

65 Crutched Friars, London, EC3N 2ES Planning Applications Sub-Committee

21 February 2023

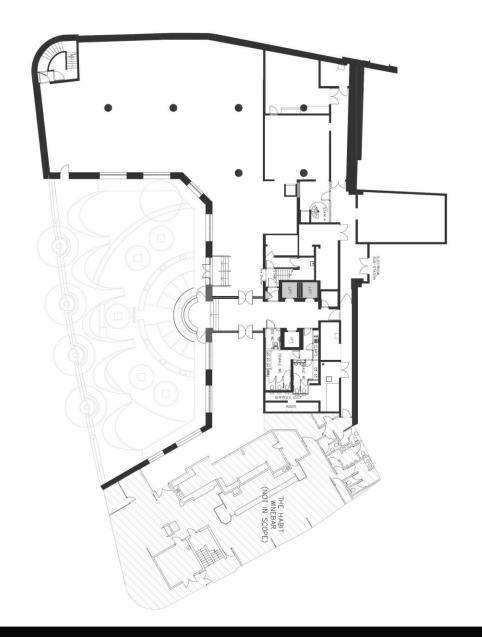
65 Crutched Friars, London, EC3N 2ES **3XII** SITE LOCATION PLAN

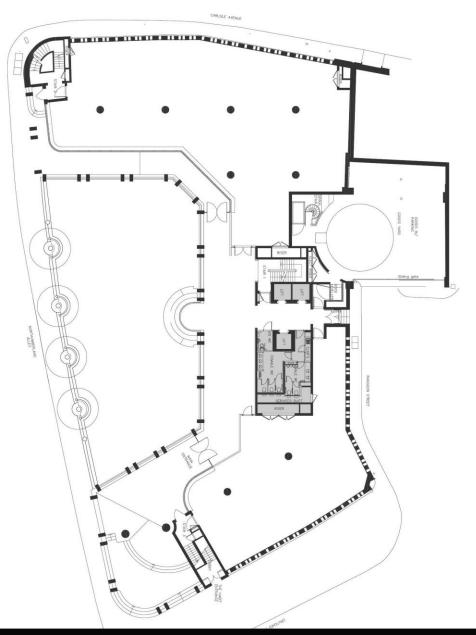


Context plan of the tower cluster and historic context

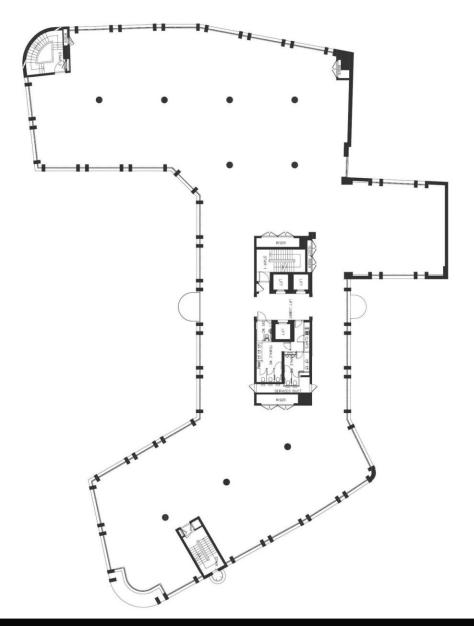


Local historic context

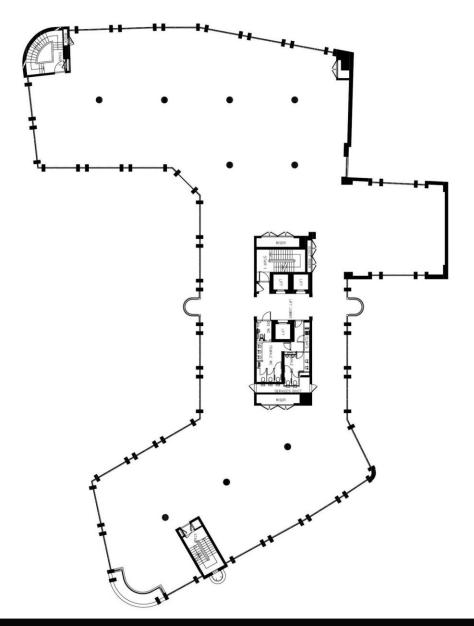




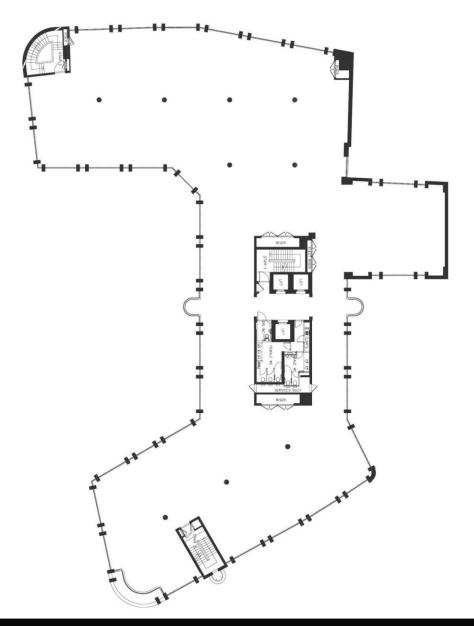
Existing: Ground Floor Plan



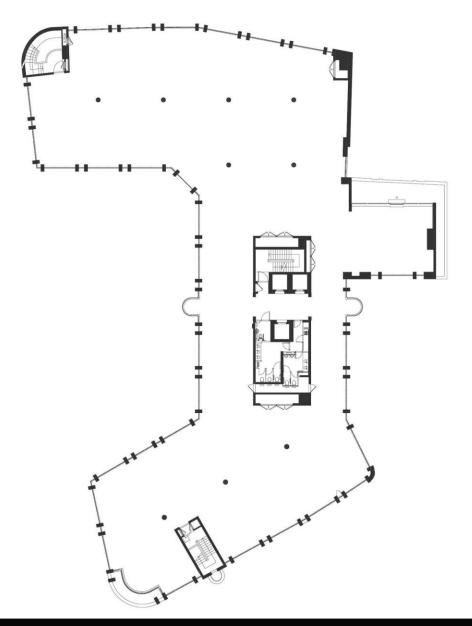
Existing: Level 01 Plan



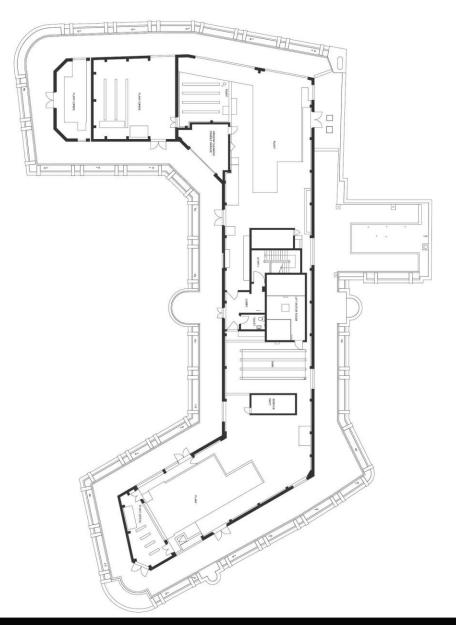
Existing: Level 02 Plan



Existing: Level 03 Plan



Existing: Level 04 Plan



Existing: Roof Plan



Existing: Photo of Rangoon Street



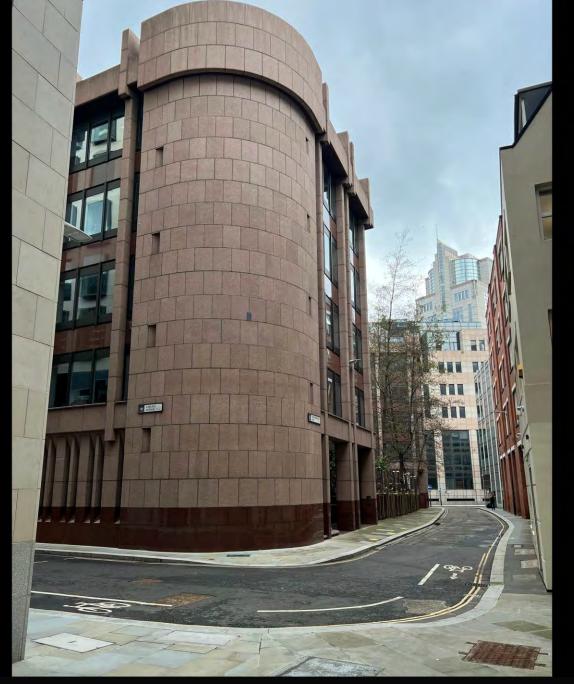
Existing: Photo of Rangoon Street and Crutched Friars



Existing: Photo of Crutched Friars and Northumberland Alley facing East



Existing: Photo from Northumberland Alley towards sunken courtyard



Existing: Photo of Carlisle Avenue and Northumberland Alley



Existing: Photo of Carlisle Avenue facing West



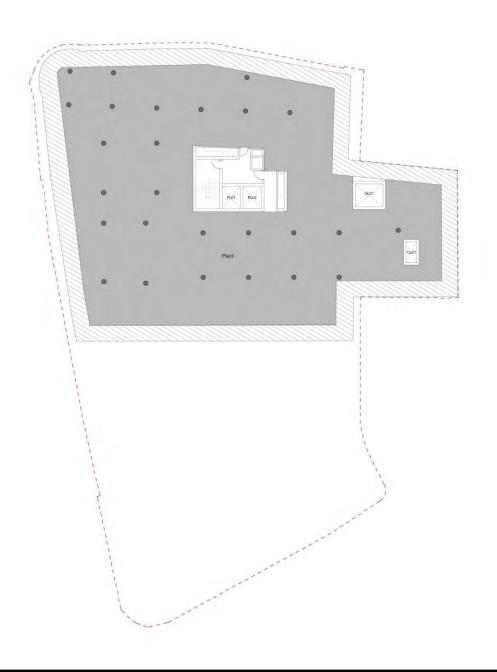
Existing: Photo of Sunken courtyard adjacent to Northumberland Alley

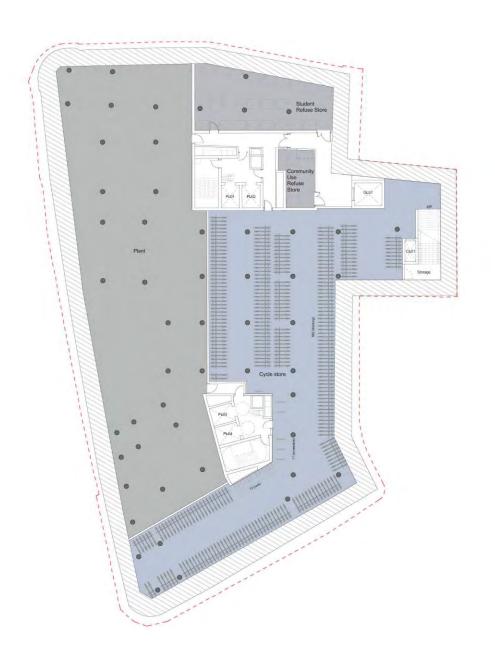


Existing: Photo of typical office interior



Existing: Photo of typical office interior







Proposal: Ground Floor Plan



Proposal: Level 01 Plan



Proposal: Level 02 Plan



Proposal: Level 03 Plan



Proposal: Level 04 Plan



Proposal: Level 05 Plan



Proposal: Level 06 Plan



Proposal: Level 07 Plan



Proposal: Level 08 Plan



Proposal: Level 09 Plan



Proposal: Level 10 Plan



Proposal: Level 11 Plan



Proposal: Level 12 Plan



Proposal: Level 13 Plan



Proposal: Level 14 Plan



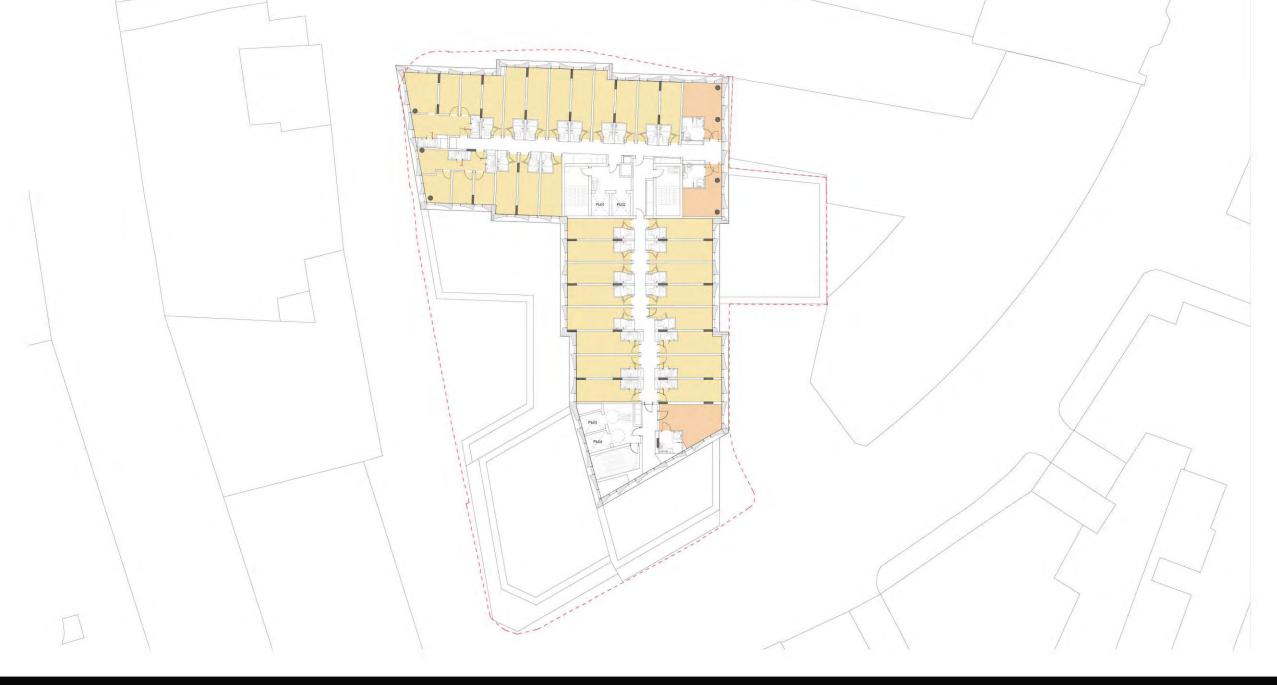
Proposal: Level 15 Plan



Proposal: Level 16 Plan



Proposal: Level 17 Plan



Proposal: Level 18 Plan



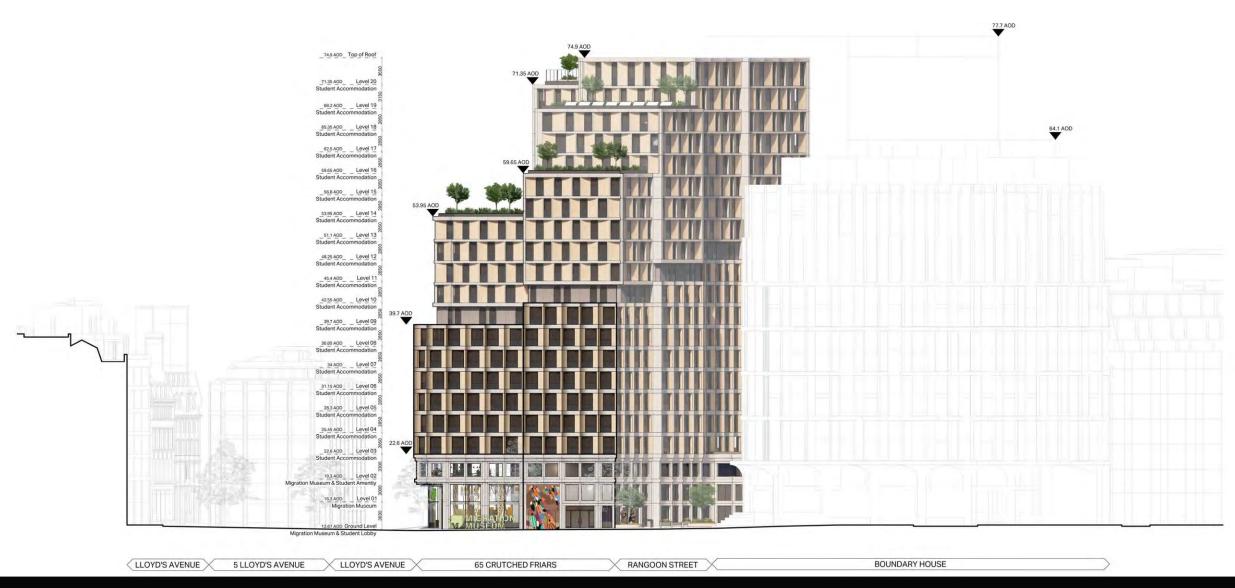
Proposal: Level 19 Plan



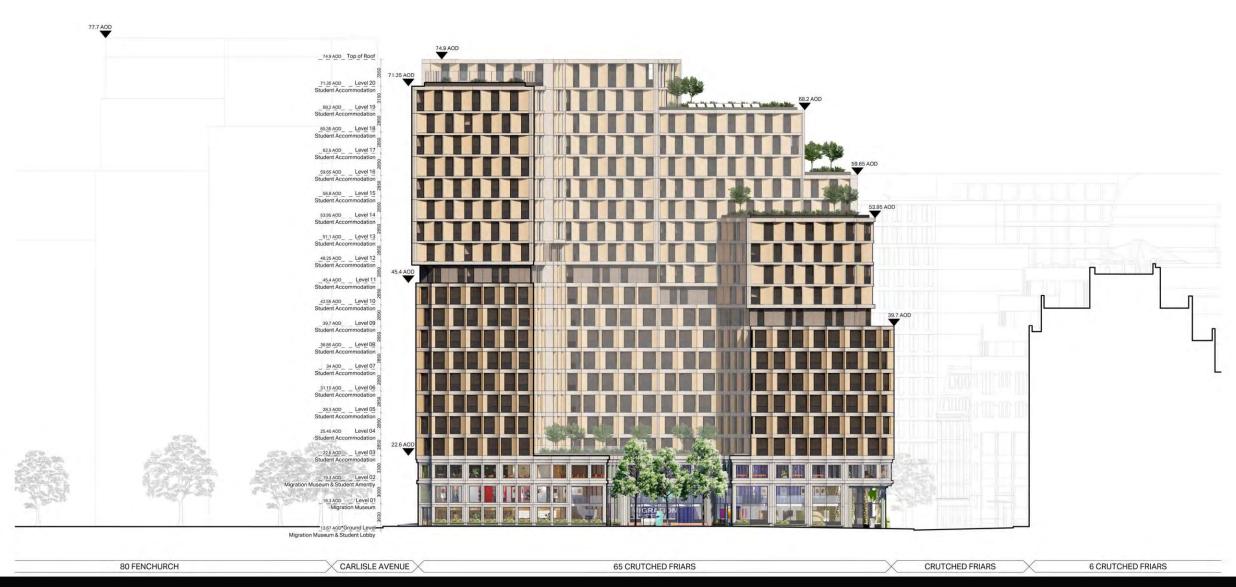
Proposal: Level 20 Plan

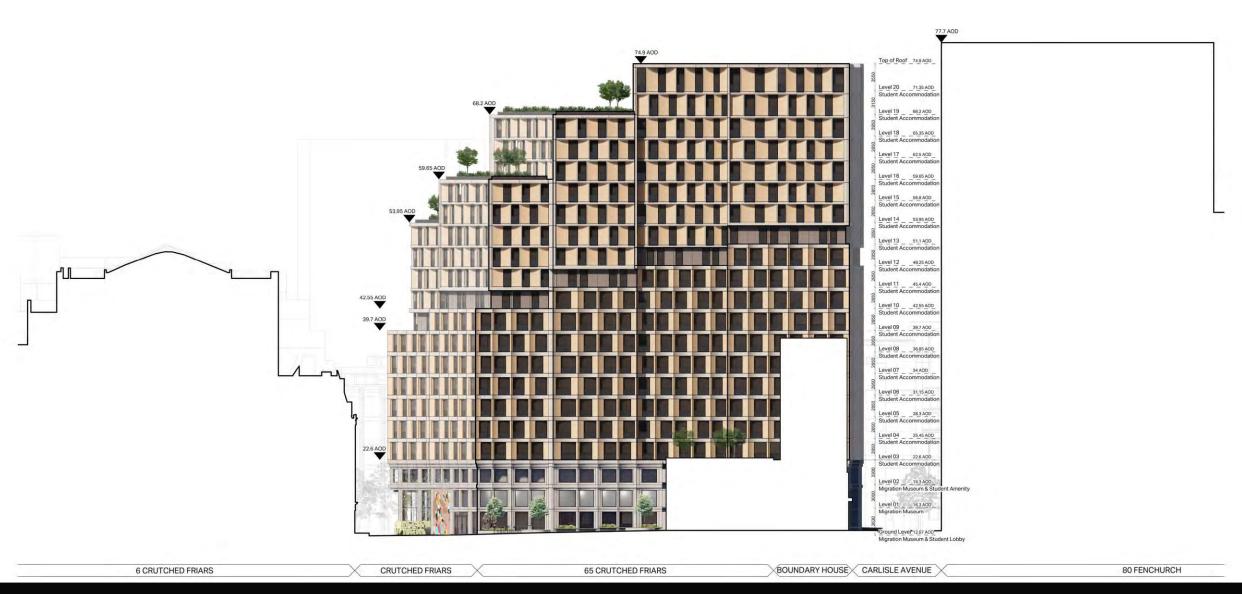


Proposal: Level 21 - Roof Plan



Proposal: South Elevation along Crutched Friars

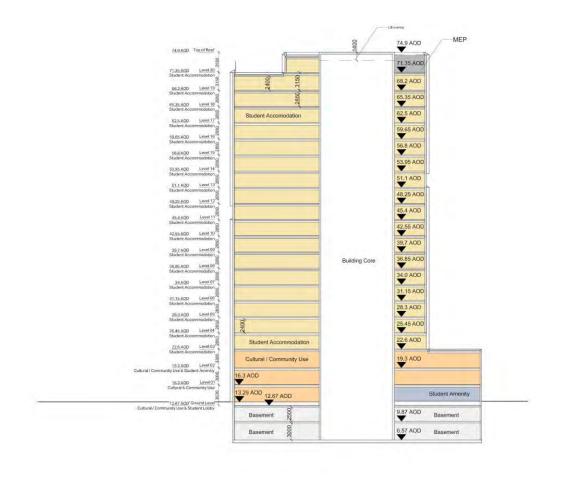


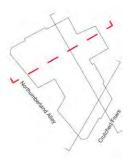


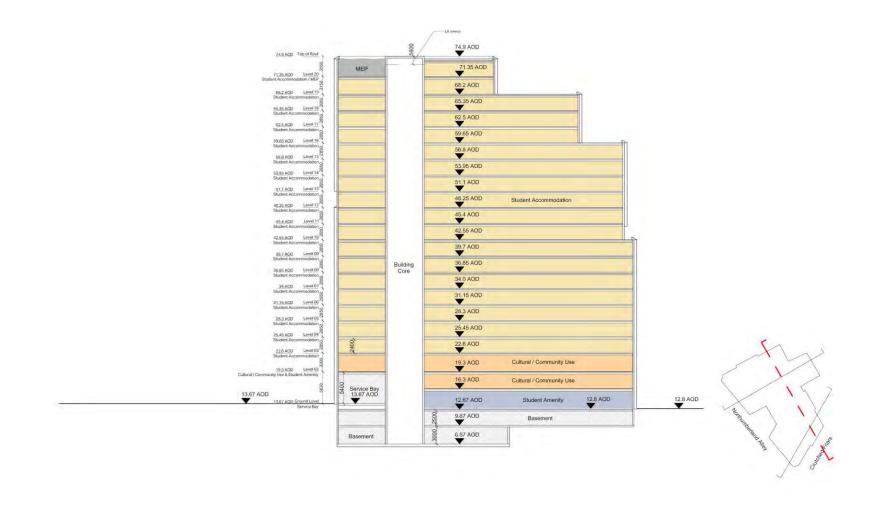
Proposal: East Elevation along Rangoon Street

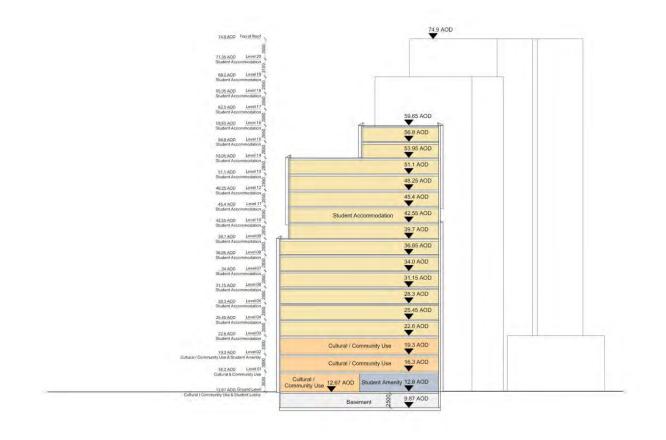


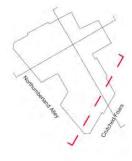
Proposal: North Elevation along Carlisle Avenue













Massing context diagram: key datums



Massing context diagram: massing stepping down in relation to key datums



Proposal: View of the corner of Crutched Friars and Northumberland Alley



Proposal: View of courtyard adjacent to Northumberland Alley facing North



Proposal: View from Crutched Friars facing west towards Rangoon Street



Proposal: View from Crutched Friars and Northumberland Alley



Proposal: View from Crutched Friars and Crosswall



Proposal: View from Queen's Walk facing North

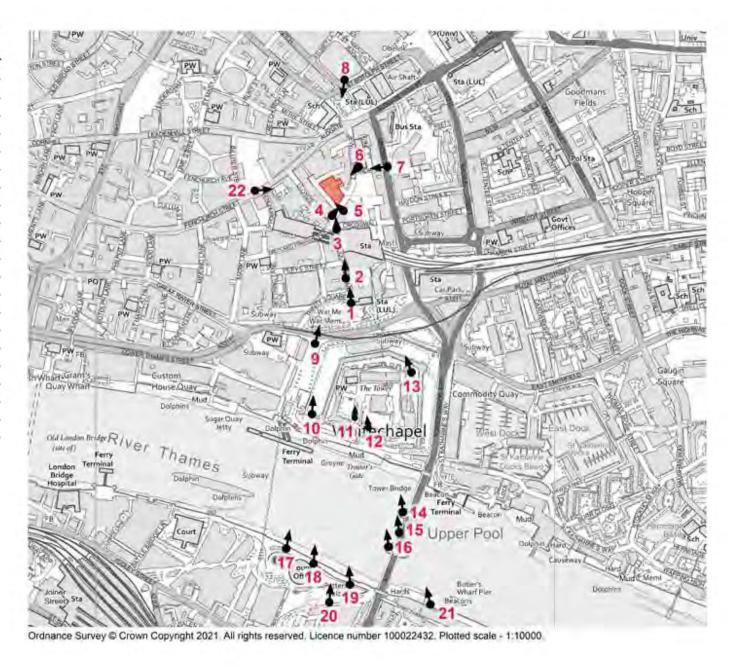
TTC view no.	Location	Render / Wireline
1	Tower Hill London Underground Station	R
2	Cooper's Row	W
3	Crutched Friars/ Crosswall	R
4	Crutched Friars/ Lloyd's Avenue	R
5	Crutched Friars/ Northumberland Alley	R
6	India Street/ Jewry Street	R
7	Minories/ India Street	W
8	Dukes Place	W
9	Tower Hill Square	W
10	ToL Local Setting Study view 5: Main entrance to the tower	R
11	Tower Green, south-east corner	W
12	ToL Local Setting Study view 4: Inner Curtain Wall (South)	W
13	ToL Local Setting Study view 2: Inner Curtain Wall (North)	R
14	Tower Bridge LVMF 10A.1	W
15	Tower Bridge, midway	W
16	Tower Bridge, south bastion	W
17	Queen's Walk LVMF 25A.2	R
18	Queen's Walk LVMF 25A.1	R
19	Queen's Walk LVMF 25A.3	W
20	Potters Fields Park	W
21	Butler's Wharf	W
22	Fenchurch Street/ Fenchurch Place	W

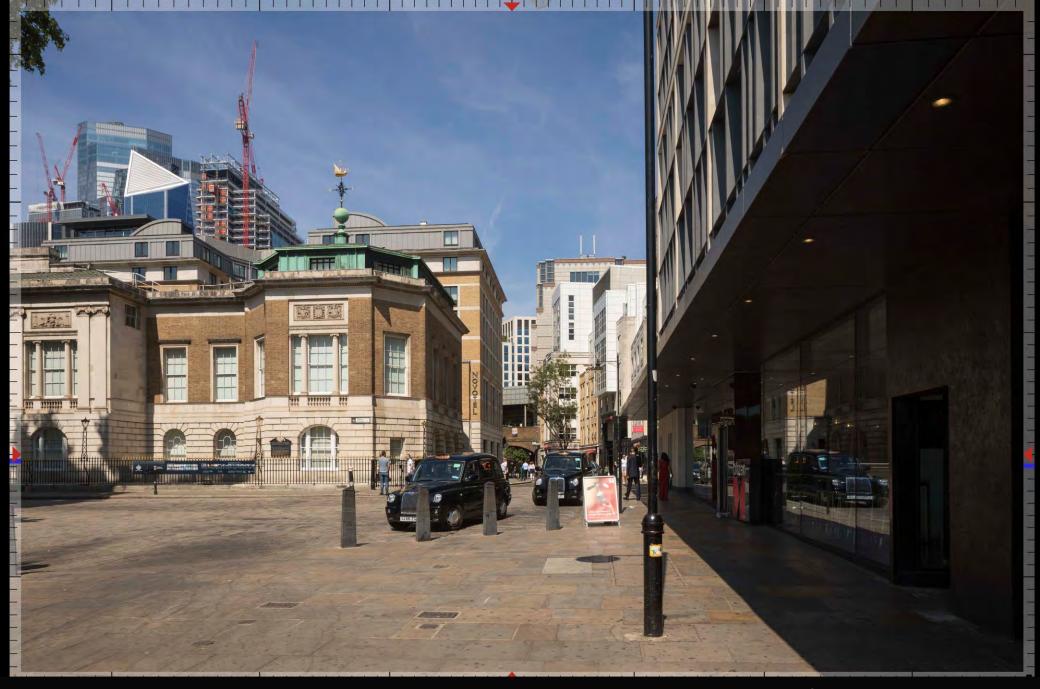
Approximate site boundary marked in red for indicative purposes only.



Revision no: 7 Date: August 2022

Fig. 7.1: Viewpoint map.

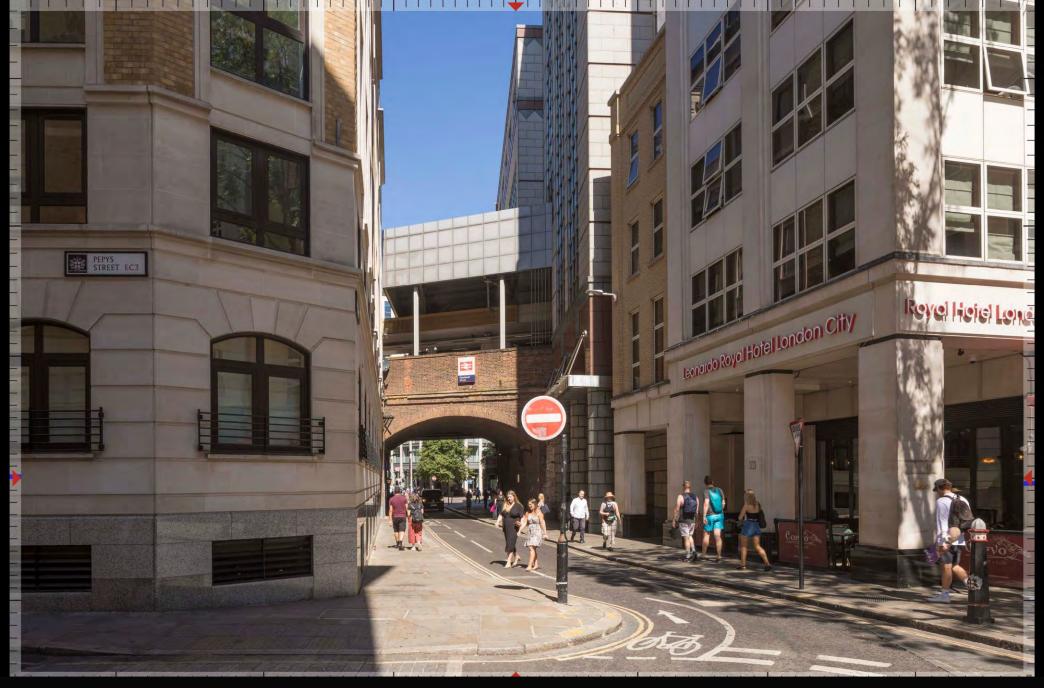




Existing: HTVIA View 01 - Tower Hill London Underground Station



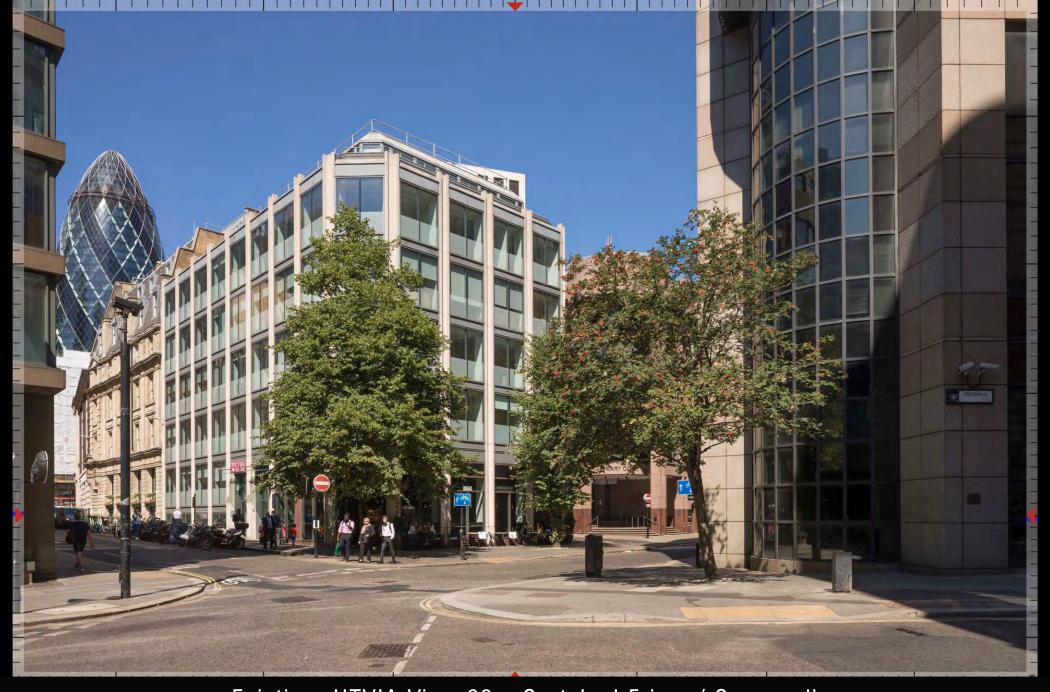
Cumulative: HTVIA View 01 – Tower Hill London Underground Station



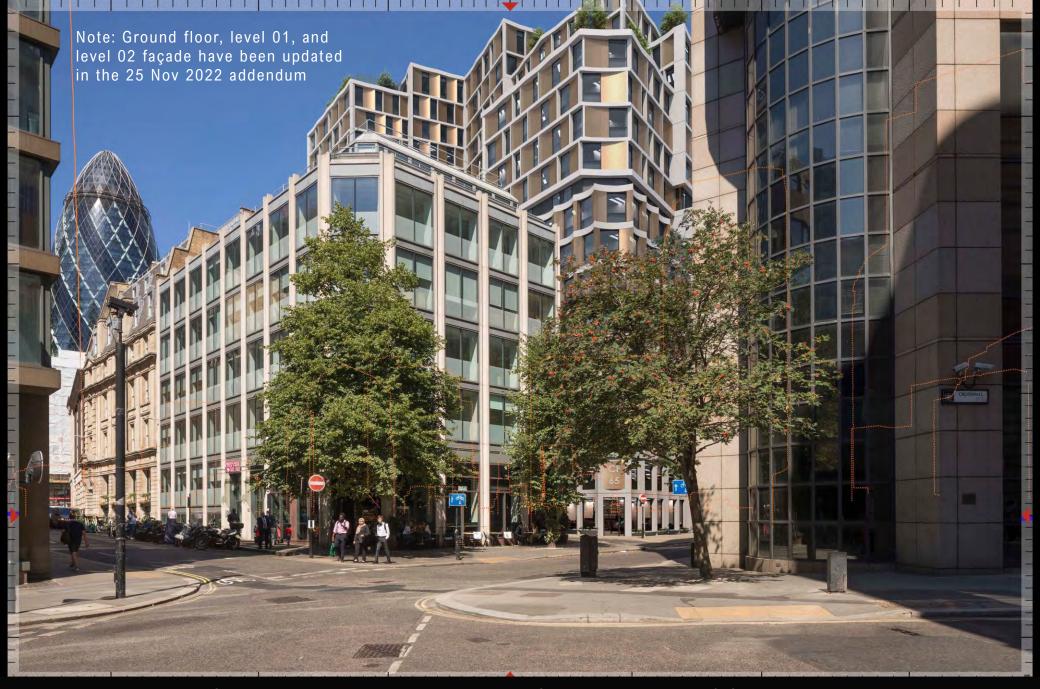
Existing: HTVIA View 02 - Cooper's Row



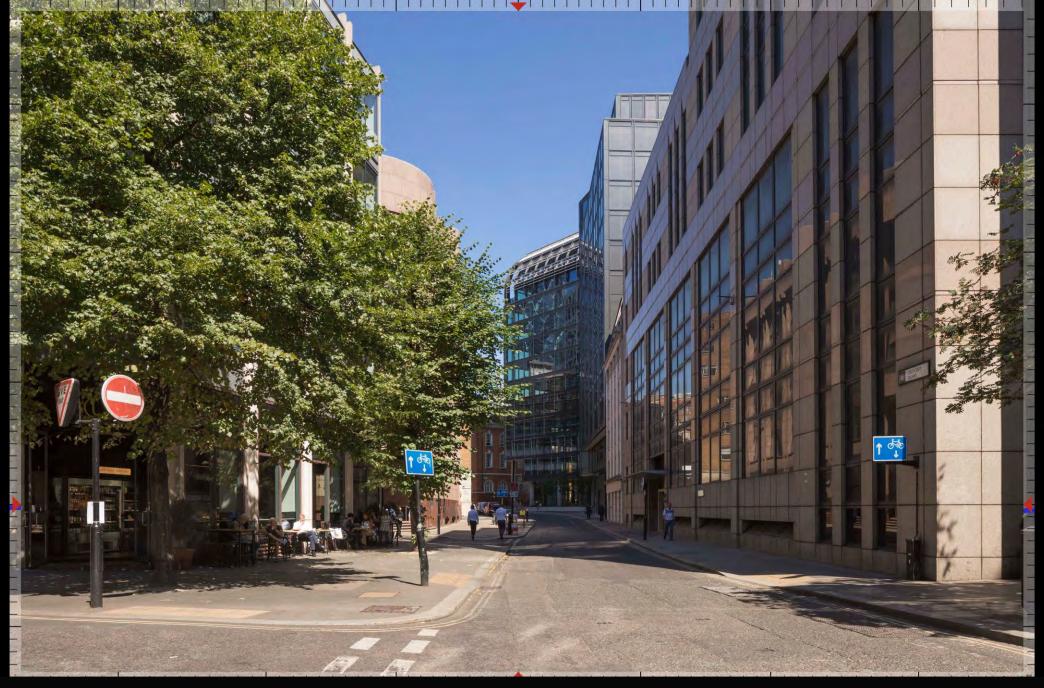
Cumulative: HTVIA View 02 - Cooper's Row



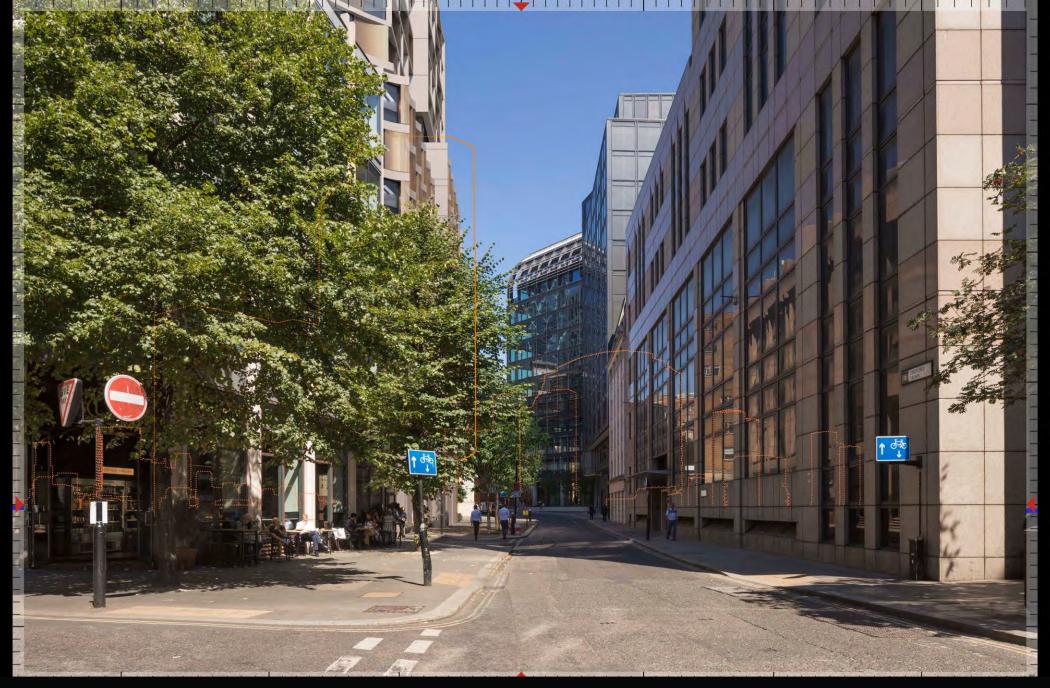
Existing: HTVIA View 03 - Crutched Friars / Crosswall



Cumulative: HTVIA View 03 - Crutched Friars / Crosswall



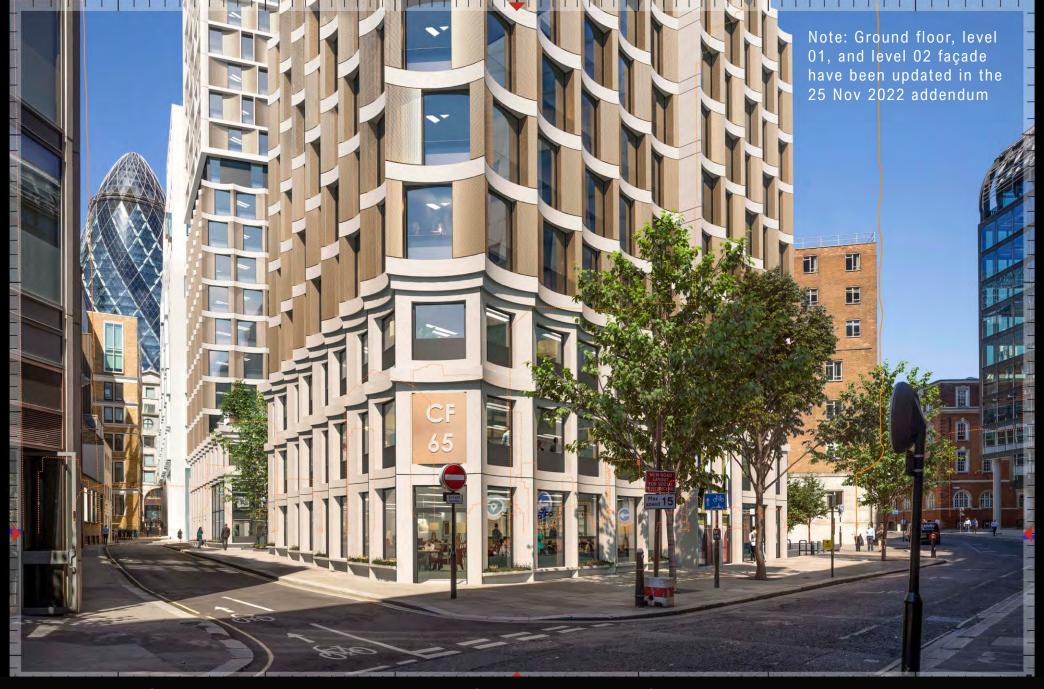
Existing: HTVIA View 04 - Crutched Friars / Lloyd's Ave



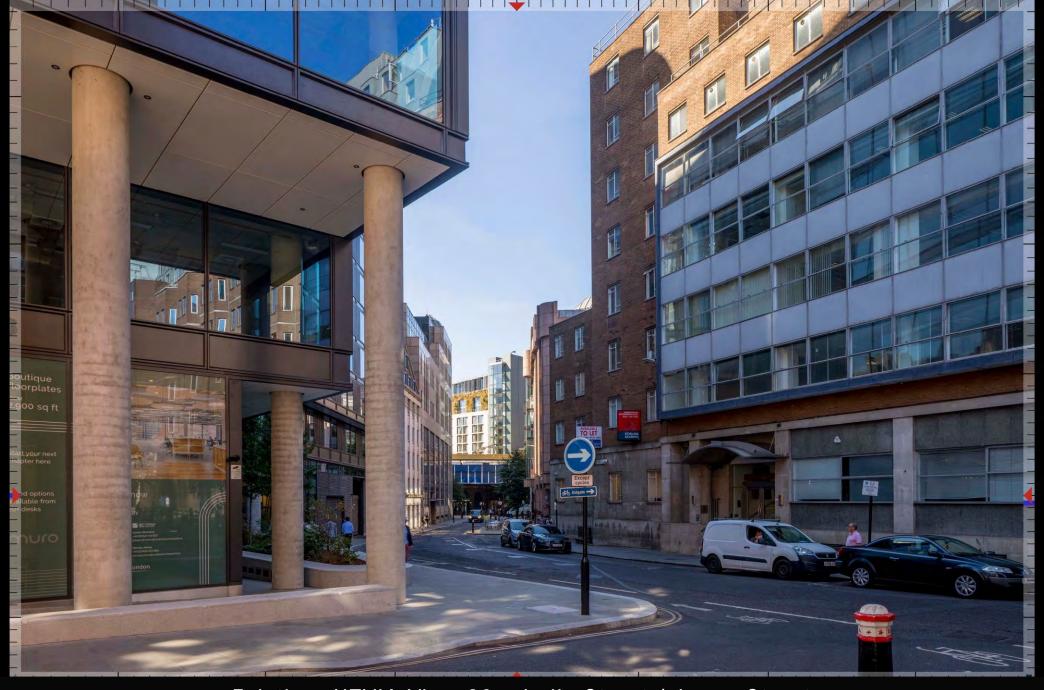
Cumulative: HTVIA View 04 - Crutched Friars / Lloyd's Ave



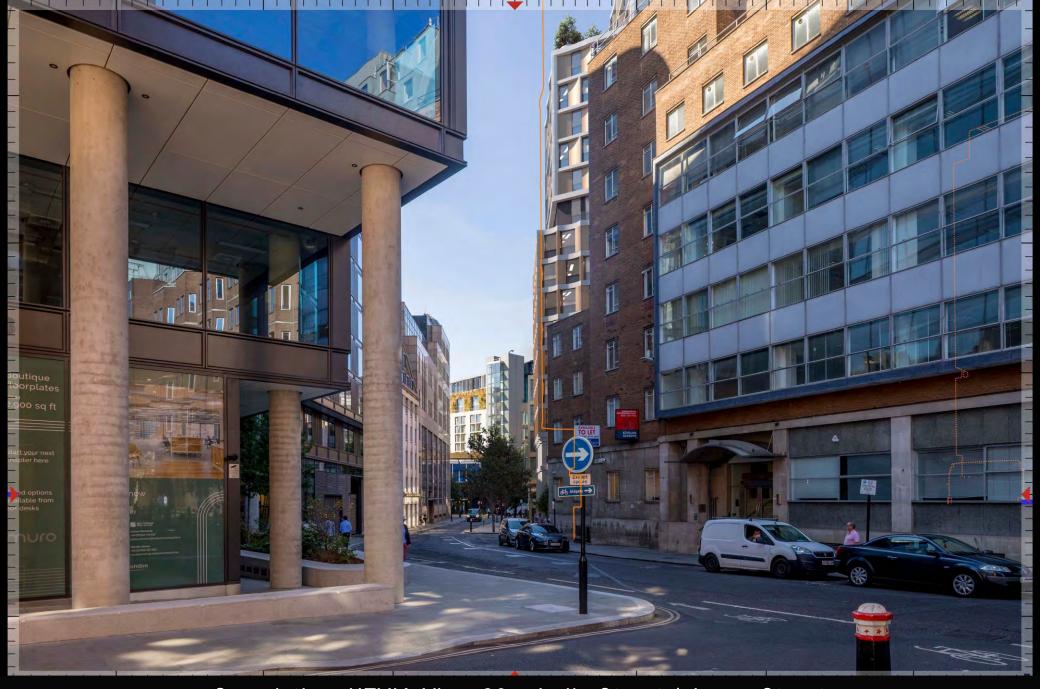
Existing: HTVIA View 05 - Crutched Friars / Northumberland Alley



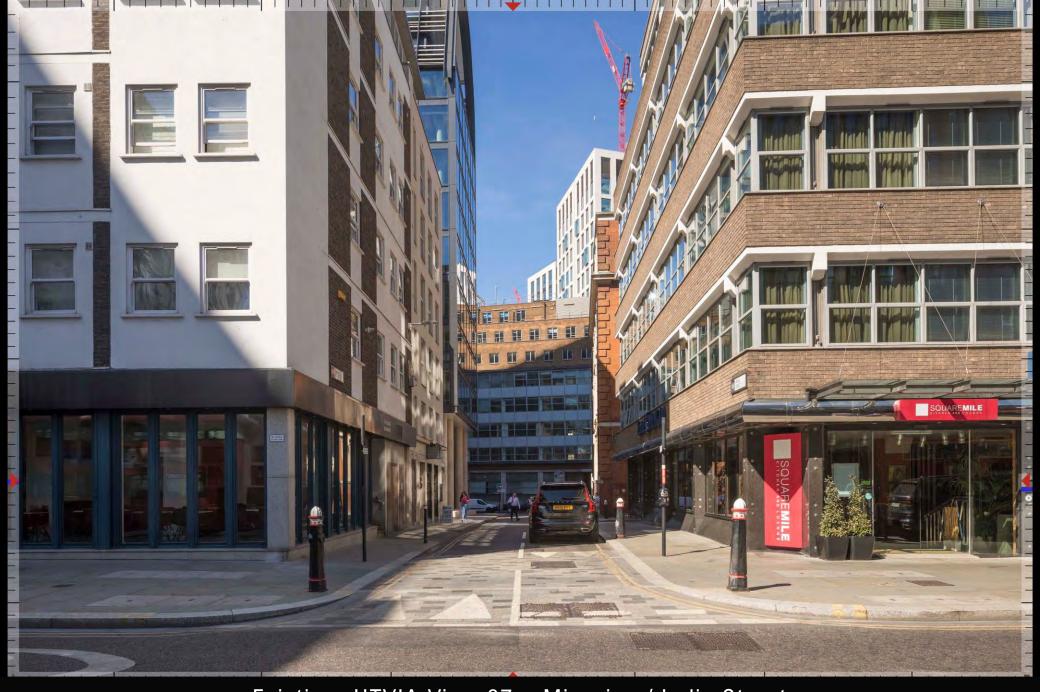
Cumulative: HTVIA View 05 - Crutched Friars / Northumberland Alley



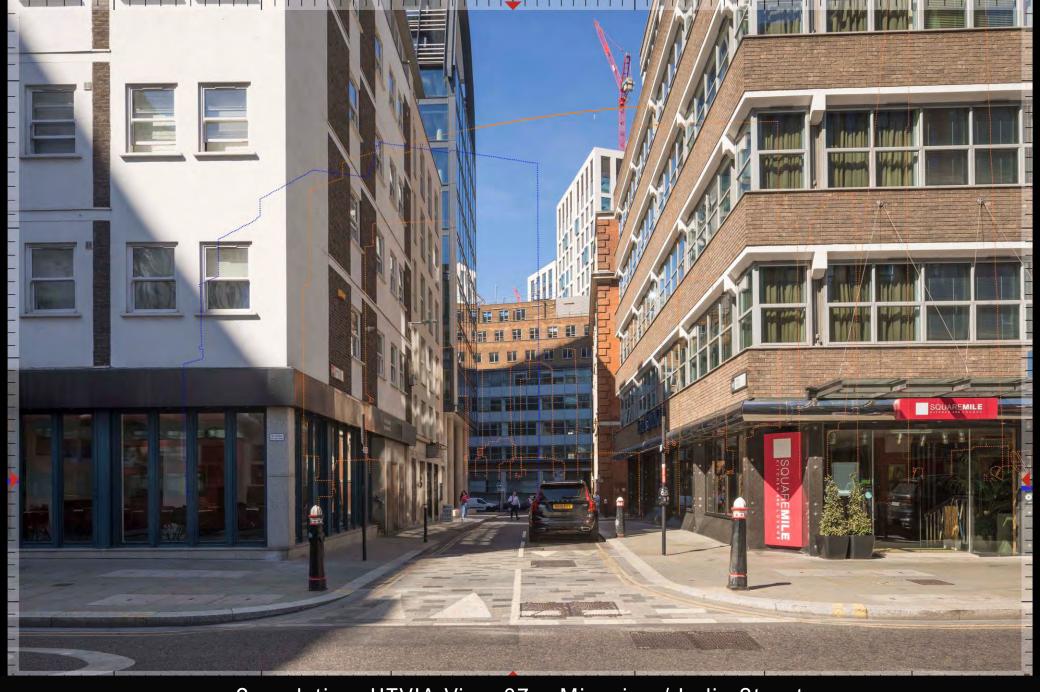
Existing: HTVIA View 06 - India Street / Jewry Street



Cumulative: HTVIA View 06 - India Street / Jewry Street



Existing: HTVIA View 07 - Minories / India Street



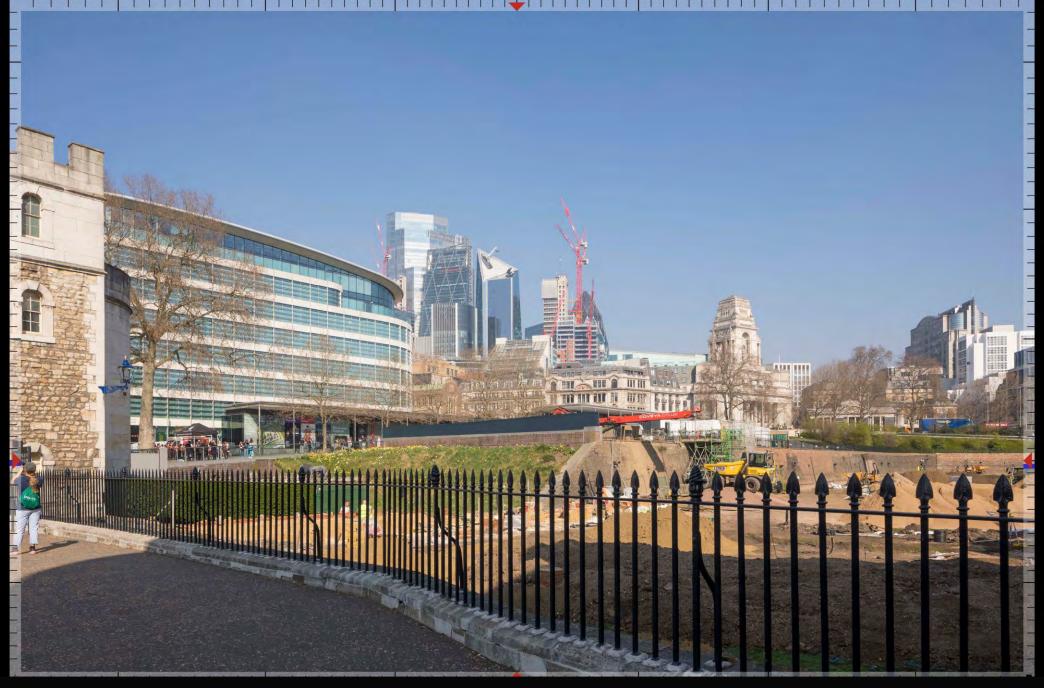
Cumulative: HTVIA View 07 - Minories / India Street



Existing: HTVIA View 09 - Tower Hill Square



Cumulative: HTVIA View 09 - Tower Hill Square



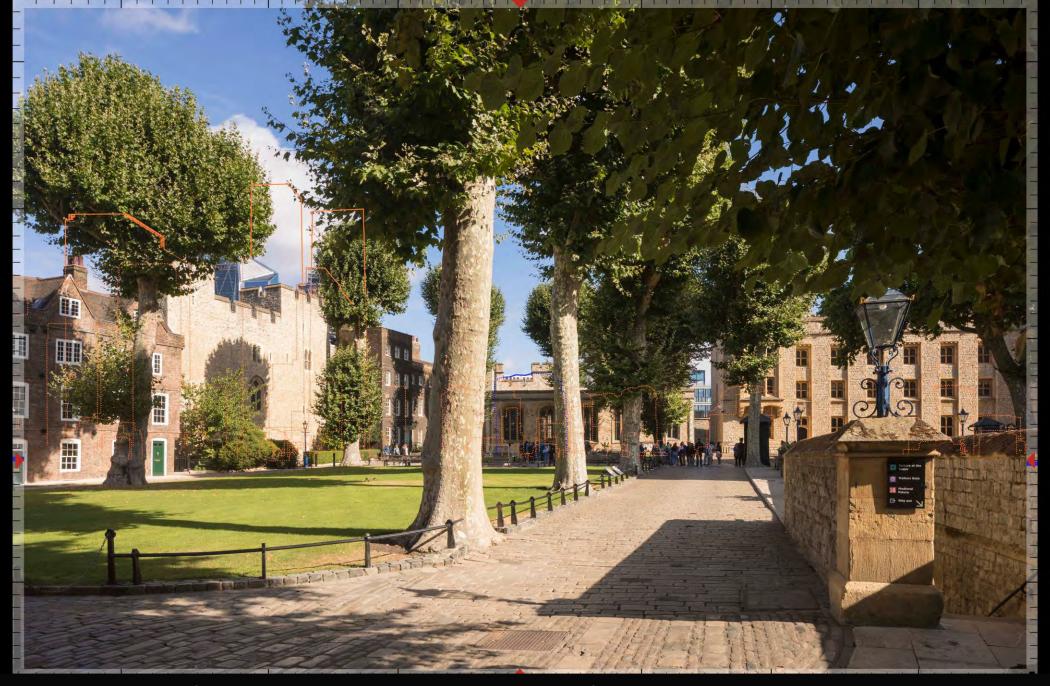
Existing: HTVIA View 10 - ToL Local Setting Study view 5: Main entrance to the tower



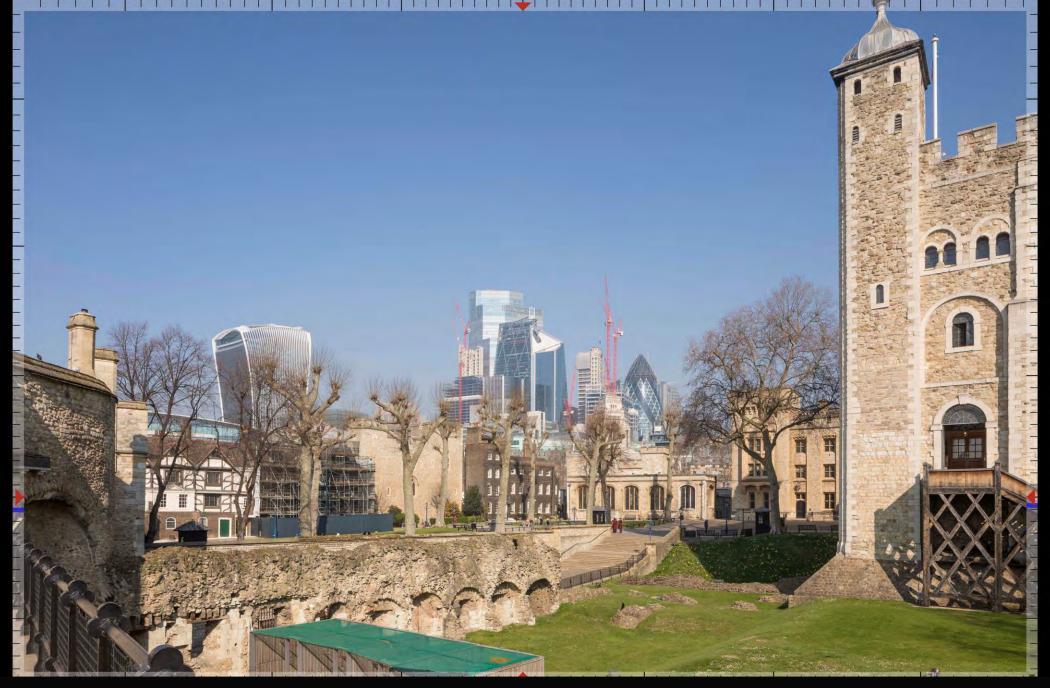
Cumulative: HTVIA View 10 - ToL Local Setting Study view 5: Main entrance to the tower



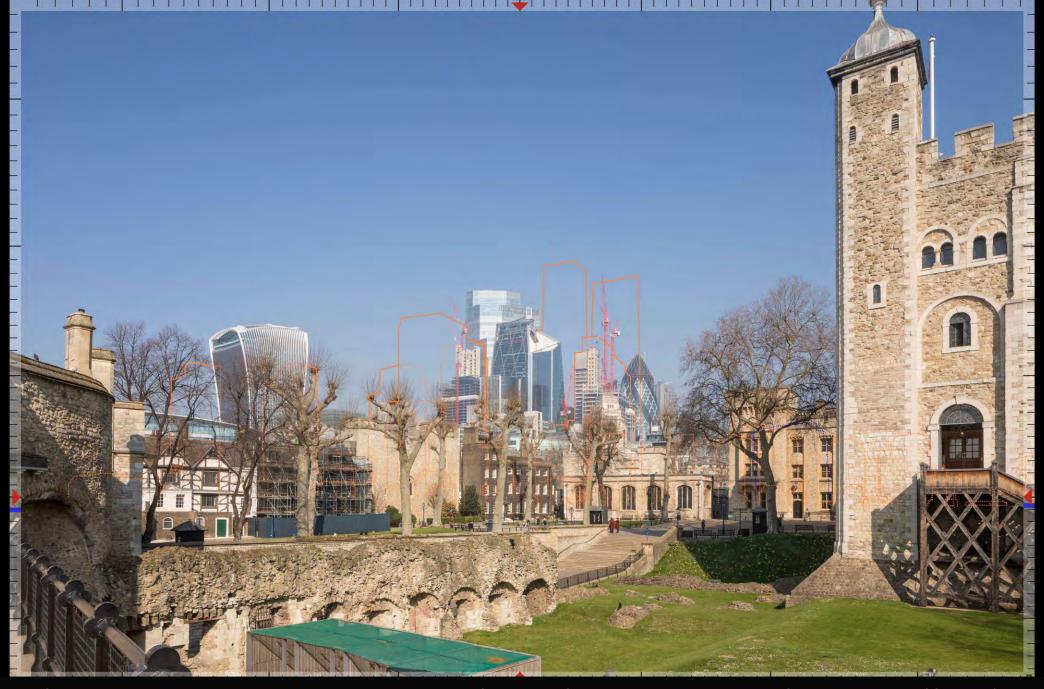
Existing: HTVIA View 11 - Tower Green, south-east corner



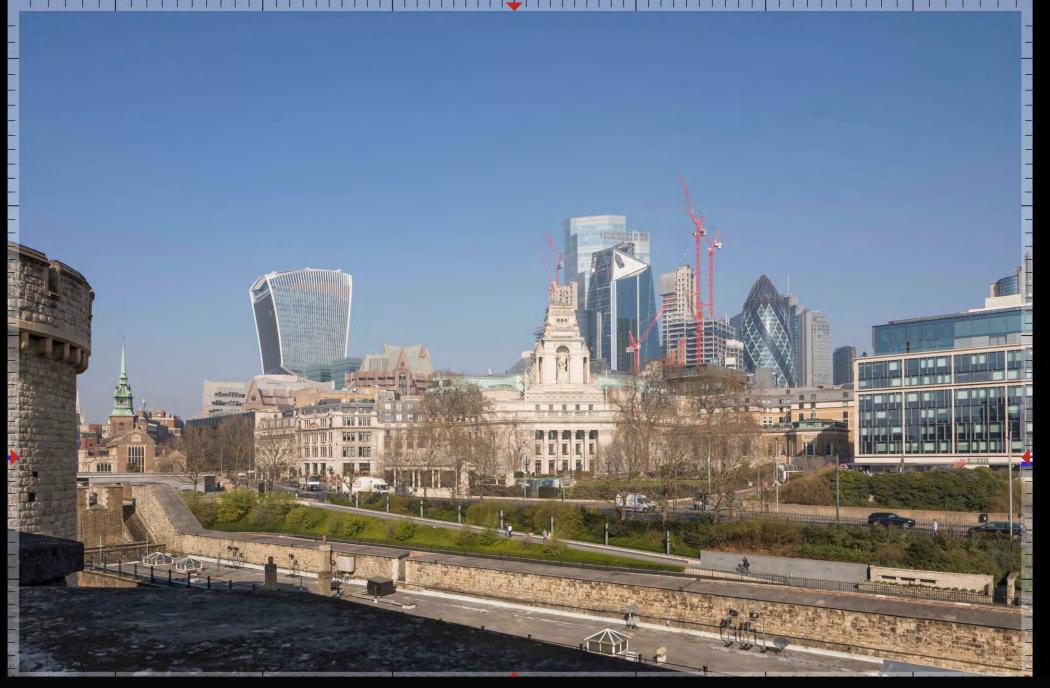
Cumulative: HTVIA View 11 - Tower Green, south-east corner



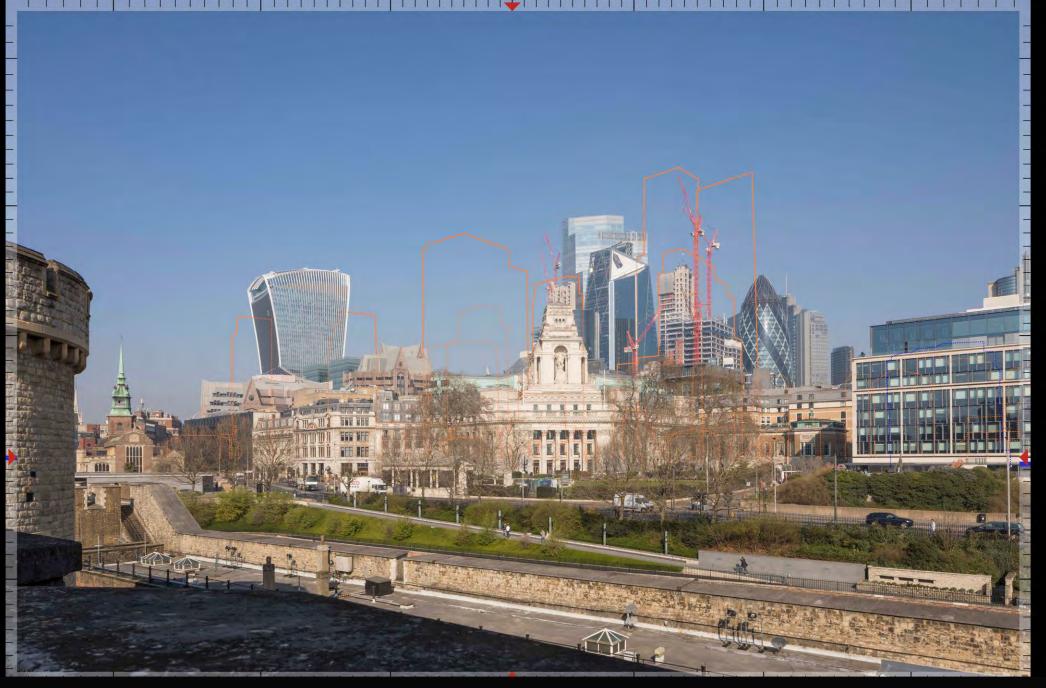
Existing: HTVIA View 12 - ToL Local Setting Study view 4: Inner Curtain Wall (South)



Cumulative: HTVIA View 12 - ToL Local Setting Study view 4: Inner Curtain Wall (South)



Cumulative: HTVIA View 13 - ToL Local Setting Study view 4: Inner Curtain Wall (North)



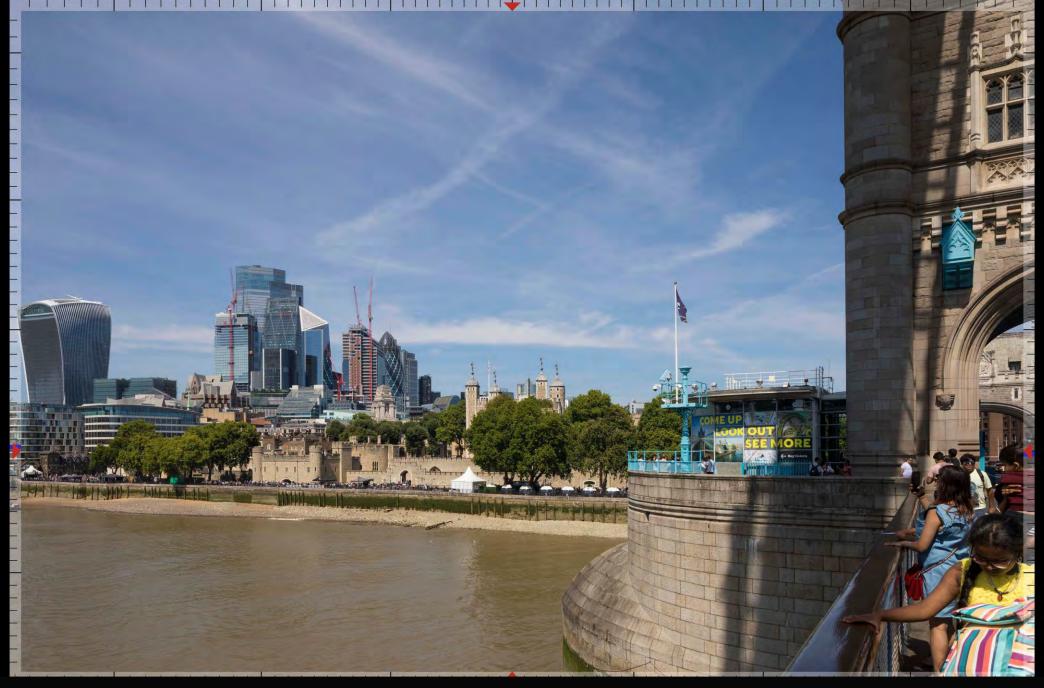
Existing: HTVIA View 13 - ToL Local Setting Study view 4: Inner Curtain Wall (North)



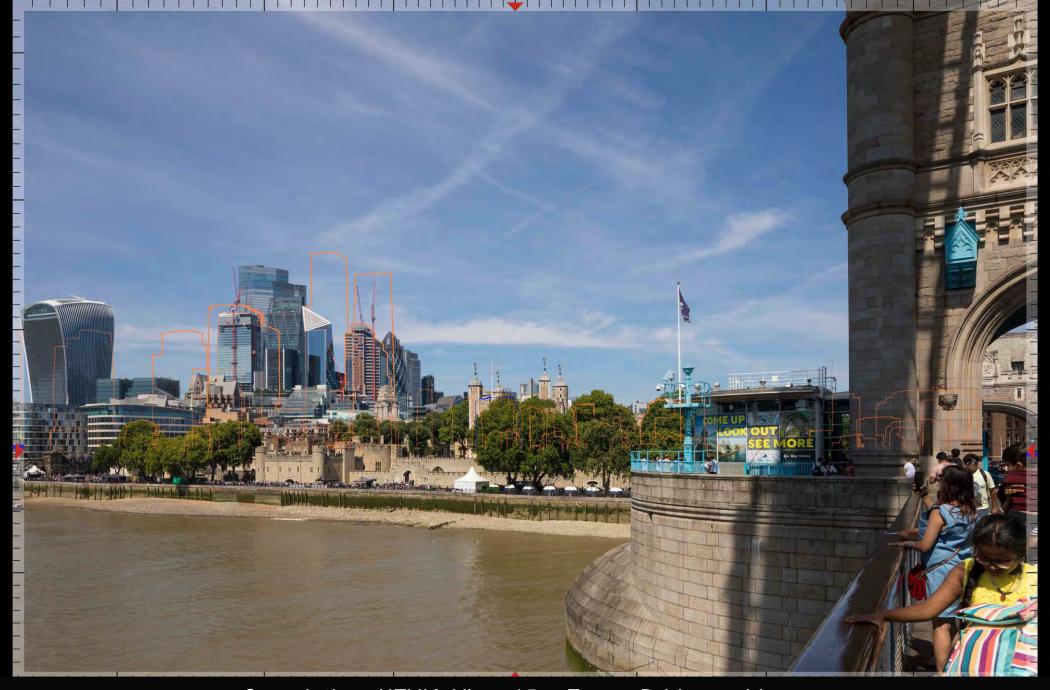
Existing: HTVIA View 14 – Tower Bridge LVMF 10A.1



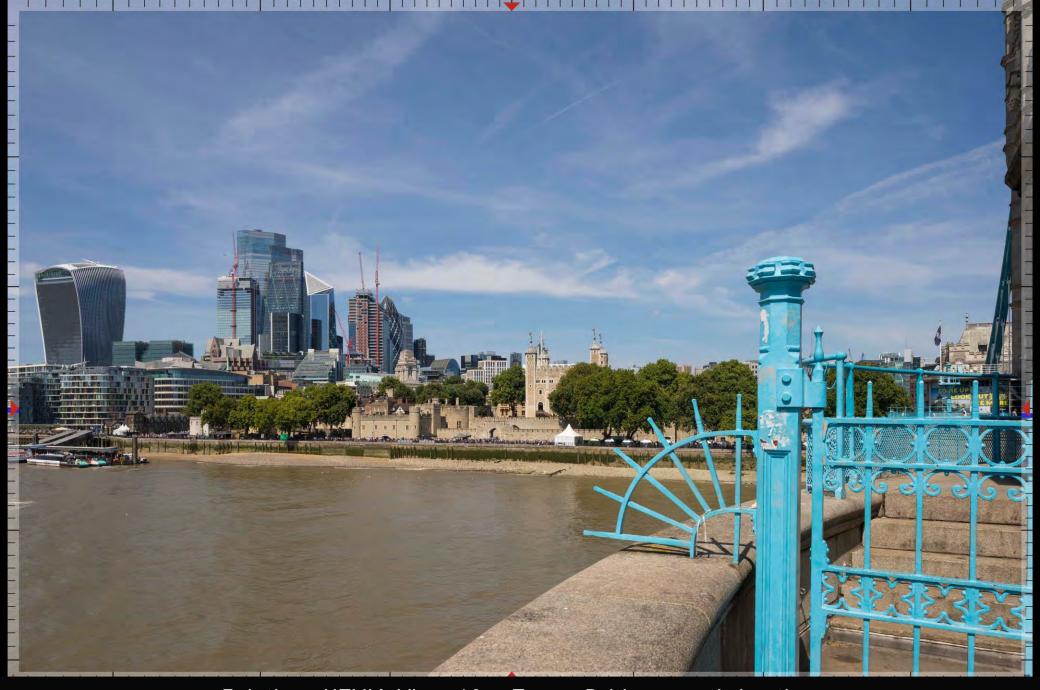
Cumulative: HTVIA View 14 – Tower Bridge LVMF 10A.1



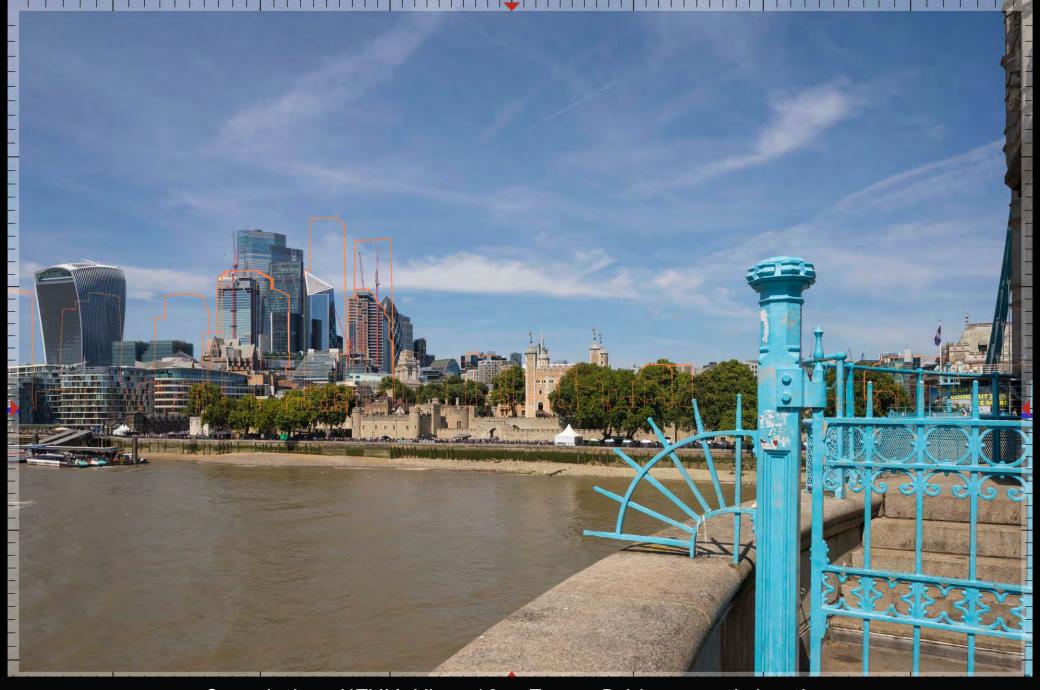
Existing: HTVIA View 15 - Tower Bridge, midway



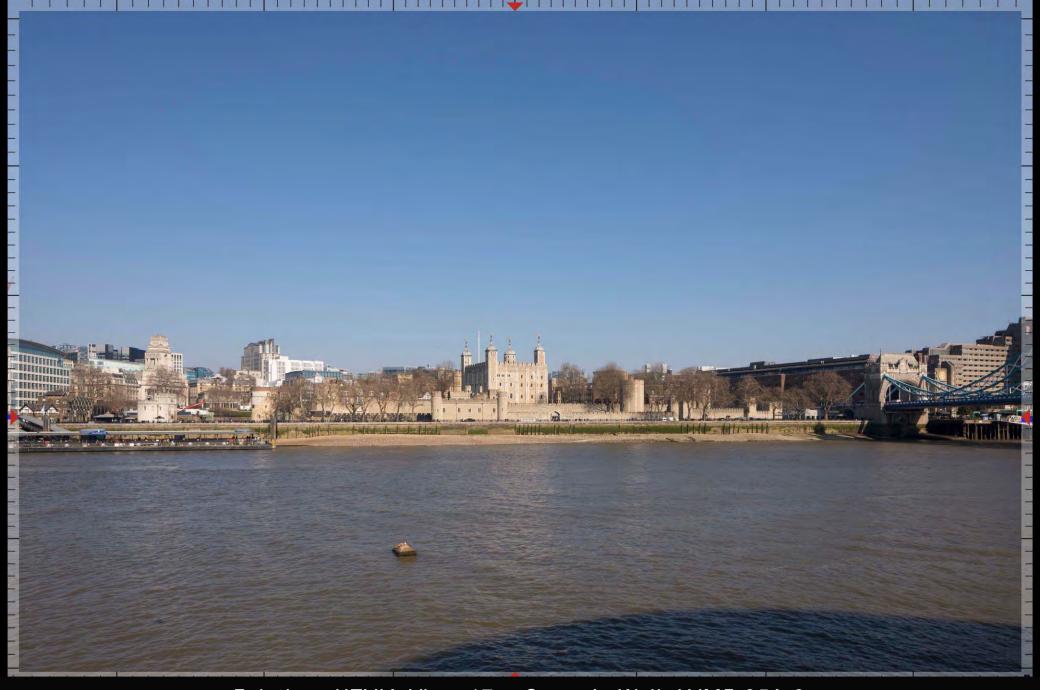
Cumulative: HTVIA View 15 – Tower Bridge, midway



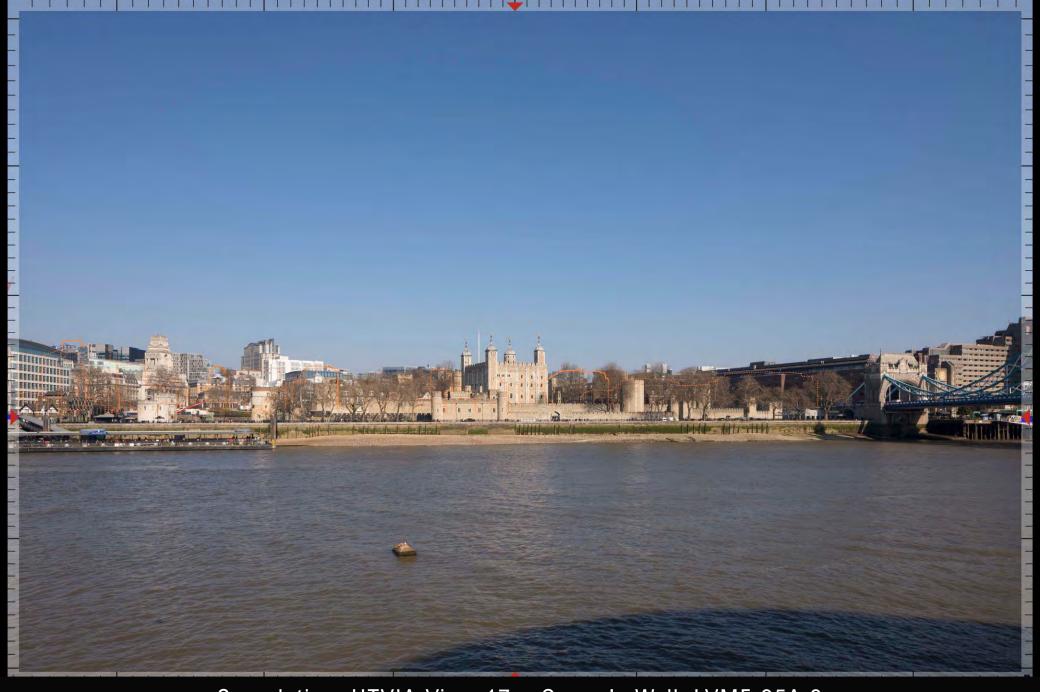
Existing: HTVIA View 16 - Tower Bridge, south bastion



Cumulative: HTVIA View 16 - Tower Bridge, south bastion



Existing: HTVIA View 17 – Queen's Walk LVMF 25A.2



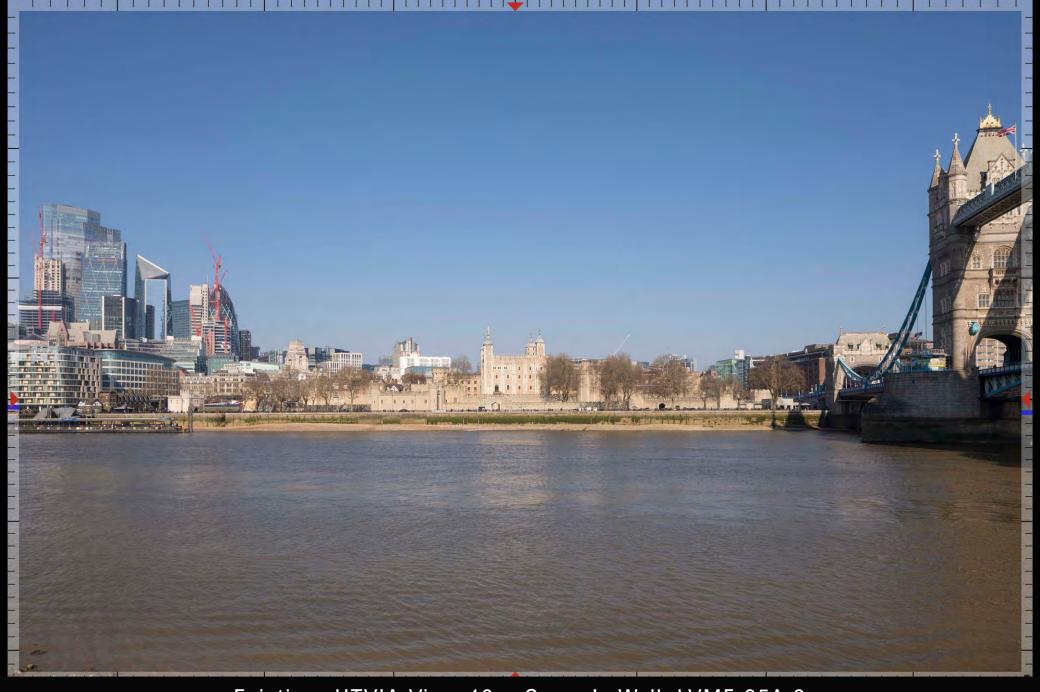
Cumulative: HTVIA View 17 - Queen's Walk LVMF 25A.2



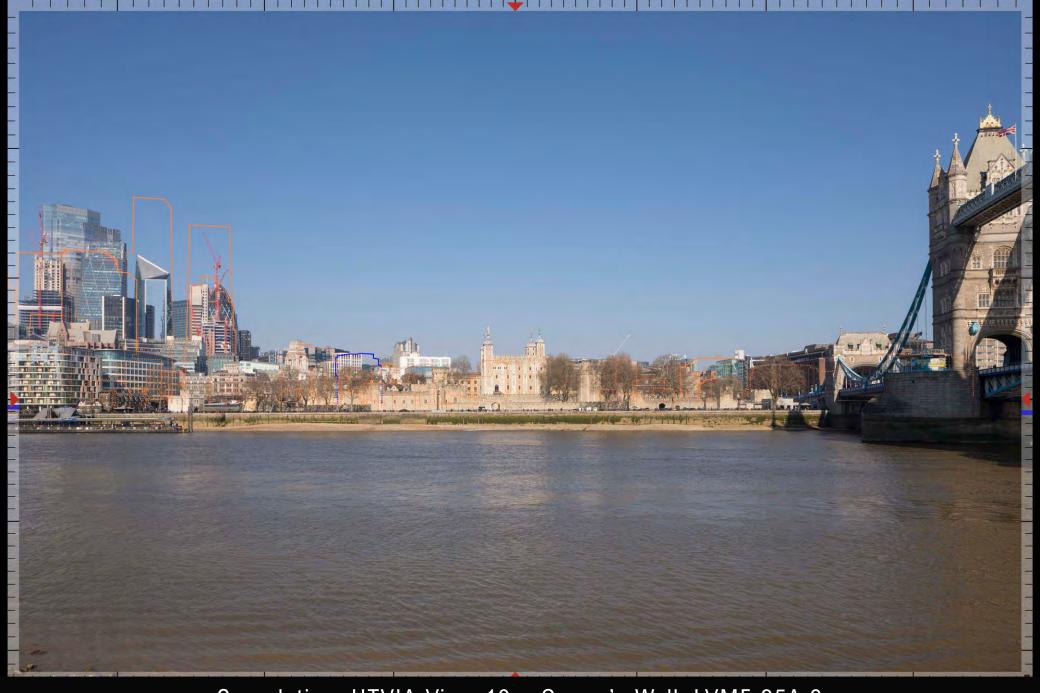
Existing: HTVIA View 18 - Queen's Walk LVMF 25A.1



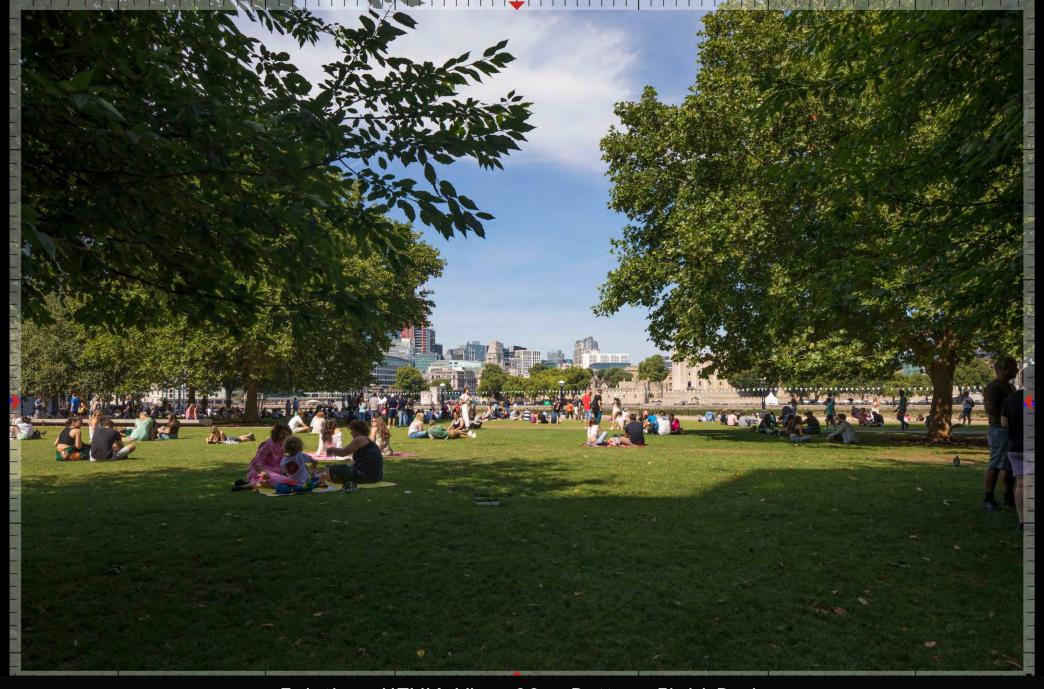
Cumulative: HTVIA View 18 - Queen's Walk LVMF 25A.1



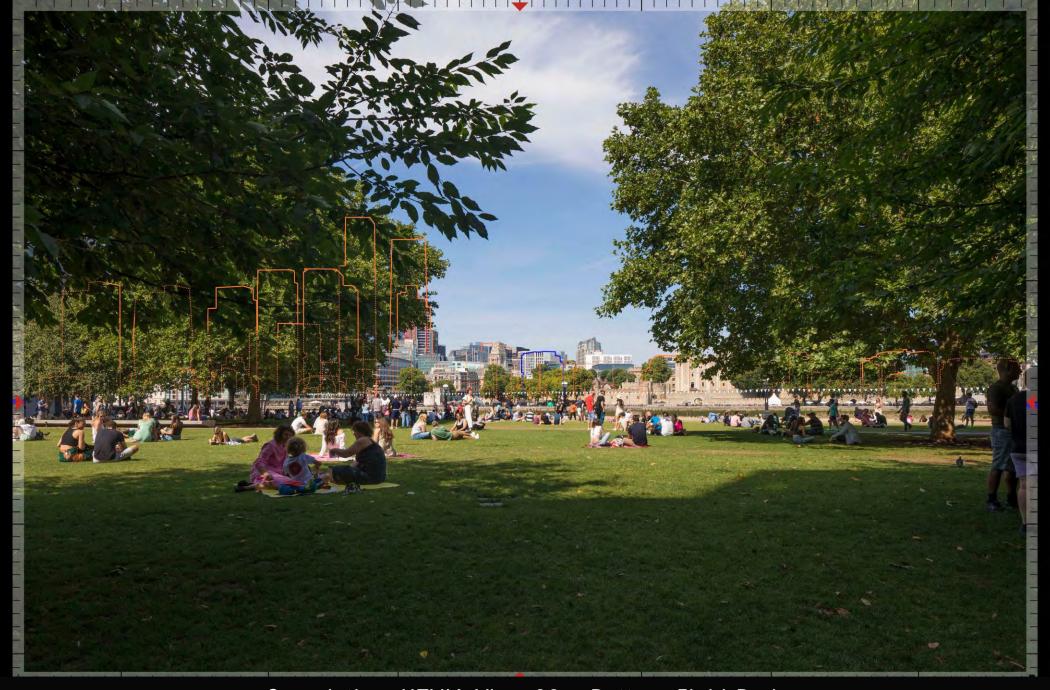
Existing: HTVIA View 19 – Queen's Walk LVMF 25A.3



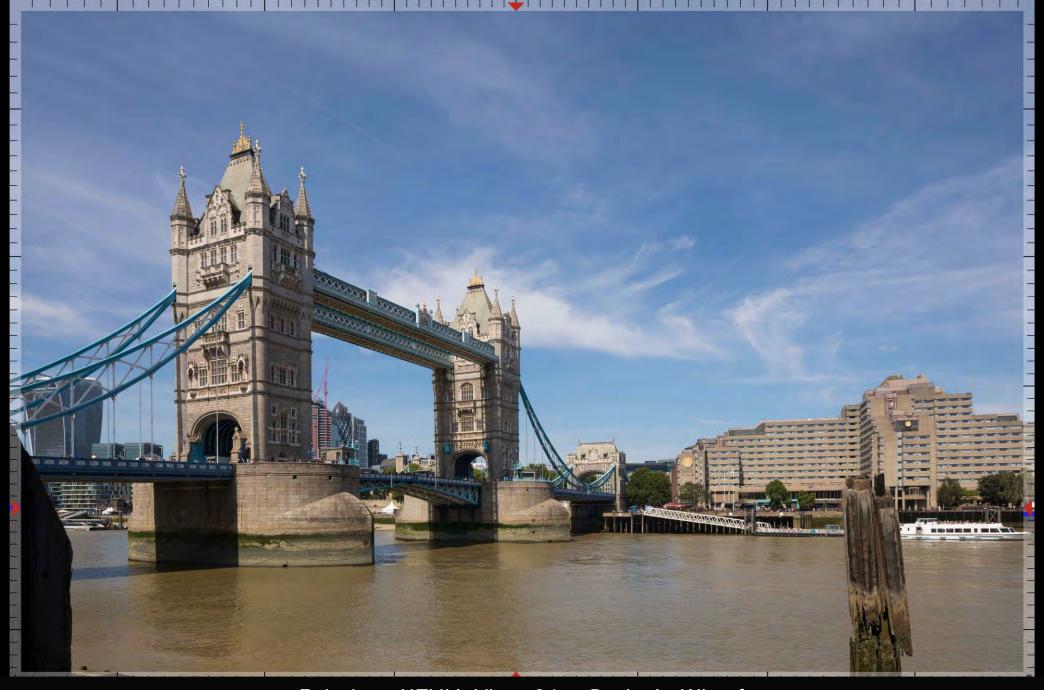
Cumulative: HTVIA View 19 - Queen's Walk LVMF 25A.3



Existing: HTVIA View 20 – Potters Field Park



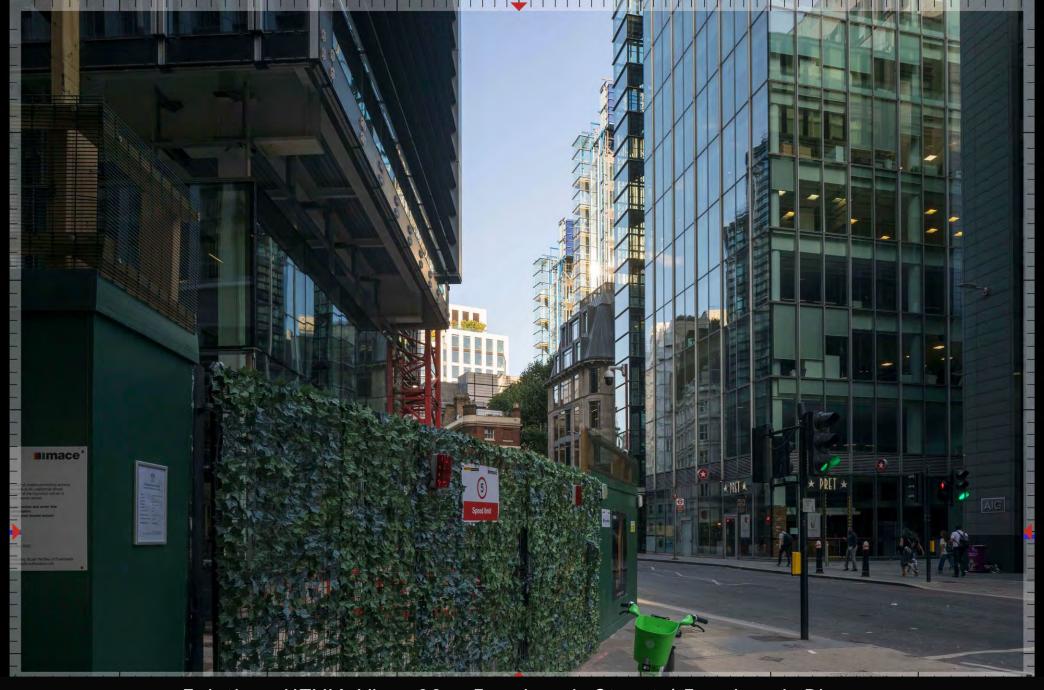
Cumulative: HTVIA View 20 – Potters Field Park



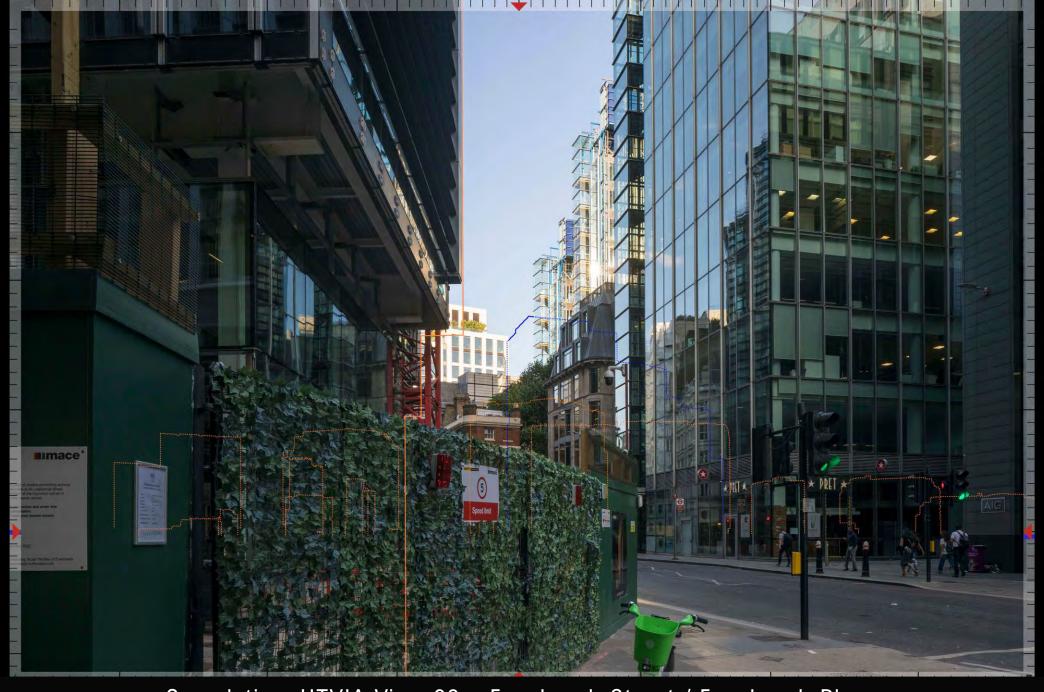
Existing: HTVIA View 21 – Butler's Wharf



Cumulative: HTVIA View 21 – Butler's Wharf

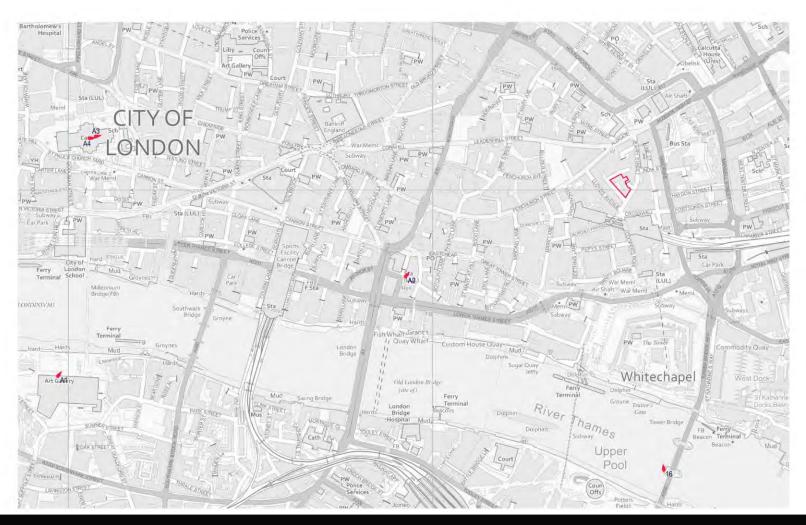


Existing: HTVIA View 22 – Fenchurch Street / Fenchurch Place



Cumulative: HTVIA View 22 - Fenchurch Street / Fenchurch Place

		MH Reference	. Туре	Method	Camera Location					HFOV				
View	w Description				Easting	Northing	Height	Camera	Lens	Photo	Image	Photo date/time	Bearing	g distance (km)
16	Tower Bridge: the south bastion	0250	AVR1 Wireline	Verified	533634.6	180231.6	14.75	Canon EOS 5D Mark IV DSLR	24mm	74.1	73.2	06/08/2022 13:50	352.1	0.8
A1	The Tate Modern Terrace	0500	Model	Estimated	531971.7	180489.0	34.35	Canon EOS 5D Mark II DSLR	24mm	73.2	73.2	22/02/2019 14:26	70.9	1.6
A2	The Monument Viewing Platform	0510	Model	Estimated	532926.0	180762.1	61.22	na	na	69.9	69.9	na	66.2	0.7
A3	St Paul's Cathedral, Stone Gallery	0520	Model	Estimated	532075.1	181146.1	73.99	Canon EOS 5D Mark IV DSLR	24mm	74.4	73.5	05/08/2022 15:15	94.7	1.5
A4	St Paul's Cathedral, Golden Gallery	0530	Model	Estimated	532058.4	181141.4	104.36	Canon EOS 5D Mark II DSLR	24mm	73.3	73.2	15/02/2019 15:04	94.5	1,5



Index of Supplementary Views



Existing: Supplementary View – A1 The Tate Modern Terrace



Cumulative: Supplementary View - A1 The Tate Modern Terrace



Existing: Supplementary View - A2 The Monument Viewing Platform



Cumulative: Supplementary View – A2 The Monument Viewing Platform



Existing: Supplementary View - A3 St Paul's Cathedral, Stone Gallery



Cumulative: Supplementary View – A3 St Paul's Cathedral, Stone Gallery



Existing: Supplementary View - A4 St Paul's Cathedral, Golden Gallery



Cumulative: Supplementary View - A4 St Paul's Cathedral, Golden Gallery

4 SCENARIOS OF VARYING LEVELS OF REFURBISHMENT AND NEW CONSTRUCTION





Deep refurbishment of the existing building and vertical extension with four additional floors



SCENARIO 2

New construction on the north wing of the site, retention of the substructure of the east wing of the site with new frame and slabs above grade in the east wing, and a deep refurbishment of the south wing of the existing building with a vertical extension of four additional floors



SCENARIO 3

New construction on the north and east wing of the site a deep refurbishment of the south wing of the existing building with a vertical extension of four additional floors



SCENARIO 4

Demolition of all the existing building and construction of new building retaining the existing basement walls

Diagram: Scenarios studied with varying degrees of refurbishment and new construction

SCENARIO 4 HAS THE LOWEST WHOLE LIFE CARBON PERFORMANCE

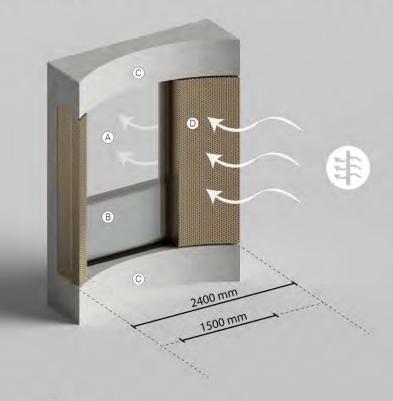




Diagram: Scenario 04 - retention of the existing substructure

TARGETING RESIDENCE RESIDENCE

OUTSTANDING



- (A) Window
- (B) Insulated solid panel
- C Horizontal cladding element
- D Perforated natural ventilation panel

Table 4 BREEAM credits that set out best practice in response to circular economy principles.

Credit		Credit Targeted	
Man 03	Responsible Construction Practices	Targeted Targeted	
Ene 01	Reduction of Energy Use and Carbon Emissions		
Ene 02	Energy Monitoring	Targeted	
Wat 01	Water Consumption	Targeted	
Wat 02	Water Monitoring	Targeted	
Mat 01	Life Cycle Impacts	Targeted	
Mat 02	Environmental Product Declarations	Targeted	
Mat 03	Responsible Sourcing of Materials	Targeted	
Mat 05	Designing for Durability and Resilience	Targeted	
Mat 06	Material Efficiency	Targeted	
Wst 01	Construction Waste Management	Targeted	
Wst 02	Sustainably Sourced Aggregates	Not targeted	
Wst 03	Operational Waste	Targeted	
Wst 05	Adaptation to Climate Change	Targeted	
Wst 06	Design for Disassembly and Adaptability	Targeted	
LE 01	Site Selection	Targeted	

TABLE OF BREEAM CREDITS TARGETED



ELIDNITLIDE



CARPET TILES



RAISED ACCESS FLOORING



CEILING TILES



PLASTERBOARD



CONCRETE



GLASS



GRANITE



TIMBER



METALS

Table 3: Reuse and recycling opportunities for KDPs identified

A A CAS COLOR AND A COLOR AND	PIACE	Barantostan.	Quantity		Name and Address to the	Optimal recycling	same as assistan
Material/product	EWC	Description	tonnes	Quantity m3	Reuse opportunity	opportunity	Issues to consider
		Structural elements, precast				(Upcycle) Higher value recycled aggregates for	separation from
Concrete	17 01 01	walls, stairs, mortar,			limited - could consider	road sub-base or	potential contaminant
				12/202			
		blockwork	10,386.38	4,546.57	some external features	concrete	follow Quality protoco
		Reinforcement, raised			High reuse potential for		400 3000 000 40
Steel	17 04 05	access flooring, ceiling	687	90	raised access flooring,	(Upcycle) All steel not	Reuse requires careful
		tiles/grid, wall frame, studwork			ceiling tiles (est. 77 tonnes = 11%)		removal and end user
						closed loop recycling	located
Glass	17 02 02	Internal glass panels;					Deconstruction/handli
					Reuse potential for	(Upcycle) remaining	g of internal glass; goo
	20.000	external glazing and			internal glass (24 tonnes =		segregation of externa
		windows	42.71	17.36	56% by weight)	recycling	glass
						(Upcycle) anything not	Separation from other
Aluminium	17 04 05	Aluminium window frames,	6.00	2.00	limited potential for reuse	reused will go for	metals to maximise
		door frames				closed loop recycling	recycling grade
						(Upcycle) anything not	Separation from other
Copper	17 04 05					reused will go for	metals to maximise
		pipework	2.70		limited potential for reuse	closed loop recycling	recycling grade
						(Upcycle) anything not	
Lead	17 04 05				Difficult to reuse	reused will go for	Reuse complicated by
		cladding	60.00	5.00		closed loop recycling	hazardous nature
						(Downcycle) limited	
Gypsum						closed loop recycling.	Manufacturers genera
	17 08 02					soil conditioner	do not accept post
		Plasterboard, plaster	136.21	177 94	Difficult to reuse	application more likely	consumer waste
		Transceration of pranter	100.61	471.55	Dillicon to reside	(Downcycle) low	consumer masse
						recycling potential,	
Carpet tiles	17 02 03				Reuse potential for less	could use as energy	Requires careful remov
		Carpet tiles	34.30	47.00			and end user located
Timber based	17 02 01	Studwork, window frames,	54.30	42.80	RAF, plywood, some studwork (est. 250 tonnes		and end user located
						(Downcycle) high	
		doors, raised access				recycling potential,	Reuse requires careful
		flooring (MDF), plywood					removal and end user
	_	partitions etc	279.53	450.70	- 89%)	feedstock route	located
Ceramic	17 01 03				medium potential for	(Downcycle) limited	
		Lancing and the second				closed loop recycling,	Reuse requires careful
						mixed inert fill more	removal and end user
		tiles; sanitaryware	9.09	3.79	sanitaryware	likely	located
						Water to the same of the same of	See if recycling option
Bitumen	17 02 01					(Upcycle) Recycling of	possible in UK. Separat
		The state of the s	10.00		And a series	asphalt back to	for recycling into fresh
		Asphalt roofing	61.20	30.60	limited	bitumen is possible	bitumen
						(Downcycle) limited	Explore options for
Insulation	17 06 04					unless carefully	supplier takeback,
HISUMESTON:	17 00 04					segregated and	otherwise likely to be
		PU, mineral wool insulation	26.74	534.76	limited.	takeback organisaed	landfilled
						(Upcycle) Could be	
olastics	17 02 03				Could be reuse potetnial	recycled through PVC	
plastics	17 02 03				in some flooring (similar	takeback schemes -	Contact relevant schen
		vinyl flooring	2.29	2.25	to Karndean)	recovinyl	provider for recycling
						(Upcycle) Higher value	
PARTIE	17 01 01					recycled aggregates for	Reuse requires careful
Stone	170101				Reuse potential linked to	road sub-base or	removal and end user
		façade granite cladding	100	- 2	ability to remove intact	concrete	located
					The same of the sa	(Downcycle) metal	
					Reuse potential for	items removed for	
	Appliances, furniture, lighting, other M&E equipment		See table 14		specific items such as recycling and other appliances, furniture and materials downcycles		
Other items							Reuse requires careful
						used for energy or	removal and end user
		report				located	
Total potential (tor	nnes)		See toble 14		368.00		

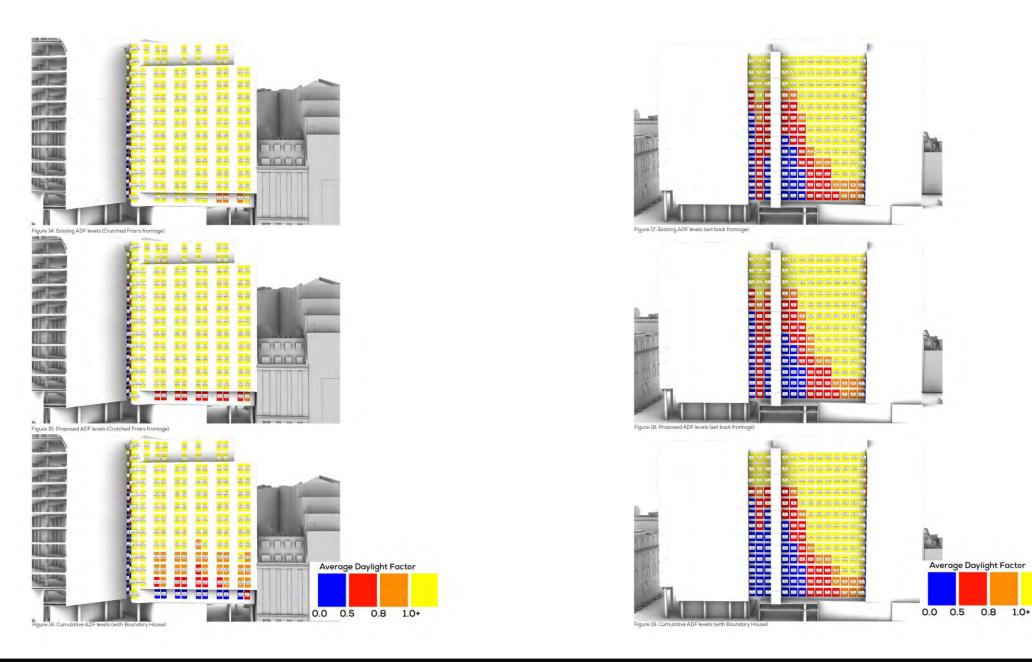
TABLE OF REUSE AND RECYCLING OPPORTUNITIES FOR KEY REUSABLE PRODUCTS



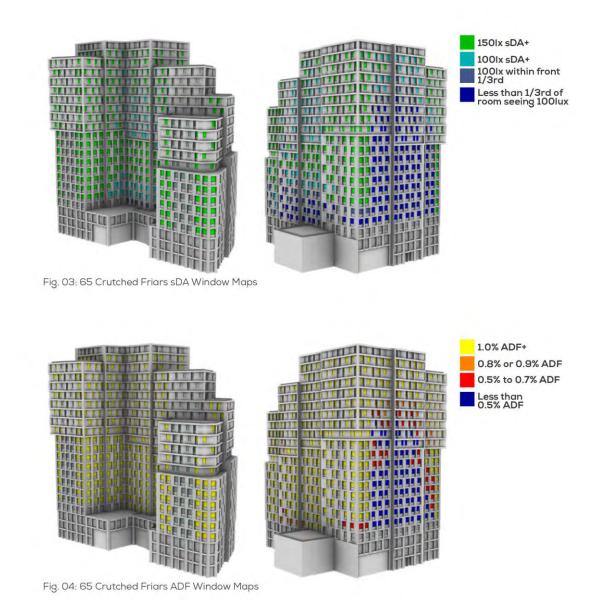
Diagram: Scenario 04 – improvement of operational carbon emissions

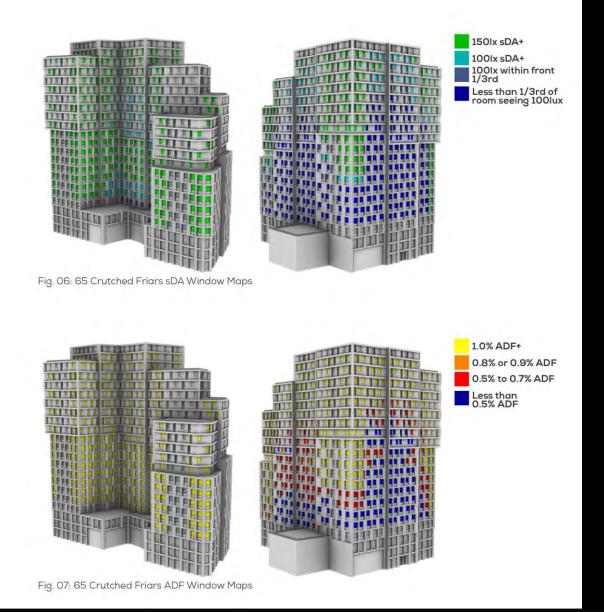


Context and Emerging Context impacting Daylight and Sunlight



ADF Daylight Impacts on Urbanest building - Existing (top) Proposed (middle) Cumulative (bottom)





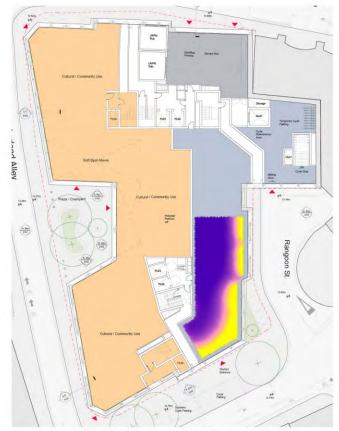


Figure 3: Ground Floor Student Amenity Space Daylight Performance



Figure 4: Second Floor Student Amenity Space Daylight Performance



These daylight distribution overlays show the percentage of annual daylight hours 150lux is achieved



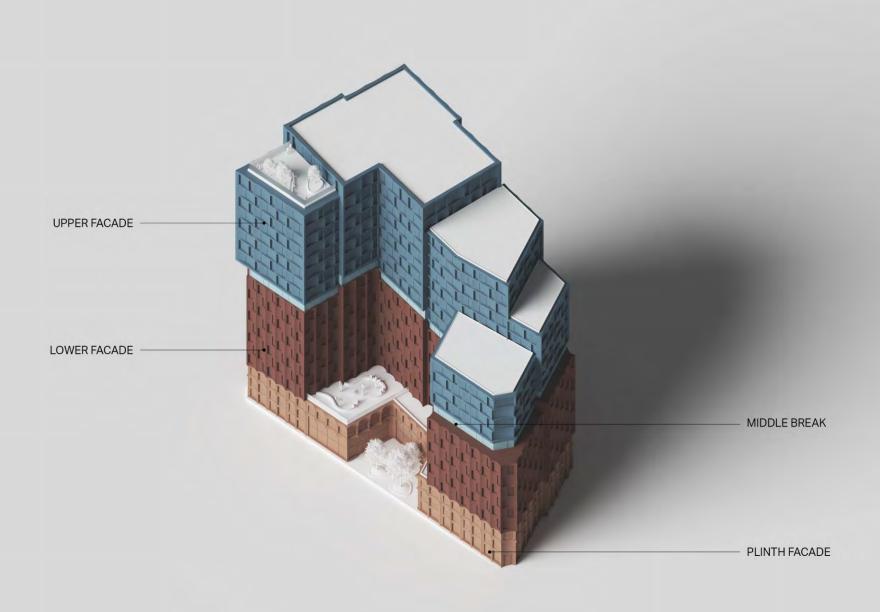


Diagram: Key façade types

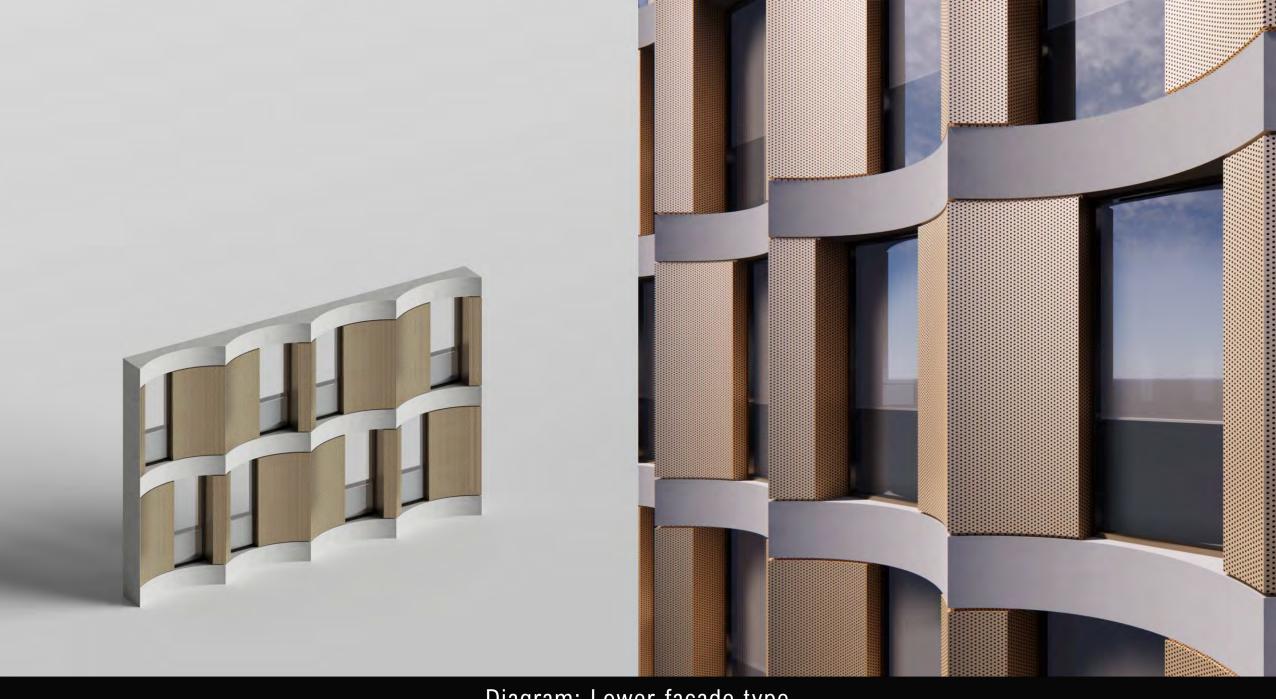


Diagram: Lower façade type

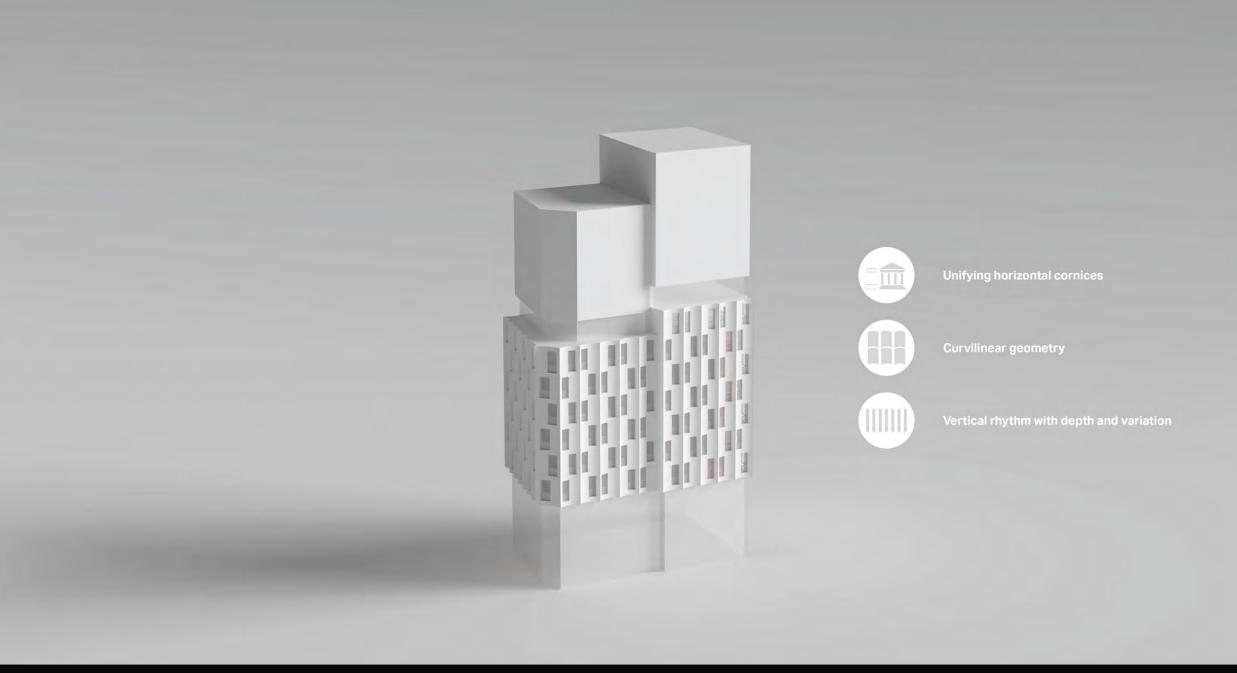


Diagram: Lower façade type characteristics

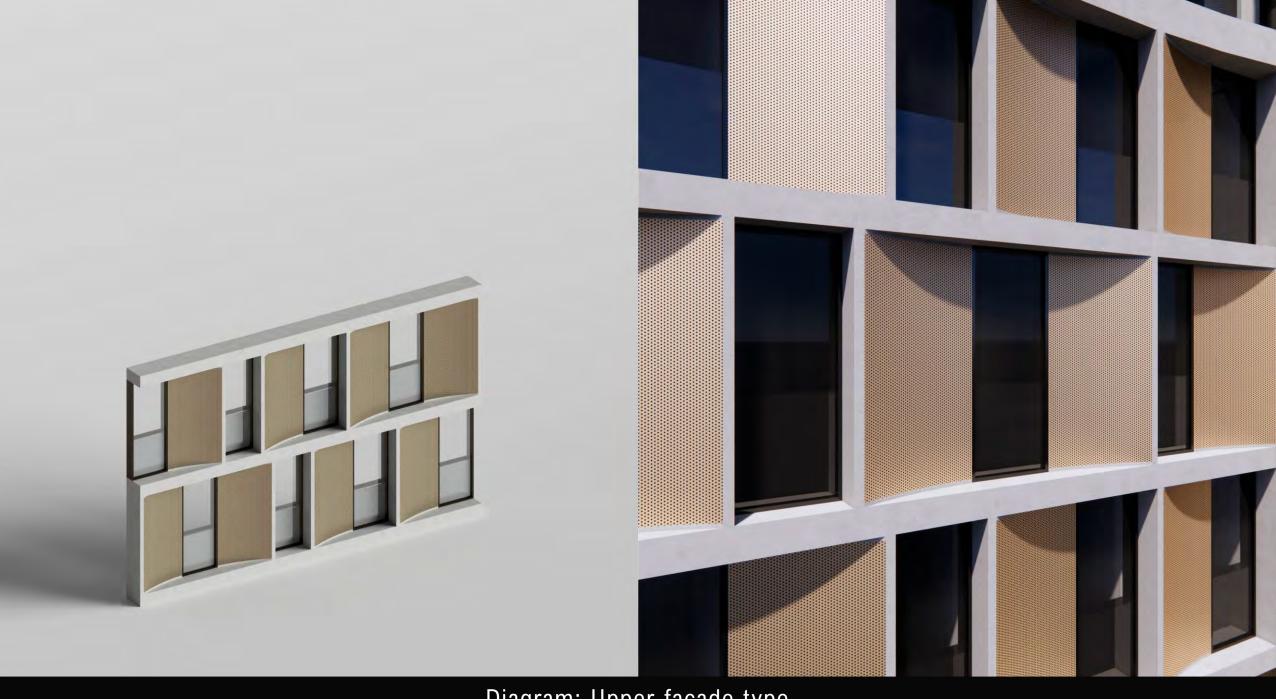


Diagram: Upper façade type

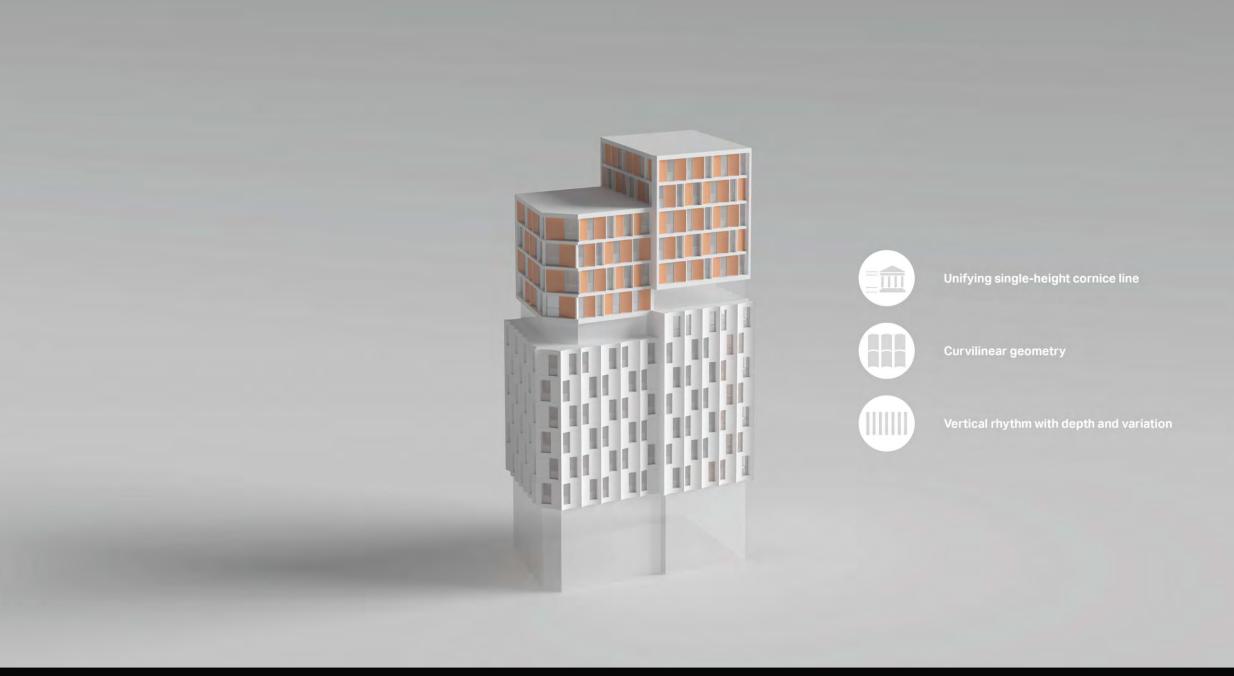


Diagram: Upper façade type characteristics

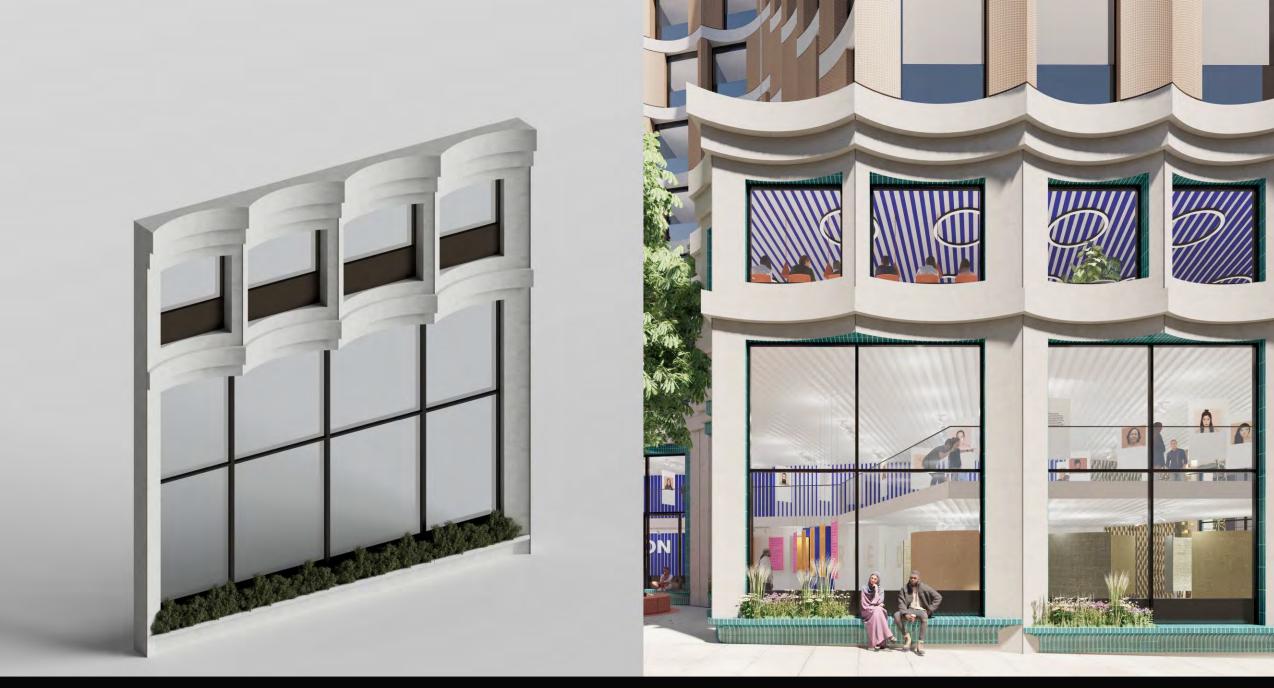
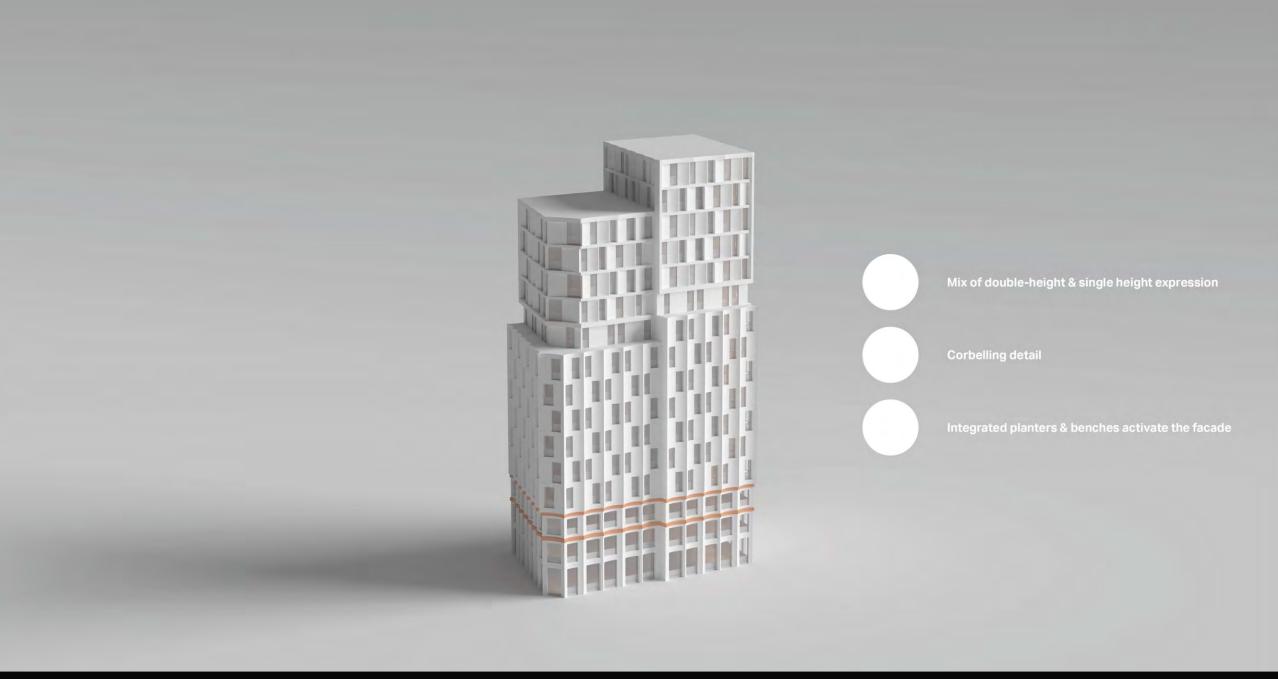
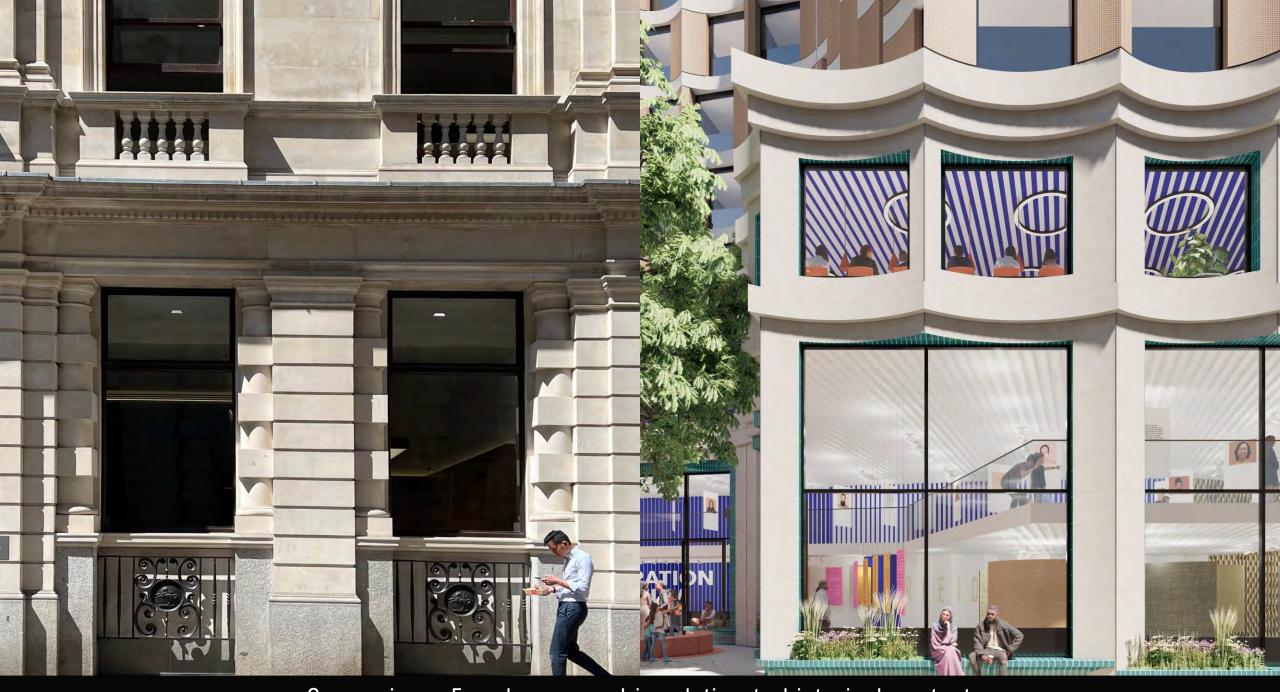


Diagram: Plinth façade type

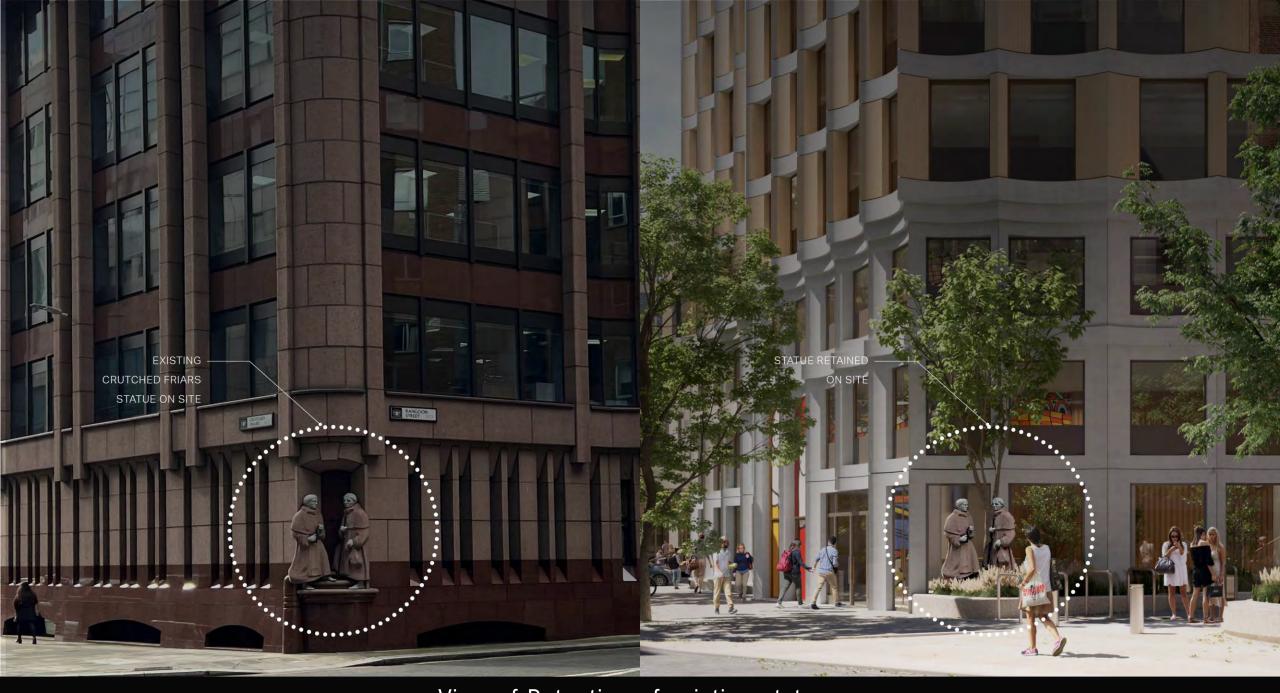




Comparison: Façade proposal in relation to historical context



Comparison: Façade proposal in relation to historical context



View of Retention of existing statues







Diagram: Entry and exit manoeuvre of service vehicles



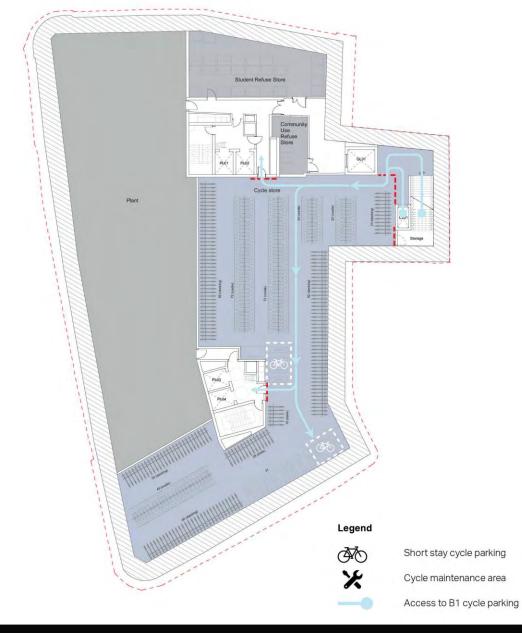
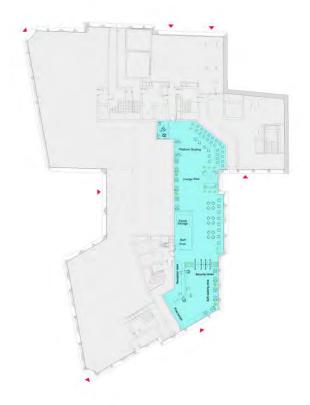
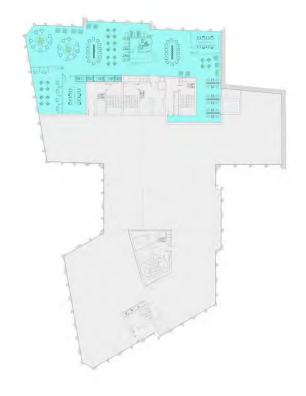


Diagram: Access and layout of cycle parking







Ground floor student amenity plan diagram

Reception & Office c. 300m²

Reception

Waiting / Lounge area

Office

Parcel Storage

Security Gates

Post Boxes

WC

Second floor student amenity plan diagram

Study Activities c. 400m²

Classic Study

Individual Study

Breakout/ Collaboration/ Workspace Areas

Counselling Room

Cafe

Storage

WC

Third floor student amenity plan diagram

Play Activities & Terrace c. 420m²

Cinema

Private Kitchen / Events Space

Cafe Bar

Video Games

Games Area

Gym

Amenity Lounge

Laundry

WCs

Storage

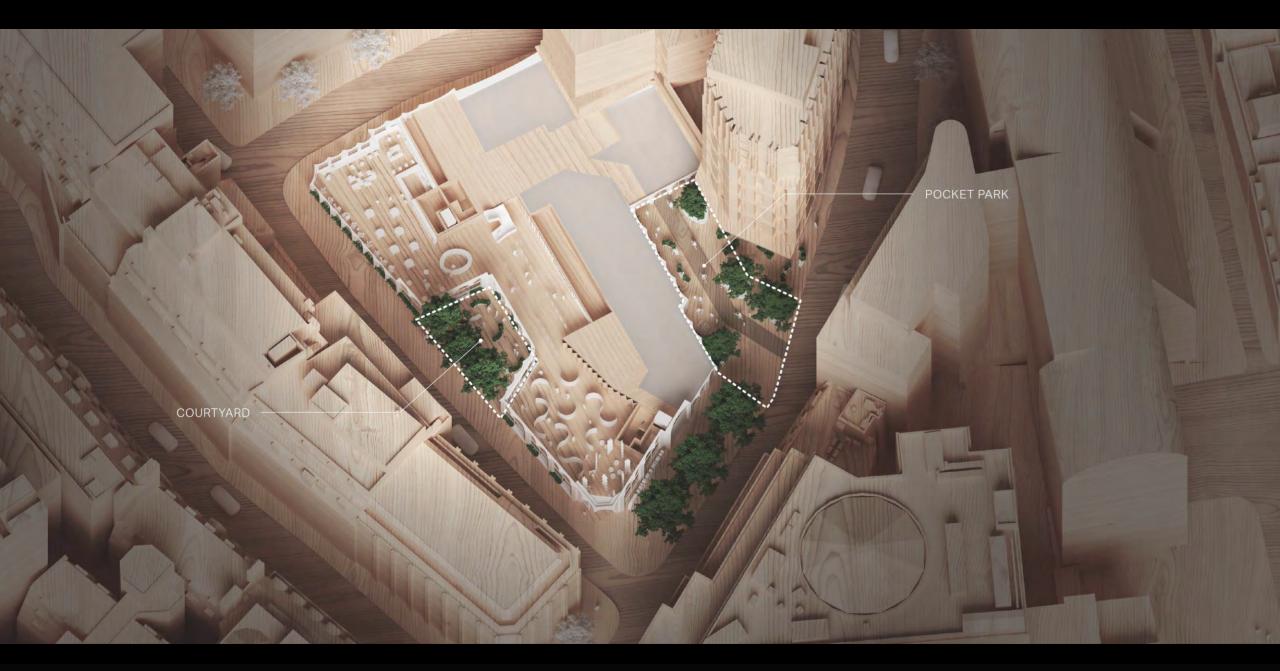


Diagram: New Public Green Spaces



Diagram & View: Courtyard along Northumberland Alley



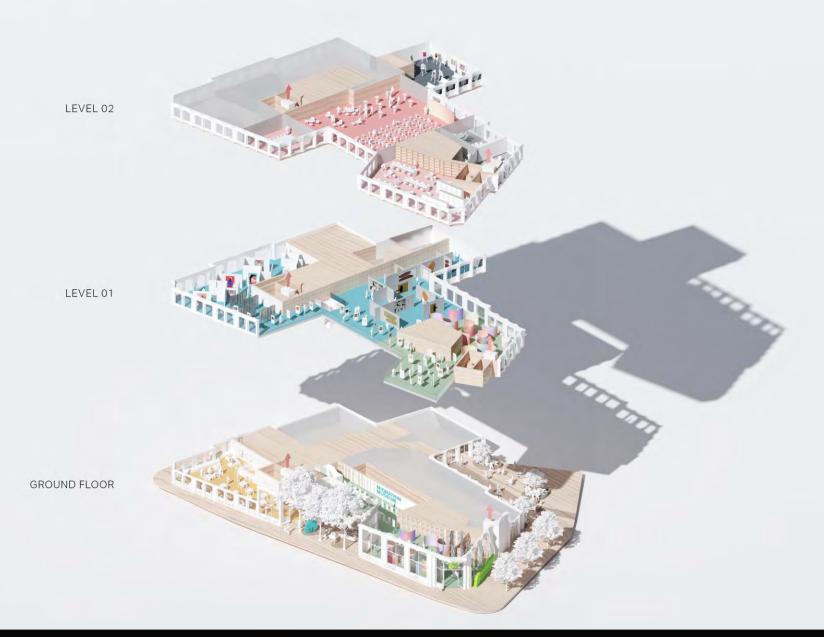
Diagram & View: Pocket park on Rangoon Street



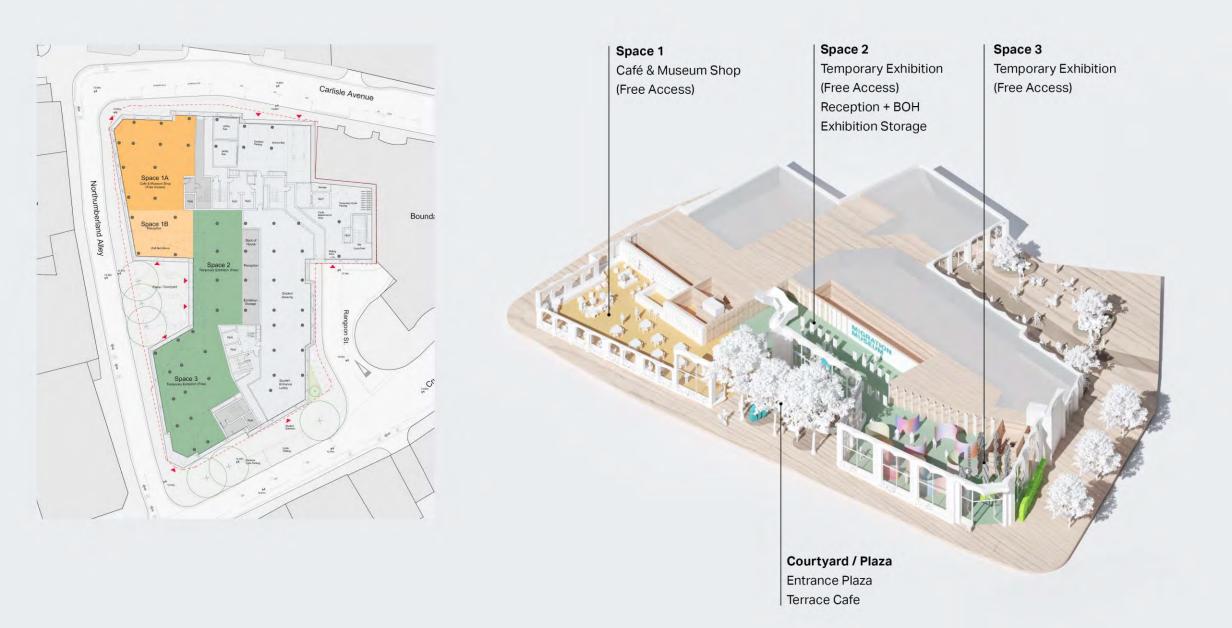
View of Migration Museum corner Entrance

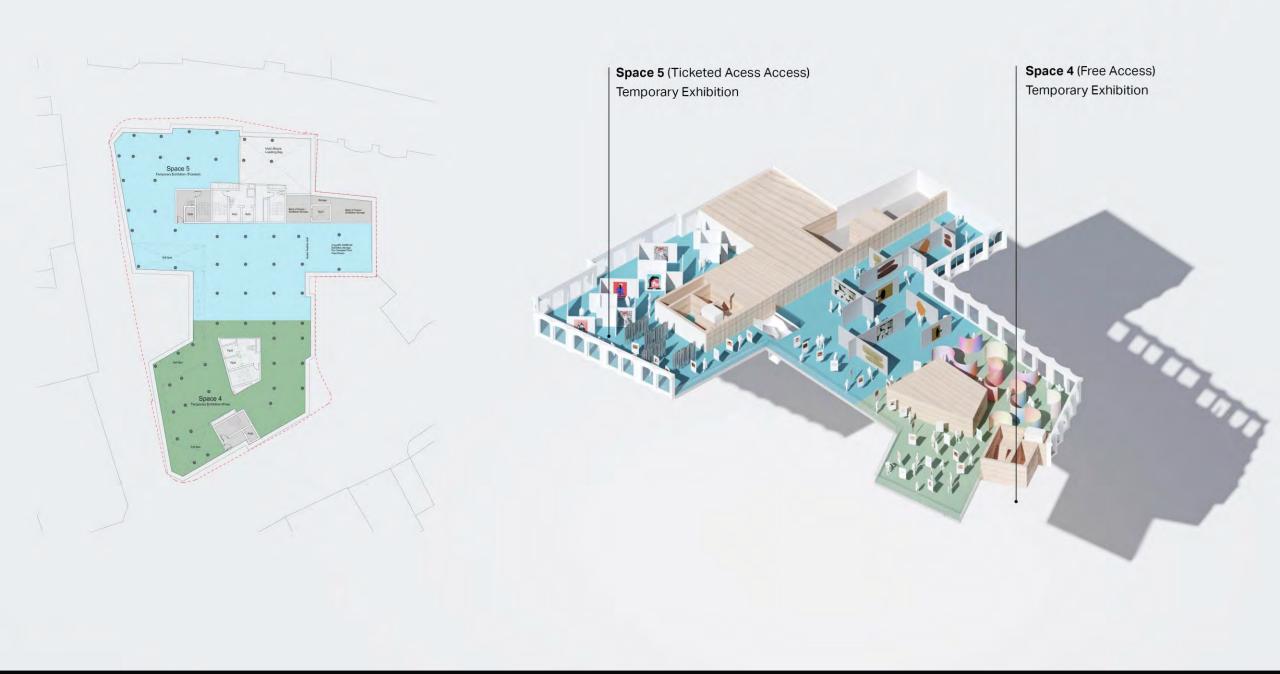


View of proposal from Crutched Friars facing west towards Rangoon Street

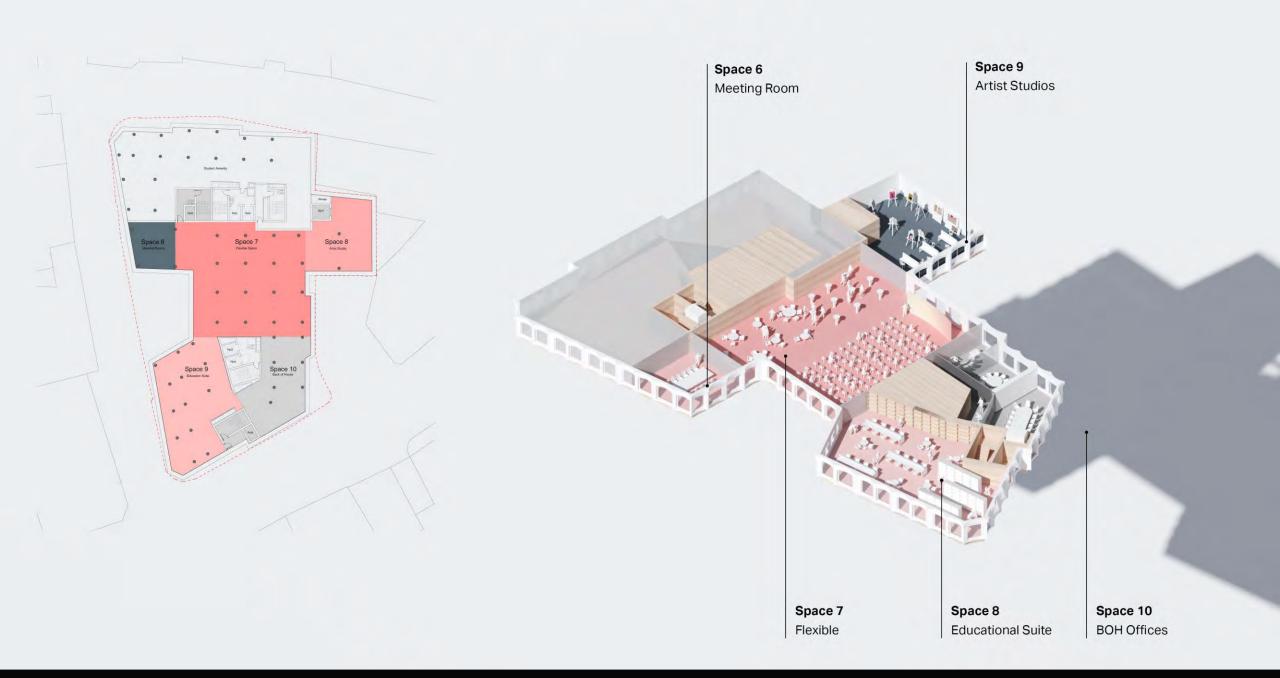


Exploded Axonometric Diagram of Migration Museum





Plan & Axonometric Diagram of Migration Museum Level 01



Plan & Axonometric Diagram of Migration Museum Level 02

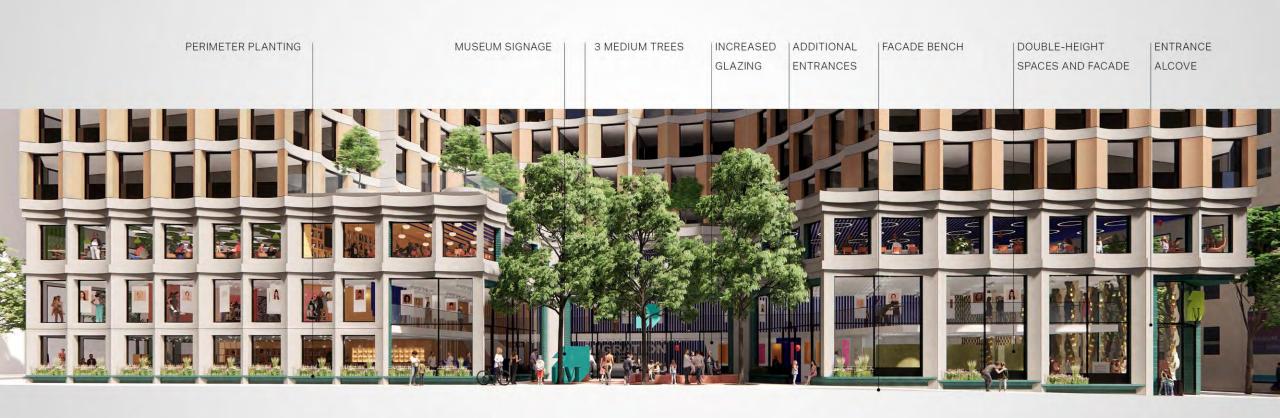




Diagram & Views: Tile Materiality with potential for further engagement



Next Planning Applications Sub-Committee