

**East Thames Housing / Epping Forest District Council
Housing Delivery Programme**

Feasibility Report

Site: Shingle Court, Waltham Abbey EN9 3HD

Contents

1. Introduction and Confirmation of Brief
2. Existing Site and Surroundings
3. Proposals
4. Planning Issues and Risks
5. Impact/Implications of Statutory Services
6. Site Access and Buildability Issues
7. Neighbourly Matters and Party Walls
8. Proposed Procurement Route
9. Impact on Parking
10. Legals
11. Costs
12. Recommendations and Conclusions

Appendices

- A: Development Proposals – Drawing 612.023/P4-21 Revision A
- B: Site Photographs
- C: Existing Site Plan – 210206014-BV
- D: Information on Possible Contamination
- E: Cost Build-up

	Date	Initial
Written by	18/01/15	NP
Checked by	06/02/15	IJC

Please note:

Unless otherwise stated all drawings, images and diagrams contained within this document are not to scale.

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1.0 Introduction and Confirmation of Brief

- 1.1. Pellings LLP are appointed as part of East Thames Group Technical Team in respect of delivery of Development Agent services to Epping Forest District Council for a 6-10 year housing delivery programme.
- 1.2. Following initial appraisal by EFDC, 59 sites have been identified as having possible development potential, with a further number of sites in reserve.
- 1.3. Pellings LLP has been instructed to progress feasibility studies to all 59 sites, which will assist in establishing the extent and timing of the overall programme.
- 1.4. Our instructions are in accordance with our fee tender of 13 August 2012, against the previously prepared tender documentation, and email confirmation of 9 April 2013.

2.0 Existing Site and Surroundings

- 2.1. The site is located to the eastern site of Waltham Abbey off Shingle Court. The site forms parking and garage areas for the adjoining properties with pedestrian access to the south.
- 2.2. Several services run around the perimeter of the site that include, BT, UK Power and National Grid.
- 2.3. Both a National Grid pipe and surface water sewer run through the centre of the site.
- 2.4. The general surrounding area consists of apartments, semi-detached and terraced dwellings dating from the 1970's.

3.0 Proposals

- 3.1. The proposals are as shown on drawings 612.023/P4-21 Revision A and comprise :
 - 1 x 2 bed bungalow @ 68m²
 - 4 parking spaces
- 3.2. Due to the constraints of the site and the proximity of adjacent properties it is felt that a bungalow is the best option for the site
- 3.3. To provide the required parking the building has been pushed back into the site behind the existing building line, as the proposals are single storey only it is not envisaged that this will cause any planning issues.
- 3.4. Design proposals have allowed for the 3m no build zone typically required by adjacent underground services. Detailed locations of these will be required should the site progress to planning.
- 3.5. The services running through the centre of the site will need to be diverted to allow the scheme to be built.

4.0 **Planning Issues and Risks**

4.1. The adopted Development Plan for Epping Forest Council is the Combined Local Plan 1998 and Local Plan Alterations 2006.

4.2. The site is identified as being within an area that floods on the Local Plan proposals map but not on the Environment Agency planning flood map. It can therefore be considered that the site is not at risk of flooding.

4.3. The site has no site specific policies however consideration will need to be given to the following policies where they comply with the NPPF:

- ST4 (Road Safety) – States the planning permission will only be granted where there will be no adverse effects on the highway, traffic congestion or harm to the character or appearance of the area.
- CP7 (Urban Form and Quality) – Encourages the efficient use of existing built-up areas by the recycling of vacant, derelict, degraded and under-used land to accommodate the redevelopment of and re-use of urban sites, which are no longer appropriate to their existing or proposed use in the foreseeable future, for alternative land uses.
- H4A (Dwelling Mix) – States the needs for a range of dwellings, including an appropriate proportion of smaller dwellings, to meet identified housing need on a site-by-site basis.

4.4. It will be necessary to undertake a parking survey and prepare a transport statement to demonstrate that the loss of parking would not be detrimental to highway conditions or the amenities in the area because of a lack of parking.

4.5. The site is located within the urban area of Waltham Abbey and would comply with policy CP7.

4.6. The site would comply with policy H4A providing additional family housing.

5.0 **Impact/Implications of Statutory Services**

5.1. We have undertaken statutory services enquiries to the following:

- Vodaphone
- BT Openreach
- National Grid
- UK Power Networks
- Virgin Media
- National Grid
- Scottish and Southern Energy (SSE)
- Environment Agency
- Thames Water

Responses have been received as follows :

5.2. Vodaphone: No issues.

5.3. BT Openreach: Service adjacent to north and west boundary. Details shown on drawing 612.023/P4-21 Revision A

- 5.4. National Grid: Service to east and west of site. Details shown on drawing 612.023/P4-21 Revision A.
- 5.5. UK Power Networks: Cable adjacent west and north boundary. Details shown on drawing 612.023/P4-21 Revision A
- 5.6. Virgin Media: No response
- 5.7. SSE: No issue
- 5.8. Environment Agency: No response
- 5.9. Thames Water: Surface drain through centre of site. Details shown on drawing 612.023/P4-21 Revision A.
- 5.10. It should be noted there are a number of responses to enquiries that, at time of preparation of this report, have not yet been received.

6.0 **Site Access and Buildability Issues**

- 6.1. The site is accessed from existing site roads and there would not appear to be any particular difficulties for the normal level and size of construction traffic associated with a development of this nature.
- 6.2. Areas should be available for contractor's site set up and accommodation.
- 6.3. The site is within a primarily residential area, and accordingly, any appointed contractor should use all best endeavours to act in a considerate manner and within normal working hours.
- 6.4. Further to initial enquiries made to EFDC, some potential contamination issues have been highlighted with use of the domestic garages. Possible contaminants indicated within the note produced by EFDC Planning and Economic Development Directorate at Appendix D.
- 6.5. Possible contaminants in respect of the previous use of the garage site may include asbestos, ash and clinker, hydro-carbons from vehicle maintenance and the like.
- 6.6. Accordingly, suitable site investigation will need to be undertaken ahead of any proposals to take this site forward and specific recommendations made to deal with any contamination found, whether by capping or removal from site.

7.0 **Neighbourly Matters and Party Walls**

- 7.1. As above, the proposed development site is within a primarily residential area and the appointed contractor should act in a considerate manner. It is proposed that restrictions on working hours, noise levels, requirement for resident liaison and similar matters will be included within contract documentation.
- 7.2. From proposals on Drawing 612.023/P4-21 Revision A, Party Wall matters will be relevant to development, particularly adjacent to No 16 Shingle Court.
- 7.3. Confirmation of ownership will be required in due course.

7.4. Such Party Wall matters may be undertaken ahead of the build contract by direct appointment by EFDC, or included as a requirement for the contractor to deal with within the build contract. This later approach, however, would carry increased risk to programme and cost.

8.0 **Proposed Procurement Route**

8.1. It is understood that development works will be procured by way of the East Thames Housing Group existing contractor framework arrangements.

8.2. It is proposed that works shall be procured on a Design and Build basis with the contractors taking forward RIBA Stage 3 planning consent drawings into detailed design and construction delivery on site.

8.3. Schemes shall be designed to a set of Employer's Requirements to be subsequently confirmed but which substantially shall be formed from existing East Thames Housing Group Design Standards and Employer's Requirement documentation.

8.4. It is proposed that all site preparation works will be included within individual contract packages including any required demolitions, adjustment of statutory services, highways works and boundary maintenance/reinstatement/provision.

8.5. On completion of the feasibility studies for the whole programme, further recommendations will be made in terms of how works are packaged to ensure size of work packages are optimised for ensuring maximum economies for East Thames Housing Group and EFDC.

8.6. It is considered, at this stage, that this may be by way of a mix of different sized contractors dependent upon the numbers and geographical location of individual works packages.

8.7. Works will be administered by Pellings LLP as Employer's Agent acting in accordance with East Thames Housing Group terms of appointment and the overarching requirements of the Development Agency agreement.

9.0 **Impact on Parking**

9.1. The Council's currently adopted parking standards are contained within Essex County Council's Parking Standards Design and Good Practice Guide – September 2009. These revised standards were adopted by the Council as statutory planning guidance in February 2012.

9.2. Flats and houses have the same parking standard as follows:

- 1 bedroom accommodation – 1 space per dwelling
- 2 bedroom accommodation and above – 2 spaces per dwelling
- Visitor parking – 0.25 spaces per dwelling (rounded up to the nearest whole number)

9.3. The proposals would appear to more than meet the Council's parking standards for new development.

9.4. However, should the site move forward to planning application stages, it is recommended that a Transport Statement be undertaken, including parking surveys, to demonstrate that the loss of the garages will not give rise to any planning or highway problems.

9.5. Cycle parking will need to be provided at 1 secure covered space per dwelling if a garage or secure area is not provided within the curtilage of the dwelling.

1 covered visitor cycle space will need to be provided per 8 dwellings if no secure space is provided for each dwelling.

10.0 **Legals**

10.1. We have not been provided with a Housing Management Report and Legals Checklist for this site.

10.2. Legal matters would therefore need to be checked to ensure there are no encumbrances that affect redevelopment of the site.


11.0 **Costs**

11.1. It is considered that a budget of £250,000.00, should be allowed for this scheme, inclusive of contractor design fees, but exclusive of professional fees and VAT. Please refer to Appendix E.

12.0 **Recommendations and Conclusions**

12.1. We believe that due to the need to relocate the high level of below-ground services crossing this site, and the associated costs, this site may be better used as an area of parking in support of other adjacent development sites in the programme.

Signed :


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For Pellings LLP

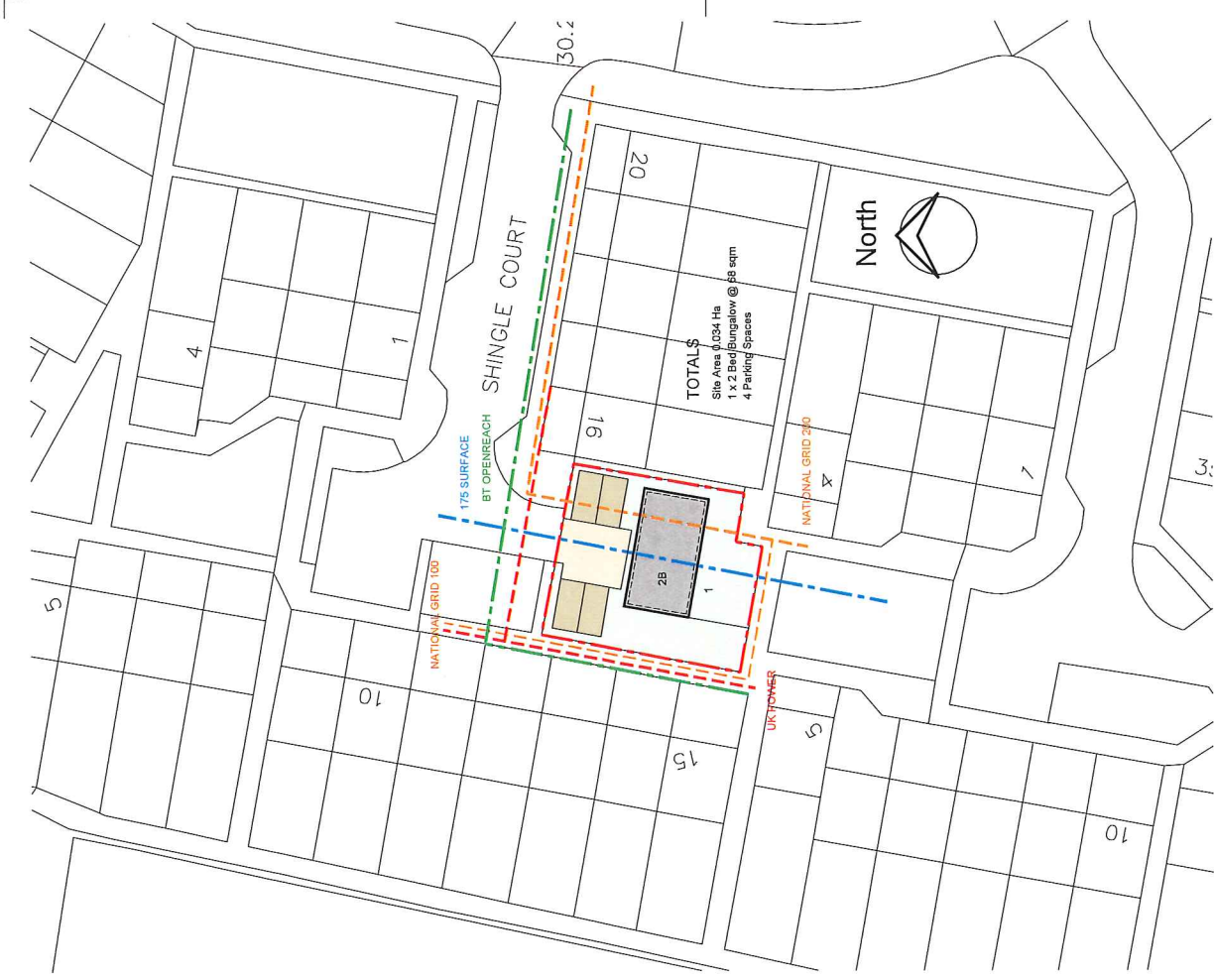
Date :

6th February 2015
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Appendix A

Development Proposals

Drawing 612.023/P4-21 Revision A

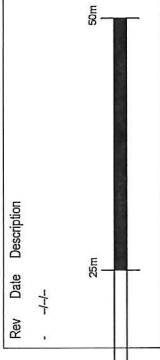


NOTES
 Report all discrepancies, errors and omissions.
 Report scale as shown on site before commencing any work or preparing shop drawings.
 All materials, components and workmanship are to comply with standards, specifications and recommendations that from time to time shall apply.
 For all specialist work, see relevant drawings.
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PRELIMINARY

Rev	Date	Description
1	12/11/14	Issue for comment

Name



Pelings

Pelings LLP 24 Winton Road Borely Key, BR1 1BY 0203 666 9111 0203 019 0019 e.borely@pelings.co.uk www.pelings.co.uk		Architectural & Planning • Building Surveying • Project Management • Cost Consultancy • CDM Co-ordination	
CLIENT East Thames HA	PROJECT EFDC House Building	DATE DEC 2014	SCALE 1:500 @ A3
TITLE Existing and Proposed Plans Shingle Court Waltham Abbey	DRAWN NP	CHECKED CR	DRAWN NO 612 023 IP4-21 IA

Appendix B

Site Photographs

Appendix B - Site Photographs

1.



2.



3.



4.



Appendix C

Existing Site Plan



Contains Ordnance Survey & Royal Mail Data
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<p>Directorate of Environment & Street Scene Civic Offices High Street Epping, Essex, CM16 4BZ Tel. 01992 564000</p>	<p>Project Potential Site for Council House Building Program</p> <p>Drawing No. 201206014 - BV</p>	<p>Content Shingle Court Waltham Abbey</p>	<p>Date 04/07/12</p> <p>Scale 1:1250 @ A4</p> <p>Drawn By Robert Irwin</p>
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Appendix D

Information on Possible Contamination

Information on possible contamination has been forwarded by Epping Forest District Council by way of email of 22nd May 2013, giving information on potential contamination across all the primary sites.

This clarifies possible ground contamination derived from asbestos, made ground, hydrocarbons, petroleum hydrocarbons and the like.

It is likely that any Planning Consent will carry a Condition that all contamination issues are to be remediated.

Accordingly, we recommend that initial site investigation is undertaken for all sites that move forward to Planning Applications.

Appendix E

Cost Build-up

Shingle Court Waltham Abbey

Accommodation Summary	Nr	m2	ft2	
Affordable Apartments] see accommodation
Affordable Houses				
Bungalows	1	68	732] schedule below
TOTAL GIFA	1	68	732	

BUDGET COST ALLOWANCES

Item	Description	Qty	Unit	Rate	Totals
1.00 Enabling Works					
1.01	Demolition of existing garages	8	Nr	£650	£5,200
1.02	Allowance for removal of asbestos	8	Nr	£350	£2,800
1.03	Site clearance	345	m2	£15	£5,175
				Sub-total	£13,175
2.00 Construction					
2.01	Apartments				
	Private areas		m2	£1,150	
	Communal areas (20% allowed)		m2	£750	
2.02	Houses		m2	£1,050	
2.03	Bunglaows	68	m2	£950	£64,600
				Sub-total	£64,600
3.00 Abnormals					
3.01	Allowance for contaminated ground		Item		Excluded
3.02	Extra Over for wall:floor ratio (> 85%)		m2	£250	
3.03	Allowance for enhanced external fabric finish		m2	£30	no allowance
3.04	Extra for wheelchair unit adaptations		Nr	£6,000	no allowance
3.05	Passenger lift serving apartments		Nr	£75,000	not required
3.06	Measures to achieve CfSH Level 4	1	Nr	£2,500	£2,500
3.07	Balconies (average 4m2 each)		Nr	£2,200	no allowance
3.08	PV panels to roof		m2	£750	no allowance
3.09	Extra Over for thin joint construction		Nr	£400	no allowance
3.10	Extra over cost for excavating and removing tarmac surface	233	m2	£20	£4,660
3.11	National grid 200mm diameter gas mains diversion.	1	Item	£35,000	£35,000
3.12	Diversion of 175mm diameter stormwater drain	1	Item	£9,000	£9,000
				Sub-total	£51,160
4.00 External Works	(see build up overleaf)				£37,186
5.00 Contractor's Preliminaries					
5.01	Site set up, running costs, management, etc.	33	weeks	£1,749	£57,706
5.02	Scaffolding	113	m2	£30	£3,390
5.03	Hoardings	76	m	£60	£4,532
				Sub-total	£65,628
			£/m2	£/ft2	
	INDICATIVE CONSTRUCTION COST		3,408	317	231,749
	(Excluding FF&E, Fees, etc.)				

Shingle Court Waltham Abbey

6.00 Other Costs

6.01 Client FF&E (white goods, etc.)	Item		Excluded
6.02 Telecoms / ICT / Security	Item		Excluded
6.03 Contingency Allowance		5.0%	£11,587
6.04 Contractor's Design Fees		4.0%	£6,645

Totals **£249,981**

TOTAL INDICATIVE BUDGET COST	(say)	250,000	3,676	£250,000
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Refer to below for Clarifications, Assumptions and Exclusions

EXTERNAL WORKS

Item	Description	Qty	Unit	Rate	Totals
4.01	Private gardens (incl. fencing)	76	m2	£45	£3,420
4.02	Communal soft landscaping	102	m2	£25	£2,542
4.03	Allowance for planting		Item	£1,500	no allowance
4.04	Allowance for communal drying area		Nr	£3,500	no allowance
4.05	Access road, parking and turning - adaptations	90	m2	£65	£5,850
4.06	Pedestrian paving - adaptations	37	m2	£45	£1,665
4.07	Cross over / highways adaptations		Item	£1,500	
4.08	Boundary treatment (fencing/walls)	76	m	£120	£9,064
4.09	External bins store		Nr	£2,500	no allowance
4.10	Cycle store		Nr	£1,500	no allowance
4.11	Foul water drainage	68	m2	£65	£4,420
4.12	External surface water drainage	208	m2	£40	£8,320
4.13	Attenuation tanks, etc		Item		excluded
4.14	External lighting	127	m2	£15	£1,905
4.15	Utilities mains supplies		Nr	£2,500	
4.16	New Substation		Nr		Excluded
Sub-total					£37,186

ACCOMMODATION SCHEDULE

Description	Nr	GIA	Sub-Totals	Totals
Flats/Maisonettes				
1B 2P Flat		53 m ²		
2B 4P Flat		73 m ²		
Allowance for communal space				
Houses				
2B 4P House		77 m ²		
3B 5P House		93 m ²		
Bungalow: 2B	1 Nr	68 m ²	68	68
				68

CLARIFICATIONS AND ASSUMPTIONS

Estimate based on:

Pellings Drawing No. 612023.P4-21A

The drawing clearly shows a National Grid 200mm diameter pipe going under the position of the bungalow to be built on site. The type of service i.e. low medium or high pressure has not been stipulated,

The colour coding indicates that it is a local high pressure mains, and the costs assessed are based on this but has to be accurately ascertained as it might result in refusal for permission to build the bungalow by the National Grid.

this needs to be investigated as it poses a risk to the project, not just increasing costs but from the point of view of constructing the works. The

We have not had an opportunity to visit the site but photographs have been made available. We have also utilised Google Earth to inform allowances.

GIFA is approximate due to early stage of design

Costs are based on a 1Q 2015 prices with no allowance for future cost fluctuations

Costs are based on a Single Stage Competitive D&B procurement route

Costs are based on a Contractor 'best programme' contract period

All units assumed to achieve Code for sustainable Homes Level 4

Cost include for OH&P @ 7%

It is assumed that a traditional construction (concrete strip foundations, brick/block walls, timber or beam / block floor

Contractors design fees are based upon appointment with planning consent under JCT D&B contract

Assumed no Party Wall or Rights of Lights issues

Assumed no Asbestos removal required, except to roofs of existing garages.

No allowance has been made for designated child play space

Exclusions

Clients professional fees (including statutory fees)

VAT

Excludes any off-site works

Provision of loose fittings and furnishings

Costs of compliance of any conditions imposed by statutory bodies

Costs of Section 106, 278 and other Agreement(s) or Community Infrastructure Levy charges

Commercial Commentary

PLL is mindful that the construction industry is becoming increasingly volatile. We are seeing increasingly lengthy lead in times for materials (in particular due to reduced brick and block stocks) which is having an effect on tender prices.

That said this project is likely to be attractive to the Contractors' various supply chains and should therefore stimulate an element of healthy competition.

However, we would suggest that the Client retains a reasonable, undeclared Contingency to offset the potential risk that market forces will increase tender prices.