

Client

Simon Fraser RIBA

Site Address

5, Bacon's Lane, London N6 6BL

Revision

Rev A 03.10.2024 Issued for Planning

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1.0 Introduction

This report for 5 Bacon's Lane is to be read in conjunction with the following documents submitted as part of the planning application:

- Design & Access Statement
- Sustainability Statement
- Condition & Feasibility Study (Options Appraisal)
- Application Drawings

1.1 Overview

This report has been prepared in response to the Pre-Application Advice received from Camden Planning Department on 29.08.2024 (Re. 2024/0627/PRE). The advice received was as follows:

'WLC Assessments are useful to ensure that if demolition is justified, the design of any replacement building fully considers the whole-life carbon impact and is as close as possible to the WLC impact of retaining and refurbishing the building. We do not use WLCA to consider if it is possible/feasible to retain and improve the existing building or to justify demolition due to the assumptions made as part of the assessment and as the whole-life carbon results from a proposed final scheme are likely to differ from those at an early design stage.

If demolition is justified and we consider the Whole Life Carbon report part of an application, this would need further explanation and consideration. In this case, the GLA WLCA spreadsheet should be completed to prevent any mistakes in the presentation of the results'.

In response, a WLC assessment following RICS V2 methodology has been carried out using the AECB PHRibbon Software. This reports the same data as is normally found in the GLA's WLC spreadsheet. The proposal of the replacement house therefore considers the whole-life carbon impact.

The assessment reviews 3 scenarios over a 60 year standard life cycle:

- 1) Retrofit: No major work / demolition carried out to existing building, with exception of structural movement repair.
- 2) Partial Demolition: to achieve new proposals' layout and appearance.
- 3) Full Demolition (except Garage floor): complete new build of new proposals.

The Partial Demolition and Full Demolition scenarios are based on construction of the proposals shown in this planning application submission, with the PD option retaining existing structure where possible. The assessment is based on aspirational targets set with a 15% contingency, on the grounds the proposed materials are achievable at the time of construction.

1.2 Summary

The WLC assessment shows that, due to the extent of performance improvements in the new-build, the WLC operational and embodied emissions of the new build option are comparable over 60 years than that of the partial demolition option and significantly better than if the house was left in its current state with minimal internal changes. The reason why the new build is similar to the partial demolition in carbon terms is due to thermal inefficiency of the existing floor and walls and necessary rectification required should the existing structure be partially retained (see the submitted Condition & Feasibility Study Option Appraisal for further information).

Full demolition allows for the most energy efficient design to be proposed and to adopt a fabric first approach to reduce energy demand and improve thermal performance.

Whole Life Carbon Assessment 2.0 Whole Life Carbon Assessment

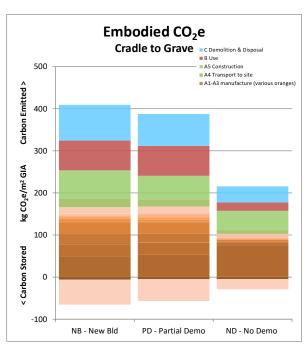
Consultant:	Hopkins Architects		
Street:	27 Broadley Terrace		
Postcode/City:	NW1 6LG		
Province/Country:	London		United Kingdom
Client:	Simon Fraser		
Street:	5 Bacons Lane		
Postcode/City:	N66BL		
Province/Country:	London		United Kingdom
Building:	5 Bacons Lane		
Street:	Bacons Lane		
Postcode/City:	N66BL		
Province/Country:	London		United Kingdom
Building type:	1-Freestanding singl	e family house	

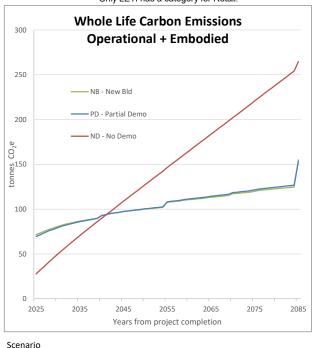


AECB Embodied Carbon Assessment

C1-C4 approach	Business a	s usual
Type of building	Domestic	
Year of construction:	2025	
No. of dwelling units:	1	
TFA:	306	m⁴
Reference Study Period	60	years

Both graphs show all categories, not RIBA or LETI Only LETI has a category for Retail.





Embodied

tonnes CO ₂ e A-C over 60yrs	120.0	114.1	33.5				
RIBA/RIAI kgCO ₂ e/m² GIA 60yrs	343.1	329.9	186.3				
LETI kgCO ₂ e/m² GIA over 60yrs	343.1	329.9	186.3				

Taking into consideration the total lifetime carbon emissions (sum of embodied and operational) for your development, please explain which option you have chosen and why.

This study compared a new build option (comprising full demolition - labelled 'NB') against a partial demolition option (labelled 'PD') and a minimal retrofit of the existing property with no demolition (Labelled 'ND'). The findings of this WLC study suggest that the difference between the whole life carbon of the NB option compared to the PD option amounts to only 1.5 tonnes CO2 over 60 years. This is because significant structural repairs and underpinning are still needed for the PD option. The PD option also assumes a 10% higher Operational energy demand compared to NB given that existing external walls are being retained with poorer thermal bridges. The NB (New build) option is therefore preferable to PD and will also provide a greater level of internal comfort. The ND (no demolition) option assumes minimal works, a change of finishes and the retention of the existing boiler, it has the highest WLC and fails the RIBA 2030 challenge for operational energy. The NB (New build) option also meets the RIBA 2030 challenge for both Embodied and Operational Carbon and achieves a LETI 'A' rating for Embodied Carbon.

I confirm that the values given herein have been determined follow PH Ribbon calculations are attached to this verification.	ing the RICS meth	odology and ba	ased on the character	ristic values of the building. The
	Name			
	Hopki	ns Architects		
	Issued	on:	City:	Signature: /
5 Bacons Lane	26/09/	24	London	Hadrew Health

Calculation Scope Summary

Date of assessment	26/09/2024	Year of project completion 202	25
Carried out by	Hopkins Architects		
Project type	New build		
Assessment objective	To compare new bu	ild and partial demolition scenarios against a minimal re	retrofit of the existing property
Project location	London, United King	dom	
Property type	Domestic		
Building description	A two-storey 3-bedi	oom family home. Comprising of steel & timber structu	ural frame on concrete ground beams with piles
	and concrete slab. L	imestone bricks walls in between the structural frame,	timber joist construction to the floors and roof.
		Size: TFA 306 m ²	GIA 349 m ² for scenario 1

Reference Study Period: 60 years

Assessment scope: Cradle to Grave as in RICSv2

Assessment stage: Concept stage (Design stage would require uncertainty factors not yet implemented)

Data sources: PHribbon: PHPP for external dimensions of thermal elements

Specific EPD certificates, (possibly also some ICE Database 2019

Building elements coverage

RIBA and LETI say 95% of the cost should be included

# Building parts	Building elements	Tonnes CO2	% incl	Clarification if needed	
0 Facilitating works	0.1 Temporary/Enabling works/Preliminaries	6.3	100%	Includes full demolition	•
1 Substructure	1.1 Substructure	28.6	100%		•
2 Superstructure	2.1 Frame	3.0	100%		
	2.2 Upper floors incl. balconies	3.0	100%		
	2.3 Roof	3.0	100%		
	2.4 Stairs and ramps	3.0	100%		
	2.5 External Walls	38.3	100%		
	2.6 Windows and External Doors	38.3	100%		
	2.7 Internal Walls and Partitions	6.3	100%		
	2.8 Internal Doors	6.3	100%		
3 Finishes	3.1 Wall finishes	5.4	100%		
	3.2 Floor finishes	5.4	100%		
	3.3 Ceiling finishes	5.4	100%		
4 Fittings, furnishings and	Fixed (Building-related)	0.7	100%		
equip	Non Fixed (Non Building-related), excluded by LETI	0.0	n/a	Existing furniture used	
5 Building Services/MEP	5.1 Public Health	0.6	100%		
	5.2 Heating, Ventilation and Cooling (HVAC) & Refrigerant	13.0	100%		
	5.3 Electrical installations	0.1	100%		
	5.4 On site renewable energy generation	0.0	n/a	None provided	
	5.5 Systems including life safety, fuel installations, lift and conveyor	0.1	100%	No epd, allowance made	
6 Prefab Buildings/Units	6.1 Prefabricated Buildings and Building Units	0.0	n/a	Not applicable	
7 Existing Building	7.1 Minor Demolition and Alteration Works	0.0	n/a	Full demolition in item 0	
8 External works	Within site boundary	0.3			
	Outisde the site boundary	0.0			

RIBA/RIAI CHALLENGE includes

LETI includes

Assumptions

This is a Cradle to Grave calcuation (stages A-C) for RIBA/RIAl and LETI targets. Data is also laid out in the RICS layout, though RICS requires a lot more, for example site based emissions, estimation of plug loads (if not already in PHPP), and Module D. It follows the RICS professional statement edition 2 version3, Aug 2024 for concept design stage though is not an official RICS calculation. It is based on the external dimensions in PHPP which overestimates quantities slightly.

A0 Non material - not calculated but could be added, not needed for RIBA or LETI

A1-A3 Sequestration is only included if 100% FSC/PEFC, or it uses a proportion pro-rata

A1-A3 Manufac emissions from raw material extraction, transport and processing, these can be per m3, m2, m or kg

A4 Transport to site includes the 43% empty running factor for the return journey, except for in-situ concrete where the empty running factor is 100% (always empty)

A5.1 Preconstruction demolition is a fixed amount per m2 GIA

A5.2 Construction is calculated for totals only

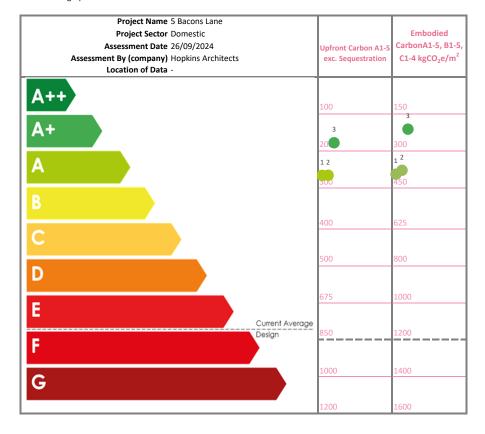
A5.3 Construction waste is a fixed percentage for each material type, most are specified by RICv2

- **B1.1 Use**, data taken from EPD if given, but factored to the RSP 60yrs, this includes carbonation by concrete during the RSP (not the life of the concrete which is much longer, 150yrs)
- B1.2 Refrigerants, data taken from EPD if given, factored up to the whole RSP
- **B2-3 Repair**, data taken from EPD if given, factored up to the whole RSP
- **B4 Replacement**, repeats module A and C for the number of replacements
- **B5 Refurb**, optional figures to be manually adjusted, life of product becomes the refurb interval and B4 emissions become B5.
- **B6.1-6.3 Operational Energy Use** only the emissions in PHPP are included, the rest, e.g. plug loads could be added but are not automatically included in PHPP, so would require extra assumptions.
- B7.1-7.3 Water cells are provided for you to enter the use in the Embod tab, though carbon figures are not required for RIBA or LETI.
- B8.1-8.2 User Activities not reported here yet
- C1 Demolition calculation based on GIA and user selection of business as usual (BAU), Good Practice or Best Practice
- C2 Transport, includes empty running factor for return journey. Reuse is included only if the reuse is expected to be offsite
- C3 Waste Processing, uses the RICSv2 reuse/recycling rates and user selection of business as usual (BAU), Good Practice or Best Practice. Includes incineration only if an R1 facility
- C4 Waste Disposal, uses the RICSv2 landfill rates and user selection of business as usual (BAU), Good Practice or Best Practice. Includes incineration local sites not R1 facilities D1 Potential Benefits / D2 Exported Benefits not calculated but could be added, not needed for RIBA or LETI

RIBA/RIAI CHALLENGE Building Type: Domest	ic				Sc	enario						
	1	2	3	4	5	6	7	8	9	10	11	12
	NB - New P	D - Partia	ND - No D									
Operational Energy	27	29	191									kWh/m².a GIA
RIBA level met	R2030 R	2030	Fail									
RIAI level met	R2030 R	2030	Fail									
Embodied Carbon RIBA level met RIAI level met			214.3 R2030 R2030		Sc	enario						kg CO₂e/m² GIA
	1	2	3	4	5	6	7	8	9	10	11	12
LETI	NB - New P	D - Partia	ND - No D									
Upfront Carbon A1-5	264	264	176									kg CO ₂ e/m ₂ GIA
excl Sequestration Embodied Carbon A1-5, B1-5, C1-4	395	379	214									kg CO ₂ e/m ₂ GIA
Sequestered Carbon	-66	-57	-28									kg CO ₂ e/m ₂ GIA
Module D	0	0	0									kg CO ₂ e/m ₂ GIA

Results in the tables above and graphic below include a 15% contingency as required by RICSv2 for early design phase Module D is complex and is only partially calculated. It is given when the WLC sheet is created, as the PV calculation is required for D2.

LETI Results graphic. Coloured dots labelled 1-12 are the results for scenarios 1-12.



Ponorting Cat 1: WI C decign decicion making (Concept stage)			Α								В								С			
Reporting Set 1: WLC design decision-making (Concept stage) NO DECARBONISATION							_	i			Refurb Sequestration					activities			б		90	ε
using present day figures, a worst case but similar to RICSv1	မ္က	ered		<u>e</u>	Construction		miss	Rep	ŧ	eut	nestr	λ6.							essir	osal	D1 Potential Benefits	e L
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Water in-use - external works (within project boundary) Jser carbon - whole development													0	U	0	0					-	
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reatment and demolition works Facilitating works		0	0	0	6265																	
iub-Structure		0	21946	3106	1471	-207	0	0	0	0	0							1605	623	13	0	-
Super structure: Frame, Upper floors, Roof, Stairs and ramps		-7121	2283	267	252	0	0	0	0	0	0							66	7169	110	0	- (
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On site renewable energy generation		0	0	0	0	0	0	0	0	0	0						I	0	0	0	0	
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external works (outside the site boundary) Sub-totals kgCO2e		0	0	0 6735	0 23831	-207		79°	20916	C		14817						5 2437		382		
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WITH DECARBONISATION	2rg#p dwhuldo	43 Sequestered	43 Manufac	٥	I-4 Construction	I In use	Prugitive emiss, igerants	33 Maint & Repair	Replacement	Refurbishment	Refurb uestration	<u> </u>	l Water1	2 Water2	3 Water3	I-B8.2 User vities	Demolition	Fransport	Waste Processing	Naste Disposal	Potential Benefits	ntial
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ATTH DECARBONISATION assuming some areas could decarbonise by 50% and electricity decarbonises according to average over next 60yrs from FES accontinuity #=dq wklqj #wkdw#dq*w#eh#euxnhq#gzzq#lqwz#pzuh#gyze-construction - whole development interesisions - whole development interesisions - whole development interesisions associated with energy in-use and renewable generation - building missions associated with energy in-use and renewable generation - external water in-use - building water in-use - building works (within project boundary) Ser carbon - whole development Accontinuity #=dq wklqj #wkdw#ddq*w#eh#euxnhq#gszq#lqwz#pzuh#greatment and demolition works Facilitating works ub-Structure uper structure: Frame, Upper floors, Roof, Stairs and ramps uper structure: External envelope incl roof finishes, Windows and ext doors included the super structure: Internal walls and partitions, Internal doors inishes F&E Fixed F&E Fixed F&E Fixed F&E Fixed FRE Non-Fixed Patilitation and Cooling (HVAC) Refrigerant	D340 rd40	wkhq#wk 0 0 -7121 -7383 -608 -3123 -1671 0	# zkrol 0 21946 2283 22633 2961 2916 321 0 194 2946	#dvvhw 0 3106 267 686 1482 332 380 0 3	6265 1471 252 1110 356 297 68 0 11	-207 0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0	0 0 0 347 0 0 0 0 0	0 0 0 5464 506 838 0 0 210 3405	0 0 0 0 0 0	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	88.1-B6.3 Ener	0	0	16		C1 Demolition	803 33 90 180 47 2 0 0	623 7169 9325 683 3116 1577 0	13 110 149 15 62 26 0 0	0 0 0 0 0 0	D2 Potential
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NET ZERO COMPATIBLE ELECTRICITY

Is this option all electric? Calculation only done if it is Y
LETI EUI Limit for this building 35
Total Delivered Energy for this building 4
Non-decarbonised electricity factor for the grid 0 0902
Glaf for this building, m2 349

p3 Emissions associated with energy in-use and renewable generation - building 9 -67
Split elctricity factor means that emissions below the LETI target are use the decarbonised electricity factor means that building 1 supplied with electricity only.

Domestic 35 Offices 55 Schools 65 Retail 55

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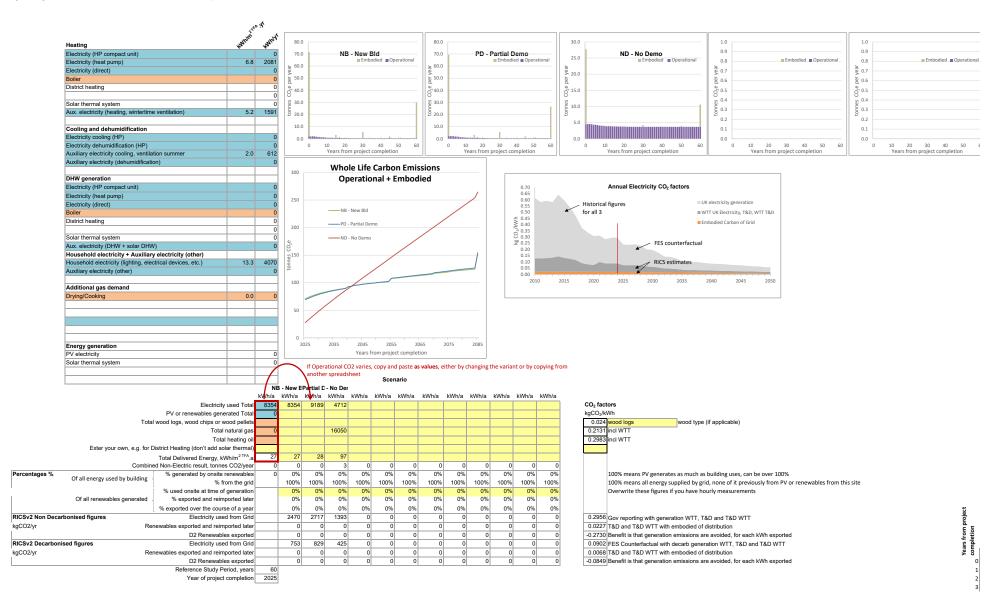
	Non-decarbonised electricity factor for the grid	0.2930	
	Decarbonised electricity factor for the grid	0.0902	i
	GIA for this building, m2	345	
ρЗ	Emissions associated with energy in-use and renewable generation - building	52	
	Split elctricity factor means that emissions below the LETI target are use		
	the decarbonised electricity factor, emissions above use the the non-decarbonise This calculation must only be used when the building is supplied with electricity or		

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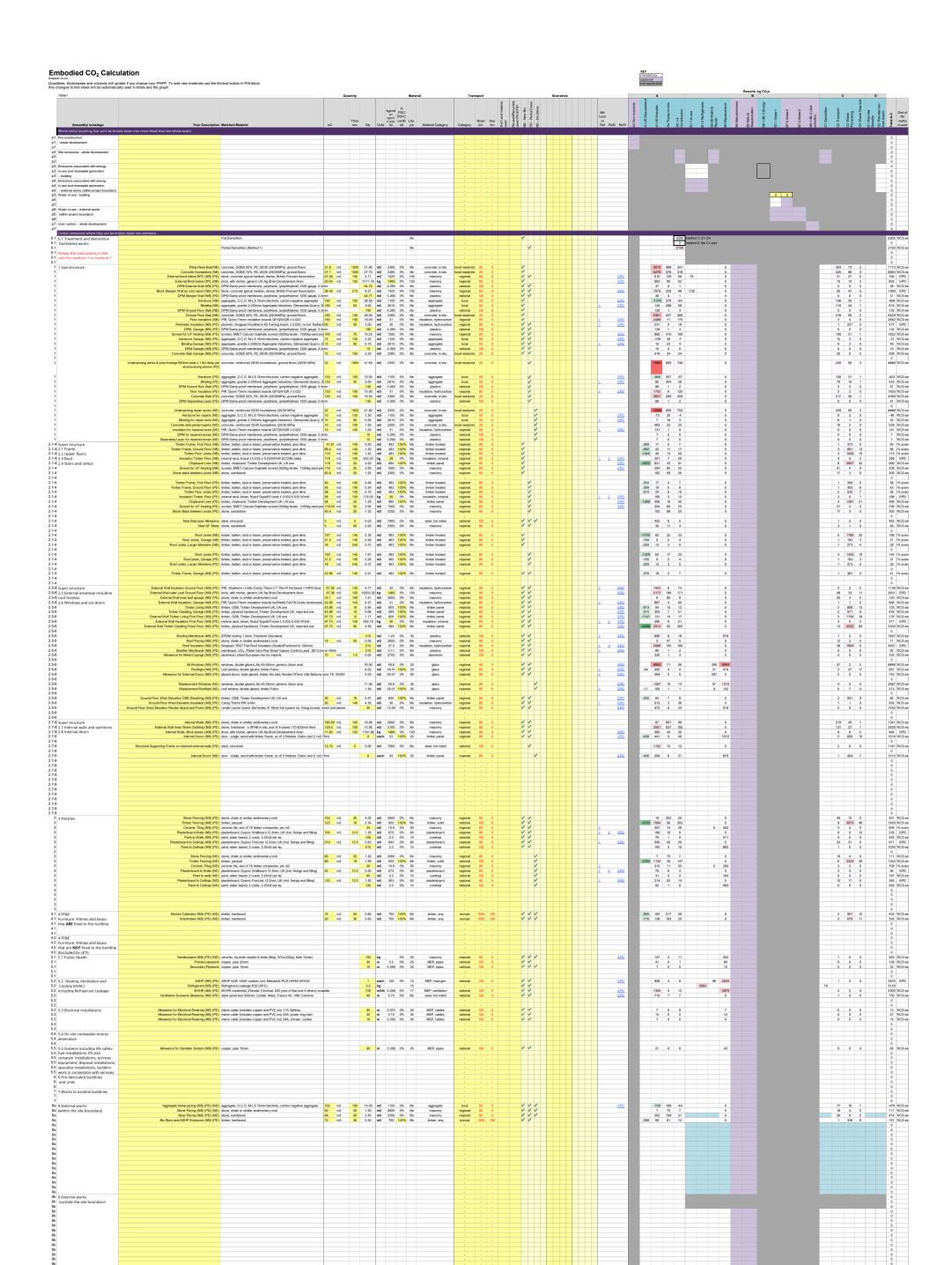
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using present day figures, a worst case but similar to RICSv1	dwhullo	estere	lac	o site	Construction		e emis	B2-B3 Maint & Repai	ment	B5 Refurbishment	Refurb Sequestra	nergy		01	_		Б	t	rocess	C4 Waste Disposa	D1 Potential Benefits	ben fr
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missions associated with energy in-use and renewable generation - external						0	0					0										ď
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Iser carbon - whole development																0						
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WITH DECARBONISATION assuming some areas could decarbonise by 50% and electricity	dwhulldo	stere	ac	site	ructio		emis	& Re	neut	ment	_	iergy				je se	_		seoo	sods	Bene	pen f
decarbonises according to average over next 60yrs from FES	rq#p dw	sedue	Manu	Transp to site	Cons	nse	igitive	Maint	Replacement	rbish	urb tratio	3.3 Er	ater1	ater2	.3 Water3	3.2 Us	nolitio	Transport	ste P	ie D	ential	ţ
	3#Dr.c	A1-A3 Sequestered	A1-A3 Manufac	A4 Trar	A5.1-4 Construction	B1.1 In use	B1.2 Fugitive Refrigerants	B2-B3 Maint & Rep	B4 Rep	B5 Refurbishment	B5 Refurb Sequestration	B6.1-B6.3 Energy	B7.1 Water1	B7.2 Water2	7.3 W	B8.1-B8.2 User activities	C1 Demolition	C2 Trar	C3 Waste Proc	C4 Waste Disposa	D1 Potential Benefits	D2 Poten
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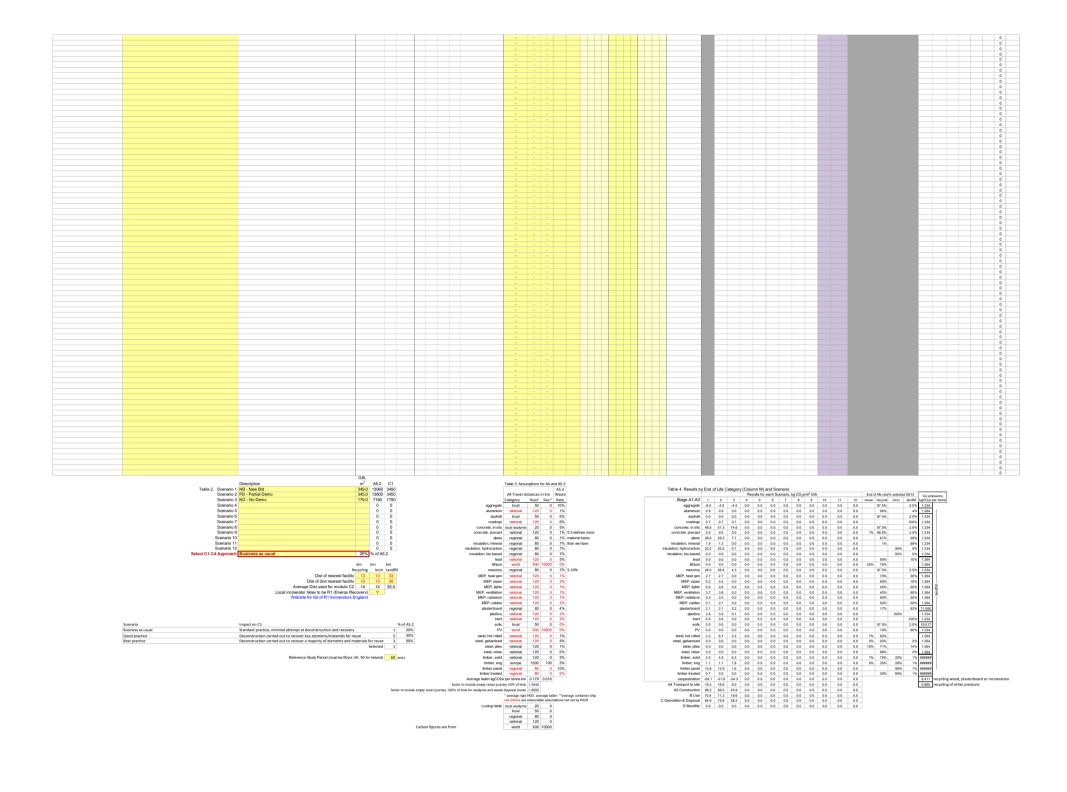
Total CO₂ Calculation

This sheet calculates the Operational CO2 using the table below and adds it to the Embodied (large table to the right) to give total CO2. It graphs it and a copy is transferred to the 'Embod' tab. Changes you make to the heating, hot water or other energy systems that change the PER tab automatically update here too. You can have different Operation CO2 figures using different PHPPs, or variations of this PHPP, see wideo and/or help manual.

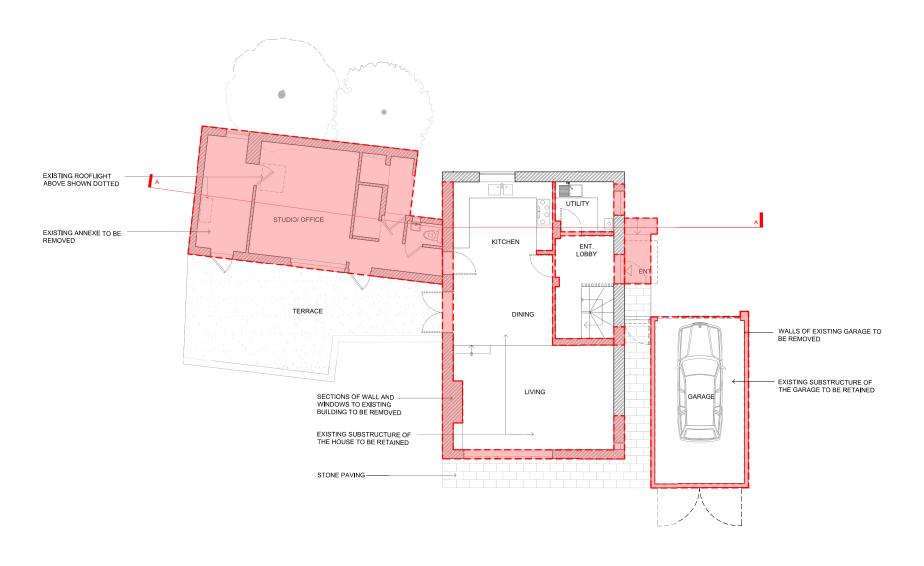


, I	factor	<u>‡</u>	Operational tonnes CO2 for WLC graph (for info only), not used in RICS, RIBA or LETI results										Embodied tonnes CO2 including first replacement										- 1	Cumulative Total tonnes CO2 incl all replacements											
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<u>а</u> Е б	isation r, Elec	and and	B _	e a									Bid		emo										品	_	e uo								
s fro	odied rbonis factor, from p	facto rted porte	New Partia	N 0									New	Partial	9 0										New	Partial	9 8								
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1 2026	0.949 0.23	0.018	2.0 2.	2 4.5	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	73.5	71.5	32.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
2 2027	0.924 0.24		2.0 2.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	75.5	73.7	36.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
3 2028	0.899 0.23	_	1.9 2.	_		0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	77.4	75.8	41.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
4 2029 5 2030	0.873 0.20 0.848 0.19		1.7 1. 1.6 1.			0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	79.1 80.7	77.7 79.5	45.7 50.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0 0.0
6 2031			1.4 1.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0	_		0.0	0.0	0.0	0.0	0.0	0.0	0.0	82.2	81.1	54.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
7 2032			1.2 1.	-		0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	83.4	82.4	58.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
8 2033			1.2 1.	-	_	0.0	0.0	0.0	0.0 0.	_	0.0	0.0	0.0	_	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.5	83.7	62.4	0.0		0.0	0.0	0.0	0.0	0.0	0.0 0.0
9 2034 10 2035	0.746 0.12 0.721 0.10		1.1 1. 0.9 1.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	85.6 86.7	84.8	70.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
11 2036			0.8 0.		_	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.2		0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.5	86.9	74.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
12 2037	0.670 0.10	_	0.8 0.	9 3.9	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	88.3	87.8	78.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
13 2038	0.645 0.09		0.8 0.	9 3.9	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.1	88.7	82.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
14 2039	0.620 0.09	_	0.8 0.	0.0	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	89.9	89.5	85.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
15 2040 16 2041	0.594 0.08 0.569 0.08		0.7 0. 0.7 0.			0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	93.1	92.8 93.6	89.8 93.6	0.0		0.0	0.0	0.0	0.0	0.0	0.0 0.0
17 2042			0.7 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.2	95.1	97.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
18 2043	0.518 0.07	7 0.006	0.6 0.	7 3.8	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	95.8	95.8	101.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
19 2044	0.493 0.07		0.6 0.		_	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0	0.0	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	96.5	96.5	105.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
20 2045	0.467 0.07	0.000	0.6 0.		0.0	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.2		0.1		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.3	97.3	108.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
21 2046 22 2047	0.442 0.06 0.417 0.06		0.6 0. 0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	97.9 98.4	98.0 98.5	112.6 116.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
23 2048	0.391 0.06	_	0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0	_	0.0			0.0	0.0	0.0	0.0	0.0	0.0	0.0	98.9	99.1	120.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
24 2049	0.366 0.05	3 0.004	0.5 0.	5 3.7	0.0	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0	0.0	0.0	_		0.0	0.0	0.0	0.0	0.0	0.0	0.0	99.4	99.7	123.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
25 2050	0.341 0.05	0.00	0.5 0.		0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.2	4.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	100.1	100.4	127.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
26 2051	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0		100.6	100.9	131.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
27 2052 28 2053	0.341 0.05 0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		101.1	101.5	134.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
29 2054		_	0.5 0.		_	0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		102.0	102.5	142.3	0.0		0.0	0.0	0.0	0.0	0.0	0.0 0.0
30 2055	0.341 0.05	0.004	0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	5.2		0.5		0.0	0.0	0.0	0.0	0.0	0.0	0.0		107.7	108.3	146.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
31 2056	0.341 0.05		0.5 0.		0.0	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.2	108.8	150.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
32 2057 33 2058	0.341 0.05 0.341 0.05		0.5 0. 0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	108.7	109.3	153.9 157.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
34 2059	0.341 0.05	_	0.5 0.	_	_	0.0	0.0	0.0	0.0 0.	_	0.0	0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0	_	110.1	110.8	161.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
35 2060	0.341 0.05	3 0.004	0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		110.6	111.4	165.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
36 2061	0.341 0.05	0.004	0.5 0.	5 3.7	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	111.1	111.9	168.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
37 2062	0.341 0.05		0.5 0.	-		0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		111.5	112.4	172.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
38 2063 39 2064	0.341 0.05 0.341 0.05		0.5 0. 0.5 0.		_	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	112.0	113.0	176.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
40 2065	0.341 0.05	_	0.5 0.		0.0	0.0	0.0	0.0	0.0 0.	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	113.3	114.3	183.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
41 2066	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		113.8	114.9	187.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
42 2067	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0		114.3	115.4	191.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
43 2068	0.341 0.05		0.5 0.	-		0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	114.8	115.9	194.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
44 2069 45 2070	0.341 0.05		0.5 0.		_	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0	_		0.0	0.0	0.0	0.0	0.0	0.0		115.2	116.5	198.4 202.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
46 2071	0.341 0.05		0.5 0.		0.0	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	117.6	118.9	205.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
47 2072	0.341 0.05	0.004	0.5 0.	5 3.7	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	118.1	119.5	209.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
48 2073	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0	_	0.0	0.0	0.0	0.0	0.0	0.0	0.0		118.6	120.0	213.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
49 2074	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.		_	0.0	0.0		0.0			0.0	0.0	0.0	0.0	0.0	0.0		119.1	120.5	216.8	0.0		0.0	0.0	0.0	0.0	0.0	0.0 0.0
50 2075 51 2076	0.341 0.05 0.341 0.05		0.5 0. 0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.4	411	0.3		0.0	0.0	0.0	0.0	0.0	0.0	0.0		120.0	121.5	220.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
52 2077	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		121.4	123.0	228.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
53 2078	0.341 0.05	0.004	0.5 0.	5 3.7	0.0	0.0	0.0	0.0	0.0 0.	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	121.9	123.5	231.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
54 2079	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	122.4	124.1	235.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
55 2080	0.341 0.05		0.5 0.	_	_	0.0	0.0	0.0	0.0 0.	_	\rightarrow	0.0	0.0	_	0.0			0.0	0.0	0.0	0.0	0.0	0.0	_	122.8	124.6	239.3	0.0	_	0.0	0.0	0.0	0.0	0.0	0.0 0.0
56 2081 57 2082	0.341 0.05	0.00	0.5 0. 0.5 0.	-	0.0	0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0	0.0	0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	123.3	125.1	243.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
58 2083	0.341 0.05		0.5 0.			0.0	0.0	0.0	0.0 0.		0.0	0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	124.3	126.2	250.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
59 2084		0.00	0.5 0.		_	0.0	0.0	0.0	0.0 0.			0.0	0.0		0.0		0.0	0.0	0.0	0.0	0.0	0.0	0.0		124.8	126.7	254.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0
60 2085		0.004	0.5 0.		0.0	0.0	0.0	0.0	0.0 0.		0.0	0.0	29.6	26.1	6.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	154.9	153.3	264.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0 0.0





3.1 Partial Demolition Drawings

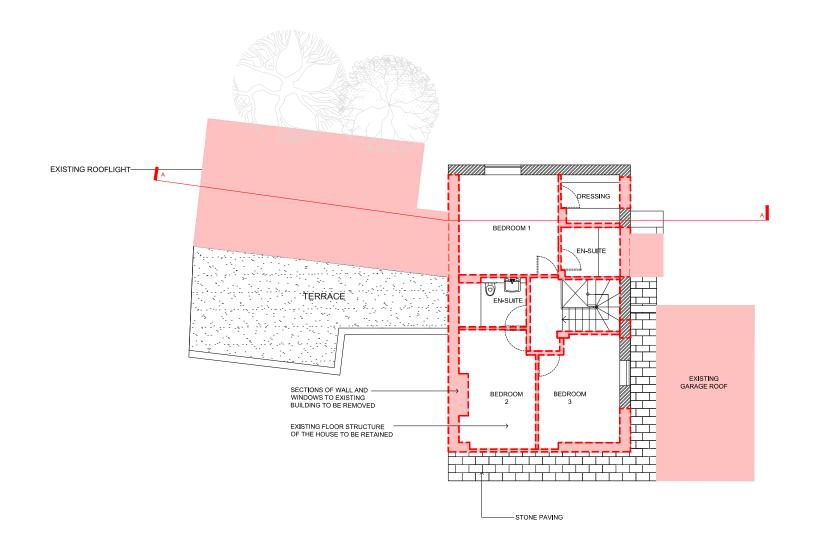


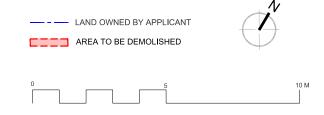


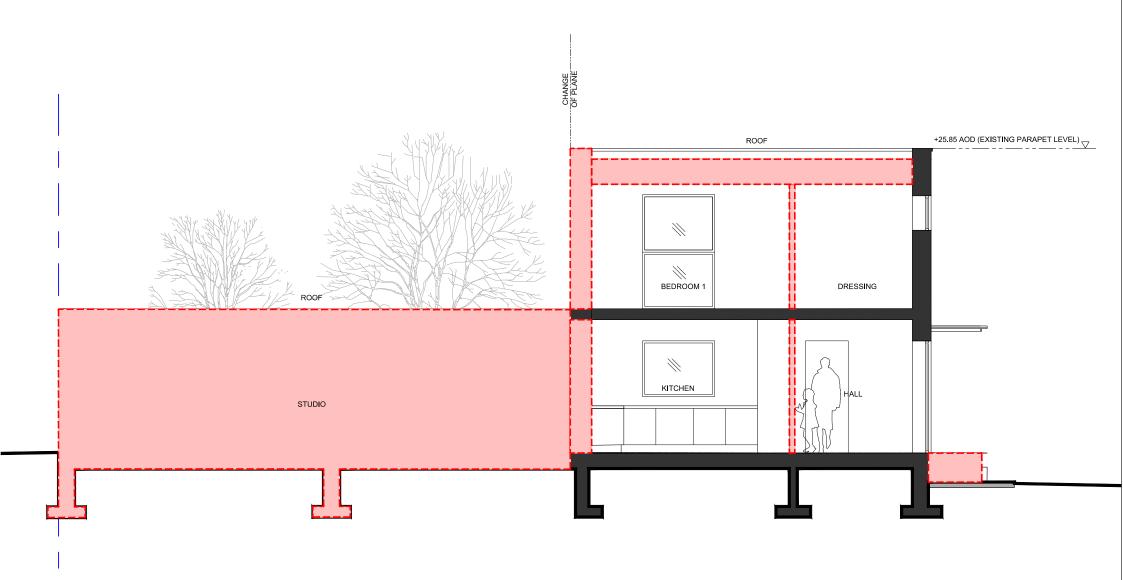
DRAWING NO: 1223-PP-200

DRAWING TITLE: EXISTING GROUND FLOOR

DATE: 29/01/2024 SCALE 1:100@A3



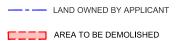


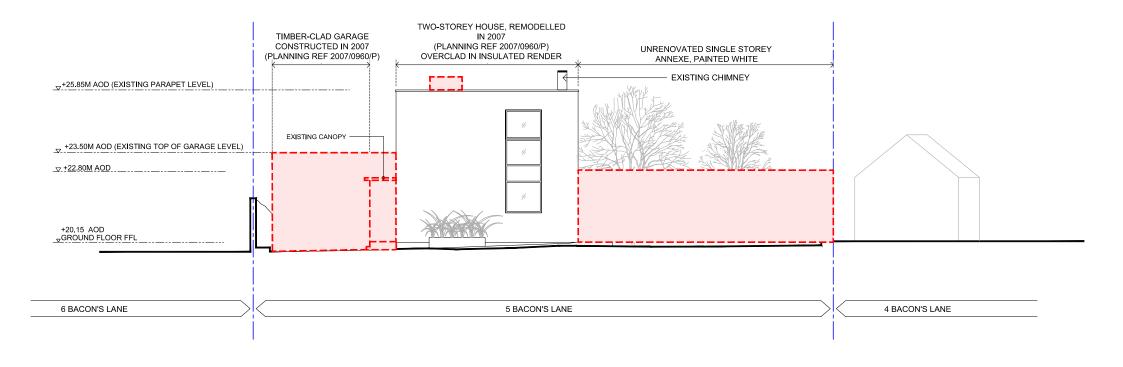


DRAWING NO: 1223-PP-300

DRAWING TITLE: EXISTING BUILDING SECTION AA

DATE: 29/01/2024 SCALE 1:50@A3





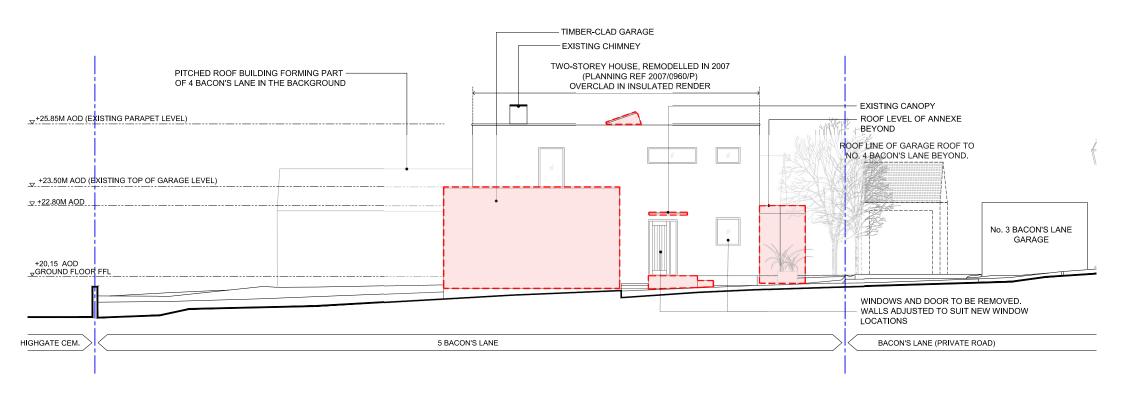


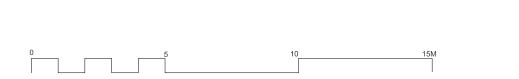
DRAWING NO: 1223-PP-400

DRAWING TITLE: EXISTING NORTH ELEVATION

DATE: 29/01/2024 SCALE 1:100@A3 — - — LAND OWNED BY APPLICANT

AREA TO BE DEMOLISHED



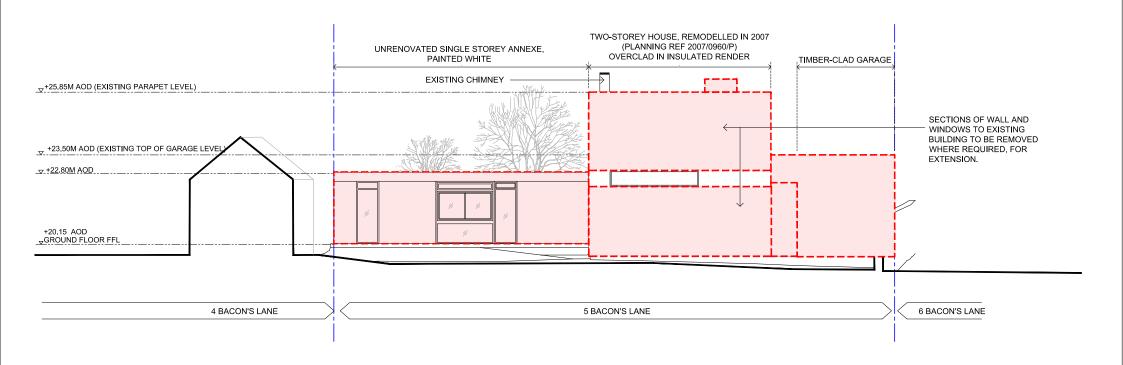


DRAWING NO: 1223-PP-401

DRAWING TITLE: EXISTING EAST ELEVATION

DATE: 29/01/2024 SCALE 1:100@A3 — - — LAND OWNED BY APPLICANT

AREA TO BE DEMOLISHED



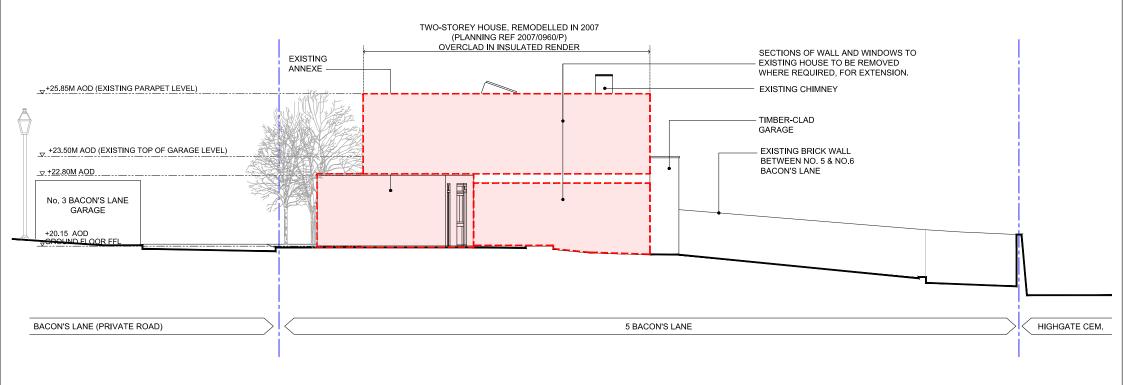


DRAWING NO: 1223-PP-402

DRAWING TITLE: EXISTING SOUTH ELEVATION

DATE: 29/01/2024 SCALE 1:100@A3 — - — LAND OWNED BY APPLICANT

AREA TO BE DEMOLISHED





3.2 Full Demolition Drawings

