

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

**Feasibility Report**

**Site: 51-70 (Garages) Bushfields, Loughton IG10 3JR**

**Rev: A**

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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 six 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 have been instructed to progress feasibility studies to all 59 sites and 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 in a residential area half a mile to the west of Debden station.
- 2.2. The site consists of 21 single garages and hardstanding with narrow access. There are a small number of trees on or overhanging the boundaries. It is situated on one side of a close of 11 two bedroom terraced houses, none of which appear to have any parking spaces immediately associated with them. The surrounding area is residential but it consists of a range of architectural styles. There are two, three and four storey houses and flats, some brick built and some concrete panelled, with both flat and pitched roofs.
- 2.3. As indicated below, there is a foul sewer crossing the Southern part of the site.
- 2.4. The site backs on to the railway line.
- 2.5. There is the possibility of a private garage (different style to the remainder) built on the North West corner of the site.
- 2.6. The site is accessed from the rear of a number of the existing house, and the legal position of such access should be checked.

## 3.0 **Proposals**

- 3.1. Read in conjunction with drawings 612.023.P2-9A attached at Appendix A.
- 3.2. The proposals are :  
  
Erection of a 2 x two storey 2 bedroom detached houses each with gardens  
Provision of 6 parking spaces and access/landscaping
- 3.3. The proposals endeavour to take account of the issues highlighted above, although vehicular access from the rear of No. 125 has been lost.

## 4.0 **Planning Issues and Risks**

### ***Relevant Planning Policies/Considerations***

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

- 4.2. The site is not located in a Conservation Area and it is not designated for any particular purposes in the Epping Forest District Council Combined Local Plan 1998 and Local Plan Alterations 2006. The site does not lie in a Flood Zone on the Environment Agency Flood Map.
- 4.3. There are no specific policies which prevent the loss of existing garages although policy ST4 (Road Safety) states that 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. Parking spaces to meet with the Council's standards are proposed for the new dwellings.
- 4.4. It will be necessary to undertake a Parking Survey and to prepare a Transport Statement to demonstrate that the loss of the garages and proposed development would not cause any parking shortfalls or harm to highway conditions or the amenities of the area.
- 4.5. The site is located in the settlement of Loughton and the proposal would be consistent with policy CP7 which encourages the efficient use of existing built-up areas by the 'recycling of vacant, derelict, degraded and under-used land to accommodate the development' and the 're-use of urban sites, which are no longer appropriate to their existing or proposed use in the foreseeable future, for alternative land uses'.
- 4.6. The proposal would comply with policy H4A which states the need for a range of dwellings, including an appropriate proportion of smaller dwellings, to meet identified housing need on a site-by-site basis.
- 4.7. The development of small family homes with rear gardens and private and communal parking would be in keeping with the character and appearance of the area and may comply with Epping Forest's design policies and guidance.

## 5.0 **Impact/Implications of Statutory Services**

- 5.1. We have undertaken statutory services enquiries to the following:
- Southern Gas
  - Cable and Wireless
  - Virgin Media
  - Thames Water
  - BT
  - National Grid
  - Scottish and Southern Energy
  - Environment Agency
  - UK Power Networks
- 5.2. Responses received to date are from the Environment Agency, National Grid, UK Power Networks, Virgin Media and Thames Water.
- 5.3. The Environment Agency has not pointed out any watercourses which cross the site.
- 5.3.1. National Grid: No apparatus appears to be located on the site.
- 5.3.2. UK Power Networks: There do not appear to be any installations on the site.
- 5.3.3. Virgin Media: No apparatus appears to be located on the site.

- 5.4. Thames Water: A foul sewer transverses the southern side of the site, and it is possible that Thames Water may require a 6m easement zone for maintenance access.
- 5.5. 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.
- 5.6. As indicated above, proposals endeavour to take account of existing services running across the site.

## 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, with also some retail elements nearby 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, and also a former horticultural nursery. Possible contaminants in respect of the former use as a nursery are summarised and indicated within the note produced by EFDC Planning and Economic Development Directorate at Appendix E.
- 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.
- 6.7. The site is accessed by way of a narrow driveway and as at present, our proposals do not include a turning head for refuse or emergency vehicles. Accordingly, subject to detailed design, an independent refuse storage area may be required along with sprinkler provision to the new houses for fire protection.

## 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/P2-9 it is not considered that Party Wall matters will be relevant.
- 7.3. We would recommend approach to Network rail to identify any particular requirements that might affect proposals.

## 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 D 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.

## 10.0 **Legals**

- 10.1. We have been provided with a Summary Report of legal matters from EFDC Solicitors. The report makes reference to the suggested appropriation of land for planning purposes which would extinguish any prior rights of way.
- 10.2. The report makes reference to possible rights of light risk. A blanket policy against such risk might be considered.

- 10.3. There is vehicular access into the site from the rear of 127/131 Chequers Road and the Housing Management Report advises that there are licences in place for this access.
- 10.4. The Legals Report advises that one of these licences has lapsed and the other an be terminated with one months' notice.
- 10.5. One of the garages appears to be in use by the owners of 88 Alderton Hall Lane. This is indicated as a private garage on the Housing Management Report, however this is not highlighted to be outside of the scope of the title of the site as indicated within the Legals Report and requires clarification. This garage and access to it is maintained, in any event, within Pellings proposals.
- 10.6. It is further noted that the small 'lay by' in front of No. 137 Bushfields is in fact within the ownership of 137 and not within EFDC title. We would not consider that this would have any effect on the development options for the site.


**11.0 Costs**

- 11.1. It is considered that a budget of £402,900.00 should be allowed for this scheme, inclusive of contractor design fees, but exclusive of professional fees and VAT. Please refer to Appendix F.

**12.0 Recommendations and Conclusions**

- 12.1. Subject to an overall lifetime cost appraisal, we conclude that the site appears to have economic development opportunities and we recommend is considered for taking forward to planning application stage, with a view to incorporating into the overall programme.

Signed:

  
.....

**Pellings LLP**

Date:

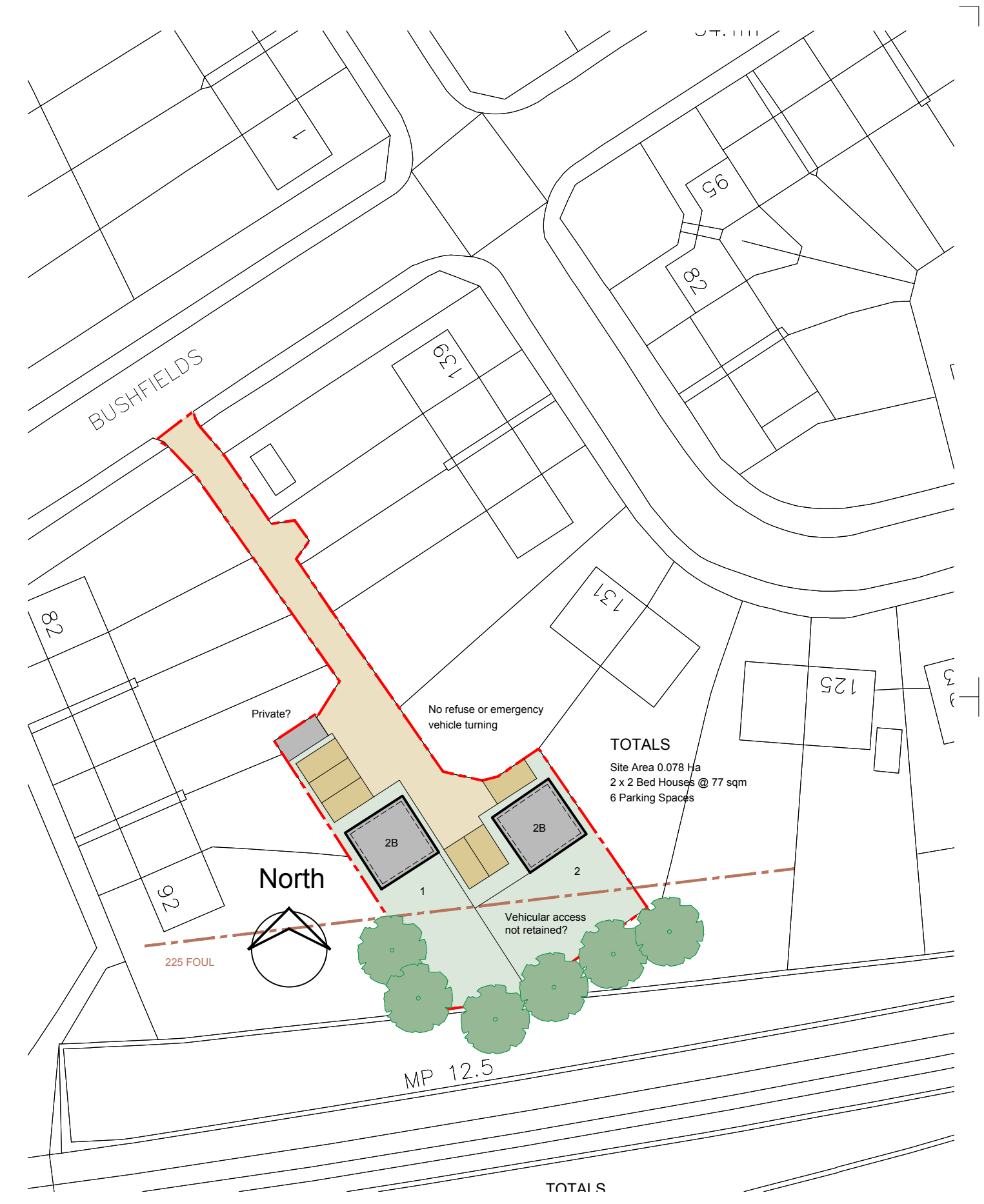
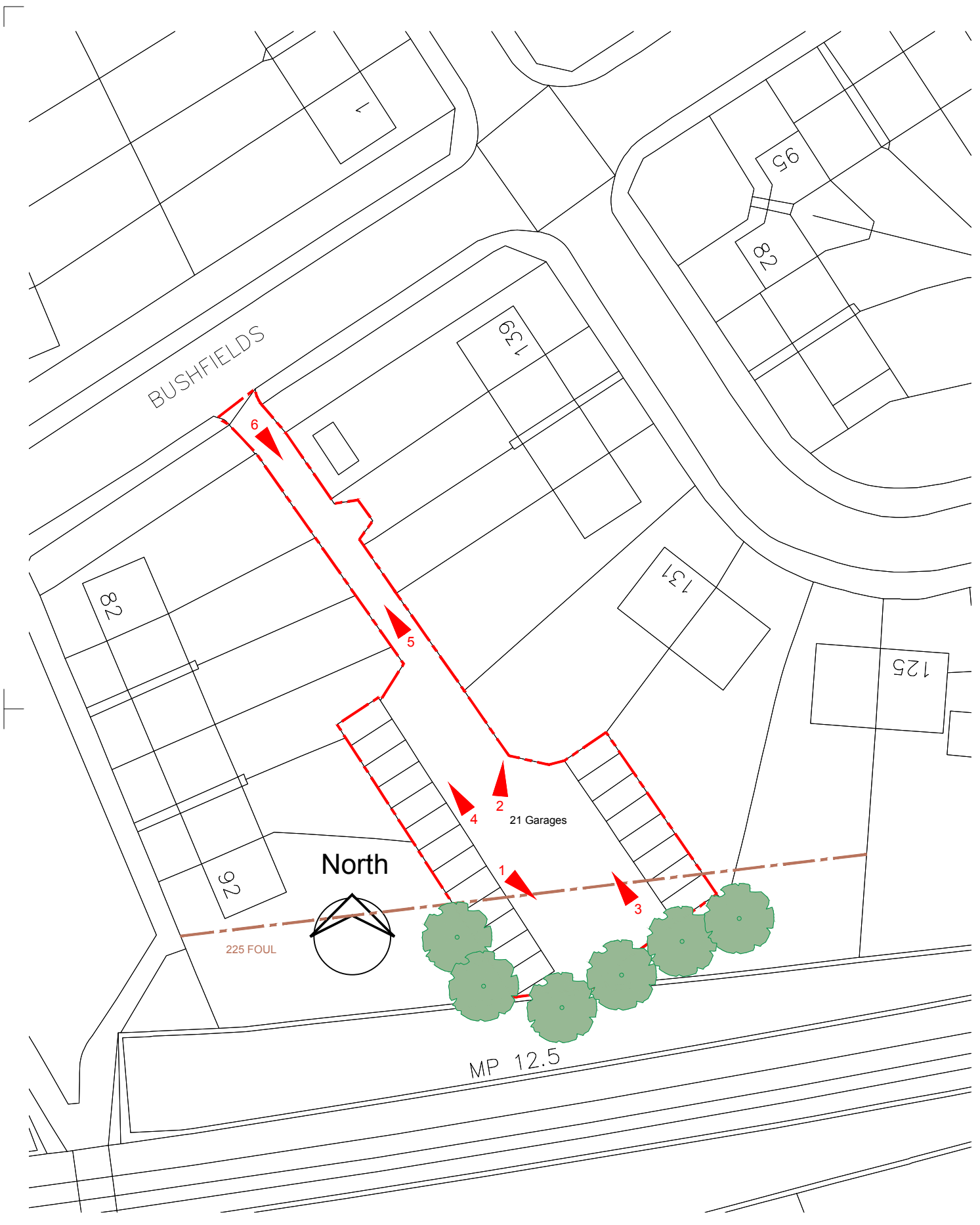
1st October 2014  
.....

# Appendix A

Development Proposals

Drawings 612.023.P2-8A





**TOTALS**  
 Site Area 0.078 Ha  
 2 x 2 Bed Houses @ 77 sqm  
 6 Parking Spaces

**NOTES:**  
 Report all discrepancies, errors and omissions  
 Do not scale from this drawing.  
 Verify all dimensions on site before commencing any work or preparing shop drawings.  
 All materials, components and workmanship are to comply with all the relevant British Standards, Codes of Practice, and appropriate manufacturers recommendations that from time to time shall apply.  
 For all specialist work, see relevant drawings.  
 This drawing and design are copyright of PELLINGS LLP

**PRELIMINARY**

Rev	Date	Description	Name
-	-/-/-		



Pellings LLP 24 Widmore Road Bromley Kent BR1 1RY t 020 8460 9114 f 020 8313 0019 e bromley@pellings.co.uk www.pellings.co.uk		Architecture & Planning ■ Building Surveying ■ Project Management ■ Cost Consultancy ■ CDM Co-ordination			
CLIENT	East Thames HA	PROJECT	EFDC House Building Programme		
TITLE	Existing and Proposed Plans Bushfields	DATE	NOV 2013	SCALE	1:500 @A3
		DRAWN	NP	CHK	
		DRAWING No	612 023 P2-9		A

## Appendix B

### Site Photographs

## Appendix B - Site Photographs

1.



2.



3.



4.



5.



6.



## Appendix C

Existing Site Plan



Contains Ordnance Survey & Royal Mail Data  
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Directorate of Environment & Street Scene  
 Civic Offices  
 High Street  
 Epping, Essex,  
 CM16 4BZ  
 Tel. 01992 564000

Project  
 Potential Site for Council House  
 Building Program  
 Drawing No.  
 201206014 - AW

Content  
 Bushfields  
 Loughton

Date  
 04/07/12  
 Scale  
 1:1250 @ A4  
 Drawn By  
 Robert Irwin

## Appendix D

Statutory Services Information





Adam Greenhalgh  
Pellings  
24 Widmore Road  
Bromley  
Kent  
BR1 1RY

Plant Protection  
National Grid  
Block 1; Floor 1  
Brick Kiln Street  
Hinckley  
LE10 0NA  
E-mail: [plantprotection@nationalgrid.com](mailto:plantprotection@nationalgrid.com)  
Telephone: +44 (0)800 688588

National Grid Electricity Emergency Number:  
0800 40 40 90\*

National Gas Emergency Number:  
0800 111 999\*

\* Available 24 hours, 7 days/week.  
Calls may be recorded and monitored.

[www.nationalgrid.com](http://www.nationalgrid.com)

Date: 23/10/2013

Our Ref: NL\_TE\_Z6\_3SW\_041954

Your Ref: Bushfields. la079



**RE: Proposed Works, IG10 3HD, Bushfields, Loughton**

Thank you for your enquiry which was received on 17/10/2013.

Please note this response and any attached map(s) are valid for 28 days.

An assessment has been carried out with respect to National Grid Electricity Transmission plc's and National Grid Gas plc's apparatus. Please note it does not cover the items listed in the section "Your Responsibilities and Obligations", including gas service pipes and related apparatus.

For details of National Grid's network areas please see the National Grid website (<http://www.nationalgrid.com/uk/Gas/Safety/work/>) or the enclosed documentation.



**As your works are at a "proposed" stage, any maps and guidance provided are for information purposes only. This is not approval to commence work. You must submit a "Scheduled Works" enquiry at the earliest opportunity and failure to do this may lead to disruption to your plans and works. National Grid will endeavour to provide an initial assessment within 14 days of receipt of a Scheduled Works enquiry and dependent on the outcome of this, further consultation may be required.**

**In any event, for safety and legal reasons, works must not be carried out until a Scheduled Works enquiry has been completed and final response received.**

## Your Responsibilities and Obligations

The "Assessment" Section below outlines the detailed requirements that must be followed when planning or undertaking your scheduled activities at this location.

It is your responsibility to ensure that the information you have submitted is accurate and that all relevant documents including links are provided to all persons (either direct labour or contractors) working for you near National Grid's apparatus, e.g. as contained within the Construction (Design and Management) Regulations.

This assessment solely relates to National Grid Electricity Transmission plc (NGET) and National Grid Gas plc (NGG) apparatus. This assessment does NOT include:

- National Grid's legal interest (easements or wayleaves) in the land which restricts activity in proximity to National Grid's assets in private land. You must obtain details of any such restrictions from the landowner in the first instance and if in doubt contact National Grid.
- Gas service pipes and related apparatus
- Recently installed apparatus
- Apparatus owned by other organisations, e.g. other gas distribution operators, local electricity companies, other utilities, etc.

It is **YOUR** responsibility to take into account whether the items listed above may be present and if they could be affected by your proposed activities. Further "Essential Guidance" in respect of these items can be found on the National Grid Website (<http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf>).

This communication does not constitute any formal agreement or consent for any proposed development work; either generally or with regard to National Grid's easements or wayleaves nor any planning or building regulations applications.

NGG and NGET or their agents, servants or contractors do not accept any liability for any losses arising under or in connection with this information. This limit on liability applies to all and any claims in contract, tort (including negligence), misrepresentation (excluding fraudulent misrepresentation), breach of statutory duty or otherwise. This limit on liability does not exclude or restrict liability where prohibited by the law nor does it supersede the express terms of any related agreements.

If you require further assistance please contact the National Grid Plant Protection team via e-mail ([click here](#)) or via the contact details at the top of this response.

Yours faithfully

National Grid Plant Protection Team

# ASSESSMENT

## Affected Apparatus

The National Grid apparatus that has been identified as being in the vicinity of your proposed works is:

- Low or Medium pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are gas services and associated apparatus in the vicinity)

## Requirements

**BEFORE carrying out any work you must:**

- Carefully read these requirements including the attached guidance documents and maps showing the location of National Grid apparatus.
- Contact the landowner and ensure any proposed works in private land do not infringe National Grid's legal rights (i.e. easements or wayleaves). If the works are in the road or footpath the relevant local authority should be contacted.
- Ensure that all persons, including direct labour and contractors, working for you on or near National Grid's apparatus follow the requirements of the HSE Guidance Notes HSG47 - 'Avoiding Danger from Underground Services' and GS6 – 'Avoidance of danger from overhead electric power lines'. This guidance can be downloaded free of charge at <http://www.hse.gov.uk>
- In line with the above guidance, verify and establish the actual position of mains, pipes, cables, services and other apparatus on site before any activities are undertaken.

# GUIDANCE

**Excavating Safely - Avoiding injury when working near gas pipes:**

[http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe\\_leaflet3e2finalamends061207.pdf](http://www.nationalgrid.com/NR/rdonlyres/2D2EEA97-B213-459C-9A26-18361C6E0B0D/25249/Digsafe_leaflet3e2finalamends061207.pdf)

## Standard Guidance

**Essential Guidance document:**

<http://www.nationalgrid.com/NR/rdonlyres/6D6525F9-59EB-4825-BA89-DBD7E68882C7/51319/EssentialGuidance.pdf>

**General Guidance document:**

<http://www.nationalgrid.com/NR/rdonlyres/55C13C4D-A1AA-4B13-BFDA-1CF59F88B326/51318/GeneralGuidance.pdf>

**Excavating Safely in the vicinity of gas pipes guidance (Credit card):**

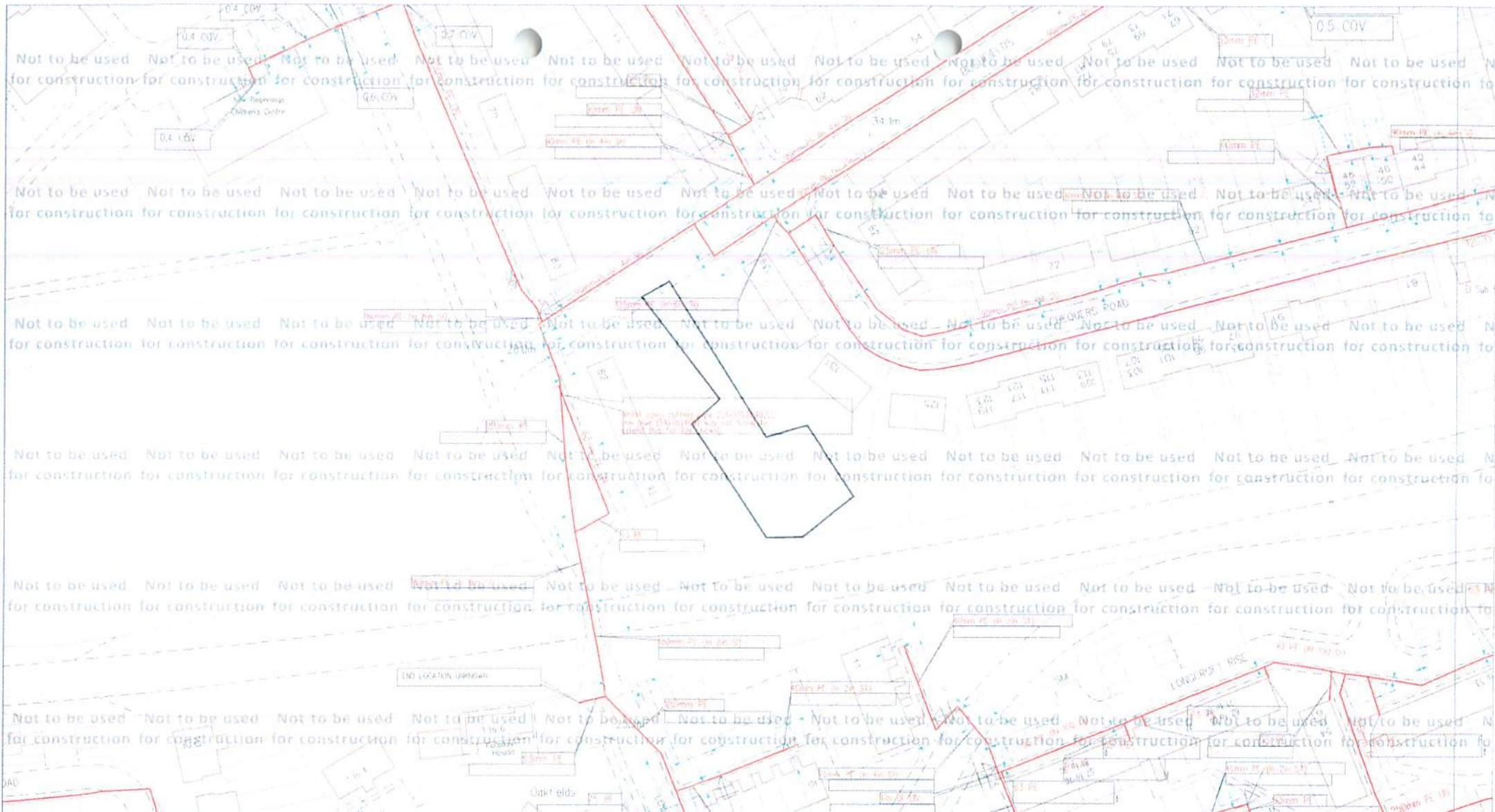
<http://www.nationalgrid.com/NR/rdonlyres/A3D37677-6641-476C-9DDA-E89949052829/44257/ExcavatingSafelyCreditCard.pdf>

**Excavating Safely in the vicinity of electricity cables guidance (Credit card):**

<http://www.nationalgrid.com/NR/rdonlyres/35DDEC6D-D754-4BA5-AF3C-D607D05A25C2/44858/ExcavatingSafelyCreditCardelectricitycables.pdf>






Copies of all the Guidance Documents can also be downloaded from the National Grid Website:


<http://www.nationalgrid.com/uk/Gas/Safety/work/downloads/>



ID: NL\_TE\_Z6\_3SW\_041954  
 USER: laura.altenhofen  
 DATE: 23/10/2013  
 DATA DATE: 15/10/2013  
 REF: Bushfields. la079  
 MAP REF: TQ4395  
 CENTRE: 543329, 195784

View extent: 361m, 196m


LP MAINS   
 MP MAINS   
 IP MAINS   
 LHP MAINS   
 NHP MAINS 

0m  25m  
 Approximate scale 1:1250  
 on A4 Colour Landscape

**Map not to be used for construction**






This plan shows those pipes owned by National Grid Gas plc in its role as a Licensed Gas Transporter (GT). Gas pipes owned by other GTs, or otherwise privately owned, may be present in this area. Information with regard to such pipes should be obtained from the relevant owners. The information shown on this plan is given without warranty, the accuracy thereof cannot be guaranteed. Service pipes, valves, syphons, stub connections, etc., are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by National Grid Gas plc or their agents, servants or contractors for any error or omission. Safe digging practices, in accordance with HS(G)47, must be used to verify and establish the actual position of mains, pipes, services and other apparatus on site before any mechanical plant is used. It is your responsibility to ensure that this information is provided to all persons (either direct labour or contractors) working for you on or near gas apparatus. The information included on this plan should not be referred to beyond a period of 28 days from the date of issue.

Map 1 of 1 (GAS)  
 MAPS Plot Server Version 1.7.6



Requested by: Pellings

This plan is reproduced from or based on the OS map by National Grid Gas plc, with the sanction of the controller of HM Stationery Office.  
 Crown Copyright Reserved. Ordnance Survey  
 Licence number 100024886

Valve  Depth of Cover  Syphon  Diameter Change  Material Change 

## Adam Greenhalgh

---

**From:** SPHatfield <SPHatfield@environment-agency.gov.uk>  
**Sent:** 23 October 2013 17:49  
**To:** Adam Greenhalgh  
**Subject:** RE: Epping Forest DC - potential development sites

Dear Adam,

Further to your letters dated 16 October (your ref: AG/dh/612.023/05), we have the following comments to make on the specific sites listed below (please note that comments on three sites – Rear of shops, Loughton Way, Buckhurst Hill; Pentlow Way, Buckhurst Hill and Site B, Marlescroft Way, Loughton – will follow on or before 7 November due to additional site constraints).

**Sites:** Burton Road, Debden  
White Hills, Loughton  
Thatchers Close, Loughton  
Site A, Pyries (**note:** should be 'Pyrles') Lane, Loughton  
Site B, Pyries (**note:** should be 'Pyrles') Lane, Loughton  
Site A, Chequers Road, Loughton  
Site B, Chequers Road, Loughton  
Site A, Langley Meadow, Loughton  
Site B, Langley Meadow, Loughton  
Hornbeam Close, Buckhurst Hill  
Hornbeam House, Hornbeam Road, Buckhurst Hill  
Bourne House, Hornbeam Road, Buckhurst Hill  
Bushfields, Loughton  
Etheridge Road, Loughton  
Lower Alderton Hall Lane, Loughton  
Ladyfields, Loughton  
Kirby Close, Loughton  
Chester Road, Loughton  
Hillyfields, Loughton

### Comments

As we are in an area of serious water stress, we endorse the efficient use of water resources. Residential developments such as your proposal should take advantage of water efficient technologies. This is in line with Epping Forest's local policy CP5 which states that the efficient use of water is encouraged through water efficient appliances and rainwater harvesting for example.

We suggest you use water efficiency measures and aim to achieve 105 litres/person/day. This is equivalent to level 3/4 for water within the Code for Sustainable Homes. Achieving this standard within new homes can be accomplished at very little additional cost, and is significantly cheaper than retrofitting such measures later.

Every opportunity should be taken to maximise Sustainable Drainage Systems (SuDS) such as green roofs, ponds, swales and permeable pavements, to alleviate surface water runoff. I have attached a copy of our SuDS guidance, which contains the SuDS hierarchy, to help you with your designs. The methods at the top of the hierarchy are preferred because they are beneficial in terms of sustainability and biodiversity. The hierarchy should be used in descending order. Tanks should only be used as a last resort. Epping Forest's local policy U3B on sustainable drainage systems advocates this approach.

As the sites are all under a hectare in Flood Zone 1, they fall within cell F5 of our Flood Risk Standing Advice consultation matrix. Epping Forest Local Planning Authority will therefore be responsible for assessing flood risk at these sites.


Kind regards,

**Clark Gordon**  
**Sustainable Places Planning Advisor**  
**Environment Agency**  
**North East Thames Area - Hatfield Team**  
01707 632308



The climate is changing. Are you?

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[www.environment-agency.gov.uk/climate-ready](http://www.environment-agency.gov.uk/climate-ready)

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Date: 24/10/13

Scale: 1:1083

Map Centre: 543348.1,195791.8

Data updated: 25/08/13

Telecoms Plan A4

**Important information - please read**

The purpose of this plan is to identify Virgin Media apparatus. We have tried to make it as accurate as possible but we cannot warrant its accuracy. In addition, we caution that within Virgin Media apparatus there may be instances where main voltage power cables have been placed inside green, rather than black ducting. Further details can be found using the 'Affected Postcodes.pdf', which can be downloaded from this website.

Therefore, you must not rely solely on this plan if you are carrying out any excavation or other works in the vicinity of Virgin Media apparatus. The actual position of any underground service must be verified by cable detection equipment, etc. and established on site before any mechanical plant is used. Accordingly, unless it is due to the negligence of Virgin Media, its employees or agents, Virgin Media will not have any liability for any omissions or inaccuracies in the plan or for any loss or damage caused or arising from the use of and/or any reliance on this plan.

This plan is produced by Virgin Media Limited from Ordnance Survey © Crown Copyright 100019209

Duct, Trench



Chamber



Cabinet



agreenhalgh@pellings.co.uk





(c) Crown Copyright and database rights 2012 Ordnance Survey 100019345 Date: 23/10/13 Scale: 1:1083 Map Centre: 543308,195763.3 Data updated: 16/08/13 Clean Water Plan A4

Based on the Ordnance Survey Map with the sanction of the Controller of H.M. Stationary Office License Number:- 100019345. This map is to be used for the purposes of viewing the location of Thames Water plant only. Any other uses of the map data or further copies are not permitted. The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. This information is valid for the date printed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified on site before any works are undertaken.

Water Main		Meter	
Private Water		Valve	
Proposed Water		Hydrant	
Abandoned Asset		End Item	

agreenhaigh@pellings.co.uk





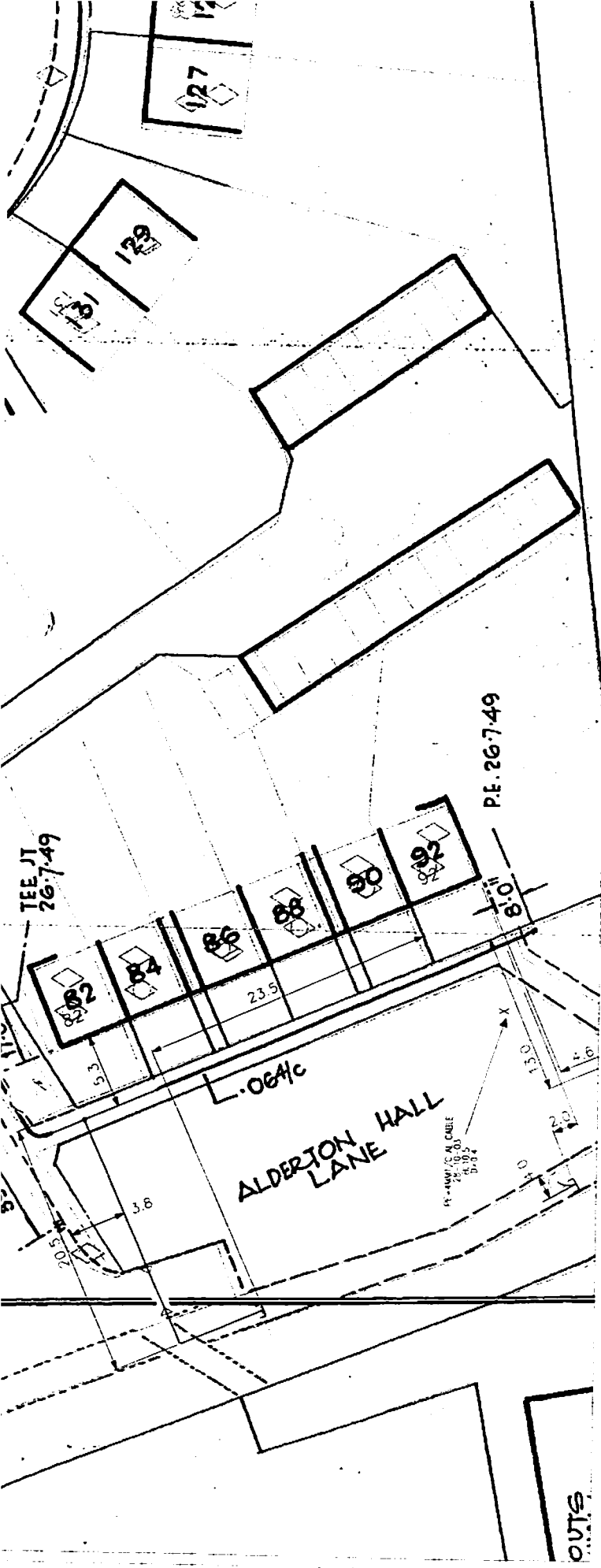
(c) Crown Copyright and database rights 2012 Ordnance Survey 100018345 Date: 23/10/13 Scale: 1:1083 Map Centre: 543308, 195763.3 Data updated: 16/08/13 Wastewater Plan A4

Based on the Ordnance Survey Map with the sanction of the Controller of the Controller of H.M. Stationary Office License Number:- 100019345. This map is to be used for the purposes of viewing the location of Thames Water plant only. Any other uses of the map data or further copies are not permitted. The position of the apparatus shown on this plan is given without obligation and warranty, and the accuracy cannot be guaranteed. This information is valid for the date printed. Service pipes are not shown but their presence should be anticipated. No liability of any kind whatsoever is accepted by Thames Water for any error or omission. The actual position of mains and services must be verified on site before any works are undertaken.

	Foul Sewer		Foul Manhole
	Surface Sewer		Surface Manhole
	Combined Sewer		Combined Manhole
	Abandoned Sewer		Abandoned Manhole
	Pressure Main		Other Manhole
	Private Asset (Colour denotes effluent type)		End Item
	Proposed Asset (Colour denotes effluent type)		S104 Boundary

agreenhalgh@pellings.co.uk





PRIMARY CABLES  
 EXTRA HIGH VOLTAGE CABLES (EHV) 22,000 TO 132,000 Volts  
 Depth normally 750mm cover in earthenway & 600mm cover in footway.  
 Before digging within one metre of these cable routes  
 Telephone 0800 056 5866 or order that the Company's apparatus may be used  
 any necessary protection works agreed.

N.B. THRU-ROBOTS OR MOLES MUST NOT BE USED WITHIN THE VICINITY OF AN  
 BELONGING TO UK POWER NETWORKS WITHOUT FIRST CONTACTING THIS COMPANY

1. The position of the apparatus shown on this drawing is believed to be correct. Landmarks may have been altered since the apparatus was installed.
2. The exact position of the apparatus should be verified - use approved cubic prior to excavation using suitable hand tools.
3. It is essential that trial holes are carefully made avoiding the use of metallic picks until the exact location of all cables have been determined.
4. It must be assumed that there is a service cable into each property, lamp or sign, etc.
5. All cables must be treated as being live unless proved otherwise by UK Power.
6. The information provided must be given to all people working near UK Power equipment. Do not use plans more than 3 months after the issue date for extra.
7. Please be aware that electric cables/lines belonging to other owners of licenced distribution systems may be present and it is your responsibility to identify their

Plotted On : 22/10/2013

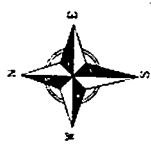
Plotted By : Kov Singh

Plot Description : Contents of plot menu file title\_line\_1

Contents of plot menu file title\_line\_2

Map Centre : TQ4395NW

UK Power Networks  
 Plan Provision  
 Core Street  
 IPSWICH  
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 IP3 8AA  
 Tel 0800 0565 866  
 Fax 08701 963782



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## Appendix E

### **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 F

Cost Build-up

Gross Internal floor area	m2	ft2
Affordable Flat Units	0	0
Allowance for communal space @ 20%	0	0
Affordable House Units	154	1,658
<b>TOTAL GIA</b>	<b>154</b>	<b>1,658</b>

Item	Element	Qty Unit	Rate £/unit	Total £
<b>1.0 Demolition</b>				
1.1	Demolition	271 m <sup>2</sup>	50	13,545
2.2	Site clearance	557 m <sup>2</sup>	10	5,573
1.2	Allowance for removal of asbestos	21 No	800	16,800
	<b>Sub-total</b>		<b>say</b>	<b>40,000</b>
<b>2.0 Affordable Flat units (xx nr. units)</b>				
2.1	Flats Private areas	0 m <sup>2</sup>	1,350	0
2.2	Flats communal areas (20% allowed)	0 m <sup>2</sup>	900	0
	<b>Sub-total</b>		<b>say</b>	<b>0</b>
<b>3.0 Affordable House units (02 nr. units)</b>				
3.1	House areas	154 m <sup>2</sup>	1,250	193,000
	<b>Sub-total</b>		<b>say</b>	<b>190,000</b>
<b>4.0 Abnormals / E/o and External Works</b>				
4.1	Private gardens (incl. fencing)	301 m <sup>2</sup>	40	12,000
4.2	Communal Gardens	75 m <sup>2</sup>	30	2,000
4.3	Access road, parking and turning	330 m <sup>2</sup>	65	21,000
4.4	Pedestrian paving	0 m <sup>2</sup>	50	Incl.
4.5	Cross over / highways adaptations	2 item	2,000	4,000
4.6	Allowance for contaminated ground	0 item		Excl.
4.7	Boundary treatment (fencing/walls)	175 m	160	28,000
4.8	Allowance for achieving CfSh Level 3	2 nr	4,500	9,000
	<b>Sub-total</b>		<b>say</b>	<b>80,000</b>
		£/m2	£/ft2	
	<b>INDICATIVE CONSTRUCTION COST</b>			<b>310,000</b>
	CONTINGENCY @ 5%			20,000
	CONTRACTORS DESIGN FEES @ 8%			26,400
	PRELIMS AND OVERHEADS AT 15%			46,500
	<b>TOTAL INDICATIVE CONSTRUCTION COST</b>	<b>2,616</b>		<b>402,900</b>

**Clarifications and Assumptions**

Estimate based on Pellings Feasibility drawings and standard ETG specifications  
 GIA is approximate due to early stage of design  
 Costs are based on a Q3 2014 start on site  
 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 3  
 It is assumed that a traditional construction (concrete strip foundations, brick/block walls, timber floor structure, sloped tiled roofs) will be used  
 Contractors design fees are based upon appointment with planning consent under JCT D&B contract  
 Assumed no Party Wall or Rights of Lights issues

**Exclusions**

Clients professional fees (including statutory fees)  
 VAT  
 Hazardous material removal  
 Excludes any off-site works  
 Provision of loose fittings and furnishings  
 Costs of compliance of any conditions imposed by TFL or other statutory bodies  
 Costs of Section 106, S108, S278 Agreement(s) or Community Infrastructure Levy charges