secure line at
Reception	00	columns and soffit. High quality concrete finish. Bespoke joinery reception desk.		reception. Assume can operated barriers
Facilities manager Administration	00	Finishes TBC		
	1	Cellular offices - for indicative finishes refer		1
Head of department	07	to Cellular office spec. below.		
Administrator's office	07	Shared office space - for indicative finishes refer to write-up shared office spec below		
Accounts office	07	Shared office space - for indicative finishes refer to write-up shared office spec below		
Meeting and seminar	- 07	leila so write-up shared onice spec below		1
Large seminar space		120 person seminar space. Acoustic folding partition wall. Raised access floor. Acoustic		
targe seminar space	07	ceiling		
		Flexible meeting space adjacent to cellular offices on each typical floor. Assume similar		
Small flexible rooms		finishes to open-plan write-up shared office		
	02-06	Space Southern flexible meeting space for 6-12	_	
Large flexible rooms		persons. Assume similar finishes to cellular		
Cetering/social	02-06	office space		
		Polished concrete floor. Exposed concrete		
Café (incl. servery)		columns. High quality concrete finish. Acoustic ceiling. Built-in bespoke joinery		1
	07	servery		
External Terrace Staff offices	07	Hard-wood timber decking		
		High-quality finish to exposed concrete columns. Raised access floor, carpet finish.		Tea point on each floor
Open-plan office		Acoustic ceiling. Bespoke joinery to 'collaborative work zones'. Feature wall to		to be bespoke in-built
		'collaborative work zones'. Feature wall to include in-built storage solutions and glazed		piece of joinery with fire shutters to circulation
	02-07	partitions between write-up and lab spaces		side
Professor's offices		Raised access flooring, carpet finish.		
	02-07	Bespoke joinery. Painted plasterboard walls		
Circulation		Bespoke metal stair with metal balustrade		1
Main Stair	00-07	and handrail. Timber treads and risers		
Escape/ Access Stairs		2no. Concrete stair with metal balustrade & handrail. Exposed concrete soffit. Concrete/		
	00-08	fair-faced blockwork walls		
Tollete and cleaning		Unisex superion with sink in cubicle.		1
Typical WCs		Concealed cistern behind toilet. Tiled wall		
Central support	00-07	finish, linoleum flooring.		
Central store	00			
Goods-in		Concrete floor with exposed concrete soffit &		
	00	fair faced, dust sealed block work to walls		
Laundry	-	Refer to AN Room Criteria Sheets		
Maste store		Concrete floor with exposed concrete soffit &		
	00	fair faced, dust sealed block work to walls		
Gas compound	00	External secure compound. Refer to BH spec		
Media prep and store Washin / autor/lave		Refer to AN Room Criteria Sheets Refer to AN Room Criteria Sheets		_
Wash-up / autoclave Research leboratories	-			
Research labs	01-06	Refer to AN Room Criteria Sheets		
Distributed support Technician's offices	01-06	Refer to AN Room Criteria Sheets		
Tissue culture	01-06	Refer to AN Room Criteria Sheets		
Darkroom Equipment rooms	01-06	Refer to AN Room Criteria Sheets Refer to AN Room Criteria Sheets		
Hot room	01-06	Refer to AN Room Criteria Sheets		
Cold room Bioinformatios	01-06	Refer to AN Room Criteria Sheets		1
Bioinformatics laboratory		Assume similar finishes to open-plan write-		
M.E.P plant space	02-06	up office space.		+
	1			1
00 Plant	00	Concrete floor with exposed concrete soffit & fair faced, dust sealed block work to walls		1
	- 00			
01 Plant	01	Concrete floor with exposed concrete soffit & fair faced, dust sealed block work to walls		1
	- 01			1
07 Plant	07	Concrete floor with exposed concrete soffit & fair faced, dust sealed block work to walls		1
	0/			1
08 Plant	08	Concrete floor with exposed concrete soffit & fair faced, dust sealed block work to walls		1
	UG	THE HEAVY, WITH SMIRRY DIVIN WORK ID WHEN		1

D Room Criteria Sheets

D.2 Science Room Criteria Sheets

London Institute of Medical Sciences 1802.01 Medical Research Council (MRC) abell nepp Issued: 23 Feb 2018 ROOM CRITERIA SHEET PRIMARY WET LABORATORY (incl. Entry Equipment and Freezer Bay) Natural Light Desirable Occupants 27 nsm Hours in Use Extended Hours Equality Act Co Compliant ARCHITECTURAL Sound Attenuation Type 1
Door + Half Leaf
1200 mm *
Swinging
Glass/Metal Frame Type 2 Single Door 900 mm Swinging Glass/Metal Frame Floors
Construction
Floor Finish
Skirting

Partitions
Construction
Finish
Protection

Ceiling
System
Finish
Features
Height Type 1 - 100% Plasterboard & Skim Paint Wall + Corner Guards Type 2 - Not Used Kick Plates Type 2 - Not Used Shelf ENGINEERING
HVAC
Temp (°C): Summ
240C
Temp Tolerance
+ 20C Temo (°C): Winter
22oC
Temo Variation
± 2oC / Hour
Ventilation, exhaust
General & Dedicated
Air Pressure
Negative Airflow
Equipment
See Lab Equip Drainage HDPE Chem Resist Temp Tolerance
± 20C
Ventilation, supply
Comfort Cooling
Humidity
Not controlled
Air Filtration
F7 Supply (80-85%)
Min Air Changes Data / AV / Comms
Data / AV / Comms
Data
Data
Wireless
Digital Projection 4 Day (2 Night) /HR
Piped Services Lighting
Lighting
General Lighting
Switching
Single Control
Other Lighting 500 Lux
Detection
Daylight Detection
Ballast Type Lab CW (Cat 5)

Dom CW & HW Security / Life Safety Access Control Piped Services
Compressed Air
Nitrogen
Bottled Gases Fire Detection Smoke Detector DALI (Dimmable)

Emergency Ltg

Life Safety Task Lighting

LABORATORY FURNITI	ORATORY (incl. Entry	equipment und 110			Room ID:
Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes Supplier: Labflex	
Other LF Elements	Above Lab Bench Shelving, bench mtd		Other Storage Units		
	Services Dropper/Portal	-	under bench cupboard ur		-
Lab Sinks	Sink Type Sink- Epoxy (integral)	Water Source Lab CW (Cat 5)	Taps Lever Handle (mixer)	Accessories (assume SD, PT Splash Pnl & Dry Rack	D included)
	Wash Hand Basin	CW / HW	Hands-free (sonar)	Lab Safety Eye Wash	
LABORATORY EQUIPM	IENT (ASE*)		* ASE = Architecturally (/Engineer	ing) Significant Equipment *	* O = Owner C = Cont
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Fume Cupboard	TBC	1 unit	assume 900d x 1500w	Group 2 (OF-CI)
	Equipment	Name/Model	Quantity	Size	Furnish - Install**
	Freezer -80oC	TBC	3 units	assume -	Group 2 (OF-CI)

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Engineering Notes

D Room Criteria SheetsD.2 Science Room Criteria Sheets

OOM CRITERIA SHE					Danes ID:
ISSUE CULTURE (TC)					Room ID:
			roximately 3no per lab floor, ev	enly dispersed across the	Ploor: 2-6
	floor plate. (Total 280sm TC:	space in the building)			F1001 . 2-0
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	20 nsm		Extended Hours	Compliant	Desirable
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological		-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	NR 40 (tbc)	Type	Door + Half Leaf	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	1200 mm	
Construction	50mm Screed	-	Operation	Swinging	-
Floor Finish	Vinyl		Door Material	Glass/Metal Frame	
Skirting	150mm coved		Door Finish	-	
Januari B	130mm covcu		Frame Material	Metal	
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	ivictal	
Construction	Plasterboard & Skim	Type 2 - Not useu	Locks	Lock	
Finish	Paint & Skim		Closers	Closer	
Protection	Paint		Vision Pnl		
Protection				Large	
			Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals		
System	Accessible Grid	<u>- </u>	Other	<u>- </u>	<u>- </u>
Finish	Metal Tiles w/ PL marg				
Features	Wipeable		Window Coverings	At Façade	Internal
Height	TBC		Type	Roller Blinds	-
			Light Control	Solar & Grey-out	
Accessories (non-Lab)	Items	Notes	Operation	Manual Draw	-
	Coat Hooks	3 no.	Manifestations / Film	-	-
	-				
	-		Shelving (non-lab)	Shelf	Notes
			Shelving (non-lab)	Shelf -	Notes
Architectural Notes			Shelving (non-lab)	Shelf -	Notes
	-		Shelving (non-lab)	Shelf -	<u>Notes</u>
IGINEERING			Shelving (non-lab)		<u>Notes</u>
IGINEERING HVAC		Drainage	Shelving (non-lab)	Structural	
AGINEERING HVAC Temp (°C): Summer	Temp CC: Winter	Drainage HDPE Chem Resist	Shelving (non-lab)	Structural Loading	Notes Vibration Criteria
IGINEERING HVAC Temp (°C): Summer 24oC	20oC		Shelving (non-lab)	Structural Loading Lab, normal	
IGINEERING HVAC Temp (°C): Summer 240C Temp Tolerance	20oC Temp Variation	HDPE Chem Resist	Shelving (non-lab)	Structural Loading	
AGINEERING HVAC Temp (°C): Summer 240C Temp Tolerance ± 20C	Z0oC Temp Variation ± ZoC	HDPE Chem Resist - Electrical	Shelving (non-lab)	Structural Loading Lab, normal	
AGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 2oC Ventilation, supply	20oC Temp Variation ± 2oC Ventilation, exhaust	HDPE Chem Resist	Shelving (non-lab)	Structural Loading Lab, normal Equipment	
AGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 20C Ventilation, supply Comfort Cooling	200C Temp Variation ± 20C Ventilation, exhaust General Extract	Electrical Power Supply 230v, trunking	Shelving (non-lab)	Structural Loading Lab, normal Equipment	
AGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity	200C Temp Variation ± 20C Ventilation, exhaust General Extract Air Pressure	HDPE Chem Resist	Shelving (non-lab)	Structural Loading Lab, normal Equipment Data / AV / Comms	
AGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 20C Ventilation, supply Comfort Cooling	200C Temp Variation ± 20C Ventilation, exhaust General Extract	Electrical Power Supply 230v, trunking Cleaners outlets	<u> </u>	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	
AGINEERING HVAC Temp (°C): Summer 24oC Temp Tolerance ± 2oC Ventilation, supply Comfort Cooling Humidity	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	Electrical Power Supply 230v, trunking	Shelving (non-lab)	Structural Loading Lab, normal Equipment Data / AV / Comms	
IGINEERING HVAC Temp TCC Summer 240C Temp Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity Not controlled	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow	Electrical Power Supply 230v, trunking Cleaners outlets	<u> </u>	Structural Loading Lab, normal Equipment Southernet Data / AV / Comms Data / AV / Comms Data Wireless	
IGINEERING HVAC Temp (°Ct: Summer 240C Temp Tolerance ± 20C Yentilation, supply Comfort Cooling Flumidity Not controlled Air Filtration	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	Electrical Power Supply 230v, trunking Cleaners outlets	<u> </u>	Structural Loading Lab, normal Equipment Data / AV / Comms Data / AV / Comms	
IGINEERING HVAC Temp (*Ct; Summer 240C Temp Tolerance * 240C Temp Tolerance * 240C Ventilation, supply Comfort Cooling Humidity Not controlled Air ritration F7 Supply (80-85%) Min Air Changes	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	<u> </u>	Structural Loading Lab, normal Equipment Southernet Data / AV / Comms Data / AV / Comms Data Wireless	
IGINEERING HVAC Leme I**Ct Summer 240C Leme Location Leme Tolerance ± 20C Ventilation, supply Comfort Cooling Humidity Not controlled Air Filtration F7 Supply (80-85%) Min Air Changes A Day (2 Night) / RR	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power	<u> </u>	Structural Loading Lab, normal Equipment Data / AV / Comms Data / Comms D	
IGINEERING HVAC Temp (*Ct; Summer 240C Temp Tolerance * 240C Temp Tolerance * 240C Ventilation, supply Comfort Cooling Humidity Not controlled Air ritration F7 Supply (80-85%) Min Air Changes	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist	<u> </u>	Structural Loading Lab, normal Equipment Data / AV / Comms Data / Comms D	
IGINEERING HVAC Tenna (**CL: Summer 2400* Tenna (**CL: Summer 2400* Tenna Tolkrance Tenna	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Lighting	Special Electrical	Structural Identification Library Comman Identification Library Comman Identification Library Comman Data / AV / Comman Data / Comman Data / AV / Comman Data / Co	
IGINEERING HVAC Timen Timen Toll Summer 246C Timen Time	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist	Special Electrical	Structural Leading Lea	Vibration Criteria
IGINEERING HVAC Temp (Tr. Summer 246C Temp (20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Essential / Standby Power EM Interference Lighting Lighting General Lighting	Special Electrical Linux Levels SDO LIN	Structural Identification Library Comman Identification Library Comman Identification Library Comman Data / AV / Comman Data / Comman Data / AV / Comman Data / Co	
MOMESTING WYAC Jean (To, Summer 240C Jamp To Rement 1 20C Ventilation supply Hamility Mot controlled der Flantisc Sept (10-45%) Min All Changes Valle Labor (W. 10-45%) Min All Changes Mater	200C Immy Variation ± 20C Vernilation, exhaust General Extract Air Pressure Positive Airlow Equipment See Lab Equip	HDPE Chem Resist Electrical Power Supply 230v, trunking Cleaners outlets Excential / Standby Power EM Interference Lighting Lighting General Lighting Switching	Special Destrical Laux Levels 500 Lux Destension	Structural Leading Lea	Vibration Criteria
IGINEERING HVAC Tamp (Tc.) summer 240C Tamp (Tc.) summer 240C Tamp Tolerance 1 20C Ventilation, supply Comfort Cooling Not controlled Aur Fitzeline FF Supply (80-85%) Man Air Changes A Day (21 Might) /HR Piped Services Ventilation Domn CW & HW Pand Services Air Compressed Air	20oC Temp Variation ± 2oC Ventilation, exhaust General Extract Air Pressure Positive Airflow Equipment	HDPE Chem Resist Electrical Power Supply 2300, Trunking Gleaners outlets Essential / Standby Power EM Interference Lighting Lighting Switching General Lighting Switching Group Switched	Special Electrical Local Secretarian Source Control of Control o	Structural Identifies Lab normal Engineers Lab normal Lab n	Vibration Criteria
IGINEERING WYAC JAME JAME JAME JAME JAME JAME JAME JAME	200C Immy Variation ± 20C Vernilation, exhaust General Extract Air Pressure Positive Airlow Equipment See Lab Equip	HOPE Chem Resist Electrical Power's ignoble 2200, trunking Cleaners outlets Essential / Standby Power Lighting Lighting Lighting General Lighting Switching Group Switched Group Switched	Special Destrical Laux Levels 500 Lux Destension	Structural Insisting Libb, formal Libb, normal Libb, mormal Data / AV / Comms	Vibration Citleria
IGINEERING HVAC Tamp (Tc.) summer 240C Tamp (Tc.) summer 240C Tamp Tolerance 1 20C Ventilation, supply Comfort Cooling Not controlled Aur Fitzeline FF Supply (80-85%) Man Air Changes A Day (21 Might) /HR Piped Services Ventilation Domn CW & HW Pand Services Air Compressed Air	200C Immy Variation ± 20C Vernilation, exhaust General Extract Air Pressure Positive Airlow Equipment See Lab Equip	HDPE Chem Resist Electrical Power Supply 2300, Trunking Gleaners outlets Essential / Standby Power EM Interference Lighting Lighting Switching General Lighting Switching Group Switched	Secus Hestrical Jost Armeds 500 Los Detection Presence Detection Ballast Ivae	Structural Identifies Lab normal Engineers Lab normal Lab n	Vibration Citleria
IGINEERING WYAC JAME JAME JAME JAME JAME JAME JAME JAME	200C Immy Variation ± 20C Vernilation, exhaust General Extract Air Pressure Positive Airlow Equipment See Lab Equip	HOPE Chem Resist Electrical Power's ignoble 2200, trunking Cleaners outlets Essential / Standby Power Lighting Lighting Lighting General Lighting Switching Group Switched Group Switched	Jacob Flectrical Joseph State Levels 500 Ltu Description Descripti	Structural Issains London	Albert Systems
IGINEERING WYAC JAME JAME JAME JAME JAME JAME JAME JAME	200C Immy Variation ± 20C Vernilation, exhaust General Extract Air Pressure Positive Airlow Equipment See Lab Equip	HOPE Chem Resist Electrical Power's ignoble 2200, trunking Cleaners outlets Essential / Standby Power Lighting Lighting Lighting General Lighting Switching Group Switched Group Switched	Secus Hestrical Jost Armeds 500 Los Detection Presence Detection Ballast Ivae	Structural Leading Lea	Wheaton Criteria
IGINEERING WYAC JAME JAME JAME JAME JAME JAME JAME JAME	200C Immy Variation ± 20C Vernilation, exhaust General Extract Air Pressure Positive Airlow Equipment See Lab Equip	HOPE Chem Resist Electrical Power's ignoble 2200, trunking Cleaners outlets Essential / Standby Power Lighting Lighting Lighting General Lighting Switching Group Switched Group Switched	Jacob Flectrical Joseph State Levels 500 Ltu Description Descripti	Structural Issains London	Albert Systems

LABORATORY FURNIT	URE				
Lab Benching	Type Bench, H-Frame	Benchtop Material Trespa Toplab Base	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench Shelving, wall mtd	<u>-</u>	Other Storage Units -	<u>-</u>	-
Lab Sinks	Sink Type Sink- Epoxy (integral) Wash Hand Basin	Water Source CW Only CW / HW	Taps Lever Handle (mixer) Hands-free (sonar)	Accessories (assume SD, P Splash Pnl & Dry Rack	TD included)
Architectural Notes	MENT (ASE*)				
Architectural Notes	MENT (ASE*)		* ASF = Architecturally //Enginee	ring) Significant Equipment	** O = Owner C = C
	Extract Equipment	Name/Model	* ASE = Architecturally (/Enginee Quantity	ring) Significant Equipment Size	** O = Owner C = Co Furnish - Install* -
	Extract Equipment		Quantity Quantity 2 units		Furnish - Install* Furnish - Install* Group 2 (OF-C
	Extract Equipment	Name/Model	Quantity	Size	Furnish - Install*
	Extract Equipment	Name/Model	Quantity Quantity 2 units 2 double-stacked (4 no.)	Size	Furnish - Install* Furnish - Install* Group 2 (OF-C

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London Institute of Medical Sciences

D Room Criteria SheetsD.2 Science Room Criteria Sheets

DARKENABLE ROOM					Room ID:
					Dedicated Secon
	2no provided within the built	ding for specialist microscope	work.		Floor: Levels 3+5
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	11 nsm	2 nsm	Extended Hours	Compliant	Not Acceptable
		#t	44.41		
Laboratories Only:	Containment ACDP CL2	Fumigation No	Safety Risks Biological		
	ACDP CL2	NO	Biological		<u>-</u>
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	Normal Attenuation	NR 40 (tbc)	Type	Dark Room	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size (C/O)	800 mm	-
Construction	50mm Screed	<u>- </u>	Operation	Swinging	-
Floor Finish	Vinyl		Door Material	Metal	
Skirting	150mm coved		Door Finish	<u> </u>	<u> </u>
			Frame Material	Metal	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	-	-
Construction	Plasterboard & Skim		Locks	Lock	
Finish	Paint		Closers	Closer	<u> </u>
Protection			Vision Pnl	Small	
			Protection	Kick Plates	
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	Light-tight	
System	Plasterboard		Other		
Finish	Paint				
Features	Wipeable		Window Coverings	At Façade	Internal
Height	3000 mm		Type	Roller Blinds	
			Light Control	Solar & Black-out	-
Accessories (non-Lab)	<u>Items</u>	Notes	Operation	Motorised	-
Accessories (non-Lab)	Coat Hooks	Notes 3 no.	Operation Manifestations / Film	Motorised -	=
Accessories (non-Lab)			Manifestations / Film	====	Notes
Accessories (non-Lab)	Coat Hooks	3 no.	Manifestations / Film Shelving (non-lab)	Shelf	- Notes
Accessories (non-Lab) Architectural Notes	Coat Hooks	3 no. (drop seal, tight to frame, fra	Manifestations / Film	Shelf - J). Dark room light system and	-
Architectural Notes	Coat Hooks	3 no. (drop seal, tight to frame, fra	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf - J). Dark room light system and	-
	Coat Hooks	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf - J). Dark room light system and	-
Architectural Notes NGINEERING HVAC	Coat Hooks	3 no. (drop seal, tight to frame, fra	Manifestations / Film Shelving (non-lab) me sealed to door when closer	5). Dark room light system and top LEV to be added.	d warning light outside
Architectural Notes	Coat Hooks	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf J). Dark room light system and top LEV to be added. Structural	d warning light outside
Architectural Notes NGINEERING HVAC Temp (*CL. Summer	Coat Hooks	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e	Manifestations / Film Shelving (non-lab) me sealed to door when closer	5). Dark room light system and top LEV to be added. Structural Loading	d warning light outside
Architectural Notes NGINEERING HVAC Temp [*Cl: Summer 2400.** Temp Tokerance	Coat Hooks Room needs to be light-tight room. Need an extract spigol Temp FCI: Winter 200C	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf 1). Dark room light system and top LEV to be added. Structural Loading Lab, normal	d warning light outside
Architectural Notes NGINEERING HVAC Temp f*Ct: sammer 240C	Coat Hooks	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf J. Dark room light system an top LEV to be added. Structural Losding Lab, normal Equipment	d warning light outside
Architectural Notes NGINEERING HVAC Temp (*CL. Summer 240C Temp Tokerance ± 220C	Coat Hooks Room needs to be light-tight room. Need an extract spigor Temp (*C): Winter 200C Temp Variation ± 20C / Hour	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e Drainage HDPE Chem Resist Electrical	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf J. Dark room light system an top LEV to be added. Structural Losding Lab, normal Equipment	d warning light outside
Architectural Notes NGINEERING HVAC Temp 1°CL: Summer 240C Temp Tolerance ± 20C Wertilstion, supply	Coat Hooks	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf 3). Dark room light system and top LEV to be added. Structural Losding Lab, normal Equipment Noise & Vibration	d warning light outside
Architectural Notes NGINEERING HVAC Temp FCL Semmer 240C Temp Tolerance 1 2 20C Ventilation, supply Comfort Cooling	Coat Hooks Room needs to be light-tight room. Need an extract spigor Iemp **Ci: Winter 200C Temp Variation	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e Drainage HDPE Chem Resist Electrical Power Supply 230y, trunking	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf Dark room light system and top LEV to be added. Structural Loading Loading Loading Kolica Withatton Data / AV / Comms	d warning light outside
Architectural Notes NGINEERING HVAC Leng TC: Summer 240C Leng Total Summer 240C Comfort Cooling Humitity Not controlled de fiftetion	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. (drop seal, tight to farme, fra (thimble) to allow for local e Drainage HOPE Chem Resist Electrical Power Supply 230V, trunking Cleamers Outlets	Manifestations / Film Shelving (non-lab) me sealed to door when closer	Shelf 3. Dark room light system an top EV to be added. Structural Lab, normal Ecavement Notice & Wibration Data / AV / Comms Data AV / Comms Data AW / Comms Data AW / Comms	d warning light outside
Architectural Notes NGINEERING HVAC Tenna (*CL* Summer 240.C Vertification: useely Conflort Cooling Humstitu	Coat Hooks Room needs to be light tight room. Need an extract spigor of the common spigor of	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) me sealed to door when closes the equipment or bench	Shelf J. Dark room light system an top LEV to be added. Structural Loading Loading Sequence Sequence Data / AV / Comms Data / AV / Comms Data / AV / Comms	d warning light outside
Architectural Notes NGINEERING HVAC Leng TC: Summer 240C Leng Total Summer 240C Comfort Cooling Humitity Not controlled de fiftetion	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. (drop seal, tight to frame, fra (thimble) to allow for local e Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) me sealed to door when closes the equipment or bench	Shelf 5). Dark room light system am top LEV to be added. Structural Leading. Same Shelf	d warning light outside
Architectural Notes NGINEERING HVAC Temp TC1 Summer 2406 Temp To1 Summer 2406 Comfort Coding Humilion Humil	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e Unainage HIDPE Chem Resist Electrical Fount south Cleaners outlets Fund State Land	Manifestations / Film Shelving (non-lab) me sealed to door when closes the equipment or bench	Shelf 3. Dark room light system an top EV to be added. Structural Lab, normal Ecavement Notice & Wibration Data / AV / Comms Data AV / Comms Data AW / Comms Data AW / Comms	d warning light outside
Architectural Notes NGINETRING HVAC Lenn (*C. Summer 240C Lenn (*C. Summer 240C Lenn (*Summer 240C Lenn (Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e Unainage HIDPE Chem Resist Electrical Fount south Cleaners outlets Fund State Land	Manifestations / Film Shelving (non-lab) me sealed to door when closes the equipment or bench	Shelf 5). Dark room light system am top LEV to be added. Structural Leading. Same Shelf	d warning light outside
Architectural Notes NGINEERING WAZ Jenna (T.). Summer Jenn (T.). Summer Jenna (T.)	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. (drop seal, tight to frame, fra (thimble) to allow for focal e Drainage HDPE Chem Resist	Manifestations / Film Shelving (non-lab) me sealed to door when closes the equipment or bench	Shelf 5. Oak room light system am top Lift to be added. Structural leading. Structural Segments Segments Data /AV / Comms Data /AV / Comms Data / Com	d warning light outside
Architectural Notes NOMERBURG WWAC Temp (Tc. Summer 240C Temp Tolerance 240C Temp Tolerance 240C Temp Tolerance 240C Temp Tolerance 270C Temp Toleran	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e NOPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Fused Sput Electrical Lighting Lighting	Manifestations / Film Shelving (non-lab) me sealed to door when closes shaust to equipment or bench special Electrical last Lords	Shell 5. Dark room light system am top Life by the added. Structural Landing	warning light outside Vibration Criteria VC-A
Architectural Notes NGINEERING HVAC Temp (To Summer 240C Temp To Summer 240C To Summer To Summer 400 LT Weight (To Summer 400 LT	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. (drop seal, tight to frame, fra (thimble) to allow for focal e Drainage HDPE Chem Resist	Manifestations (Film Shelving (non-lab) Shelving (non-lab) me scaled to door when closes have to equipment or bench	Shelf 5. Oak room light system am top Lift to be added. Structural leading. Structural Segments Segments Data /AV / Comms Data /AV / Comms Data / Com	d warning light outside
Architectural Notes NGINEERING WAZ Jenna (T.). Summer Jenn (T.). Summer Jenna (T.)	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e NOPE Chem Resist Electrical Power Supply 230y, trunking Cleaners outlets Fused Sput Electrical Lighting Lighting	Manifestations / Film Shelving (non-lab) me sealed to door when closes shaust to equipment or bench special Electrical last Lords	Shell 5. Dark room light system am top Life by the added. Structural Landing	warning light outside Vibration Criteria VC-A
Architectural Notes NGINEERING HVAC Temp (To Summer 240C Temp To Summer 240C To Summer To Summer 400 LT Weight (To Summer 400 LT	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e HDPE Chem Resist Electrical Power Sough Electrical Power Sough Enter Sour Lamental / Standby Power Lamental / Lam	Manifestations (Film Shelving (non-lab) Shelving (non-lab) me sealed to door when closes haust to equipment or bench Special Rectrical Journal Control Journal Control Journal Journal	Shelf 6). Dark room light system am top LEV to be added. Structural leading. Leading. Leading. Solicit Self-Leading. Data J AV J Comms Data J Comms Data J AV J Comms Data J AV J Comms Data J Comms Dat	warning light outside Vibration Criteria VC-A
Architectural Notes NGINEERING HVAC Jenn CT. Summer Jedo. Guerner Jenn CT. Summer Jen	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e NOPE Chem Resist Electrical Power Supply 2300, trunking Cleaners outlets Fused Spur Ensemal / Standby Power Lighting General Lighting General Lighting General Lighting General Lighting	Manifestations / Film Shelving (non-lab) me sealed to door when closes shaust to equipment or bench shaust to equipment or bench special Electrical last Levels 200 Las Social Electrical Social Electrical Social Electrical	Shelf 3. Dark room light system an top LEV to be added. Structural leading. Lab, normal Segment Segment Data / AV Comms Data	d warning light outside Wheaton Criteria VC-A Alarm Systems
Architectural Notes NGINEERING HVAC Jenn (Tc.) summer 240C Jenn Tolles and t	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e HDPE Chem Resist Electrical Power Sough Electrical Power Sough Enter Sour Lamental / Standby Power Lamental / Lam	Manifestations / Film Shelving (non-lab) me sealed to door when closes haust to equipment or bench	Shelf 6). Dark room light system am top LEV to be added. Structural leading. Leading. Leading. Solicit Self-Leading. Data J AV J Comms Data J Comms Data J AV J Comms Data J AV J Comms Data J Comms Dat	warning light outside Vibration Criteria VC-A
Architectural Notes NGINEERING HVAC Jenn CT. Summer Jedo. Guerner Jenn CT. Summer Jen	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e HDPE Chem Resist Electrical Power Sough Electrical Power Sough Enter Sour Lamental / Standby Power Lamental / Lam	Manifestations / Film Shelving (non-lab) me sealed to door when closes shaust to equipment or bench shaust to equipment or bench special Electrical last Levels 200 Las Social Electrical Social Electrical Social Electrical	Shelf 3. Oak room light system am top Life to be added. Structural loading. Lab, normal Seguences Data /AV / Comms Data /AV / Comms Data /AV / Comms Data / C	d warning light outside Whation Citeria UCA Alarm System
Architectural Motes NGINEERING HVAC Lens CT. Summer 2400. Sidemen 2 200. Verificians. suser): 2 20C Verificians. suser): 5 20C Verificians. suser): 6 20C Mot Controlled Are Finition Are Finition 2 40 Pt 2 Night / Mrs Piped Services Ludio CW & HW Ludio CW & HW Ludio CW & HW Ludio CM & L	Coat Hooks Room needs to be light eight from Need are estract speak from Need are estract speak from Need are estract speak from Versition \$2.00C. Hours wheelston, exheat General Estract Auf Pressure Negative Airflow Engagement	3 no. Grop seal, tight to frame, fra (thimble) to allow for local e HDPE Chem Resist Electrical Power Sough Electrical Power Sough Enter Sour Lamental / Standby Power Lamental / Lam	Manifestations / Film Shelving (non-lab) me sealed to door when closes haust to equipment or bench	Shelf 3. Dark room light system an top LEV to be added. Structural leading. Lab, normal Segment Segment Data / AV Comms Data	d warning light outside Wheaton Criteria VC-A Alarm Systems

RKENABLE ROOI					Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Movable	Benchtop Material Trespa Toplab Base -	<u>Depth</u> 750mm	Notes	
Other LF Elements	Above Lab Bench Shelving, bench mtd	-	Other Storage Units	=	-
Lab Sinks	Sink Type Sink- Epoxy (integral)	Water Source Lab CW & HW	Taps Lever Handle (mixer)	Accessories (assume SD, PT Splash Pnl & Dry Rack	D included)
Architectural Notes					
Architectural Notes	иент (ASE*)				
	MENT (ASE*) Extract Equipment -	Name/Model	* ASE = Architecturally (/Engine Quantity	eering) Significant Equipment * Size	* O = Owner C = Contr Furnish - Install**

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London Institute of Medical Sciences

D Room Criteria SheetsD.2 Science Room Criteria Sheets

OLD ROOM					Room ID:
					Dedicated Seconda
	+4C Controlled temperature	room for laboratory work an	d storage. 1no provided on each	h floor.	Floor: 2-6
ENERAL	Nominal Area	Occupants	Hours in Use	Equality Act Compliance	Natural Light
	11 nsm	<u>-</u>	Extended Hours	Compliant	Not Required
Laboratories Only:	Containment	Fumigation	Safety Risks		
	ACDP CL2	No	Biological		-
RCHITECTURAL					
Sound Attenuation	Intern Ambient Noise (dBA)	Mechanical Noise (NR)	Doors	Type 1	Type 2
	See arch. Note	NR 40 (tbc)	Type	Single Door	-
Floors	Type 1 - 100%	Type 2 - Not Used	Size	900 mm	-
Construction	Proprietary	-	Operation	Sliding	-
Floor Finish	non-slip vinyl	-	Door Material	Metal	-
Skirting	150mm coved	-	Door Finish	Proprietary	-
			Frame Material	Metal	-
Partitions	Type 1 - 100%	Type 2 - Not Used	Frame Finish	Proprietary	-
Construction	Proprietary	-	Locks	Lock	-
Finish		-	Closers	Closer	-
Protection		-	Vision Pnl	Large	-
			Protection	-	-
Ceiling	Type 1 - 100%	Type 2 - Not Used	Seals	-	-
System	Proprietary	-	Other	-	-
Finish	-	-			
Features	Wipeable	-	Window Coverings	At Façade	Internal
Height	-	-	Type		-
			Light Control	-	
Accessories (non-Lab)	Items	Notes	Operation	-	
		-	Manifestations / Film		-
			Manifestations / Film	-	-
				- Shelf	Notes
			Manifestations / Film Shelving (non-lab)	=	
,	Proprietary pre-fabricated co	ontrolled temperature room;	Manifestations / Film Shelving (non-lab) slab not recessed for floor cons	struction. Partition panels and	cellings to be insulated.
	Requires an internal release	ontrolled temperature room;	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	truction. Partition panels and uires alarm signal switch to all	ceilings to be insulated.
Architectural Notes	Requires an internal release	ontrolled temperature room;	Manifestations / Film Shelving (non-lab) slab not recessed for floor cons	truction. Partition panels and uires alarm signal switch to all	ceilings to be insulated.
	Requires an internal release	ontrolled temperature room;	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	truction. Partition panels and uires alarm signal switch to all	ceilings to be insulated.
Architectural Notes	Requires an internal release	ontrolled temperature room;	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	truction. Partition panels and uires alarm signal switch to all	ceilings to be insulated.
Architectural Notes	Requires an internal release	ontrolled temperature room; mechanism to prevent perso alarm and notify site security	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	struction. Partition panels and uires alarm signal switch to all tem. Sink and power/data req	ceilings to be insulated.
Architectural Notes NGINEERING HVAC	Requires an internal release activate an external audible	ontrolled temperature room, mechanism to prevent personal arm and notify site security.	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	truction. Partition panels and uires alarm signal switch to all tem. Sink and power/data req	ceilings to be insulated. ow trapped personnel to uired
Architectural Notes NGINEERING HVAC Temp (*Cl. Sammer.	Requires an internal release activate an external audible : Temp (*C): Winter	ontrolled temperature room; mechanism to prevent perso alarm and notify site security	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	truction. Partition panels and aires alarm signal switch to all tem. Sink and power/data req Structural Loading	ceilings to be insulated.
Architectural Notes NGINEERING HVAC Temp (**Ct: Summer 40C	Requires an internal release activate an external audible: Temp (°C): Winter 4oC	ontrolled temperature room, mechanism to prevent personal arm and notify site security.	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	struction. Partition panels and aires alarm signal switch to all term. Sink and power/data req Structural Loading Lab, normal	ceilings to be insulated. ow trapped personnel to uired
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Architectural Notes NGINEERING HVAC Irong 171- Sammer 40C Tomn Tolerance Ventilation, supply Humship Not controlled	Requires an internal release activate an external audible : Temp PCL: Winter 4oC Temp Variation Ventilation, exhaust Air Pressure	notrolled temperature room, mechanism to prevent personal param and ordy site security. Drainage HDPE Chem Resist Electrical Power Supply Cleaners outlets Fused Spur	Manifestations / Film Shelving (non-lab) slab not recessed for floor con ment from being locked-in. Requ via central building control syst	Truction. Partition panels and aires alarm signal switch to all aires alarm signal switch to all stem. Sink and power/data requestion of the structural loading. Lab, normal Equipment Data / AV / Comms Data / AV / Comms	ceilings to be insulated. ow trapped personnel to uired
Architectural Notes NGINEERING HVAC IEmogi ^{Cic} : Summer AoC Temp Tolerance Ventilation, susply Humidity	Requires an internal release activate an external audible. Temp (°C): Winter 40C Temp Variation	ontrolled temperature room. mechanism to prevent persental and notify site security. Drainage HDPE Chem Resist Electrical Power Supply 2300, trunking Cleaners outlets	Manifestations / Film Shelving (non-lab) slab not recessed for floor consumel from being locked-in. Requ	Truction. Partition panels and sires alarm signal switch to all sires alarm signal switch to all stem. Sink and power/data required to a sire and source a	ceilings to be insulated. ow trapped personnel to uired
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Architectural Notes NGINEERING HVAC Irong 171- Sammer 40C Tomn Tolerance Ventilation, supply Humship Not controlled	Requires an internal release activate an external audible : Temp PCL: Winter 4oC Temp Variation Ventilation, exhaust Air Pressure	notrolled temperature room, mechanism to prevent personal param and ordry site security. Drainage HDPE Chem Resist Electrical Power Supply Geamers outlets Fused Spur	Manifestations / Film Shelving (non-lab) slab not recessed for floor con ment from being locked-in. Requ via central building control syst	tructural parels and sum agost switch to all semi-signal switch and switch and switch and switch as switches and switches	ceilings to be insulated. ow trapped personnel to uired
Architectural Notes NGINEERING HVAC Leng TC - Sammer AGC Temp Tolerance Venthation, supply Sammer And - Printerion Men Air Changes	Requires an internal release activate an external audible : Temp PCL: Winter 4oC Temp Variation Ventilation, exhaust Air Pressure	netrolled temperature roommemers and one of the security of th	Manifestations / Film Shelving (non-lab) slab not recessed for floor con ment from being locked-in. Requ via central building control syst	Truction. Partition panels and sires alarm signal switch to all sires alarm signal switch to all stem. Sink and power/data required to a sire and source a	ceilings to be insulated. ow trapped personnel to uired
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Architectural Notes NGINEERING HVAC Leng TC - Sammer AGC Temp Tolerance Venthation, supply Sammer And - Printerion Men Air Changes	Requires an internal release activate an external audible : Temp PCL: Winter 4oC Temp Variation Ventilation, exhaust Air Pressure	ontrolled temperature room, mechanism to prevent persistent and notify site security. Drainage HDPE Chem Resist Prover Supply 230v, trunking Cleaners outlets Fused Spur Essential / Sandraby Power Ed Interference Lighting	Manifestations (Film Shehving (non-lab)) Shehving (non-lab) slab or recessing for film common set from being footed in. Neque via cernal building control system of the common set from the set of the common set from the set of the common set of th	Introduce Partition panels and union state of the Common State of	ceilings to be insulated. ow trapped personnel to uired
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LD ROOM					Room ID:
LABORATORY FURNIT	URE				
Lab Benching	Type Bench, Movable Equipment Trolley	Benchtop Material Trespa TopLab Plus -	Depth 750mm	Notes	
Other LF Elements	Above Lab Bench -	<u>-</u>	Other Storage Units -	=	=
Lab Sinks	Sink-Type Sink-Epoxy (integral)	Water Source Lab CW (Cat 5)	Taps Lever Handle (mixer)	Accessories (assume SD, I	PTD included)

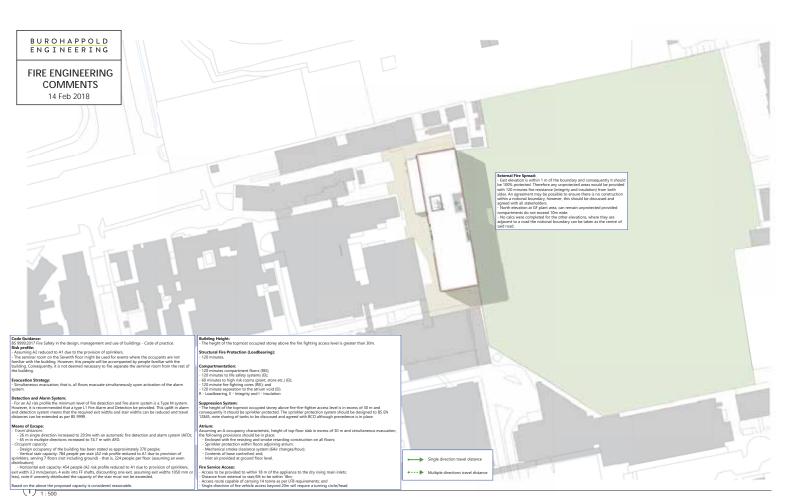
Page 13 of 17 1802.01 MRC LMS - Room Criteria Sheets - Typical Key Rooms

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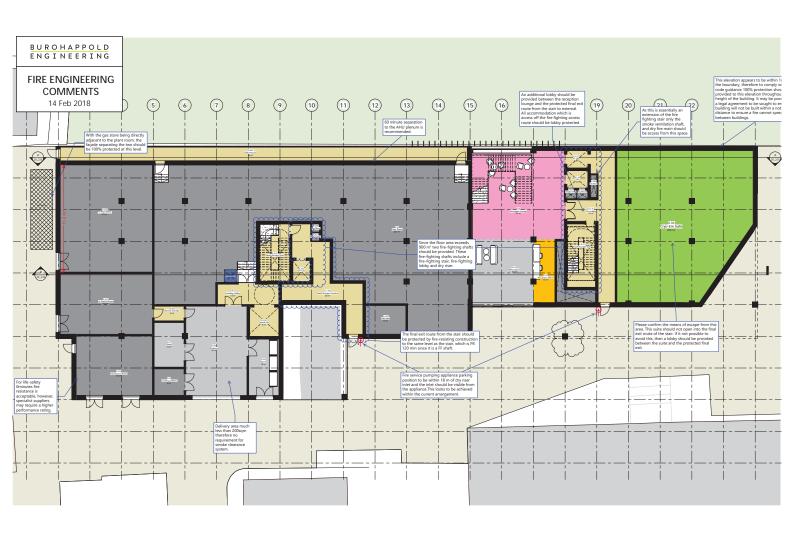
Page 14 of 17 1802.01 MRC LMS - Room Criteria Sheets - Typical Key Rooms



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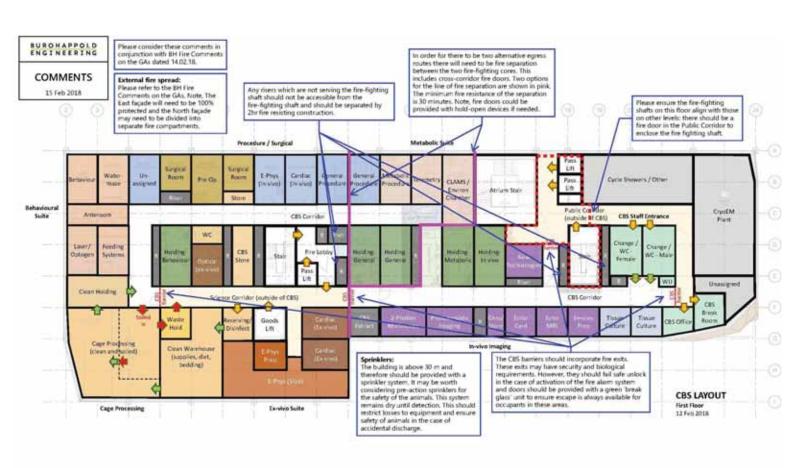
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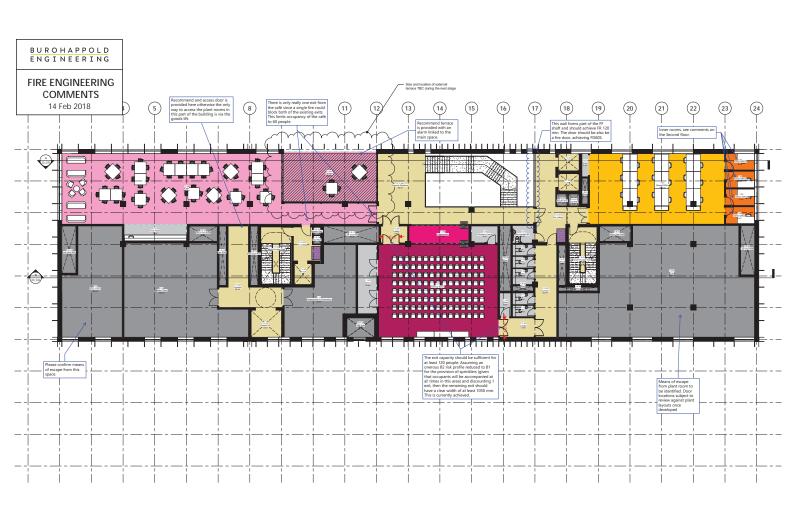
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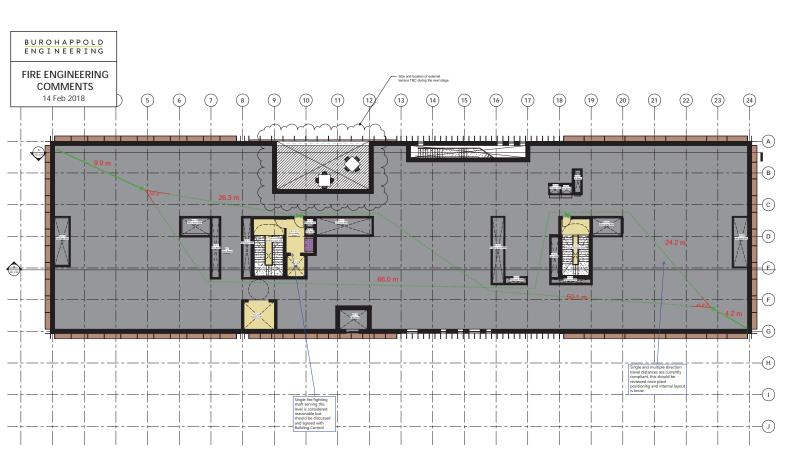
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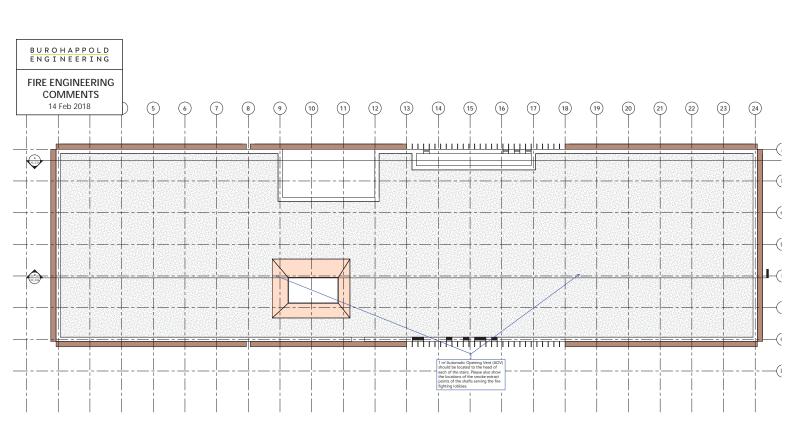
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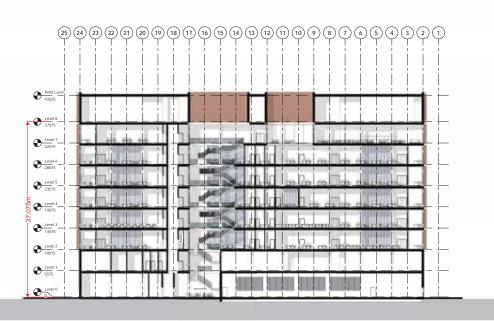
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FIRE ENGINEERING COMMENTS 14 Feb 2018



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AJ100 Practice of the Year 2016 & 2017 Winner

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