

Elemental Order of Cost Estimate

Preffered Option (3)

for and on behalf of:

London Borough of Southwark
Housing and Modernisation
Third Floor, Hub 3
160 Tooley Street
London
SE1 2QH

Date

25 November 2019 K180809/E8/0263/JCH/G3

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Ledbury Estate Structural Strengthening Works



Elemental Order of Cost Estimate

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1. Executive Summar

- This report has been prepared to advise the updated estate refurbishment costs including our estimated cost of structural strengthening works as detailed in Arup's report dated 24th October 2019.
- In summary, the Arup report identifies the following structural repairs: 1.2
 - Demolition and reconstruction of existing communal stair and lift core serving the residential dwellings
 Construction of rooftop steel frame to support strengthening structure

 - Construction of new steel structure to provide support to existing panels and floors from floor 8 to roof level in the event of partial collapse
 - Construction of new "jacket" to strengthen shear wall from Ground to 14th floor
 - Construction of new frame to support / strengthen wall between 1 bed flats from Ground to 4th Floor
 - Removal of existing floor screeds to all levels and replacement with new reinforced structural screed
 Construction of new foundation slab to support new structures and strengthen existing footings

 - Replacement of existing external cladding system
- 1.3 The following works are modelled in this estimate:

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- Structural reinforcement works to include all stripping out and reinstatement of affected areas including floors, ceilings, sanitaryware, mechanical and electrical installations, fixtures and fittings etc.
- Permanent fire stopping
- Making good cracks / gaps between external wall panels and intermediate cross-wall panels.
- Heating.
- Communal Satellite TV System and Broadband.
- Renewal of all service pipes, waterproofing to WC and bathroom floors, renewal of existing soil stacks and renewal of communal cold water tanks. ~
- Improvements to ventilation to stairways and landings where cold bridging, condensation and ingress of rainwater causing trip/slip hazards.
- Renew existing lifts. "
- Provide improved insulation to the flats and (communal areas ~).
- Repair/renew key building components such as roofs and windows.
- Improve illumination to stairways and communal areas.
- Improve water pressure to upper floors (booster pumps).
- Subsequent to the first iteration of this estimate, Arup have undertaken further investigations and devised a more extensive solution for stabilising the existing structures to allow continued safe 1.4 occupation. A consequence of the increased scope of the remedial structural works is the works identified above are subsumed into the strengthening works and can no longer be considered optional. Options 1 and 2 that were previously identified cannot now be considered as distinctly separate solutions.
- The estimated costs cover works to the following properties: 1.5

	LEDBURY ESTATE											
BLOCK	CONSTRUCTION YEAR	NO. STOREYS	NO. UNITS	ACCOMMODATION	GIA	STRENGTHENING WORKS						
Sarnsfield House	1969	14 storey tower	56	10nr 1B Flats 10nr 3B Flats 36nr 2B Flats	4,522	Works as set out in Arup Report: Demolish and rebuild communal access core (steel framed construction assumed). Rooftop steel frame and suspension system to support floors 8-14 Reinforced concrete raft foundation to support jacketed shear wall from floors G-4 Structural steel frame to support separating wall between 1 bed flats G-4th floor						
Skenfrith House	1969	14 storey tower	56	28nr 1B Flats 28nr 3B Flats	4,522	Works as set out in Arup Report: Demolish and rebuild communal access core (steel framed construction assumed). Rooftop steel frame and suspension system to support floors 8-14 Reinforced concrete raft foundation to support jacketed shear wall from floors G-4 Structural steel frame to support separating wall between 1 bed flats G-4th floor						
Peterchurch House	1970	14 storey tower	56	28nr 1B Flats 28nr 3B Flats	4,522	Works as set out in Arup Report: Demolish and rebuild communal access core (steel framed construction assumed). Rooftop steel frame and suspension system to support floors 8-14 Reinforced concrete raft foundation to support jacketed shear wall from floors G-4 Structural steel frame to support separating wall between 1 bed flats G-4th floor						
Bromyard House	1968	14 storey tower	56	10nr 1B Flats 10nr 3B Flats 36nr 2B Flats	4,522	Works as set out in Arup Report: Demolish and rebuild communal access core (steel framed construction assumed). Rooftop steel frame and suspension system to support floors 8-14 Reinforced concrete raft foundation to support jacketed shear wall from floors G-4 Structural steel frame to support separating wall between 1 bed flats G-4th floor m ²						

Accommodation per block									
1B Flat	76	Tenanted	191						
2B Flat	72	Leasehold	33						
3B Flat	76		224						
	224								

The estimate generates the following headline costs:

Preffered Option (3)									
	Total Cost	Cost £/m² GIA	£/dwelling						
Structural and associated Essential Works	85,158,419.50	4,708	380,172						
Heating Works *1	4,320,000.00	239	19,286						
Broadband Installation *2	235,000.00	13	1,049						
TOTAL COST	89,713,419.50								

- *1 Lump sum for Heating Works. These costs should be taken as indicative; the project is at feasibility stage and there is limited design information available
- *2 Lump sum allowance for broadband installation; indicative costs are used for the purpose of this exercise. They will vary according to the specification selected.
- *3 Landscaping works lump sum allowance assumes a mix of hard and soft landscaping the design of which is to be determined.
- 1.7 Tender inflation: Costs are current at 4Q2019. No adjustment has been made for inflation to any potential future tender date
- 1 8 Construction inflation: Is excluded from the estimated costs above



The content of the		2. Essential Works - Ledbury High Rise Blocks			Preffered Option (3)								
1				İ	Sarnsfi	eld House	Skenfri	th House	Peterchi	urch House	se Bromyard House		
Proceedings Process		Item	Unit	Rate	Quant	(£)	Quant	(£)	Quant	(£)	Quant	(£)	
Description of the control of the		Strip off existing wall paper within flats								*		17,397.00	
Company of the control proposed Comp								· ·		·		5,712.00	
Company Comp		strengthening works								·		9,025.00	
Description of the Control of the						· ·				·		11,200.00 8,400.00	
Second Column	6	Strip out existing carpet/vinyl within flats, including skirtings	m²	1.00	3,808	3,808.00	3,808	3,808.00	3,808	3,808.00	3,808	3,808.00	
1						The state of the s				· ·		380,800.00 420,000.00	
1.5		Allowance for re-checking fire stopping. Assumed all fire stopping measures										1,000.00	
1.	10									·		74,900.00	
Second Continues of Continues and Continues of Continue		Allowance for access covers to fire stopping of vertical and horizontal joints						· ·		1		56,000.00	
Bell		· ·						· ·		·		10,000.00	
A		Removal of existing partition wall between bedroom, protected hall and		·				· ·				15,760.00	
Best	14		item		1		1		1	·		3,000.00	
2. Content of the company of the content of the	15	Allowance for fire stopping to vent grille into protected hall	item	6,000.00	1	6,000.00	1	6,000.00	1	6,000.00	1	6,000.00	
Page			nr							·		33,600.00	
Page	17		item	5,000.00	1	5,000.00	1	5,000.00	1	5,000.00	1	5,000.00	
20 100	18		m	25.00	202	5,050.00	202	5,050.00	202	5,050.00	202	5,050.00	
Months 1	19	Fire stopping gap between wall and floor in bathrooms	m	25.00	95	2,375.00	95	2,375.00	95	2,375.00	95	2,375.00	
1.0	20		item	5,000.00	1	5,000.00	1	5,000.00	1	5,000.00	1	5,000.00	
22 Construction of comment and search of comment and search force 1.500	21		item	28 000 00	1	28 000 00	1	28 000 00	1	28 000 00	1	28,000.00	
2.5								· ·		·		105,000.00	
25 Control and communications and the com						· ·				·		105,000.00	
20				,		· ·				*		937,500.00	
1.5						,				· ·		250,000.00 5,620,000.00	
25 Description Continues 1 2,000 20 3,000 2		, ,, ,, ,		-,,								558,000.00	
20 Communication for through enhanging for some for some foreigness 11	27	Suspended frame, picking up floors 8-14 (fire protected, max 1.2m lengths)	t	3,300.00	195	643,500.00	195	643,500.00	195	643,500.00	195	643,500.00	
20 Submers of the Control of the												66,000.00	
180 State and information					,		•		•		•	307,500.00 86,000.00	
12.5 December conservation of mans (i)										*		112,500.00	
12 Security of the content of th						· ·				·		375,000.00 117,978.64	
133 New element Confider (Consequence for incidente) systemic systems 1.00								· ·		*		155,000.00	
15 Secret was not excissed with 15 as above installation of six expectation 1	32a	Install new ground floor slab (beam and block)	m²	100.00	280	28,000.00	280	28,000.00	280	28,000.00	280	28,000.00	
1.5 Section continues for contractant while, including stamp planet and production of the contraction of	33	New external cladding (allowance for insulated panellised system)	m²	600.00	1,204	722,400.00	1,204	722,400.00	1,204	722,400.00	1,204	722,400.00	
3 Place and decoration of invisional and wishing to a provided decoration of invisional and and advantage of a provided distings 17 12-500 12-50 12-500	34	9	item	14,000.00	1	14,000.00	1	14,000.00	1	14,000.00	1	14,000.00	
17	35		m²	30.00	392	11,760.00	577	17,310.00	577	17,310.00	392	11,760.00	
38 New Yord Homogra Event cromos including covered siderrings						· ·				*		178,750.00	
30 1,200 276 1,200 2		y y				· ·				·		54,180.00 32,760.00	
A New Care Service (Lites to Michee), WC and Dathmoon walls affected by the strengthening works. 1,865 64,175,00 1,8						· ·				·		14,280.00	
Part Company	40	· ·	m	12.00	4,106	49,272.00	3,900	46,800.00	3,900	46,800.00	4,106	49,272.00	
All Install new LG2 system to 28 flats	41		m²	35.00	1,805	63,175.00	1,805	63,175.00	1,805	63,175.00	1,805	63,175.00	
A		,				· ·		25,200.00		25,200.00		9,000.00 39,600.00	
46 Range of Nichren Filtings and vorticips to 18 Hats. 7 Range of Nichren Filtings and vorticips to 28 Hats. 87 Range of Nichren Filtings and vorticips to 38 Hats. 88 Range of Nichren Filtings and vorticips to 38 Hats. 89 New docts of totchen (scrubded) 50 New access don'to protected lobby, Sextuding WC and bathroom doors 51 Range of Nichren Filtings and vorticips to 38 Hats. 52 Range of Nichren Filtings and vorticips to 38 Hats. 53 Range of Nichren Filtings and vorticips to 38 Hats. 54 Range of Nichren Filtings with pash as the 100 Market of		·				· ·		35,000.00		35,000.00		12,500.00	
A Range of Michine fittings and worksop to 28 flats.												61,600.00	
49 New door to litchen (Excluded) New door to litchen (Excluded) New door to protected lobby, Excluding WC and bathroom doors New door cortical protected lobby, Excluding WC and bathroom doors New door cortical protected lobby, Excluding WC and bathroom doors New door cortical protected lobby, Excluding WC and bathroom doors New door cortical protected lobby, Excluding WC and bathroom doors New door cortical phase and such cortical phase and s		·						70,000.00		70,000.00		25,000.00 97,200.00	
New access door to protected lobby, Excluding WC and bathwoom doors nr 700.00 224 156,800.00 224					10	29,000.00	28	81,200.00	28	81,200.00	10	29,000.00	
Range of sanitary appliances comprising close coupled wc., pedestal with, tay, and but including buth pared and tapic. Advanues for P praceh. Assumed 50x of the root area to Sarrafield House and stronger of the part of		, , ,				-		-		-		-	
21 10ps and bath (including bath panel and taplo). Allowance for Py Panels. Assumed 15pol. Embling works - Other products of the parels of the parels. Allowance for Py Panels. Assumed 15point per property	50	, , ,	nr	700.00	224	156,800.00	224	156,800.00	224	156,800.00	224	156,800.00	
Allowance for PV panels. Assumed 80% of the roof are to Samfaled House and 8 romyard House after block) 5 and Peterfurch House and 50% of the roof are to Samfaled House and 8 romyard House (Pro-rata per block) 5 command statilities system. Assumed 1 point per property 6 faabling works - electrical installations within dwellings; disconnect and 6 remove existing accessories, romove existing wiring and remove all existing or 520.00 5 6 29,120.00	51		nr	2,000.00	56	112,000.00	56	112,000.00	56	112,000.00	56	112,000.00	
Stromyard House (Pro-rata per block) Stromyard House (Pro-rata per block)		Allowance for PV panels. Assumed 80% of the roof area to Sarnsfield House											
Sail Communal statellite system. Assumed 1 point per property Enabling words - electrical installations with indivellings: disconnect and remove elixing accessories, remove existing wiring and remove all existing containants an encessary. Enabling words - Boron entry system including Identify, solidate and disconnect done remove control set of the remove all existing words. Properties and strictions the remove all crisis in control in the remove all crisis and services and existing words. Communal electrics including removal of main and substance and remove all cable containants and services and existing equipment for resue). Enabling words. Communal electrics including removal of main and substance and remove all collections and strictions and	52		item	335,000.00		-		-		-		-	
Femove existing accessories, remove existing writing and remove all existing containment as necessary. Femove including identify, isolate and disconnect and disconnect one of the control to the control of the contr	53	Communal satellite system. Assumed 1 point per property	item	31,000.00	1	31,000.00	1	31,000.00	1	31,000.00	1	31,000.00	
Containment as necessary Enabling works - Door entry system including identify, isolate and disconnect door entry sonnections at distribution terminal, disconnect and entry connections are distribution to contain the entry connection and entry connections at distribution to contain the entry connection and explain the entry connections and explain the entry connection and explain the en	5/1	= = = = = = = = = = = = = = = = = = = =	nr	520.00	56	29 120 00	56	29 120 00	56	29 120 00	56	29,120.00	
disconnect door entry connections at distribution terminal, disconnect and remove all cable containment as necessary and remove all cable containment as necessary per floor (retain existing equipment for reuse).		containment as necessary		320.00	30	25,120.00	30	23,120.00	50	23,120.00	30	23,120.00	
55 remove individual hand sets, remove all extiting wiring as necessary and remove all cable containment as necessary per floor (retain existing equipment for reuse).													
remove all cable containment as necessary per floor (retain existing equipment for reuse). Enabling works - Communal electrics including removal of main and sub distribution boards, power supplies to floors, lighting s	55		nr	210.00	56	11,760.00	56	11,760.00	56	11,760.00	56	11,760.00	
Eabling works - Communal electrics including removal of main and sub distribution boards, power supplies to floors, lighting supplie		remove all cable containment as necessary per floor (retain existing											
56													
Sprinkler installation	56	distribution boards, power supplies to floors, lighting supplies to floors,	item	10,000.00	1	10,000.00	1	10,000.00	1	10,000.00	1	10,000.00	
Full rewire to all properties Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord system and switchroom works including Periodic Test, new Landlord System and switchroom works including Periodic Test, new Landlord System and switchroom works including Periodic Test, new Landlord System and switchroom works including swing plasted band and switchroom works including swing plasted provided band and strip off existing coverings. Including temporary disconnection of services and strip off existing coverings. Including new man-safe system. Landlord System to stairways Landlord Silver Periodic Test, new Landlord System to stairways Landlord Silver Periodic Test, new Landlord Silver Periodi	57	· ·	m²	60.00	4,522	271,320.00	4,522	271,320.00	4,522	271,320.00	4,522	271,320.00	
Second		Full rewire to all properties				The state of the s				·		168,000.00	
duct covers	50		item	100 000 00		_						_	
Improve ventilation to stairways and landing where cold bridging, condensation and weather causing slip hazards. Improvement to be met by replacing the windows to communal areas. This includes a louvre installation to the top of the staircore where a window has been removed to all blocks. 62 Allowance for soil stacks 63 Allowance for reducing existing ventilation system to lobbies item 10,000.00 1		duct covers											
condensation and weather causing slip hazards. Improvement to be met by replacing the windows to communal areas. This includes a louvre installation to the top of the staircore where a window has been removed to all blocks. 62 Allowance for soil stacks 63 Allowance for reducing existing ventilation system to lobbies item 10,000.00 1 10,000	60	, ,	nr	1,200.00	56	67,200.00	56	67,200.00	56	67,200.00	56	67,200.00	
installation to the top of the staircore where a window has been removed to all blocks. 62 Allowance for soil stacks 63 Allowance for reducing existing ventilation system to lobbies 64 New lifts (included in new core) 65 Internal wall insulation board to inner face of external walls within flats. 65 Including skim plaster and decoration finish on insulation board. 66 Allowance for removal of all windows 67 New double glazed PVCu windows. Assumed 16 m² per property. 68 Flat roof replacement, including temporary disconnection of services and strip off existing coverings. Including new man-safe system. 69 Install new lighting system to stairways 60 Install new lighting system to stairways 61 Install new lighting system to stairways 62 Allowance for removal of all windows item 63 Allowance for removal of all windows and item 64 Now double glazed PVCu windows. Assumed 16 m² per property. 65 Install new lighting system to stairways 66 Install new lighting system to stairways 67 Install new lighting system to stairways 68 Install new lighting system to stairways 69 Install new lighting system to stairways 60 Install new lighting system to stairways 61 Internal wall installation system to stairways 62 Install new lighting system to stairways 63 Install new lighting system to stairways 64 Internal walls internal 5,000.00 65 Internal wall internal to 10,000.00 66 Internal wall internal to 10,000.00 67 Internal wall internal to 10,000.00 68 Internal wall internal to 10,000.00 69 Install new lighting system to stairways 60 Internal walls in 10,000		, , , , , , , , , , , , , , , , , , , ,											
to all blocks. Allowance for soil stacks Allowance for reducing existing ventilation system to lobbies item 10,000.00 1 10,00	61	replacing the windows to communal areas. This includes a louvre	m²	550.00		-		-		-		-	
62 Allowance for soil stacks item 5,000.00 1 5,000.00 1 5,000.00 1 5,000.00 1 5,000.00 1 5,000.00 1 10,000.00		·											
New lifts (included in new core)		Allowance for soil stacks								·		5,000.00	
Internal wall insulation board to inner face of external walls within flats. Including skim plaster and decoration finish on insulation board. m² 75.00 4,891 366,825.0					1	10,000.00	1	10,000.00	1	10,000.00	1	10,000.00	
65 Including skim plaster and decoration finish on insulation board.													
67 New double glazed PVCu windows. Assumed 16 m² per property. m² 550.00 896 492,800.00 896 492,	65		m²	75.00	4,891	366,825.00	4,891	366,825.00	4,891	366,825.00	4,891	366,825.00	
Flat roof replacement, including temporary disconnection of services and strip off existing coverings. Including new man-safe system. m² 270.00 385 103,950						· ·				·		45,000.00	
strip off existing coverings. Including new man-safe system. 69 Install new lighting system to stairways item 15,000.00	67	New double glazed PVCu windows. Assumed 16 m ² per property.	m²	550.00	896	492,800.00	896	492,800.00	896	492,800.00	896	492,800.00	
strip off existing coverings. Including new man-safe system. 69 Install new lighting system to stairways item 15,000.00	68		m²	270.00	385	103,950.00	385	103,950.00	385	103,950.00	385	103,950.00	
			itor	15 000 00									
70 Allowance for external lighting item 5,000.00 1 5,0	69 70	Install new lighting system to stairways Allowance for external lighting		15,000.00 5,000.00	1	5,000.00	1	5,000.00	1	5,000.00	1	5,000.00	



Ledbu	rry Estate Structural Strengthening Works								<	calfo	rd seaden
71	Allowance for water pumps	m²	10.00	4,522	45,220.00	4,522	45,220.00	4,522	45,220.00	4,522	45,220.00
72	New Front Entrance Door	nr	1,300.00	56	72,800.00	56	72,800.00	56	72,800.00	56	72,800.00
73	New panel over Front Entrance Door, including fire stopping low voltage cables.	nr	500.00	56	28,000.00	56	28,000.00	56	28,000.00	56	28,000.00
74	New panel below window in access lobby, including testing of existing.	nr	800.00		-		-		-		-
75	Doors in communal areas	nr	1,000.00		-		-		-		-
76	Remove security grilles from flat front entrance doors. (Allowed 3 doors per block).	nr	100.00	3	300.00	3	300.00	3	300.00	3	300.00
77	FD30 doors to bin chutes	nr	1,000.00		_		_		_		_
78	Fire and safety signage	nr	500.00	1	500.00	1	500.00	1	500.00	1	500.00
79	Remove existing electrical riser panels and block up	item	7,500.00		-		-		-		-
80	Ryefield board cupboard door stop cover	item	500.00		-		-		-		-
81	Install new refuse disposal system (single chute).	item	150,000.00		-		-		-		-
	Allowance for improvements to the refuse areas. An allowance of £15K has										
82	been made per block. Please note that this is just an allowance, as the scope of works required is not known.	item	15,000.00		-		-		-		-
83	Strip off existing wall paper in communal areas	m²	1.50		-		-		-		-
84	Strip off existing ceiling paper in communal areas	m²	1.50		-		-		-		-
85	Strip out existing vinyl to communal area, including skirtings and excluding stairs and landings.	m²	1.00		-		-		-		-
86	New vinyl flooring to communal area. Including skirtings and excluding	m²	45.00		-		-		-		-
87	stairs and landings. New vinyl flooring to stairs and landings.	item	13,000.00		_		-		_		_
88	Plaster and emulsion paint on walls to communal area, including skim	m²	25.00		_		-		_		_
	plaster and decoration. Plasterboard to ceiling on mf to communal area including skim plaster and										
89	decoration.	m²	45.00		-		-		-		-
90 91	New main entrance door Allowance for decoration only to stairs	nr item	2,500.00 25,000.00		-		-		-		-
31	Anowance for decoration only to stairs	itterii	23,000.00								
	Building Works Estimate				14,100,979.14		14,104,180.64		14,105,082.14		14,100,077.64
	Inflation adjustment to costs (3Q 2018 - 4Q 2019)		0.05		141,881.27		142,031.34		142,073.60		141,839.02
<u> </u>	Total block inflation adjustment										567,825.23
	TOTAL BUILDING WORKS ESTIMATE										56,978,144.79
	Preliminaries										11,416,423.94
	Sub-total										68,394,568.73
	Main Contractor's Overheads and Profit	%	8.00								5,471,565.50
	Sub-total Sub-total										73,866,134.23
	Main contractor's design fee	%	0.25								184,665.34
	Sub-total Sub-total										74,050,799.56
	Contingency	%	15.00								11,107,619.93
	Sub-total										85,158,419.50
	Tender inflation	%	Excl.								Excl.
	Sub-total										85,158,419.50
	Construction inflation	%	Excl.								Excl.
	COST LIMIT										85,158,419.50
			- -								
	Cost £/m² Residential GIFA										4,708
	Cost £/dwelling										380,172



			_								
	3. Heating System						Preffered	Option (3)			
				Sarnsfie	eld House	Skenfri	th House	Peterchu	rch House	Bromya	rd House
	Item	Unit	Rate	Quantity	(2)	Quantity	(2)	Quantity	(2)	Quantity	(2)
1	Allowance to remove all old boilers and make good (scaffold required)	item	14,000.00	1	14,000.00	1	14,000.00	1	14,000.00	1	14,000.00
2	Energy centre (Pro-rata per block)	item	1,300,000.00	0.25	325,000.00	0.25	325,000.00	0.25	325,000.00	0.25	325,000.00
3	Allowance for communal system as per existing with permanent boilers (Pro-rata per block)	item	480,000.00	0.25	120,000.00	0.25	120,000.00	0.25	120,000.00	0.25	120,000.00
4	Enabling works. Heating installation including the removal of the heating circuit, associated radiators and hot and cold water.	nr	2,550.00	56	142,800.00	56	142,800.00	56	142,800.00	56	142,800.00
5	Heating system	m²	50.00	4,522	226,100.00	4,522	226,100.00	4,522	226,100.00	4,522	226,100.00
	Building Works Estimate				827,900.00		827,900.00		827,900.00		827,900.00
	Inflation adjustment to costs (3Q 2018 - 4Q 2019)		0.05		38,807.81		38,807.81		38,807.81		38,807.81
	Total block inflation adjustment										155,231.25
	TOTAL BUILDING WORKS ESTIMATE										3,466,831.25
	Preliminaries	%	-								-
	Sub-total										3,466,831.25
	Main Contractor's Overheads and Profit	%	8.00								277,346.50
	Sub-total										3,744,177.75
	Main contractor's design fee	%	0.25								9,360.44
	Sub-total										3,753,538.19
	Contingency	%	15.00								563,030.73
	Sub-total Sub-total										4,316,568.92
	Tender inflation	%	Excl.								Excl.
	Sub-total Sub-total										4,316,568.92
	Construction inflation	%	Excl.								Excl.
	COST LIMIT										4,316,568.92
	SAY										4,320,000.00
	Cost £/m² Residential GIFA		[239
	Cost £/dwelling										19,270

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4. Broadband Installation			Preffered Option (3)							
			Sarnsfie	eld House	Skenfri	th House	Peterchu	ırch House	Bromya	rd House
Item	Unit	Rate	Quant	(£)	Quant	(2)	Quant	(2)	Quant	(2)
1 Broadband installation	m²	10.00	4,522	45,220.00	4,522	45,220.00	4,522	45,220.00	4,522	45,220.00
Building Works Estimate				45,220.00		45,220.00		45,220.00		45,220.00
Inflation adjustment to costs (3Q 2018 - 4Q 2019)		0.05		2,119.69		2,119.69		2,119.69		2,119.69
Total block inflation adjustment				ŕ		·				8,478.75
TOTAL BUILDING WORKS ESTIMATE										189,358.75
Preliminaries	%	-								-
Sub-total										189,358.75
Main Contractor's Overheads and Profit	%	8.00								15,148.70
Sub-total										204,507.45
Main contractor's design fee	%	0.25								511.27
Sub-total										205,018.72
Contingency	%	15.00								30,752.81
Sub-total										235,771.53
Tender inflation	%	Excl.								Excl.
Sub-total										235,771.53
Construction inflation	%	Excl.								Excl.
COST LIMIT										235,771.53
SAY										235,000.00
Cost £/m² Residential GIFA										13
Cost £/dwelling										1,053



	5. Preliminaries			Preffered O	ption (3)
	Progra	mme Duration	n (Weeks)	410)
	Item	Unit	Rate	Quantity	(£)
	Preliminaries – Site Overheads				
Α	Management / Site Staff				
1	Contracts Manager	Week	1,950.00	410.00	799,50
2	Forward Surveys and Colour Choices	Week	25.00		
3	Agent	Week	1,950.00	410.00	799,50
4	Quantity Surveyor	Week	1,750.00	205.00	358,75
5	Site Supervisor	Week	1,750.00	440.00	542.50
6 7	General Foreman	Week	1,250.00	410.00 205.00	512,50
8	Finishing Foreman General Labourer	Week Week	1,300.00 1,000.00	1,640.00	266,50 1,640,00
9	Resident Liaison Officer	Week	350.00	410.00	143,50
9 10	Commissioning Engineer	Week	1,750.00	0.00	143,30
11	Site Expenses	Week	1,000.00	410.00	410,00
_					
B	Health and Safety Health & Safety Officer (visiting)	Week	150.00	410.00	61,50
2	Health & Safety Officer (visiting)	Week	100.00	410.00	41,00
3	Health and Safety consumables	Week	50.00	410.00	20,50
5	Treater and Sarety consumables	Week	30.00	410.00	20,50
C	Parking Costs		27.00		
1	Per vehicle per week	Week	25.00	1,640.00	41,00
D	Site Set Up / Compound				
1	Hire of Contractors office 32' (inc furniture)	Week	45.00	410.00	18,45
2	Hire of canteen / drying room	Week	35.00	410.00	14,35
3	Hire of Meeting Room (inc furniture)	Week	50.00	410.00	20,50
4	Hire of storage container 20' (4nr)	Week	15.00	1,640.00	24,60
5	Transportation (delivery & collection per unit)	Item	200.00	7.00	1,40
6 7	Welfare facilities / consumables / stationary Site & Contract Signage	Week	40.00 500.00	410.00 1.00	16,40 50
D 15	Site Set Up / Compound (Cont'd) Welfare facilities / consumables / stationary	Week	150.00	410.00	61,50
16	Hire Sanitary Unit 3+1 (4 nr)	Week	100.00	1,640.00	164,00
_					
E 1	Office equipment	Mash	10.00	440.00	4.10
1	Photocopier	Week Week	10.00 5.00	410.00 410.00	4,10
2	Computer Printer	Week	5.00	410.00	2,05 2,05
4	Site stationary	Week	5.00	410.00	2,05
_	Consider				
F 1	Security Plywood hoarding price per metre run per week	Week	1.50	123,000.00	184,50
2	Pair of timber gates to hoarding	Week	150.00	1.00	164,50
3	Decorate timber hoarding (colour to be agreed)	LM	5.00	300.00	1,50
4	Erect and dismantle timber hoarding per metre run	LM	5.00	300.00	1,50
5	Mesh fencing price per metre per week	Week	2.00	196,800.00	393,60
6	Erect and dismantle per metre run	LM	10.00	480.00	4,80
7	Planked footway price per metre run per week	Week	1.00	10,250.00	10,25
8	Erect and dismantle per metre run	LM	2.00	25.00	5
9	PVC encapsulated identity cards	Item	6.50	35.00	22
10	Site security guard / petrol	Hour	100.00		
11	Hire of Security Guard Cabin (inc furniture)	Week	25.00		
12	Transportation (delivery & collection per unit)	Item	150.00		
13	Flag Pole	Each	15.00	4.00	40.00
14 15	Reinstate compound area Windows protection	Item Item	10,000.00 35,000.00	1.00	10,00
G	Power				
1	Temporary Check Meter(s) installation	Item	75.00	1.00	7
2	Temp power and light to compound units	Week	225.00	410.00	92,25
3	Heating installation into storage container	Item	35.00	0.00	32,23
		1			



н	Water				-
1	Temp water installation to compound (assume 2 Nr sanitary)	Item	350.00	1.00	350.00
2 3	Connect sanitary unit to foul sewers Reinstate after removal	Item Item	150.00 100.00	1.00 1.00	150.00 100.00
3	Neilistate after removar	iteiii	100.00	1.00	100.00
J	Communications - Landline				-
1	Landline installation	Item	125.00	1.00	125.00
2	Landline rental / calls	Week	12.50	410.00	5,125.00
3	Broadband installation	Item	35.00	1.00	35.00
4	Broadband connection / rental	Week	7.50	410.00	3,075.00
K	Communications - 'Mobiles'				_
1	Mobile Phone Costs	Week	65.00	410.00	26,650.00
					-
L	Plant and Tools				-
1	Generally Charmy mislage (7.5 m)	Davi	250.00	205.00	-
1 2	Cherry picker (7.5m) Concrete / mortar mixer (0.12/0.09m³)	Day Week	250.00 15.00	205.00	51,250.00
3	Transit Van	Week	50.00	410.00	20,500.00
4	Beam Hoist	Week	175.00	120.00	-
5	Small Tools	Set	35.00		-
6	Hoist				-
	Transport	nr	2,500.00	8.00	20,000.00
	Electrical Connection	nr	421.32	4.00	1,685.28
	Erect & Test Dismantle	nr	5,500.00	4.00	22,000.00
	Weekly Inspections	nr nr	4,500.00 70.00	4.00 4.00	18,000.00 280.00
	Weekly rental	wk	990.00	1,230.00	1,217,700.00
8	Crane on truck	day	225.00	1,230.00	276,750.00
	Tower Crane				-
9	Tower crane and operator hire	week	6,655.00		-
10	Tower crane erection	Item	34,000.00		-
11	Tower crane dismantle	Item	32,000.00		-
12 13	Foundation anchor/spigot/cruciform Appointed person	Item week	9,000.00 1,845.00		_
14	Lift Supervisor	week	1,625.00		_
15	Relief operator	week	1,525.00		-
16	Aircraft warning lights	Item	3,500.00		-
17	Blockcam (including installation and removal)	Item	1,750.00		-
18	CC90 Zoning	Item	800.00		-
19 20	Climb deterrent	week	30.00		-
20 21	Mobile crane mats (2 nr) Operator rescue package	nr Item	4,500.00 3,000.00		_
22	Radio equipment	Item	1,500.00		_
23	Remote anemometer (internet connection)	Item	2,800.00		-
24	Tower crane inspections	nr	600.00		-
25	Wind sails	nr	600.00		-
11	Crane base	nr	10,000.00		-
	Scaffolding				-
12	Scaffold including all associated equipment to accommodate site constraints	m²	45.00	22,848.00	1,028,160.00
					4 007 700 0
	Additional hire period over and above 70 week baseline	Item			1,997,568.00
					-
M	Towers / Youngmans				-
1	Towers / Youngman's	Item	75.00		-
N	Licences				-
1	Local fees generally	Item	350.00	1.00	350.00
2	Skip Licence	Item	225.00	1.00	225.00
	Public footpath closure				-
	Suspended parking bays (7nr)				-
_					-
0	TV Aerials/Satellite Dishes	Each	35.00		-
1 2	Remove and refix aerial Remove and refix satellite dish	Each Each	35.00 65.00	224.00	14,560.00
_		Lacii	05.00	227.00	-
Р	Rubbish Disposal Skips with Lockable Lids				-
1	Skips - 8 Cubic Yard	Each	175.00		-
2	Skips - 12 Cubic Yard	Each	185.00		-
3	Skips 30 Cubic Yard	Each	250.00	220.00	55,000.00
4	Skips - Roll On-Roll Off	Each	350.00		-



_			<u>-</u>		
Q	Small Plant and Tools				-
1	Bench Saw	Week	12.00		-
2	Grinder 4.5"	Week	12.00		-
3	Wall Chaser	Week	12.00		-
R	Sundries				-
1	Sundries	Week	50.00	410.00	20,500.00
		S	ub-total £		10,905,240.78
	Inflation adjustment to costs (3Q 2018 - 4		511,183.16		
	Preliminaries Estimate Total Carried to Co		11,416,423.94		



6. Assumptions

The following has been assumed in the preparation of this Order of Cost estimate:

- Procurement Work will be carried out in at least two phases. It is intended that Phase 1 (Bromyard House) is procured in accordance with London Borough of Southwark's existing TPC 2005 Partnering Framework Agreement. Phase 2 and any subsequent phases that may be determined may be procured using a different process to that utilised for Phase 1 however for the purposes of this estimate we have assumed that the balance of the works will be undertaken by the same contractor as Phase 1, at rates and prices negotiated on the basis of those agreed for Phase 1.
- Preliminaries Preliminaries cost has been developed based on a 410 week construction period. Construction works will commence in August 2021 and be carried out in the sequence as set out in calfordseaden's notional programme. The programme identifies an overall duration of 440 weeks however 30 weeks are for the relocation of residents into the newly completed Bromyard House dwellings and will not incur preliminaries or similar oncosts.
- 3 Overheads & Profit Taken at 8%.
- Main Contractor's Design Fee Taken at 0.25% assuming contractor design of temporary / enabling works.
- 5 Construction Inflation Construction inflation is excluded from this estimate.
- 6 Contingency Taken at 15%.
- 7 CCTV No allowance made.
- 8 **Demolition and enabling work** An allowance has been included for demolition of existing structures as necessary to undertake the works. Further investigations are required to verify that it is practicable to carry out works in the sequence assumed.
- 9 Diversions & Services Costs exclude diversion and alteration of existing services to facilitate the works. The location of services around the other blocks has not yet been fully ascertained.
- 10 Asbestos identification and removal is based on the pilot works undertaken at Bromyard House.
- 11 Contaminated land No allowance has been made for remediating any contaminated ground that may be encountered.
- 12 **Heating** Costs include for provision of a district heating system to supply all dwellings in the Ledbury high rise towers.
- 13 **General Construction** Raft foundation to all blocks. New communal core to be steel framed construction. Existing residential blocks to be strengthened with steel frame and reinforced concrete.
- 14 Existing Services Assumed that the existing services have sufficient capacity to serve the new development.
- 15 **Substation** No allowance included for a substation; it is assumed that there is sufficient spare network capacity to accommodate the new development. This will be reviewed as discussions progress with service providers.
- 16 Façade Enhancements The estimate includes an addition for external cladding, specification and design of which is unknown.
- 17 MVHR Is not included in this cost estimate.
- 18 Roof Flat roof to all blocks as existing.
- 9 Specification The estimate has been based on London Borough of Southwark specifications.
- 20 Accommodation schedule Numbers of units and types are as existing.

Qualifications and Exclusions

The following constraints influenced the accuracy of the estimated cost:

Dimensioned internal layouts were not available.

Full access scaffold included to external elevations.

Allowance for new external cladding subject to review on design.

Communal areas to be demolished and reconstructed.

Decant of all dwellings required.

Dwellings will be fully stripped out and refitted on completion to habitable standards.

Existing footings remain in place and will be augmented to withstand new loadings.

Existing roofs to be strengthened to receive new structural frame.

 $\label{lem:continuous} Roof top steel frame will not be clad to minimise additional wind loading on structure.$

Work will be procured under London Borough of Southwark's existing framework arrangement.

Construction and tender inflation are excluded.

Preliminaries, OH&P and Contingency are included in the estimated cost.

No allowance for has been made for external works and landscaping.

The estimate assumes average quality materials for external and internal works. Any change would increase the total cost.

Flat layouts remain the same as existing.

The number of units is as advised by London Borough of Southwark.

A planning application will be required because the external cladding is being changed.



7. Exclusions

The following items are excluded from this Order of Cost Estimate. They are known to have costs and allowances should be provided from other budgets:

- 1 Professional/legal fees, planning/building control fees, statutory fees, site surveys, monitoring costs, environmental audits.
- 2 Project insurances.
- 3 Value Added Tax (VAT).
- 4 Inflation except as stated in the Summary.
- Site acquisition fees/costs, air rights, rights to light (or any other third party compensation settlements), over-sailing licences, scaffold licences, sale or letting fees/costs and other developer's costs.
- 6 Costs arising from a Section 106 agreement.
- 7 Costs arising from a Section 278 agreement.
- 8 Costs arising from a Community Infrastructure Levy assessment.
- 9 Independent Commissioning Management fees.
- 10 Client finance costs and insurances.
- 11 Monitoring of adjacent buildings.
- 12 Local Authority charges, road closures, etc.
- 13 Archaeological survey.
- 14 Any off-site reinforcement of services infrastructure.
- 15 Developer's risk allowance/project contingency.
- 16 Party wall agreements.

The following items are excluded from this Order of Cost Estimate. They may result in additional costs and a separate contingency allowance should be retained to cover these costs:

- Phasing of construction works is anticipated with Bromyard House to be completed first and the remaining blocks to follow. For the purposes of this estimate, it is assumed that Phase 2 (and any additional phases that may be identified) follows the completion of phase 1 without any intervals.
- 2 BREEAM assessment costs.
- 3 Abnormal ground conditions and unknown basements in existing structures.
- 4 Feature hoarding.
- 5 Out of hours working.
- 6 Cost of project collaboration tool (e.g. project intranet).
- 7 Deep sewer outfalls in excess of 3m.
- 8 Remediation of contaminated soils and/or groundwater.
- 9 Artworks.
- 10 Measures associated with barriers against methane/carbon dioxide gas.
- 11 Sewerage pumps.
- 12 Any works caused by aguifers.
- 13 Allowance for bee/bat boxes.
- 14 Allowance for service diversions except as specifically identified.
- 15 Any treatment of Japanese Knotweed
- 16 Any measures due to flood risk.
- 17 Tree survey.
- 18 CCTV



8. Definitions

Terms used in this Order of Cost Estimate have the following meanings:

Base Cost Estimate The estimated cost of the works including allowances for preliminaries, overheads &

profit and fees, but excluding risk and inflation

The estimated cost of the construction works before the application of allowances for **Building Works Estimate**

preliminaries, overheads & profit, fees, risk allowances and inflation

Construction Inflation Inflation from the anticipated tender return date to the mid-point of the construction

period

Construction Risk Risks relating to the construction process (e.g. underground obstructions, geotechnical

problems, services, site access, weather, disputes)

Consultants' Fees Fees to consultants paid by the client (e.g. project and design team fees, specialist

consultants' fees, site investigation fees)

Cost per square metre The Cost Limit divided by the Gross Internal Area

The Cost Limit divided by the total number of residential units Cost per unit

Cost Limit The maximum estimated expenditure for the works including the estimated cost of the

construction works with allowances added for fees, overheads & profit and risk

Design Development Risk Risks relating to the development of the design (e.g. uncertainty of design, design

coordination, uncertainty of area schedules)

Employer Change Risk Risks relating to employer changes (e.g. changes in scope, quality or programme)

Employer Other Risk Risks relating to other employer matters (e.g. brief changes, project programme,

funding, tender strategy, insolvency, claims, planning delays, market conditions)

The internal area of the building measured to the inner face of the external walls with no Gross Internal Area (GIA)

deduction for the space occupied by internal walls, interruptions or voids

Main Contractor's Design

Fees

Fees to consultants paid by the contractor to complete the design, including post

Costs incurred by the main contractor during any pre-construction period project

novation fees

Main Contractor's Pre-

construction Fees

involvement (e.g. management and staff costs, specialist advice, temporary accommodation, overheads & profit on these)

Net Internal Area (NIA) The useable internal area of the building - usually, the lettable or saleable area. This is

measured to the inner face of the external walls with the space occupied by internal

walls, interruptions or voids deducted.

Note: architects' area schedules often use NIA for the total area of flats in a building, although this calculation may be composed of the individual GIAs for the flats added

together and is not, strictly, in accordance with the definition of NIA.

Other Development/

Project Costs

Other client costs not covered in the building works estimate, preliminaries, overheads & profit and fees (e.g. land acquisition costs, finance costs, planning fees, building control

fees and the like, adoption charges, planning contributions, insurances, decanting costs,

furniture, marketing)

Tender Inflation Inflation from the estimate date to the anticipated tender return date