3.17 Energy Efficiency, Sustainability & Ecology

An Energy and Sustainability Statement has been produced by Ramboll and is included with this submission as a supporting document.

The Sustainability and Ecological Strategies for the scheme have been carefully considered specific to both the site and the brief. The design concept has evolved in parallel with the energy and sustainability strategies to ensure that the final proposals are well considered and integrated in the fundamental concept rather than as an after-thought.

The design responds to national, regional and local sustainability policy and guidance. The proposals promote a design centred on a low energy and sustainable design, with high carbon reduction and Code for Sustainable Homes targets. The residential has been designed to achieve a Code for Sustainable Homes Level 4 rating.

The following key characteristics have been incorporated:

Energy / Renewables

- An ambitious energy performance will be achieved primarily through passive design (e.g. highly insulated building fabric and low air permeability).
- Very efficient condensing gas boilers are proposed for each flat and maisonette.
- Photo voltaic panels indicatively proposed on the roofs of Units 3.2, 4, 5.2 and 5.3
- The overall predicted reduction in regulated CO2 emissions from the Baseline development model (which is Part L 2010 compliant) is estimated to be at least 28%.

Transport / Connectivity

- Site has excellent links to public transport, and can thus support high density, sustainable development.
- Area well served by bus routes.
- Local streets connecting the site to the wider transport infrastructure and amenities.
- Secure cycle storage is provided for the residential units.

Materials / Construction

- Materials will be responsibly sourced (e.g. FSC certified timber) where available.
- All insulation materials will be specified to have zero ozone depletion potential.
- Main Contractor will achieve a best practice score (Considerate Constructors Scheme).
- Main Contractor will monitor energy, water usage and waste related to the site for the duration of the works.

Sustainability in Use

- Water efficient fittings and appliances to be installed.
- Individual meters to be provided to each home.
- Dedicated storage facilities to be provided for recyclable waste.
- A home user guide will be provided to future tenants describing operation and energy performance.

Ecology

- Brown roofs to be used on available roofs, which have the following advantages:
- Creating a natural habitat for flora and fauna to help support the local ecology.
- Aiding biodiversity encouraging a wider spread of species in the area.
- Storm water management helps to reduce the flood risk by retaining rainwater.
- Improved air quality reducing both gaseous pollutants and dust particles.
- Each home has its own private balcony, terrace and/or courtyard garden which will include planters and pots landscaped next to trellis railings, adding to the biodiversity and supporting the ecology of the area.
- New trees to be planted along street edge and in rear gardens.

3.18 Daylight / Sunlight & Overshadowing

A Daylight and Sunlight Report has been undertaken by Brooke Vincent & Partners and is included with this submission as a supporting document.

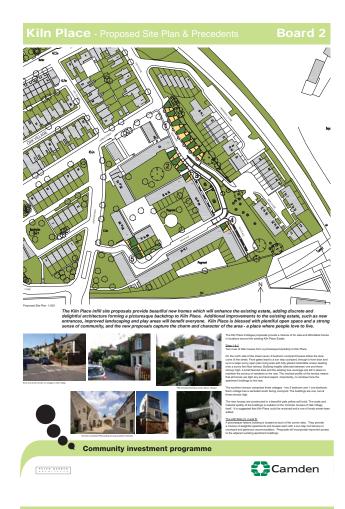
The design of the infill sites proposals have been developed with careful consideration to daylight and sunlight, both for the proposed buildings and the surrounding existing buildings.

In their document "Kiln Place Development Sites, Planning & Urban Design Briefing" document, issued 12/06/13, L.B. Camden Planners state: "The proposed residential units should maximise sunlight and daylight whilse minimising overshadowing or blocking light to adjoining properties. Where possible the council would favour dual aspect units... The council would expect to receive a daylight and sunlight assessment."

The design aspiration for the new proposals is to create dwellings with good levels of natural light. The Daylight / Sunlight Report has enabled the team to use daylight as a quantifiable design tool, ensuring good quality daylighting for the proposed buildings and sensitive design consideration to ensure minimal impact on the neighbouring buildings. All the dwellings have been designed to be at least dual aspect, the majority are triple aspect, with their massing and orientation specifically designed to maximise daylighting.

The internal daylight and sunlight results show that the levels of daylight within the proposed accommodation as recommended by BRE and the London Plan would be satisfied. Sunlight availability to proposed accommodation would be better than the BRE's worked example for a block of flats.

The results for daylight and sunlight to the surrounding existing properties show that all buildings analysed will meet or exceed the numerical criteria recommended in the BRE criteria and so be in accordance with local planning policy.









3.19 Consultation Statement

Consultation Event 1: Kiln Place Residents

A resident consultation event was held on Thursday October 3rd 2013 (6.30-8.30pm) to present the new proposals to the Kiln Place Estate residents, the event took place in the Kiln Place TRA centre 'The Shack'.

Invitations were issued to all estate residents and a representative from Hemingway Close was also invited (and attended).

There were ~20 attendees on the night.

All attendees were given individual presentations of the proposals by a representative of the architect / client team, responses and queries were discussed and they were then given an information leaflet to enable them to leave their written feedback. This leaflet is also being posted to all Kiln Place Estate residents to enable them to have their say if they were unable to attend.

The feedback from residents on the night was generally very positive, key comments were as follows:

- Support for the terraced courtyard houses along Sites 1 & 2
- Support for the removal of the existing 'foyer' areas in Sites 3, 4 & 5 and replacement with new dwellings
- Concerns regarding impact to daylight / sunlight to existing properties from the proposed Site 5 one bed cottages
- Residents of the lower marionettes of 81-96 would like their own entrances to their dwellings if this can be incorporated?
- Residents are keen to see improvements to the existing playground.

Consultation Event 2: Public Consultation

A public consultation event was held on Monday 18th November 2013 (4-7pm) to present the revised proposals to the Kiln Place Estate residents and the wider local community. The event again took place in the Kiln Place TRA centre.

Invitations were issued to all estate residents and all neighbouring residents in Oak Village, Barrington court and close and Lamble street.

There were 40 attendees who signed in on the night.

All attendees were given individual presentations of the proposals by a representative of the architect / client team. Many of the attendees were Kiln Place residents who had been to the previous consultation event. The architect / client team were able to explain how the proposals had been amended to reflect the comments and concerns raised at the previous event. The feedback regarding these changes was very positive. New attendees who had yet to see the proposals also provided positive feedback and no major concerns were raised in the course of the consultation event.

Consultation 3: Public Consultation

A final consultation has been taken place two weeks prior to submission which will involved the distribution of informative leaflets detailing the proposals, and detailing how the revised scheme has addressed all comments raised in the previous consultation.



Final Summary

The proposals for Kiln Place offer a fantastic opportunity to provide beautiful new homes and estate improvements, thus improving the local area and also providing much needed new homes for local people.

The 15 new homes at Kiln Place will create a delightful, public spirited, socially sustainable development for this and future generations to enjoy.

The proposals have the following benefits:

- 15 beautiful new homes
- Each house has its own front door onto the street
- Each dwelling has large areas of private open space (courtyards, roof terraces and rear gardens)
- Brightly lit, open plan kitchen / dining / living spaces
- No additional communal circulation or stair wells
- Lifetime Homes Compliant
- Clad in high quality brick
- Significant improvements to the existing wider estate
- Increased overlooking of public space and streets through the estate
- Improved access to open green space

Appendix A.1_Schedule of Accommodation

Site	1			Totals
1.1 1.2	3 Bedroom 5p House 3 Bedroom 5p House	105 m2 110 m2	Market sale Market sale	1 Bedroom 2p Units = 5 (inc. 2 WC accessible units)
1.3	3 Bedroom 5p House	110 m2	Market sale	2 Bedroom 3p Unit = 1
1.4	3 Bedroom 5p House	110 m2	Market sale	2 Bedroom 4p Units = 2
1.5	3 Bedroom 5p House	110 m2	Market sale	
1.6	3 Bedroom 5p House	102 m2	Market sale	3 Bedroom 5p Units = 7
Site	2			15 dwellings
2.1	2 Bedroom 3p House	88 m2	Market sale	Total NIA / GIA = 1309 m2
2.2	2 Bedroom 4p House	101 m2	Market sale	
				Current proposed tenure split:
0:1-	2			Total NIA / GIA Market Sale = 836 m2 = 64%
Site	3			Total NIA / GIA Social Rent = 473 m2 = 36%
3.1	1 Bedroom 2p Maisonette	64 m2	Social Rent	Total NIA / GIA Social Refit = 473 III2 = 30%
3.1	1 Bedroom 2p Maisonette		Social Rent	
0.2	1 Beardon 2p Maisonette	001112	Coolai Nont	
Site	4			
4	3 Bedroom 5p House	97 m2	Social Rent	
Site	5			
5.1	1 Bedroom 2p WC Flat	50 m2	Social Rent	
5.2	2 Bedroom 4p Maisonette	85 m2	Social Rent	
5.3	1 Bedroom 2p WC House	52 m2	Social Rent	
Site	6			
•	45 4 6 11	 -	0.115.4	
6	1 Bedroom 2p House	75 m2	Social Rent	

PETER BARBER ARCHITECTS 173 KING'S CROSS ROAD LONDON WC1X 9BZ TEL: 020 7833 4499 FAX: 020 7833 4999

DATE	ISSUE PURPOSE
17 10 13	STAGE C - DRAFT ISSUE
31 10 13	STAGE C ISSUE
02 12 13	STAGE D - DESIGN DEVELOPMENT
11 12 13	STAGE D - DESIGN DEVELOPMENT
19 12 13	STAGE D - DESIGN FREEZE
31 01 14	STAGE D - DRAFT PLANNING
16 07 14	REVISED SITE 1 - STAGE C ISSUE
04 08 14	REVISED SITE 1 - STAGE D ISSUE
11 08 14	REVISED SITE 1 - DESIGN & ACCESS STATEMENT
19 08 14	PLANNING DRAWINGS
12 09 14	ADDITIONAL PLANNING DRAWINGS
28 09 14	DAYLIGHT/SUNLIGHT AMENDMENTS TO SITE 1 & 5
17 10 14	FINAL PLANNING DRAWINGS

KILN PLACE - 116

DRAWING ISSUE SHEET: Stages C - D (up to Planning Submission)

Please receive the drawings/documents listed below:

BRIEF DESCRIPTION	SCALE	DRAWING NO.															
Site Plans					T	Т	T	П		Т	П	T	Т	Т	П	Т	٦
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Existing Site Demolition Plan	1:250	116_P_00D	П	П	T	Т	T	П	П	T	T	X 2	X)	<	П	T	Α
Proposed Site Plan; inc. Roof Plan	1:250	116_P_01P	Х	Α	1	Ŧ	В	С	D	コ	Е	7	F	3	П	I	Α
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Proposed First Floor GA Plan (Sites 1, 2,3 & 6)	1:200	116_L_101	Х		ВС		E			$\overline{}$	Н	_	Н	_	Ħ	十	Ā
Proposed Second Floor GA Plan (Sites 1, 2,3 & 6) + Third Floor GA Plan (Site 1 & 3)	1:200	116_L_201	Х) E				Н	_	Н	_	廿	士	Ā
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GA Plans - Sites 4 & 5	4.000	440 1 000	Х	Α	ВО	+	+	H	Н	+	Е	+	FF	_	₩	+	٦,
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Key: inc = included within Stage C brochure

Appendix A.2_Accompanying Drawing Issue Sheet

Stage D / Planning Drawings - Issue Sheet

Drawings issued as separate accompanying package

Introduction to Peter Barber Architects

Peter Barber Architects have completed several projects over the last decade that incorporate similar principles to the Kiln Place proposals, including Colony Mews, Hannibal Gardens (Beveridge Mews), Donnybrook Quarter, Baden Powell Close.

These projects have been received extremely positively by residents, the local community, the client, and the Local Authority. They have won multiple awards and been received with critical acclaim. Case Study descriptions of each project are provided in the following pages.

The projects have carefully considered highly articulated architecture with lively picturesque facades that have contributed positively to the streetscape in local communities. The projects are predominantly street based housing along delightful public streets, mews, existing estates and squares made with a hard edge of buildings. Multiple front doors, balconies and bay windows tend to repeat along the street with the parapet and terraces alternating or notching, articulating each house (similar to the Kiln Place proposals).

The housing creates a hard edge to the street creating an active lively street frontage, bringing activity and increased natural surveillance to existing estates and infill sites. Housing is designed so that each dwelling has its own front door to the street, plus a high level of private amenity space, whilst achieving good densities.

Peter Barber Architects won the accolade of UK Architect of the Year for Housing in 2007/08 and 2010/11 as well as being a finalist for UK Architect of the Year for Masterplanning in 2012/13 and for Housing again in 2013/14.



Project Profile: Hannibal Gardens (Beveridge Mews)

"Beveridge Mews in Stepney Green is one of the great achievements of London as a city. The architecture transforms an unattractive piece of land previously occupied by dingy garages into a beautiful place. They are designed by Peter Barber, one of London's finest architects of humane housing and they are part of this city's commonwealth. We should be proud of them." Kieran Long, Evening Standard (12th September 2012)

Hannibal Road Gardens (otherwise known as Beveridge Mews) is a housing project set around a public community garden in Stepney.

The proposal replaces a problematic strip of garages and creates a fourth side to a square within an existing housing estate with 3 slab blocks forming the other sides.

The newly landscaped and densely planted community garden created in the centre of the square will be overlooked by a delightful new terrace of 8 contemporary family houses.

The new row of houses is conceived as a continuation of the timber garden fences of the existing housing blocks, being constructed from timber and configured as a series of stepped and notched south east facing garden terraces.

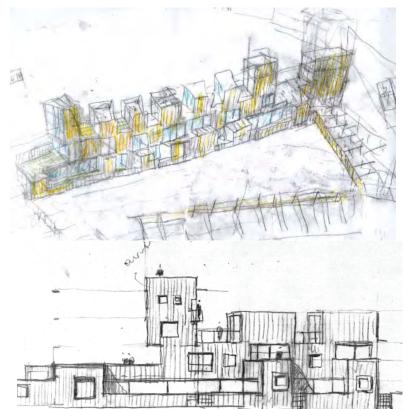
The accommodation is predominantly made up of large family houses (3, 4, 6 bedrooms).

- High density, large houses created on a difficult, single-aspect site.
- Innovative notched terrace typology, creating a variety of amenity spaces and outlooks.
- All courtyard houses have their own front door and a minimum of two large courtyards / roof terraces.
- Great example of collaborative approach to planning, working closely with Planners and Highways Officers.

- Housing Design Award. Finalist 2013 - NLA Award Winner 2013 - RIBA Award Winner 2013 - RIBA STIRLING PRIZE BUILDING OF THE YEAR AWARD. 2013 (shortlisted to final 8)









Kiln Place - Infill Sites - Design & Access Statement - October 2014

PETER BARBER

for EC Harris / LB Camden



Project Profile: Baden Powell Close

Baden Powell Close is conceived as a terrace of courtyard houses running the length of the site, creating a hard edge of buildings to a new tree lined space at the south end of Baden Powell Close.

The site was a originally a thin strip of unprogrammed land running along the boundary between a suburban residential Close and a large retail / leisure park beyond. The boundary fence was previously used as an unofficial cut through, contributing to anti-social behaviour within the Close.

The new development comprises 12 x 2 bedroom, 2 storey courtyard houses with 1 x 3 bedroom bungalow at each end of the terrace. Each unit has a good sized courtyard and terrace. There are no internal communal circulation areas.

The scheme has achieved EcoHomes Very Good rating using a variety of sustainable features such as green rooves and ground source heat pumps.

- Mixed tenure development
- High density on difficult site
- Innovative notched terrace / courtyard typology
- All courtyard houses have their own front door and two large roof terraces
- Great example of collaborative approach to planning, working closely with the London Borough of Barking & Dagenham Planning & Highways Officers









Project Profile: Colony Mews (Islington)

'This is an urban intervention of considerable ingenuity and it demonstrates that design skills of a very high order are required if the potential of the many similar derelict sites in our inner cities is to be properly exploited.' Housing design Awards 2003

Colony Mews is located on the edge of the Canonbury and Newington green Conservation Areas in Islington. It is a luxury mews style development built on an awkward back-land site at the rear of an existing Victorian terrace. The proposal comprises a combination of double height studio apartments and a terrace of courtyard houses with large roof terraces and open plan living spaces. The development is enclosed on all sides by existing building or garden walls that were retained, strengthened and underpinned during construction.

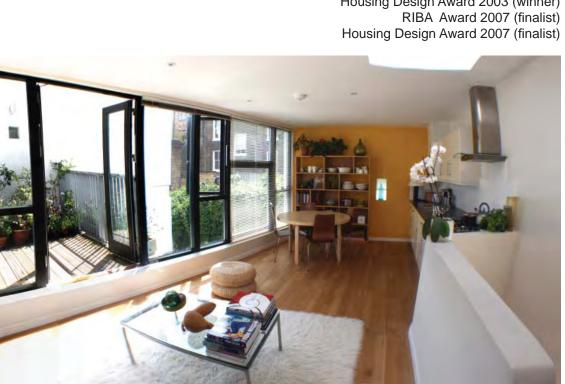
The buildings are accessed through an arch in a Victorian terrace fronting Mildmay Grove. A high walled open passageway leads through to a row of front doors, each of which in turn opens into a delightful south facing private courtyard garden.

In each courtyard house, a fully glazed sliding screen at ground level gives into an open plan living space. All principle windows look in to the courtyard thereby eliminating overlooking of adjacent owners.

- Private sale development
- High density on impossibly difficult site
- Innovative notched terrace typology
- All courtyard houses have their own front door and two large roof terraces
- Great example of collaborative approach to planning, working closely with planners

Housing Design Award 2003 (winner)























Project Profile: Employment Academy (Peckham)

The Employment Academy is a state of the art learning and support centre for long term unemployed people. It occupies delightful, light and airy accommodation in a beautiful listed arts and crafts building designed by ET Hall in 1904.

The building has been restored and extended with a series of new buildings which look into a sunny courtyard that lies at the heart of the scheme. The building uses a pale rustic brick, similar to the type of brick proposed for Kiln Place.



Recently completed PBA building showing possible materiality for Worland Road Houses