

Affordable Housing Viability Study

East Staffordshire Borough Council

Final Report
October 2010

*f*ordham
RESEARCH

Executive summary

Introduction

- S1 Fordham Research was commissioned by East Staffordshire Borough Council to carry out a study of affordable housing viability in the Borough. The Viability Study is intended to inform ongoing work on the preparation of the Local Development Framework (LDF).
- S2 Government Guidance in Planning Policy Statement 3: Housing (PPS3, 2006, para 29) requires Councils to set a 'Plan-wide' affordable housing target, and to test this for 'deliverability' by means of the 'economic viability of land for housing within the area'.

Summary findings

- S3 We have taken a strategic approach ensuring in particular that the sites were treated consistently. This is because the analysis is designed to test and demonstrate Borough-wide deliverability in line with the requirements in national guidance. This work is a strategic study designed to inform the development of Plan policy, rather than per se, as an exercise to predict as accurately as possible the actual financial outcomes of development on specific sites. The sites used in the study should be regarded as indicating more general patterns of development across the study area.
- S4 The results from the appraisals indicate that at current market values and costs it would be possible to sustain a target of 15% affordable housing, with no grant, across the study area as a whole.
- S5 With our base assumptions, under present market conditions only thirteen of the 19 sites were viable even with no affordable housing. We estimate that ten of those sites remain viable at 15% affordable, with one of the other three being marginal. In our view, a 15% target across the area as a whole is reasonable in the present (March 2010) market. With a 20% target, only seven sites would be fully viable.
- S6 It would be possible to set a higher target, of 30%, for the rural area alone, with lower targets of 15% for the Urban Extension at Burton (or one of similar scale at Uttoxeter) and 10% for other urban sites.

The approach to valuation

- S7 The study involved preparing financial appraisals for a representative range of sites. These appraisals assessed the capacity of such sites throughout East Staffordshire to support different levels of affordable housing. The approach was to 'model' viability using a range of variables and our bespoke spreadsheet software.

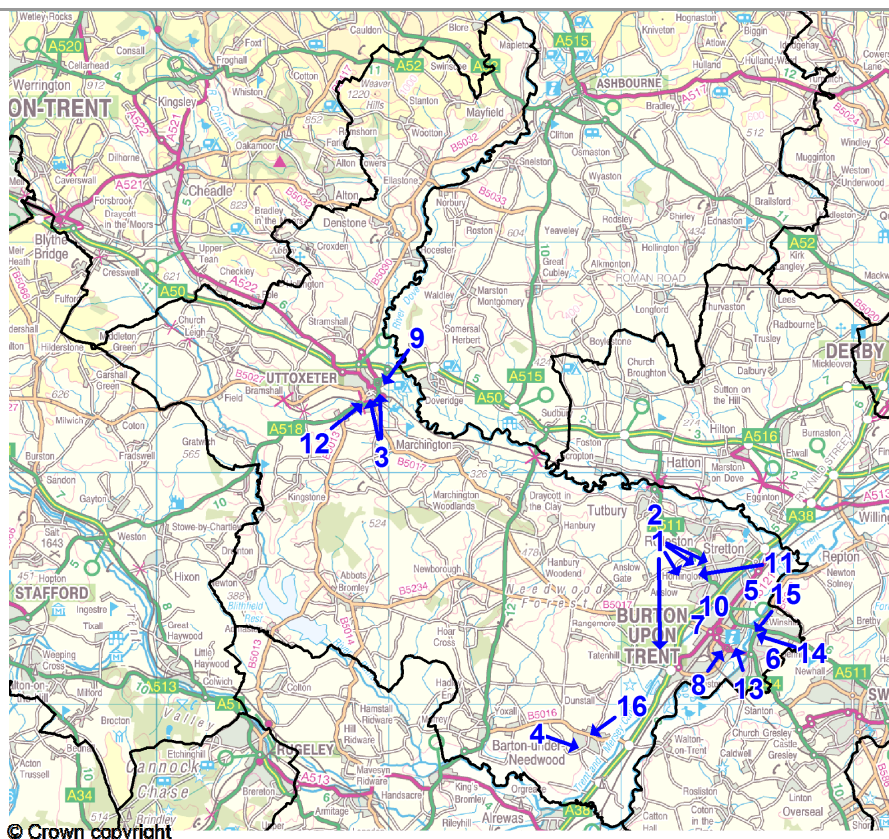
S8 It was decided that for East Staffordshire the required guidance on viability would best be achieved by looking at a range of site sizes, and at a combination of actual and notional sites. In discussion with the Council, it was decided that a total of 19 representative sites should be examined, and this number would provide some scope for exploring viability on sites below the current national guidance size threshold of 15 dwellings.

S9 The key features were:

- i) A final list of 15 actual and four notional sites was established in discussion with the Council. It was chosen to give a range of typical development situations, an appropriate balance between previous uses, a range of site sizes and to give coverage across the three sub-areas of Burton on Trent, Uttoxeter, and the rural parts of the Borough.
- ii) The sites ranged in size from four to 2,000 dwellings. All but five sites were on previously developed land.
- iii) Whilst four of the actual sites were subject to a planning application, the majority were either proposed sites or potential proposed sites in the ongoing planning process

S10 There were 16 main sites, one notional and 15 actual, and three additional small rural notional sites. The main sites' locations are shown below:

Figure S1 Site locations



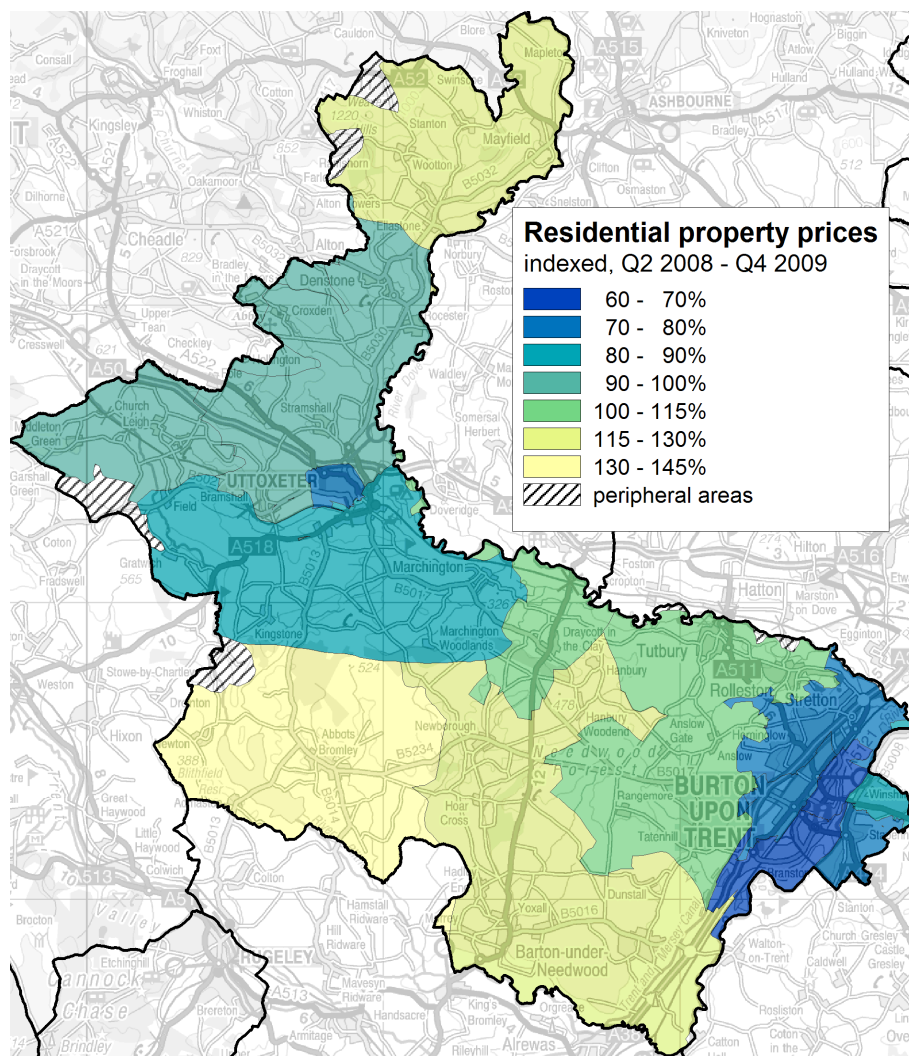
Source: Affordable Housing Viability Study 2010 Figure 2.1 in this report

- S11 The main sites total 3,586 dwellings on a net area of 84.1 ha, at an average density of 42 dwellings per ha net. There is a good range of site size, including three sites under the national threshold guidance size of 15 dwellings. All of the sites are wholly residential.

- S12 A typical brownfield development in the Council area might generate 15,500 sq ft per acre (3,550 sq m/ha). This standard 'development density' was varied downwards for sites in more suburban situations, and upwards in a few others, so as to provide the most plausible development scenario on each site, and ensuring that they were representative of development opportunities in the area.

- S13 A wide range of data was collected about housing in East Staffordshire: this included prices and land values. The map below illustrates house price variations across the Council area:

Figure S2 Postcode price indices



Indices compare prices to value for median postcode sector in England & Wales

Source: Affordable Housing Viability Study 2010 Figure 4.1 in this report

Testing sites for viability assessment

- S14 In order to provide reliable evidence on deliverability, the sites were to be examined under a range of assumptions about the key factors affecting viability:
- i) Affordable housing target levels of 10%, 20%, 30%, and 40% and no affordable housing
 - ii) Affordable housing split: 70% social rented and 30% intermediate
 - iii) Land values for alternative uses for the sites: clearly the site viability cannot plausibly fall below the level of alternative use, and so this must be established
 - iv) Assuming that no Social Housing Grant (SHG) would be routinely available
 - v) The calculations assume levels of developer contributions ('planning gain') equivalent to a comparatively modest level of £3,000 per dwelling for each scheme
 - vi) Level 3 of the Code for Sustainable Homes (CSH) was assumed, to reflect what will be a requirement from 2010, but also the RSS requirement for 10% renewable energy
 - vii) Abnormal costs were assessed and the figures taken into account where information collected for the sites indicated they were likely to arise.
- S15 The appraisals considered viability for two variant scenarios with regard to future changes in price and cost levels. The first reflected a short-term decline (prices falling 10% relative to build) and the second a return to conditions equivalent to the autumn 2007 market peak (prices rising 19% and costs falling by 6%). We also considered the impact of different assumptions for tenure split, for a higher sustainable standard (CSH Level 4) and for a higher level of planning gain contribution.
- S16 Clearly this range of elements generated a large range of possible outcomes. Those outcomes were assessed through our bespoke valuation methodology to indicate 'residual land values'. This is the standard approach, and assumes that all costs and returns are measured, except for the land value outcome. The latter is the key variable. It can then be compared with other scenarios and with alternative use values. The latter are commonly agricultural in rural areas and industrial/warehousing in urban locations.

Appraisal outcomes

- S17 To assess viability, the value of the land for the particular residential scheme adopted needs to be compared to the alternative use value to determine if there is another use which would derive more revenue for the landowner. If the assessed value does not exceed the alternative use value then the development is not viable. If the excess above alternative use value (the 'cushion') is sufficiently large the development is judged viable; if not, then it is marginal.
- S18 For the purpose of a strategic study like the present one it is necessary to take a comparatively simplistic approach to determining the alternative use value. In practice a wide range of considerations could influence the precise value that should apply in each case, and at the end of extensive analysis the outcome might still be contentious.
- S19 Our 'model' approach to alternative use value is outlined below:
- i) For sites previously in agricultural use, then agricultural land represents the existing use value
 - ii) Where the development is on former industrial, warehousing or similar land, then the alternative use value is considered to be industrial, and an average value of industrial land for the area is adopted as the alternative use value
 - iii) Where the site is occupied by buildings capable of beneficial use we would estimate their broad value
 - iv) Existing use as garden land would have a value greater than agricultural but significantly less than industrial, unless it could feasibly be developed in an industrial or commercial use
- S20 The level of the 'cushion' was set at £40,000 per acre – just over 25% of the industrial/warehousing benchmark value – for brownfield sites, but doubled to £80,000 for land in agricultural use.
- S21 Applying this approach, the results for the 19 sites are shown in the table below:

| Table S1 Appraisal outcomes: base appraisals, zero grant | | | | | | | |
|--|------------------|---------------|-------------------|----------|----------|----------|----------|
| No | Site | Alt use value | Value £k per acre | | | | |
| | | | No affordable | 10% | 20% | 30% | 40% |
| 1 | Burton UE | 10 | 167 | 121 | 74 | 27 | -21 |
| | | 90 | VIABLE | VIABLE | MARGINAL | MARGINAL | NOT VIAB |
| 2 | Village large GF | 10 | 280 | 223 | 165 | 107 | 48 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |
| 3 | Large urban BF | 150 | 300 | 212 | 124 | 35 | -57 |
| | | 190 | VIABLE | VIABLE | NOT VIAB | NOT VIAB | NOT VIAB |
| 4 | Village large GF | 10 | 422 | 352 | 281 | 209 | 137 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 147 | 86 | 25 | -40 | -105 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 6 | Urban edge BF | 150 | 300 | 228 | 155 | 82 | 8 |
| | | 190 | VIABLE | VIABLE | MARGINAL | NOT VIAB | NOT VIAB |
| 7 | Large urban BF | 150 | 162 | 86 | 9 | -72 | -153 |
| | | 190 | MARGINAL | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 8 | Inner urban BF | 150 | 110 | 34 | -44 | -123 | -204 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 9 | Small urban BF | 150 | 212 | 139 | 73 | -1 | -76 |
| | | 90 | VIABLE | MARGINAL | NOT VIAB | NOT VIAB | NOT VIAB |
| 10 | Small urban BF | 200 | 188 | 132 | 74 | 14 | -48 |
| | | 240 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 11 | Urban edge GF | 50 | 408 | 337 | 266 | 195 | 124 |
| | | 130 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |
| 12 | Small urban BF | 118 | 220 | 146 | 66 | -15 | -98 |
| | | 158 | VIABLE | MARGINAL | NOT VIAB | NOT VIAB | NOT VIAB |
| 13 | Town centre BF | 150 | -508 | -633 | -760 | -885 | -1,021 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 326 | 249 | 172 | 95 | 16 |
| | | 190 | VIABLE | VIABLE | MARGINAL | NOT VIAB | NOT VIAB |
| 15 | Small urban BF | 150 | 120 | 52 | -16 | -86 | -156 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 16 | Village BF | 150 | 474 | 353 | 232 | 110 | -14 |
| | | 190 | VIABLE | VIABLE | VIABLE | NOT VIAB | NOT VIAB |
| A | Rural 1 | 150 | 512 | 420 | 316 | 213 | 107 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE | NOT VIAB |
| B | Rural 2 | 100 | 506 | 426 | 335 | 243 | 151 |
| | | 140 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |
| C | Rural 3 | 50 | 488 | 398 | 309 | 219 | 129 |
| | | 130 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |

Source: Affordable Housing Viability Study 2010 Figure 6.3 in this report

- S22 The results can be summarised as follows:
- i) At 100% market housing, 13 sites were fully viable and five unviable (with a further one being marginal). At 10% affordable housing 11 of these 13 were still viable, the two others becoming marginal.
 - ii) At 20% seven were viable, with three marginal. At 30% six were viable with one marginal. By 40% only one site was still viable, although four remained marginal.
- S23 Sensitivity testing suggests that at conditions much closer to the peak viability level of autumn 2007, with prices almost 20% higher than those assumed in our study and costs 5% or more lower, all but one of the 19 schemes would have been comfortably viable at the 20% target level, and all but three at 30%. Even at 40% two thirds of the sites are viable.
- S24 Conversely, sensitivity testing also suggests that should prices fall by 10% relative to costs, then only six schemes would be viable at the 10% level, with one marginal.

Recommended target

- S25 The appraisal results suggest that at current prices and costs, and on the base assumptions used, the highest target that could be applied generally across the area would be 15%.
- S26 A higher figure of 30% could reasonably be applied as a sub-target in the rural parts of the area. However, a corresponding sub-target would then be required for the urban parts. The appraisal results suggested that a 15% target could be applied to the Burton urban extension (or one of similar scale at Uttoxeter), and a figure of 10% to urban brownfield sites.

Size thresholds

- S27 The national minimum threshold for site sizes to which affordable targets apply is 15 dwellings (PPS3). But provision is made for lower thresholds where appropriate. In East Staffs the scope for a reduction is mainly in the rural area, and whilst we looked at six sites altogether below the national minimum, two of these were in Burton and only four were rural. These four ranged from eight down to four dwellings.
- S28 The four small rural sites were just as viable up to 20% as the larger rural sites, although they did slightly less well at 30% plus.
- S29 We concluded from the analysis that there is indeed scope for reducing thresholds. We recommended that if there were a general rural target of 30%, a slightly lower figure of 25% could be applied, without undermining viability, on sites of four dwellings and above.

Dynamic Viability analysis

- S30 This is designed to overcome a dilemma created by the economic downturn. During the history of affordable housing targets since their creation in 1991 there had been a broadly rising market. This meant that targets could rise also, and reach their pre-downturn level of commonly 40% plus.
- S31 The housing market downturn and more general recession from early 2008 meant that targets had to be lowered. It was always a condition of such targets that they should not remove viability from the market housing developments of which they were a part.
- S32 There has been no practical suggestion for the way in which affordable housing targets should be treated given their fall in the recession. Many alternative scenarios can be generated, but that does not point to a single target. PPS3 is quite clear that there should be a Plan-wide target. Targets cannot be substantially changed through supplementary guidance after the Core Strategy Examination. If a high ('normal market') target were set it would be correctly attacked as undeliverable, and thus contradict the Blyth Valley Court of Appeal decision which requires that targets should be deliverable.
- S33 Fordham Research has therefore devised a system which permits deliverable targets to be set, regardless of future fluctuations in the market, using sets of price and cost indices. It means that the Core Strategy Examination can be presented with the full range of possible target outcomes, and once approved (in whatever form) no new policy change is required to alter the target. It is changed only by the movement of published indexes. The intervals at which it is changed must be infrequent enough to permit an orderly land market, thus perhaps annually.
- S34 In order to generate the set of potential target outcomes, it is necessary to agree a Benchmark Site. This is necessary to permit a reasonably simple procedure. In the case of East Staffordshire that site is six: Urban edge brownfield site. It is judged to be typical of the Borough, and expected to remain so for the Plan period.
- S35 The mechanism for producing the target ranges is quite complex. It builds on the viability analysis set out in the summary above. It then examines the full range of possible cost and price changes and generates a matrix of possible affordable targets.
- S36 This means that periodically the changes in the indices can be ascertained and checked against the matrix to determine a revised target. Such a target would then reflect current deliverability, but also be determined on the basis only of objective fact (i.e. published indices) and a previously agreed set of possible target figures.
- S37 An example showing the full detail of this approach is set out in Chapter 8.

Commuted sums

- S38 We provided guidance on the levels of payment that could reasonably be sought as commuted payments for off site provision. Different figures were provided for the areas covered by the three affordable sub-targets. The figures were expressed on both a per dwelling basis and as £ payment per sq ft/sq m.

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List of abbreviations

| | |
|------|-----------------|
| £ k | thousand pounds |
| £ m | million pounds |
| dw | dwelling |
| dwgs | dwellings |
| ft | foot |
| ha | hectare |
| m | metre |
| sq | square |
| Q1 | Quarter 1 |
| LA | Local Authority |

1. Introduction

Introduction

- 1.1 Fordham Research was commissioned by East Staffordshire Borough Council to produce guidance on the financial viability implications of alternative targets and size thresholds for affordable housing provision within the Borough.

Context

- 1.2 The context for this study consists of the Guidance which government has provided for doing such work and the broad principles of viability analysis which has of course existed in some form ever since settled civilisation meant that land was bought and sold.

Guidance

- 1.3 National guidance (Planning Policy Statement 3 (PPS3): Housing 2006) requires Councils to set a target for the proportion of affordable housing to be delivered through new developments. The recently completed SHMA was intended to provide guidance on the levels of affordable housing target that would be justified by the analysis of the area's housing requirements.
- 1.4 This SHMA advice was, essentially, based on an assessment of the balance between the need for market housing and the need for affordable housing. In doing so it did not take into account the commercial factor – i.e. what is viable and what it is realistic to ask developers to provide in this area at this time. Whilst a target of, say, 40% may be the appropriate figure to balance the overall housing market over time it may not be the appropriate target now.
- 1.5 The purpose of the present study is to address that issue, enabling the Council to set a robust target in the light of current commercial circumstances in East Staffordshire. That latter target is just that – a target. The amount of affordable housing that can be achieved on any particular site may be less, reflecting the peculiar factors of developing that site at that point of the economic cycle. Where a landowner or developer wishes to argue that this is the case, they would be expected to provide a site specific assessment.
- 1.6 The Guidance position has been supplemented by the Homes and Communities Agency (HCA) in a recent Good Practice Note: *Investment and Planning Obligations: responding to the downturn* (July 2009). The range of guidance is reviewed below.

- 1.7 This study is designed to set the current target in an informed way. Given the pattern of housing market conditions since late 2007, and more particularly a general expectation that house prices may continue to fall for some time to come, it may be necessary for any proposed target to be reviewed regularly so as to reflect the resulting changes in the profitability of development.

The land market

- 1.8 The availability and cost of land are matters at the core of the viability for any development of new houses. The format of the typical valuation has been standard for centuries and looks like this:

$$\begin{array}{c} \textbf{Gross Development Value} \\ \text{(The combined value of the complete development)} \\ \\ \text{LESS} \\ \\ \textbf{Cost of creating the asset, including a profit margin} \\ \text{(Construction + fees + finance charges)} \\ \\ = \\ \\ \textbf{RESIDUAL VALUE} \end{array}$$

- 1.9 The result of the calculation indicates a land value, which acts as the top limit of what a bidder could offer for that site. In this study we use the procedure in reverse:

Given the likely land values, will a development including X% target for affordable housing be viable?

- 1.10 The calculation involves the same basic information but is designed for a different purpose. The 'likely land value' is a difficult topic since clearly a landowner will never be entirely frank about the price that would be acceptable: always seeking a higher one. This is one of the areas where an informed assumption has to be made about the 'cushion': the margin above the 'existing use value' which would make the landowner sell. Landowners and land buyers are surrounded by agents who argue in their clients' interest, so the process of selling and buying development land is not usually simple or quick.
- 1.11 This study does not attempt to assess the specific price that could or should be paid for each site (please see Figure 1.1 below). The appraisal works out what land on a site may be worth if a range of scenarios were to occur, and then compares that amount with its value in some other use to which it could be put. The study does not attempt to predict when a particular landowner may sell a given site, or even if they will sell, since that is a very site specific matter.

Reasons for this study

- 1.12 Government Guidance (PPS3: Housing (2006)) contains a paragraph which says that affordable targets should:

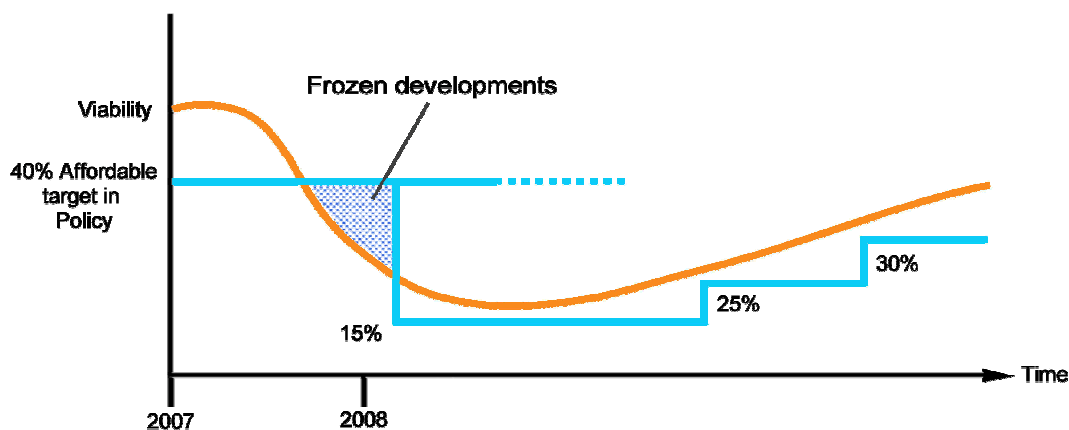
*'reflect an assessment of the **likely** economic viability of land for housing within the area, taking account of the risks to delivery and drawing on informed assessments of the likely levels of finance available for affordable housing, including public subsidy and the level of developer contribution that can reasonably be secured.'* (S29)
(Fordham Research's emphasis)

- 1.13 Until the Court of Appeal decision of August 2008 over the Blyth Valley Core Strategy Inspector's Report, nobody really understood that this statement in PPS3 conferred a new duty on local authorities. In summary:

'There is now a duty on every local authority to ensure that any affordable housing target is broadly deliverable within the area.'

- 1.14 The word 'likely' in the above quotation from PPS3 is taken to mean that the duty is a 'broad brush' one: the typical site in the local authority should be able to bear whatever target is set. Some sites within the area will not be able to do so, but of course they still have the original scope to make specific submissions at the planning applications stage.
- 1.15 The date at which this new duty was legally defined to exist coincided with the economic downturn. This had the effect of reducing the profitability of new housing developments, and hence their viability. This situation is shown schematically in the figure below:

Figure 1.1 The effect of the economic downturn on viability



Source Fordham Research 2010

- 1.16 The diagram shows that where once a 40% target was easily viable, at the time shown in the diagram only a 15% target is viable. Projected future improvements in viability mean that at various times in the future 25% and 30% targets may be viable.
- 1.17 The situation depicted in Figure 1.1 has caused difficulty in setting targets. The Homes and Communities Agency (HCA) issued Good Practice Guidance on affordable target setting in July 2009. This sets out (in para 19) two alternative bases for target setting:
- i) Set the target to the minimum (probably current) level of viability: 15% in the example. This would evidently under-provide affordable housing when taken over a Plan period.
 - ii) Set the target for a 'normal' market and treat it as flexible.
- 1.18 The second approach is based on an unpublished note from the Planning Inspectorate and the Good Practice note advises its use. But the result will not be robust:
- i) The concept of the 'normal' market is unsound. Prices have always varied, and it is not possible to state which of them is 'normal'. Prices rose unevenly for the whole period 1991 to 2007 but no part of the curve can be labelled 'normal'.
 - ii) In the present recession there is no agreement as to how long it will last, and what the curve of viability over time (as illustrated in Figure 1.1) will look like. It could be 'V' shaped, 'U' shaped or 'bath' shaped. Nobody knows. It is quite possible that things will get worse before they get better, and that there will be reverses along the way. In short, any 'normal market' target is likely to be undeliverable for much of its life. Some attempts to set one have based themselves on the 2007 peak. This is unlikely ever to repeat, as the cost and price environment will be quite different in future. There is no safe basis for guessing a 'deliverable' target for a 'normal' market.
- 1.19 The 'normal market' target would therefore be vulnerable to S78 appeal, probably for much of its life, and applicants who went to appeal saying that it was 'undeliverable' would be likely to succeed. Such targets are therefore not robust, or sensible to set.
- 1.20 The Dynamic Viability model was constructed by Fordham Research to provide a third option: affordable targets that are both deliverable, and provide a reasonable maximum of affordable housing.

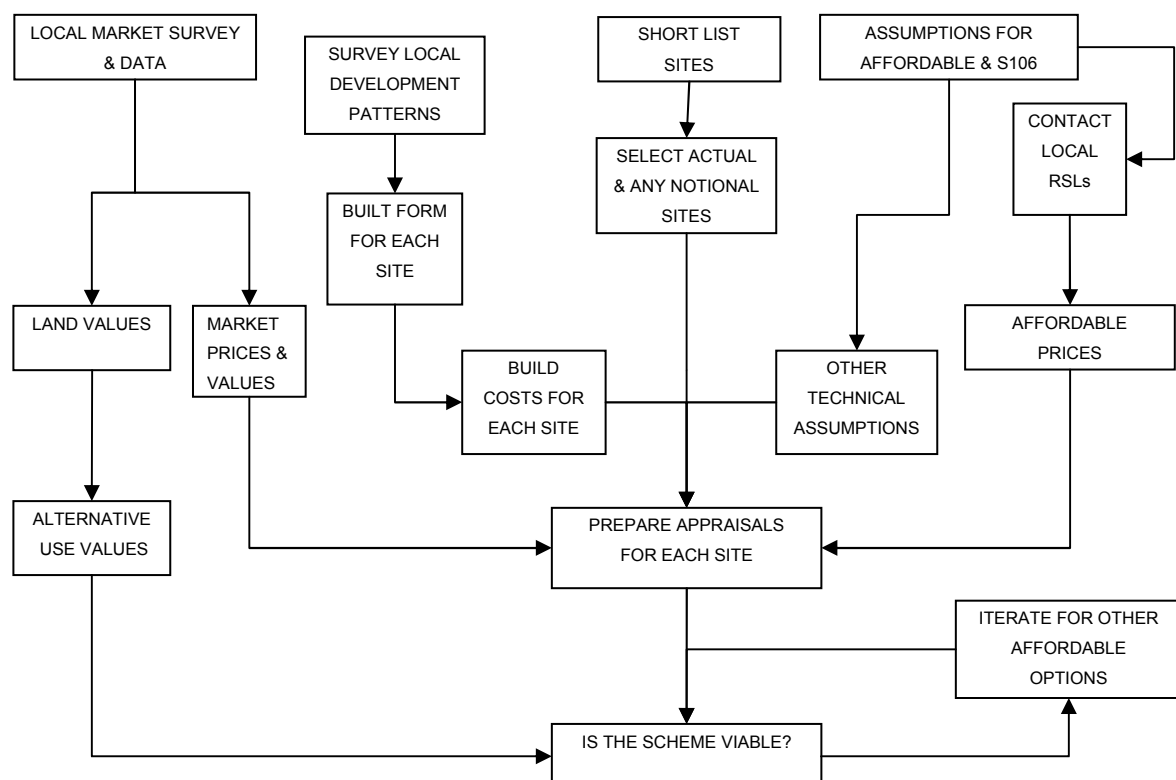
What this means for the study

This means that the study is in two stages: the first being the standard viability analysis (in Chapters 2 to 7) and then the second stage containing the Dynamic Viability analysis in Chapter 8.

Stage 1 viability methodology

- 1.21 The Stage 1 viability methodology is summarised in Figure 1.2 below. Fundamentally, it involves preparing financial appraisals for a representative range of sites across the study area. In this case a selection of sites was chosen from a shortlist.
- 1.22 The appraisals tested alternative levels of affordable housing provision: in each case a combination of social rented and intermediate housing. We considered the likely purchase prices RSLs would pay for units in each category. Assumptions were also required for the developer contributions that would be sought under other headings like education and open space.
- 1.23 We surveyed the local housing market, in order to obtain a picture of sales values for the market housing. We also surveyed land values for residential development, to calibrate the appraisals and for other uses, to assess alternative use values. Alongside this we considered local development patterns, in order to arrive at appropriate built form assumptions for those sites where information from a current planning permission or application was not available. These in turn informed the appropriate build cost figures.

Figure 1.2 Stage 1 viability methodology



Source: Fordham Research 2010

- 1.24 A number of other technical assumptions were required before appraisals could be produced. The appraisal results were in the form of pounds per acre/ha 'residual' land values, showing the maximum value a developer could pay for the site and still return a target profit level.
- 1.25 Finally, the residual value was compared to the benchmark alternative use value for each site. Only if the residual value exceeded the benchmark figure, and by what is explained in due course to be a satisfactory margin, could the scheme be judged to be viable.

Stage 2: Dynamic Viability analysis

- 1.26 Fordham Research has developed a model which enables the Council to establish through the Core Strategy Examination a matrix of possible future affordable targets. These would be automatically changed in accordance with published indexes of the performance of the housing market. In this way the target would always remain deliverable, but at the same time would ensure that windfall gains in land value are translated into increased affordable housing. This is in accordance with Government Guidance. It would also ensure that the landowners' and house builders' margins are not harmed.
- 1.27 The Dynamic Viability approach is set out in Chapter 8 below.

Fordham Research

- 1.28 Fordham Research has been providing advice to Councils in respect of planning gain and development viability since the late 1980s. The firm's approach throughout this time has involved the preparation of financial appraisals. Over the last few years in particular Councils have increasingly commissioned the firm to evaluate financial appraisals which have been prepared by developers in order to support a case for a reduced affordable housing contribution, for enabling development and so on.
- 1.29 Since 1993 Fordham Research has become a leading consultancy in carrying out Housing Needs Surveys and more recently the more wide ranging Strategic Housing Market Assessments that have largely replaced them, and advising Councils on affordable housing policy issues.
- 1.30 Since that time the firm has assisted Councils on very many occasions by providing expert witness services at Local Plan and S78 Inquiries, successfully supporting housing need and affordable housing policies. Particularly in recent years this has regularly included evidence in respect of viability issues.

Structure of this report

1.31 The remainder of the report covers the following topics:

Chapter 2 - The individual development sites

Chapter 3 - Affordable housing and developer contributions assumptions

Chapter 4 - Local market conditions

Chapter 5 - Assumptions for viability analysis

Chapter 6 - Results of viability analysis

Chapter 7 - Implications of the Stage 1 results

Chapter 8 - Dynamic viability results

Chapter 9 - Commuted sum payments

2. Individual development sites

Introduction

- 2.1 This chapter deals with the sites identified for study first outlining the key characteristics of each site and then considering the assumptions made about proposed development upon each site for the purpose of producing a financial appraisal. The individual sites chosen were visited at an early stage in the work.

The Borough in context

- 2.2 East Staffordshire Borough covers an area of 38,880 hectares and possesses significant historic heritage, together with an extremely attractive natural environment. A mix of urban and rural areas create a diverse place to live and work with the two major settlements Burton upon Trent and Uttoxeter providing two town centres for the Borough. East Staffordshire is situated within the eastern boundary of the West Midlands where it borders the East Midlands and enjoys close links with South Derbyshire District.
- 2.3 The 2001 Census indicated that 103,770 people were living in East Staffordshire and in 2008 the Office for National Statistics estimated that the population was 109,100 indicating a 5.1% rise. Over half the population is concentrated in the two major settlements of Burton upon Trent and Uttoxeter with the remainder residing in the rural areas. The largest settlements within the rural areas are Barton under Needwood, Tutbury and Rolleston on Dove.
- 2.4 Historically East Staffordshire has thrived upon its brewing and manufacturing industries. However the last ten years has seen an increase in office, warehousing and logistic uses with a significant amount being concentrated within Burton upon Trent. Rapid development and occupation of employment land particularly within the Centrum 100 Business Park and Centrum West has resulted in a reduction of available employment land. Measures to address this by way of stimulating regeneration and economic growth are underway in order to maintain East Staffordshire's prosperous economy.
- 2.5 There are 42,700 households within East Staffordshire with over half being located within Burton upon Trent, almost a third are located within surrounding villages and rural areas and the remainder are located within Uttoxeter. The approximate current housing stock within East Staffordshire comprises of two thirds detached and semi-detached and a quarter terraced housing. Apartments make up 10% of the housing stock, the majority of which are located within Burton upon Trent.

- 2.6 East Staffordshire has been designated by the Government as a 'Growth Point' area. Essentially this is an opportunity for East Staffordshire to create sustainable communities. Funding secured from the growth point initiative will ensure the necessary infrastructure is in place to support high quality and levels of housing and employment. Housing requirements as set out in the West Midlands Regional Spatial Strategy Preferred Option were to provide 12,900 new houses during the period 2006 to 2026. Following the West Midlands Regional Spatial Strategy Phase Two Revision Examination in Public (EiP) during April and June 2009, the Panel Report recommended that 13,000 new homes should be provided. However, following the abolition of Regional Spatial Strategies it is for each local planning authority to decide how many new homes should be accommodated.
- 2.7 The designation of growth point status will not only provide the Borough with high quality housing and employment development, but is also an opportunity to regenerate existing housing and employment stock.

Identifying a range of sites

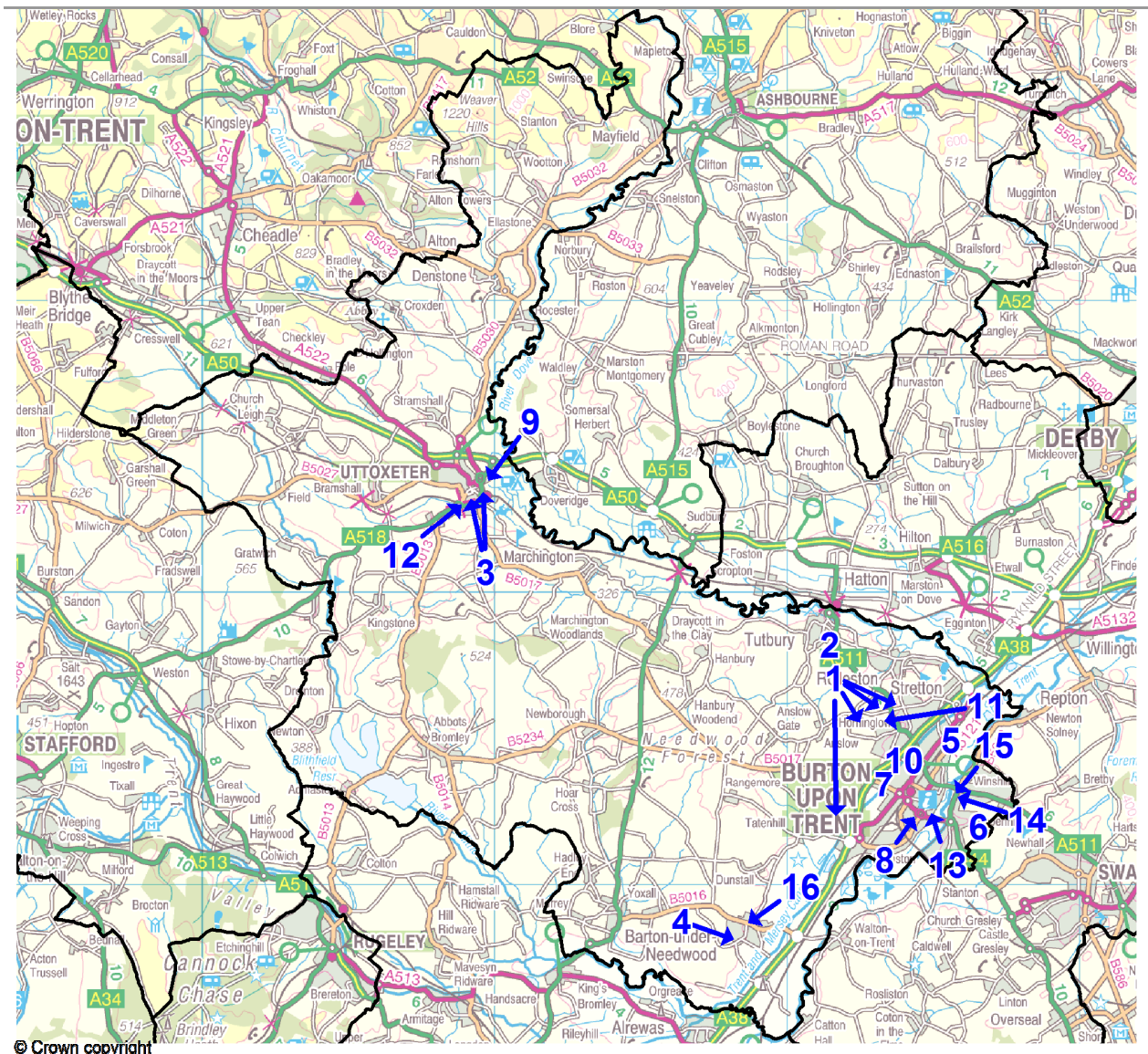
- 2.8 It was decided that, for East Staffordshire, the required guidance on viability would best be achieved by looking at a range of site sizes and principally at sites that were actual, rather than notional. In discussion with the Council it was decided that a total of 19 representative sites should be examined, and this number would provide adequate scope for exploring viability on sites below the current national guidance size threshold of 15 dwellings.
- 2.9 A final list of sites was established in discussion. The main list of 16, based on actual sites, was chosen to reflect a range of typical development situations: an appropriate balance between previous uses, a range of site sizes, and to cover the main settlements. A supplementary list contained three notional sites representing small village schemes designed to test a rural threshold policy.
- 2.10 The main sites ranged in size from seven to 2,000 dwellings. All but four of the sites were on previously developed land. Whilst the sites were at various stages in the planning process, the majority were as yet only proposals or potential sites. Four were subject to a planning application: all of these had been approved. Information available from the various planning applications was taken into account in considering the appropriate development forms to use in our appraisals.

The main sites

- 2.11 With one exception, all of the sites identified by the Council are 'actual' sites. The exception is site 1, which is a notional site compositing the three alternative proposals for a major urban extension at Burton on Trent. The three are quite different in scale and the notional composite site has been given a nominal size of 2,000 dwellings for simplicity.

2.12 The main sites are shown in the map below:

Figure 2.1 Site locations



Source: Affordable Housing Viability Study 2010

2.13 Summary details of the main sites are set out in the table below.

2.14 The main sites total 3,553 dwellings on a net area of just over 84 ha, at an average density of 42.3 dwellings per ha net. Whilst there is some emphasis on larger to medium sized sites, three are below the national guidance threshold of 15 dwellings.

| Table 2.1 Site details; main sites | | | | | | |
|------------------------------------|--------------------------|---------|-------|-------|-------|-------------------------|
| Site No | Name | Area ha | | No | Net | Planning status |
| | | Gross | Net | Dwgs | Dw ha | |
| 1 | Burton Urban Extension | 75.00 | 50.00 | 2,000 | 40.0 | Urban Extension – SHLAA |
| 2 | Village large greenfield | 15.24 | 12.00 | 533 | 35.0 | Urban Extension – SHLAA |
| 3 | Large urban brownfield | 4.46 | 4.46 | 255 | 57.2 | Application received |
| 4 | Village large greenfield | 5.14 | 4.04 | 180 | 44.6 | SHLAA |
| 5 | Large urban brownfield | 3.20 | 2.59 | 128 | 49.4 | SHLAA |
| 6 | Urban edge brownfield | 3.42 | 2.80 | 106 | 37.9 | SHLAA |
| 7 | Large urban brownfield | 2.35 | 2.35 | 116 | 49.4 | Outline Consent |
| 8 | Inner urban brownfield | 1.12 | 1.12 | 59 | 52.7 | SHLAA |
| 9 | Small urban brownfield | 1.36 | 1.24 | 70 | 51.5 | SHLAA |
| 10 | Small urban brownfield | 1.10 | 1.10 | 30 | 27.3 | Outline Consent |
| 11 | Urban edge greenfield | 0.80 | 0.80 | 20 | 25.0 | Approved |
| 12 | Small urban brownfield | 0.50 | 0.50 | 20 | 40.0 | SHLAA |
| 13 | Town centre brownfield | 0.50 | 0.50 | 44 | 88.0 | SHLAA |
| 14 | Small urban brownfield | 0.26 | 0.26 | 10 | 38.5 | SHLAA |
| 15 | Small urban brownfield | 0.20 | 0.20 | 8 | 40.0 | SHLAA |
| 16 | Village brownfield | 0.12 | 0.12 | 7 | 58.3 | SHLAA |
| Total | | 114.77 | 84.08 | 3,586 | 40.0 | |

Source: Affordable Housing Viability Study 2010

2.15 All of the sites are assumed to be 100% residential use.

Supplementary sites

2.16 Three supplementary notional sites were worked up to provide an indicative range representing typical development patterns in the rural area. They comprised eight, six and four dwellings respectively. The details are set out in the table below.

| Table 2.2 Site details: supplementary sites | | | | | | |
|---|---------|---------|------|-------|-----|-----------------|
| Site No | Name | Area ha | | No | Net | Planning status |
| | | Net | Dwgs | Dw ha | | |
| A | Rural 1 | 0.23 | 8 | 34.8 | | Notional site |
| B | Rural 2 | 0.20 | 6 | 30.0 | | Notional site |
| C | Rural 3 | 0.17 | 4 | 23.5 | | Notional site |
| Total | | 0.60 | 18 | 30.0 | | |

Source: Affordable Housing Viability Study 2010

Development assumptions

- 2.17 In arriving at appropriate assumptions for residential development on each site, the development form in an approved planning application must always be an important consideration. The application could, conceivably, now be so historic that it represents something that would either not now be proposed or not be permitted. After consideration we took the view that in each case the built form in the current application remains the best basis for carrying out appraisals.
- 2.18 Most Council areas in which we have carried out studies like the present one display a range of development situations and corresponding variety of densities. We have developed a typology which responds to that variety, which is used to inform development assumptions for sites (actual, or potential allocations) where no guidance is available from a submitted or permitted application. That typology enables us to form a view about floorspace density – the amount of development, measured in net floorspace per developable acre/hectare, to be accommodated upon the site, and which will vary with the intensity of the built form. This is a key variable because the volume of floorspace which can be accommodated on a site has a crucial key impact on its profitability, and is an amount which developers will normally seek to maximise (within the constraints set by the market).
- 2.19 The typology uses as a base or benchmark a typical post-PPG3/PPS3 built form which would provide development at around 15,500 sq ft per acre (3,550 sq m per ha) on a substantial site, or sensibly shaped smaller site. A representative density might be 35-45 dwellings per ha. This has been a common development format for significant sized brownfield sites and some greenfield sites in most urban centres, and increasingly also smaller towns. It provides for a majority of houses (with perhaps 15-20% flats) in a mixture of two storey and two and a half to three storey form, with some rectangular emphasis to the layout.
- 2.20 Alongside this, in larger urban areas there would of course be some schemes of appreciably higher density development providing largely or wholly apartments, in blocks of three storeys or higher, with development densities of 30,000 sq ft per acre (6,900 sq m per ha) and dwelling densities 100 dw/ha, upwards; and schemes of lower density, in sensitive rural or rural edge situations. However, the 'base' category as a common urban form referred to above, i.e. 15,500 sq ft per acre (3,550 sq m per ha), might often provide appropriate development assumptions for half or more of the sites in the study, with variations from the base informing the remainder.
- 2.21 In East Staffordshire's case the market for high density apartment blocks – and currently, flats of any kind - appears to be quite limited. Much of the recent development appears to have been at or if anything a little below the above benchmark development density.
- 2.22 The standard built form typology is therefore of relevance in East Staffordshire. It is set out in the table below. We would stress that the short titles used to describe the categories have been adopted for convenience only and must not be taken to imply anything specific about where, or when, they might apply.

| Table 2.3 Typology of development form | | | |
|--|---|---------------------------|---|
| Category title | Density measured as: | | Built form characteristics |
| | Ave floorspace net sq ft/acre (sq m/ha) | Dwellings (typical dw/ha) | |
| Lower density | 12,500 (2,875) | 20-33 | Edge of settlement, less pressured location. Mostly 2 storey, largely 3 & 4 bed detached houses with garages. |
| Base | 15,500 (3,550) | 35-45 | Mixture of 2 & 2.5/3 storey houses, many terraced; some (15-25%) flats, limited garaging. |
| Urban | 19,500 (4,480) | 50 | 30-35% flats, and/or fewer 2 storey units than base |
| High | 30,000 (6,900) | 100+ | Flats in small blocks on 3 storeys, parking spaces |
| Very high | 50,000 (11,500) | 150+ | Flats in larger blocks on 4-6 storeys, parking limited or underground |

Source: Fordham Research 2010

- 2.23 The above typology relates quite well to the details from those sites where information was available from a recent planning application (for example site 7). It was used to develop model development assumptions for the remaining sites where actual information on planning proposals was not available.
- 2.24 The resulting assumptions for residential development for each of the 16 main and three supplementary sites are set out in the table below. The sites where actual data was available conform fairly well with the sites using model data informed by the typology.
- 2.25 Among the sites there is a reasonable spread across the density range, with seven sites firmly in the Base category. This is felt to be representative of development opportunities in the area.

| Table 2.4 Site development assumptions | | | | | |
|--|--------------------------|------------|----------------------------------|---------|-------------------------|
| No | Site | Category | Net floorspace density (rounded) | | Ave dwg net sq ft(m) |
| | | | Sq ft/acre | Sq m/ha | |
| 1 | Burton Urban Extension | Base | 15,500 | 3,560 | 958 (89) |
| 2 | Village large greenfield | Base | 14,750 | 3,390 | 875 (81) |
| 3 | Large urban brownfield | Urban | 19,700 | 4,530 | 852 (79) |
| 4 | Village large greenfield | Base | 15,500 | 3,560 | 860 (80) |
| 5 | Large urban brownfield | Base/Urban | 17,500 | 4,020 | 875 (81) |
| 6 | Urban edge brownfield | Base | 16,250 | 3,730 | 1,061 (99) |
| 7 | Large urban brownfield | Base | 16,500 | 3,790 | 825 (77) |
| 8 | Inner urban brownfield | Base | 16,100 | 3,690 | 753 (70) |
| 9 | Small urban brownfield | Base | 16,300 | 3,740 | 715 (66) |
| 10 | Small urban brownfield | Low | 12,400 | 2,850 | 1,124 (104) |
| 11 | Urban edge greenfield | Low/Base | 13,500 | 3,110 | 1,339 (124) |
| 12 | Small urban brownfield | Base/Urban | 17,500 | 4,020 | 1,081 (100) |
| 13 | Town centre brownfield | High | 25,900 | 5,940 | 726 (67) |
| 14 | Small urban brownfield | Low/Base | 14,200 | 3,270 | 914 (85) |
| 15 | Small urban brownfield | Low | 12,400 | 2,840 | 765 (71) |
| 16 | Village brownfield | Urban | 18,500 | 4,260 | 785 (73) |
| A | Rural 1 | Base | 15,250 | 3,560 | 1,083 (101) |
| B | Rural 2 | Low | 12,500 | 3,090 | 1,030 (96) |
| C | Rural 3 | Low | 12,250 | 4,530 | 1,286 (120) |

Source: Affordable Housing Viability Study 2010

3. Affordable housing and other developer contributions

Introduction

- 3.1 This chapter considers the assumptions used to test a range of affordable housing scenarios for the individual sites and similarly the developer contributions assumed for each site.

Affordable housing assumptions

- 3.2 We undertook appraisals for a number of development scenarios involving varying proportions of affordable housing and tenure split. The assumptions in respect of proportions, and the financial terms on which they are to be provided, are considered below.

(i) Affordable proportion

- 3.3 Following discussions with the Council we agreed to test the following options:

- **NO** affordable housing
- 10% affordable
- 20% affordable
- 30% affordable
- 40% affordable

- 3.4 The Council's current policy provides for an average target proportion of 30%. During the consultations of this report with the development industry the need for affordable housing in East Staffordshire was questioned. The assessment of the need for affordable housing is not a matter for this report as it is covered elsewhere in the Core Strategy evidence base.

- 3.5 New targets may be proposed in emerging Local Development Framework (LDF) Documents. Any such targets would, of course, be informed by the recent Strategic Housing Market Assessment (SHMA) as well as by the present study.

(ii) Tenure split

- 3.6 The Council currently seeks a mixture of social rented and intermediate housing, though with a large majority provided as social rented. A recent SHMA document in fact suggested a ratio of 78%: 22% overall. We were asked to test a 70/30 option. In practice experience shows that variations of 10% either way would have quite a limited impact on viability.

- 3.7 In principle, intermediate tenure could constitute a wide range of different housing propositions. After discussion with the Council it was decided that intermediate housing should be assumed to be equivalent to 50% shared ownership with rent at no more than 3% of the unsold equity. It might in practice be provided in various forms, but it was assumed that the outgoings and RSL purchase price would be broadly similar.

(iii) Size profile

- 3.8 After consideration we assumed that the mix of affordable housing on each site should broadly follow the market housing, achieving an average dwelling size (i.e. net sq ft/sq m) in line with that of the market housing. As well as providing the maximum integration between market and affordable provision, this assumption is also a convenient one which ensures that as the affordable housing proportion varies between the options being tested the floorspace density remains constant. That is a desirable aim if the appraisals are to constitute a realistic development scenario, consistently, across the range of affordable options tested.

(iv) Financial terms

- 3.9 To be consistent with national guidance this study must take into account the likely availability of public subsidy i.e. Social Housing Grant. The future availability of grant – both the total quantum of grant, and the amounts forthcoming for different sizes of dwelling and tenure – is typically subject to some uncertainty as increasingly the available funding has been directed to achieving specific regional or strategic priorities.
- 3.10 An assumption based on a ‘default position’ of zero Social Housing Grant has become a common starting point in this situation. The zero grant assumption also has the incidental advantage of allowing the requirement for grant in individual cases to be calculated more simply than if a set level were already allowed for.
- 3.11 After consideration it was decided that appraisals should be produced with an assumption that no Social Housing Grant would routinely be available to support affordable housing produced on conventional developer led schemes.
- 3.12 It was necessary to determine the financial terms on which RSLs should be able to purchase properties of various sizes from the developer under this scenario. We drew on recent experience from elsewhere to suggest indicative levels of purchase price. However with 50% shared ownership the purchase price would clearly need to reflect in part market values in the locality. As seen in the next chapter (para 4.21) there were significant variations in market prices between different sites, and consequently three different levels of purchase price were used, depending on the individual site. The social rented figure was kept constant.

| Table 3.1 Selling prices: zero grant basis | | | | |
|--|--------------------|----------|---------------|---------------|
| Purchase price zero grant: | £ per sq ft (sq m) | | | |
| | Social rented | | Intermediate | |
| | Flat | House | Flat | House |
| Low price sites | 80 (860) | 75 (810) | 122.5 (1,320) | 117.5 (1,265) |
| Medium price sites | 80 (860) | 75 (810) | 130 (1,400) | 125 (1,345) |
| High price sites | 80 (860) | 75 (810) | 140 (1,505) | 135 (1,450) |

Source: Affordable Housing Viability Study 2010

Other developer contributions

- 3.13 Aside from affordable housing, developer contributions could potentially be sought by the Council under a number of headings. They might be either made in kind, or as financial payments. In either case it is necessary to allow for the additional financial cost of such contributions in preparing appraisals for each site. However, as with many Councils at this time, policy on developer contributions is evolving, and consideration is being given to a move to Community Infrastructure Levy (CIL). The advantage of this approach is a more comprehensive relationship to local infrastructure requirements without the necessity to link every contribution element to a demonstrable impact of the individual development proposal.
- 3.14 After discussion and consideration of contributions achieved on some recent sites (see Table A1.1 in Appendix 1), it was decided that for the purpose of preparing the base appraisals for the present study, developer contributions should be assumed to be at a rate of £3,000 per dwelling. As Appendix 1 shows, this was the maximum sum requested by the Council on a recent development. However, we also undertook to carry out sensitivity tests with CIL at a level of £15k per dwelling. (See Chapter 6
- 3.15 It must be emphasised that the base approach of £3,000 per dwelling is simply intended to treat the 16 main and three supplementary sites consistently and equitably, in order to allow financial appraisals to be produced which provide a strategic overview. The figures do not purport to represent necessarily what would be sought, offered or negotiated on specific sites.

4. Local market conditions

Introduction

- 4.1 This chapter sets out an assessment of the local housing market in the Borough of East Staffordshire, providing a basis for the assumptions on house prices and costs to be used in financial appraisals for the 19 sites tested in the study.
- 4.2 As well as house prices, however, land values are also considered. They are required in order to form a view of likely alternative use values for all of the sites, and it is such values which will represent a minimum viability threshold when appraisals are prepared for the range of affordable housing scenarios.
- 4.3 Before looking at the results from the market assessments, there are some general points arising from the nature of the exercise.

Issues to consider

- 4.4 It is necessary to assess property market conditions in the study area in order to provide a reasonable guide as to likely values to use in evaluating different development proposals.
- 4.5 Although development schemes do have similarities, every scheme is unique to some degree, even schemes on neighbouring sites. While market conditions in general will broadly reflect a combination of national economic circumstances and local supply and demand factors, even within a town there will be particular localities, and ultimately site specific factors, that generate different values and costs. There are indeed quite significant value variations in different parts of the study area.
- 4.6 Property market forces are in a constant state of flux and assessments of viability can change over relatively short periods of time in response to broader economic fluctuations, such as the impact of changes in interest rates on the costs of borrowing, the actual availability of funding and the outlook in the employment market. Equally significant, sub-area market conditions are often changed by local factors.
- 4.7 For example, high value areas encourage demand in lower value neighbouring areas where new developments encourage changes in value growth in what perhaps were previously less popular areas.

The residential market

4.8 The housing market in the Borough will, to some extent, reflect national trends but there are local factors that underpin the market including:

- An area with many attractive and characterful buildings and settlements which possess significant historic heritage
- A mix of urban and rural areas with the two major settlements - Burton upon Trent and Uttoxeter - providing a range of town centre facilities for the Borough's population
- Areas of former traditional manufacturing and extractive activities providing many opportunities for economic revitalisation and which has already seen strong growth in warehousing and logistic business uses
- Location with good access to the national motorway network and within easy reach by rail of the West Midlands conurbation for commuting
- Attractive rural environment close to the leisure opportunities of the Peak District
- The designation of East Staffordshire as a 'Growth Point' area and the Panel Report recommendation that 13,000 new homes should be provided between 2006-2026.

4.9 We analysed various sources of market information but the most relevant are the prices of units on new developments. A list setting out details of relevant new developments in the area, as at March 2010, is provided in Appendix 2.

4.10 Table 4.1 shows average prices in East Staffordshire for the latest quarter available from Land Registry data, Q4 2009. Although the Land Registry data covers both second-hand and newbuild prices, the former will predominate. The average prices in the table are compared to a corresponding England and Wales figure and expressed as indices.

| Table 4.1 Average house prices Q4 2009: comparison with England & Wales average | | | | | |
|---|-------------|--------------------------|-------------|----------------|-------------|
| Area | | Ave price (£k & % index) | | | |
| | | <i>Detached</i> | <i>Semi</i> | <i>Terrace</i> | <i>Flat</i> |
| Q4 09 | Price (£k) | £256.7 | £147.8 | £110.8 | £106.8 |
| | No of sales | 124 | 116 | 92 | 16 |
| | Index | 90.3% | 83.6% | 73.3% | 83.1% |

Index compares LA's ave £k price figure to the median LA value across England & Wales for house type.

Source: Land Registry data

4.11 Prices in the East Staffordshire area are between around 20% below the average (median Local Authority area), though somewhat more for terraced housing, and conversely less for detached houses.

- 4.12 As in the country generally, prices fell back between late 2007 and the middle of 2009. Because Land Registry data reports sales after completion there is some lag. Even so the figures show the decline fairly clearly, and the decline in sales numbers is quite evident (sales are seasonally low in the first quarter).

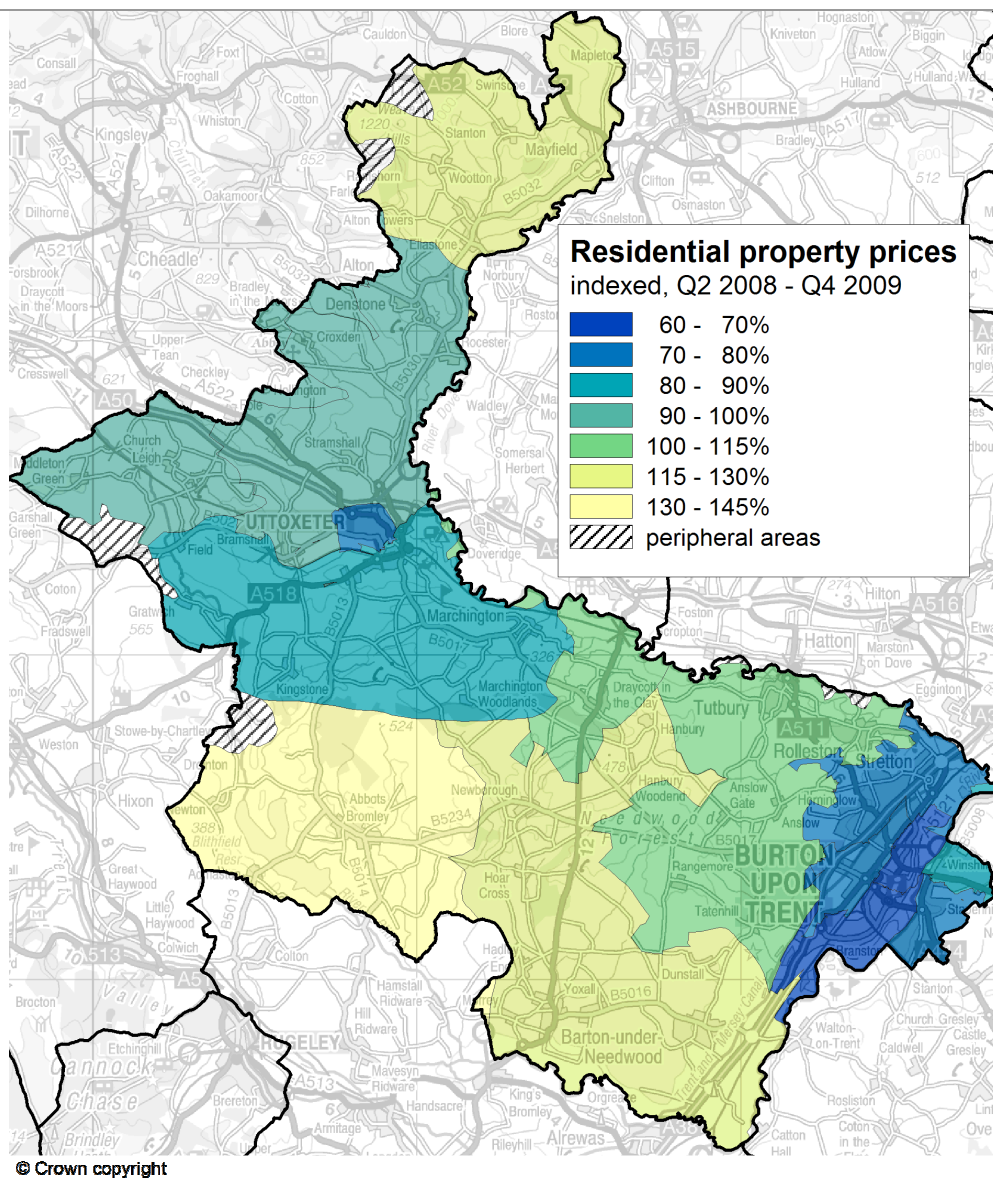
| Table 4.2 Average house prices in previous quarters | | | | | |
|---|-------------|--------------|--------|---------|--------|
| Quarter | | Ave price £k | | | |
| | | Detached | Semi | Terrace | Flat |
| Q4 07 | Average £k | £270.5 | £159.6 | £146.7 | £99.5 |
| | No of sales | 159 | 153 | 142 | 41 |
| Q1 08 | Average £k | £268.8 | £153.7 | £112.5 | £112.2 |
| | No of sales | 81 | 107 | 118 | 38 |
| Q2 08 | Average £k | £231.7 | £157.6 | £110.5 | £121.1 |
| | No of sales | 84 | 120 | 93 | 35 |
| Q3 08 | Average £k | £260.1 | £146.4 | £111.1 | £108.2 |
| | No of sales | 62 | 86 | 105 | 23 |
| Q4 08 | Average £k | £226.9 | £139.7 | £101.8 | £137.6 |
| | No of sales | 67 | 56 | 63 | 52 |
| Q1 09 | Average £k | £253.7 | £130.9 | £99.0 | £102.1 |
| | No of sales | 57 | 50 | 62 | 33 |
| Q2 09 | Average £k | £226.1 | £131.3 | £96.4 | £87.1 |
| | No of sales | 71 | 88 | 69 | 15 |
| Q3 09 | Average £k | £227.9 | £144.7 | £112.6 | £107.3 |
| | No of sales | 100 | 96 | 78 | 18 |

Source: Land Registry data

- 4.13 Within a Council area there can be considerable variations in price, and Land Registry house price data at postcode sector level helps to illuminate these variations. Because the number of sales in individual postcode areas in a single quarter can be quite small, we looked at information for four separate quarters (Qs 2 and 4 2009, Qs 2 and 4 2008). The data has been expressed as an index – as a percentage of the nationwide average price level – and standardised, so as to allow for variations in type mix.
- 4.14 Appendix 3 provides a worked example of the index calculation and sets out the resulting price index figures for the four quarters examined.

- 4.15 It can be seen from Appendix 3 that whilst the variations between individual quarters are mostly quite modest, and only in a couple of postcode areas the variations between the individual quarters' indices more substantial. Such price fluctuations may be due to the relatively small number of sales and indeed variations tend to be greater for rural areas, which are mostly numerically smaller and/or more diverse, than for urban areas where postcode sectors are larger numerically and can also often be more uniform.
- 4.16 The average figures for the four quarters are mapped in Figure 4.1 below. This shows that prices in most postcode sectors are between 70% and 120% of the national average level. The rural postcode sectors are significantly more expensive than the two towns.

Figure 4.1 Postcode price indices



Indices compare prices to value for median postcode sector in England & Wales

Source: Land Registry

Price assumptions for financial appraisals

- 4.17 It is necessary to form a view about the appropriate prices for the 16 individual schemes to be appraised in the study. The preceding analysis suggests that although prices in the two towns will mostly be quite close, prices in the other, rural parts of the Borough may be appreciably higher.
- 4.18 It is also clear that we should allow for differences between apartments, two storey houses and town houses, particularly in locations where flats are going to be attractive. Finally, in drawing on the newbuild price data we have to bear in mind that, particularly given recent market conditions, the prices at which homes are offered may include appreciable discounts such as deposit paid for first-time purchasers or stamp duty.
- 4.19 Taking these points into consideration we considered what sale prices should be for flats, for two storey and for town houses on each of the 16 sites. These were then to be combined on the basis of the proportions of each type on each scheme to produce a single composite average price.
- 4.20 We established across the study area a range of current newbuild schemes. Whilst the number of newbuild schemes currently active was limited, they were primarily located within the two main areas of the study. The specific details are set out within Appendix 2 of the report. These provided a useful basis to inform the market assessment and provide a guide for a number of sites.
- 4.21 The site figures resulting from our type-specific assumptions are set out in the table below.

| <i>Site/location</i> | <i>Price £ per</i> | | <i>Site/location</i> | <i>Price £ per</i> | |
|----------------------------|--------------------|-------------|---------------------------|--------------------|-------------|
| | <i>Sq ft</i> | <i>Sq m</i> | | <i>Sq ft</i> | <i>Sq m</i> |
| 1 Burton Urban Extension | 180 | 1,936 | 9 Small urban brownfield | 174 | 1,873 |
| 2 Village large greenfield | 184 | 1,985 | 10 Small urban brownfield | 170 | 1,830 |
| 3 Large urban brownfield | 170 | 1,827 | 11 Urban edge greenfield | 180 | 1,937 |
| 4 Village large greenfield | 194 | 2,083 | 12 Small urban brownfield | 166 | 1,786 |
| 5 Large urban brownfield | 167 | 1,795 | 13 Town centre brownfield | 175 | 1,883 |
| 6 Urban edge brownfield | 186 | 1,998 | 14 Small urban brownfield | 180 | 1,937 |
| 7 Large urban brownfield | 171 | 1,840 | 15 Small urban brownfield | 180 | 1,937 |
| 8 Inner urban brownfield | 173 | 1,858 | 16 Village brownfield | 200 | 2,152 |
| A Rural 1 | 203 | 2,184 | C Rural 3 | 210 | 2,260 |
| B Rural 2 | 210 | 2,260 | | | |

Source: Affordable Housing Viability Study 2010

- 4.22 The figures cover a range from the cheapest, £166 per sq ft (£1,786 per sq m) at site 12, to £210 per sq ft (£2,260 per sq m) on the two greenfield rural sites. They are applied to the net floor areas for each site.

4.23 It is necessary to consider whether the presence of affordable housing would have a discernible impact on sale prices. In fact affordable housing will be present on many of the sites whose selling prices have informed our analysis. Our view is that in any case any impact can and should be minimised through an appropriate quality design solution.

Land values

4.24 We have considered general figures from the Valuation Office Agency (VOA) relating to residential land values. Land values vary dramatically depending upon the development characteristics (size and nature of the site, density permitted etc.) and any affordable or other development contribution.

4.25 The VOA publishes figures for residential land in the Property Market Report. These cover areas which generate sufficient activity to discern a market pattern. That means locally we have figures for West Midlands as a whole and major locations within the region or in the adjoining East Midlands – but no information for other individual locations.

4.26 These values can, in any case, only provide broad guidance because it is likely that the figures will, to some degree, be net of allowances for developer contributions and/or affordable housing requirements. They can therefore be only indicative, and it is possible that values for ‘oven ready’ land (i.e. land ready for immediate building) with no affordable provision or other contribution, or servicing requirement, are appreciably higher.

| Table 4.4 Residential Land Values half year to July 2009 | | | |
|--|----------------------------------|------------------------|---------------------|
| Area | Land Value £m per acre (hectare) | | |
| | Small sites (< 5 dwgs) | Bulk sites (> 2 ha) | Land for apartments |
| Stoke | 0.565 (1.400) | 0.505 (1.250) | 0.485 (1.200) |
| Birmingham | 0.655 (1.620) | 0.620 (1.530) | 0.585 (1.440) |
| Lichfield | 0.710 (1.750) | 0.670 (1.650) | 0.650 (1.600) |
| Leicester | 0.585 (1.450) | 0.545 (1.350) | 0.545 (1.350) |
| Derby | 0.565 (1.400) | 0.525 (1.300) | 0.525 (1.300) |
| Loughborough | 0.585 (1.450) | 0.545 (1.350) | 0.545 (1.350) |

Source: VOA Property Market Report July 2009

- 4.27 Values for the surrounding major centre locations are typically in the range £550k-£650k per acre (£1.36m-£1.61m per ha). However with the decline in the market and general economic conditions these values may now be rather historic. We therefore sought information about values from residential land currently on sale in the Borough.
- 4.28 There are a small number of sites for residential development currently available in the immediate and adjacent areas. Three within the Borough area with sufficient detail pointed to a typical asking price of around £950k per acre (£2.35m per ha). These were indeed all small, 'oven ready' sites, with planning permission, and we would expect with no affordable or other significant developer contribution requirement. A more detailed schedule of residential land available is set out in Appendix 4.

Current and Alternative Use Values

- 4.29 In order to assess development viability it is necessary to analyse current and alternative use values. Current use values refer to the value of the land in its current use, for example, as agricultural land. Alternative use values refer to any potential use for the site. For example, a brownfield site may have an alternative use as industrial land.
- 4.30 To assess viability, the value of the land for the particular residential scheme adopted needs to be compared to the alternative use value to determine if there is another use which would derive more revenue for the landowner. If the assessed value does not exceed the alternative use value then the development is not viable.
- 4.31 For the purpose of the present study it is necessary to take a comparatively simplistic approach to determining the alternative use value. In practice a wide range of considerations could influence the precise value that should apply in each case, and at the end of extensive analysis the outcome might still be contentious.
- 4.32 Our 'model' approach is outlined below:
- i) For sites previously in agricultural use, then agricultural land represents the existing use value
 - ii) Where the development is on former industrial, warehousing or similar land, then the alternative use value is considered to be industrial, and an average value of industrial land for the area is adopted as the alternative use value
 - iii) Where the site is occupied by buildings capable of beneficial use we would estimate their broad value
 - iv) Existing use as garden land would have a value greater than agricultural but significantly less than industrial, unless it could feasibly be developed in an industrial or commercial use

4.33 The VOA's typical industrial land values for the region and nearby locations for the first half of 2009 are set out in the table below.

| Table 4.5 Industrial land values | | | |
|----------------------------------|-------------------------------|-----------------|---------------|
| Area | Land value per acre (hectare) | | |
| | Low | High | Typical |
| West Midlands | £95k (£230k) | £485k (£1,200k) | £205k (£504k) |
| Stoke/Stafford | £100k (£250k) | £200k (£500k) | £130k (£325k) |
| Birmingham | £180k (£450k) | £485k (£1,200k) | £325k (£800k) |
| Leicester | £135k (£330k) | £190k (£470k) | £160k (£400k) |
| Derby | £120k (£300k) | £160k (£400k) | £140k (£350k) |
| Tamworth | £100k (£250k) | £225k (£550k) | £160k (£400k) |

Source: VOA Property Market Report July 2009

4.34 Although across the West Midlands region as a whole there is quite a spread of values, the figures for the neighbouring individual locations are mostly around £150k per acre (£375k per ha).

4.35 These figures are felt to reflect the downturn in values from 2008 to a considerable degree. There is very little market evidence to suggest what current values might be. This was recognised by the members of the development industry who attended the stakeholder consultation event. There was talk that the minimum price for industrial land was over £300k/ha. We do acknowledge that there certainly are pieces of land at and around this price but very few. The commercial agents were asked to provide evidence of higher prices however have not done so. From the information we have available we believe that a figure of £150k per acre (£370k per ha) constitutes a reasonable benchmark.

4.36 Agricultural values rose for a time recently after a long historic period of stability. They are around £5-10k per acre (£15-25k per ha) depending upon the specific use. A benchmark of £10k per acre (£25k per ha) is assumed to apply here.

4.37 In East Staffordshire, these two benchmark values lead directly or indirectly to an alternative use value for the bulk, 14, of the sites. Sites 6, 15, and 16 are also treated as having industrial value (former farm buildings and two garage sites).

4.38 Taking the remaining two sites, Site 10 is occupied partly by a residential property, and partly by orchard land. We have assumed a value of £200k per acre. Rural site 2 is on residential garden land which is estimated to have a value of £100k per acre.

4.39 The base £10k per acre agricultural value at Sites 1, 2 and 4 is augmented on site 11 where the land is paddock which is given a figure of £50k per acre.

4.40 The value for each individual site that results from the foregoing analysis is summarised in the table below.

| Table 4.6 Alternative Use Value bases | | | | |
|---------------------------------------|--------------------------|----------------------|-------------|-----------|
| | Site | Basis | £k per acre | £k per ha |
| 1 | Burton Urban Extension | Agricultural land | 10 | 25 |
| 2 | Village large greenfield | Agricultural land | 10 | 25 |
| 3 | Large urban brownfield | Industrial/warehouse | 150 | 371 |
| 4 | Village large greenfield | Agricultural land | 10 | 25 |
| 5 | Large urban brownfield | Industrial/warehouse | 150 | 371 |
| 6 | Urban edge brownfield | Industrial/warehouse | 150 | 371 |
| 7 | Large urban brownfield | Industrial/warehouse | 150 | 371 |
| 8 | Inner urban brownfield | Mixed elements | 150 | 371 |
| 9 | Small urban brownfield | Industrial/warehouse | 150 | 371 |
| 10 | Small urban brownfield | Building + orchard | 200 | 495 |
| 11 | Urban edge greenfield | Pony paddock | 50 | 124 |
| 12 | Small urban brownfield | Industrial/warehouse | 150 | 371 |
| 13 | Town centre brownfield | Industrial/warehouse | 150 | 371 |
| 14 | Small urban brownfield | Industrial/warehouse | 150 | 371 |
| 15 | Small urban brownfield | Industrial/warehouse | 150 | 371 |
| 16 | Village brownfield | Industrial/warehouse | 150 | 371 |
| A | Rural 1 | Industrial/warehouse | 150 | 371 |
| B | Rural 2 | Residential garden | 100 | 247 |
| C | Rural 3 | Paddock | 50 | 124 |

Source: Affordable Housing Viability Study 2010

4.41 It was noted earlier that brownfield sites may face 'abnormal costs' if they are to be redeveloped for residential use. Some of those costs, but not necessarily all, might also arise if the site were redeveloped for the alternative use. The alternative use value would need to be reduced to allow for those costs that would still arise in that situation.

4.42 The costs arising from development or redevelopment of the 19 sites are considered in the next chapter along with the other financial and technical assumptions required to prepare financial appraisals for each of the sites.

5. Assumptions for viability analysis

Introduction

- 5.1 This chapter considers the costs and other assumptions required to produce financial appraisals for the 19 sites.

Development costs

(i) Construction costs: baseline costs

- 5.2 Drawing upon our own experience, and taking into account published Building Cost Information Service (BCIS) data, we have developed a set of base £ per sq ft construction costs for different built forms of residential development. The costs are specific to different built forms (flats vs. houses; number of storeys). On the basis of these cost figures it is possible to draw up appropriate cost levels for constructing newbuild market housing in East Staffordshire at a base date of March 2010.
- 5.3 The question arises as to what extent the Code for Sustainable Homes should impact on build costs in the study. Whilst from April 2008 the Code's Level 3 has been a requirement for all homes funded with Homes and Communities Agency (HCA) grant, it is not necessarily a requirement for affordable homes built by developers for disposal to an RSL without grant. The energy performance requirements of Level 3 apply to all newbuild housing (i.e. is incorporated in Building Regulations Part L) from 2010, whilst the Government has previously indicated that higher levels of energy performance (those of Level 4 then 6) are intended to be triggered from 2013 onwards. For the present study it was agreed with the Council that we should assume the whole of Level 3 applies to both market and affordable housing on the sites being appraised, although providing guidance through sensitivity testing for the impact of Level 4.
- 5.4 We have taken into account the erstwhile West Midlands Regional Spatial Strategy requirement for 10% renewable energy. That requirement would to some degree be overtaken at Level 4. The 10% renewable requirement was only triggered at ten dwellings but for simplicity we have assumed it would apply to all of the appraisal sites.

- 5.5 Guidance on the impact of Level 3 on construction costs has been provided at various points by work, commissioned originally by the HCA, and carried out by Cyril Sweett. Their latest report, *Code For Sustainable Homes: A Cost Review (CLG March 2010)* provides a review and update of earlier estimates, timed to fit in with the 2010 change in standards. It builds on feedback from earlier reports, and attempts to take account of the bedding-in process for new technology, allowing for anticipated cost savings as the new standards become the norm. Consequently the scale of cost increase to achieve Levels 3 and 4, for instance, is reduced to some degree by comparison with what was suggested in previous reports.
- 5.6 The study looks at additional build costs for four benchmark house types in six different development scenarios. The extra costs for CSH Levels 1 - 6 over 2006 Building Regulations standards are set out for the resulting 24 house type/scenario combinations, in a summary table (Executive Summary, page 12).
- 5.7 We have reanalysed the summary to a £ per sq ft/sq m basis. The key results are provided in the table below, which shows additional £ per sq ft/sq m costs for each house type from the most expensive of the six scenarios.

| Table 5.1 CSH Level 3 - 4 additional build costs | | | | |
|--|---------|------------|---------|--------|
| House type | 2b flat | 2b terrace | 3b semi | 4b det |
| Floor area sq ft | 656 | 785 | 947 | 1,270 |
| Floor area sq m | 61 | 73 | 88 | 118 |
| Additional cost for most expensive scenario | | | | |
| Level 3 over base cost £ per sq ft | 3.7 | 3.1 | 3.2 | 2.1 |
| Level 3 over base cost £ per sq m | 40 | 33 | 34 | 23 |
| Level 4 over base cost £ per sq ft | 9.7 | 9.4 | 8.6 | 5.4 |
| Level 4 over base cost £ per sq m | 104 | 101 | 93 | 59 |

Source: Fordham Research derived from analysis of BCIS cost data

- 5.8 It can be seen that the highest increase on base costs to achieve Level 3 is £3.70 per sq ft, and the highest increase (from base) to achieve Level 4 is £9.70. On the basis of these figures we have allowed for the extra cost of [Level 3 plus 10% renewables], with a figure of £6.00 per sq ft/£64.60 per sq m, and in sensitivity testing for Level 4, assumed an additional £4.00 per sq ft/£43.00 per sq m. We believe these assumptions are reasonable given the strategic nature of the present study; it would not be appropriate to attempt a detailed estimate to reflect the likely built form of each individual scheme.
- 5.9 After allowing for the above CSH/‘10% renewable’ premium we drew up appropriate cost levels for constructing market housing for the various built forms in the study, taking into account the mix of house types on each. These are set out in the table below.

| Table 5.2 Construction costs: market housing | | | | | |
|--|-------|--------|------|-------|--------|
| Build cost £ per sq ft/sq m | | | | | |
| Site | Sq ft | (Sq m) | Site | Sq ft | (Sq m) |
| 1 | 79.5 | 855 | 9 | 79.7 | 857 |
| 2 | 79.3 | 853 | 10 | 80.2 | 863 |
| 3 | 80.8 | 869 | 11 | 78.0 | 840 |
| 4 | 77.6 | 835 | 12 | 79.3 | 854 |
| 5 | 80.0 | 861 | 13 | 92.2 | 992 |
| 6 | 80.2 | 863 | 14 | 76.3 | 821 |
| 7 | 80.0 | 860 | 15 | 76.3 | 821 |
| 8 | 79.8 | 859 | 16 | 76.3 | 821 |
| A | 79.7 | 857 | C | 76.3 | 821 |
| B | 80.2 | 863 | | | |

Source: Fordham Research derived from analysis of BCIS cost data

(ii) Construction costs: site specific adjustments

- 5.10 It is necessary to consider whether any site specific factors would suggest adjustments to these baseline cost figures. Two factors need to be considered in particular: small sites and high specification.
- 5.11 Since the mid-1990s planning guidance on affordable housing has been based on a view that construction costs were appreciably higher for smaller sites with the consequence that, as site size declined, an unchanging affordable percentage requirement would eventually render the development uneconomic. Hence the need for a 'site size threshold', below which the requirement would not be sought.
- 5.12 It is not clear to us that this view is completely justified. Whilst, other things held equal, build costs would increase for smaller sites, other things are not normally equal and there are other factors which may offset the increase. The nature of the development will change. The nature of the developer will also change as small local firms with lower central overheads replace the regional and national house builders. Furthermore, very small sites may be able to secure a 'non-estate' price premium which we have not allowed for.
- 5.13 In the present study three main sites and the three notional rural sites fall into the 'small site' category – those with less than 15 dwellings. It is felt necessary to make some allowance for the economics of this site in preparing financial appraisals. A range of cost premiums has been estimated for each specific site size, ranging from 5% for the ten dwellings at Site 14 through to 14% for the smallest site, rural site C, with four dwellings. Any such premium must be based on judgement; as explained above it is difficult to see how hard data could ever be obtained to show the effect of scale alone.

5.14 In addition, we considered that site 16 and the three rural sites would be built to a slightly higher specification than the other sites. An allowance of an additional 4% was assumed in order to cover this.

(iii) Construction costs: affordable dwellings and final figures

5.15 The procurement route for affordable housing is assumed to be through construction by the developer and disposal to an RSL on completion. In the past, when considering the build cost of affordable housing provided through this route we took the view that it should be possible to make a small saving on the market housing cost figure on the basis that one might expect the affordable housing to be built to a slightly different specification than market housing. However, the pressures of increasingly demanding standards for RSL properties have meant that for conventional schemes of houses at least, it is no longer appropriate to use a reduced build cost; the assumption is of parity.

5.16 Taking all the above into account we arrived at build costs for all (market and affordable) housing which after rounding were as in the table below. To aid understanding, a worked example for site B is provided at Appendix 5.

| Table 5.3 Construction costs adjusted and rounded: all housing | | | | | |
|--|-------|--------|------|-------|--------|
| Build cost £ per sq ft/sq m | | | | | |
| Site | Sq ft | (Sq m) | Site | Sq ft | (Sq m) |
| 1 | 79.5 | 855 | 9 | 79.5 | 855 |
| 2 | 79.5 | 855 | 10 | 80.0 | 865 |
| 3 | 81.0 | 870 | 11 | 78.0 | 840 |
| 4 | 77.5 | 835 | 12 | 79.5 | 855 |
| 5 | 80.0 | 860 | 13 | 92.0 | 990 |
| 6 | 83.5 | 900 | 14 | 80.0 | 860 |
| 7 | 83.0 | 895 | 15 | 82.0 | 880 |
| 8 | 83.0 | 895 | 16 | 85.5 | 920 |
| A | 87.0 | 935 | C | 88.5 | 955 |
| B | 88.5 | 955 | | | |

Source: Fordham Research derived from analysis of BCIS cost data

5.17 The above build costs are applied to the gross floor areas for each site.

(iv) Other normal development costs

- 5.18 In addition to the per sq ft/m build cost figures described above, allowance needs to be made for a range of infrastructure costs (roads, drainage and services within the site, parking, footpaths, landscaping and other external costs), off site costs for drainage and other services and so on. Many of these items will depend on individual site circumstances and can only properly be estimated following a detailed assessment of each site. This is not practical within the present study, and in any case would require at least a design or layout for every site.
- 5.19 Nevertheless it is possible to generalise. Drawing on experience it is possible to determine an allowance related to total build costs. This is normally lower for higher density than for lower density schemes since there is a smaller area of external works and services can be used more efficiently. Large greenfield sites would also be more likely to require substantial expenditure on bringing mains services to the site.
- 5.20 In the light of these considerations we have developed a scale of allowances, ranging from 22.5% of build costs for the base density greenfield site at Burton urban extension, down to 10.5% for the small, higher density scheme at Site 16. The table below sets out the individual site assumptions.

| Table 5.4 Development cost allowances | | |
|---------------------------------------|--------------------------|------------------|
| Ref | Site/location | % of build costs |
| 1 | Burton Urban Extension | 22.5% |
| 2 | Village large greenfield | 17.5% |
| 3 | Large urban brownfield | 11.5% |
| 4 | Village large greenfield | 16.0% |
| 5 | Large urban brownfield | 13.5% |
| 6 | Urban edge brownfield | 14.5% |
| 7 | Large urban brownfield | 13.5% |
| 8 | Inner urban brownfield | 13.5% |
| 9 | Small urban brownfield | 13.5% |
| 10 | Small urban brownfield | 14.5% |
| 11 | Urban edge greenfield | 14.5% |
| 12 | Small urban brownfield | 14.5% |
| 13 | Town centre brownfield | 14.5% |
| 14 | Small urban brownfield | 13.5% |
| 15 | Small urban brownfield | 14.5% |
| 16 | Village brownfield | 10.5% |
| A | Rural 1 | 13.5% |
| B | Rural 2 | 14.0% |
| C | Rural 3 | 14.0% |

Source: Affordable Housing Viability Study 2010

(v) Abnormal development costs

- 5.21 In some cases where the site involves redevelopment of land which was previously developed there is the potential for abnormal costs to be incurred. Abnormal development costs might include demolition of substantial existing structures, piling or flood prevention measures at waterside locations, remediation of any land contamination, remodelling of land levels and so on.
- 5.22 Most of the sites are on previously developed land and several are liable to flooding from the nearby River Trent. On several sites, from the information made available to us and visits to the sites, it appears that exceptional or abnormal development costs would need to be taken into account in preparing appraisals. Site 1 (urban extension) is of course a notional site and so an indicative allowance has been made. On the notional rural sites, an allowance has been made for clearance of the previously developed site (A), but none of the sites is assumed to have flooding issues.
- 5.23 As pointed out in the previous chapter (para 4.41) some abnormal costs could also arise in the event of the site's redevelopment with an alternative use.
- 5.24 The schedule below sets out the abnormal costs considered to apply in each case where they arise:

| Table 5.5 Abnormal development costs | | | | | |
|--------------------------------------|--------------------------|----------------------------------|-------------------|-------------|------------------|
| Ref | Site | Item | Residential: cost | | Industrial: cost |
| | | | Total £k | £k per acre | £k per acre |
| 1 | Burton Urban Extension | potential flood & access issues | 1,500 | 12 | n/a |
| 2 | Village large greenfield | none | 0 | 0 | - |
| 3 | Large urban brownfield | none, flooding (part) | 191 | 17 | n/a |
| 4 | Village large greenfield | none | 0 | 0 | - |
| 5 | Large urban brownfield | demol, clear, flooding | 484 | 61 | n/a |
| 6 | Urban edge brownfield | farm bdgs demol | 75 | 9 | n/a |
| 7 | Large urban brownfield | already cleared, flooding (most) | 261 | 45 | n/a |
| 8 | Inner urban brownfield | demol, clear, flooding | 277 | 100 | n/a |
| 9 | Small urban brownfield | demol, clear | 150 | 45 | n/a |
| 10 | Small urban brownfield | part demol | 25 | 9 | n/a |
| 11 | Urban edge greenfield | none if access OK | 0 | 0 | |
| 12 | Small urban brownfield | contam, demol | 75 | 61 | 32 |
| 13 | Town centre brownfield | clear, flooding | 232 | 188 | n/a |
| 14 | Small urban brownfield | access diffs | 25 | 39 | n/a |
| 15 | Small urban brownfield | PFS tanks, flooding | 74 | 150 | n/a |
| 16 | Village brownfield | PFS tanks | 50 | 169 | n/a |
| A | Rural 1 | demolition | 10 | 18 | n/a |
| B | Rural 2 | none | 0 | 0 | |
| C | Rural 3 | none | 0 | 0 | |

Source: Affordable Housing Viability Study 2010

5.25 The table also shows the adjustment needed to ensure that an alternative land value reflects the costs incurred in developing an alternative use, where this is applicable. In fact in only one case would abnormal costs arise.

5.26 During the consultation with the development industry whilst this report was being prepared the costs of Part 1 Compensation claims was raised. These are claims from residents living near to a development that may be subject to some disturbance from the improvements to the highways etc. required to service a new development. An allowance of 1% of the development costs was proposed. Having made further investigations we believe that these payments are not the norm and are adequately covered within the existing allowances.

(vi) Fees

5.27 We have assumed professional fees amount to 10% of build costs in each case.

(vii) Contingency

- 5.28 For previously undeveloped and otherwise straightforward sites we would normally allow a contingency of 2.5% with a higher figure of 5% on more risky types of development, previously developed land and central locations. The 2.5% rate was applied on the four greenfield main sites 1, 2, 4 and 11 plus rural B and C and the 5% figure was used on all the brownfield sites.

Financial and other appraisal assumptions

(i) VAT

- 5.29 For simplicity it has been assumed throughout, as with most financial appraisals, that either VAT does not arise, or its effect can be ignored.

(ii) Interest rate

- 5.30 Our appraisals assume 7.5% pa for debits and credits. This may seem high given the very low base rate figure (MLR 0.5% April 2010) but has to reflect banks' view of risk for housing developers in the present situation.

- 5.31 Credit arises in practice only for a short time at the end of the scheme.

(iii) Developers' profit

- 5.32 We normally assume that the developer requires a return of 20% on total costs (equivalent to about 16.7% of income) to reflect the risk of undertaking the development. That assumes that the costs are estimates of costs, as they are indeed here intended to be, rather than contract prices which would include a profit element.

- 5.33 However, where a guaranteed sale applies, the developer's profit margin ought to be reduced in order to reflect the reduction in risk. The affordable units will be sold at an agreed price and programme. With a range of affordable provision being tested it was felt appropriate to reflect the resulting variations in risk with variations in the developer's profit. Consequently a sliding scale of profit margins was used, as shown below. This effectively applies a reduced profit rate to the affordable component, though at 15% that rate is still higher than a straight contractor's profit figure might be.

- 5.34 The adjusted developer's profit rate is applied to all costs including affordable housing, s106, finance and so on.

| Table 5.6 Profit margins | |
|--------------------------|--------------------------|
| <i>% affordable</i> | <i>Profit % on costs</i> |
| 0% | 20% |
| 10% | 19.5% |
| 20% | 19% |
| 30% | 18.5% |
| 40% | 18% |

Source: Affordable Housing Viability Study 2010

5.35 When this was discussed at the draft report consultation event some residential developers argued that these profit margins were too low and the profit on costs should be around 25%. The argument put forward was that banks and other financiers funding housing schemes were currently only funding projects with this higher level of profit to reduce their risks. We acknowledge that there are banks seeking these margins – but not all banks. Until recently residential developers commonly used a slightly more conservative profit margin of 15% on income, which equates to about 17.5% on costs. Bearing in mind the current financial climate, and the fact that this report is to assist with setting the affordable housing target for the Plan period we are comfortable with the profit margins from the levels suggested.

(iv) Void

5.36 On a scheme comprising mainly individual houses one would normally assume only a nominal void period as the housing would not be progressed if there was no demand. In the case of apartments in blocks this flexibility is reduced. Whilst these may provide scope for early marketing, the ability to tailor construction pace to market demand is more limited.

5.37 For the purpose of the present study a three month void period is assumed for all sites.

(v) Phasing and timetable

5.38 The appraisals are assumed to have been prepared using prices and costs at a base date of March 2010 with an immediate start on-site.

5.39 A pre-construction period of at least six months is assumed for all of the sites; it is extended to nine months for Sites 5, 8, 9, 12, and 13. Each dwelling is assumed to be built over a nine month period.

5.40 The phasing programme for an individual site will reflect market take-up and would in practice be carefully estimated taking into account the site characteristics and, in particular, size and the expected level of market demand. We have developed a suite of modelled assumptions to reflect site size and development type, as set out in Table 5.7 below:

| Table 5.7 Market pace assumptions | | | |
|-----------------------------------|--------------------------|-------|----------------------|
| Site | | Dwgs | |
| | | Total | Ceiling rate per qtr |
| 1 | Burton Urban Extension | 2,000 | 80 |
| 2 | Village large greenfield | 500 | 25 |
| 3 | Large urban brownfield | 255 | 20 |
| 4 | Village large greenfield | 180 | 16 |
| 5 | Large urban brownfield | 128 | 15 |
| 6 | Urban edge brownfield | 106 | 15 |
| 7 | Large urban brownfield | 116 | 15 |
| 8 | Inner urban brownfield | 59 | 9 |
| 9 | Small urban brownfield | 70 | 9 |
| 10 | Small urban brownfield | 30 | 5 |
| 11 | Urban edge greenfield | 20 | 4 |
| 12 | Small urban brownfield | 20 | 4 |
| 13 | Town centre brownfield | 44 | 6 |
| 14 | Small urban brownfield | 10 | 3 |
| 15 | Small urban brownfield | 8 | 3 |
| 16 | Village brownfield | 2,000 | 3 |
| A | Rural 1 | 8 | 3 |
| B | Rural 2 | 6 | 2 |
| C | Rural 3 | 8 | 2 |

Source: Affordable Housing Viability Study 2010

S106 contributions

5.41 The assumptions in respect of developer contributions under s106 were considered at 3.13 above.

Site acquisition and disposal costs

(i) Site holding costs and receipts

5.42 Each site is assumed to proceed immediately and so, other than interest on the site cost during construction, there is no allowance for holding costs, or indeed income, arising from ownership of the site.

(ii) Acquisition costs

5.43 Acquisition costs include stamp duty at 4% on site values of £0.5 million and above (reduced below this level) together with an allowance of 1.5% for acquisition agents' and legal fees.

(iii) Disposal costs

5.44 For the market housing, sales and promotion and legal fees are assumed to amount to some 3.5% of receipts. For disposals of affordable housing these figures can be reduced significantly depending on the category. We have assumed total allowances of 0.5% for social rented housing and 1.5% for shared ownership.

Alternative use value comparison

5.45 In the previous chapter we identified alternative use values to be used as benchmarks in determining viability for each site. As we saw above these values might need to be adjusted in some cases to allow for abnormal costs that would arise if the alternative use were implemented.

5.46 After considering each of the sites with abnormal costs we concluded that in only one case would any abnormal cost need to be incurred in order to realise the alternative use. The values as adjusted are set out below.

| Table 5.8 Alternative Use Value bases | | | | |
|---------------------------------------|-----------------------------------|---------------|-----|-----|
| Site | Alternative use value £k per acre | | | |
| | Gross | Abnormal cost | Net | |
| 1 | Burton Urban Extension | 10 | 0 | 10 |
| 2 | Village large greenfield | 10 | 0 | 10 |
| 3 | Large urban brownfield | 150 | 0 | 150 |
| 4 | Village large greenfield | 10 | 0 | 10 |
| 5 | Large urban brownfield | 150 | 0 | 150 |
| 6 | Urban edge brownfield | 150 | 0 | 150 |
| 7 | Large urban brownfield | 150 | 0 | 150 |
| 8 | Inner urban brownfield | 150 | 0 | 150 |
| 9 | Small urban brownfield | 150 | 0 | 150 |
| 10 | Small urban brownfield | 200 | 0 | 200 |
| 11 | Urban edge greenfield | 50 | 0 | 50 |
| 12 | Small urban brownfield | 150 | 32 | 118 |
| 13 | Town centre brownfield | 150 | 0 | 150 |
| 14 | Small urban brownfield | 150 | 0 | 150 |
| 15 | Small urban brownfield | 150 | 0 | 150 |
| 16 | Village brownfield | 150 | 0 | 150 |
| A | Rural 1 | 150 | 0 | 150 |
| B | Rural 2 | 100 | 0 | 100 |
| C | Rural 3 | 50 | 0 | 50 |

Source: Affordable Housing Viability Study 2010

6. Results of viability analysis

Introduction

- 6.1 This chapter considers the results of financial appraisals carried out for the identified sites.

Financial appraisal approach and assumptions

- 6.2 On the basis of the assumptions set out in Chapter 5 we prepared financial appraisals for each of the identified sites using a bespoke spreadsheet-based financial analysis package.
- 6.3 The appraisals use the residual valuation approach – that is, they are designed to assess the value of the site after taking into account the costs of development, the likely income from sales and/or rents and an appropriate amount of developer's profit. The payment would represent the sum paid in a single upfront transaction. The resulting valuation is commonly expressed in £s per acre (or hectare). In order for the proposed development to be described as viable it is necessary for this value to exceed the value from a valid alternative use. We have already seen that, for a greenfield site where the only alternative use is likely to be agricultural, this figure may be very modest. However, most of the sites have been previously developed and therefore have a more substantial existing or competing alternative use value.
- 6.4 As outlined in Chapter 3, our appraisals considered four options for the amount and type of affordable housing provision plus a zero affordable option.

Appraisal results

- 6.5 We produced financial appraisals based on the stated build, abnormal, and infrastructure costs and financial assumptions for the four options (three affordable options, plus all-market).
- 6.6 Detailed appraisal printouts for all the sites are provided as Appendix 7 to this report. To keep to a manageable sized document only one option, that of 10%, has been provided.
- 6.7 The resulting residual land values for the four options are set out in Table 6.1.

Table 6.1 Appraisal results for four affordable options

| | | Zero grant: | | | | |
|----|--------------------------|--|------------|------------|------------|------------|
| No | Site | <i>Residual value £k per acre for affordable option:</i> | | | | |
| | | <i>No aff</i> | <i>10%</i> | <i>20%</i> | <i>30%</i> | <i>40%</i> |
| 1 | Burton Urban Extension | 167 | 121 | 74 | 27 | -21 |
| 2 | Village large greenfield | 280 | 223 | 165 | 107 | 48 |
| 3 | Large urban brownfield | 300 | 212 | 124 | 35 | -57 |
| 4 | Village large greenfield | 422 | 352 | 281 | 209 | 137 |
| 5 | Large urban brownfield | 147 | 86 | 25 | -40 | -105 |
| 6 | Urban edge brownfield | 300 | 228 | 155 | 82 | 8 |
| 7 | Large urban brownfield | 162 | 86 | 9 | -72 | -153 |
| 8 | Inner urban brownfield | 110 | 34 | -44 | -123 | -204 |
| 9 | Small urban brownfield | 212 | 139 | 73 | -1 | -76 |
| 10 | Small urban brownfield | 188 | 132 | 74 | 14 | -48 |
| 11 | Urban edge greenfield | 408 | 337 | 266 | 195 | 124 |
| 12 | Small urban brownfield | 220 | 146 | 66 | -15 | -98 |
| 13 | Town centre brownfield | -508 | -633 | -760 | -885 | -1,021 |
| 14 | Small urban brownfield | 326 | 249 | 172 | 95 | 16 |
| 15 | Small urban brownfield | 120 | 52 | -16 | -86 | -156 |
| 16 | Village brownfield | 474 | 353 | 232 | 110 | -14 |
| A | Rural 1 | 512 | 420 | 316 | 213 | 107 |
| B | Rural 2 | 506 | 426 | 335 | 243 | 151 |
| C | Rural 3 | 488 | 398 | 309 | 219 | 129 |

Source: Affordable Housing Viability Study 2010

- 6.8 Table 6.1 shows that with no requirement for affordable housing, all but one of the sites deliver a positive land value. Nine of these are broadly in a range of £200k-£400k per acre (£500k-£1.0m per ha). Four are rather higher, and five a little lower.
- 6.9 These figures cannot be compared directly with what the available figures (Chapter 4) suggest is typically being paid for residential land in East Staffordshire, or in the surrounding urban centres. Even allowing for additional development costs and our planning gain assumptions, and sustainable requirements, values on the remaining sites are somewhat below what the available information suggests for 'oven ready' land in East Staffordshire. This confirms that our appraisal assumptions are, taken as a whole, unlikely to be unduly optimistic.
- 6.10 Table 6.1 confirms that, as increasing amounts of affordable housing are introduced, the land value reduces. In each case the impact is progressive, but at a broadly linear rate. At the maximum affordable contribution shown, 40%, there are only six schemes which still deliver a significant positive land value (plus two where the value is only nominally positive).

- 6.11 However, it is clear that land value falls away more quickly for some schemes than for others. It is the most highly priced and most densely developed sites where affordable housing has the greatest negative impact upon land value.
- 6.12 In order to draw out the implications of these results for the Council's proposed affordable housing policy, as has already been suggested, it will be necessary to consider values from alternative uses for each. This step follows below.

Alternative use benchmarks

- 6.13 The results from Table 6.1 would need to be compared with the alternative use values set out in Table 5.8 in order to form a view about the likely viability of the affordable options for each site.
- 6.14 However, it does not automatically follow that if the residual value produces a surplus over the alternative use value benchmark that the site is viable. The surplus needs to be sufficiently large to provide an incentive to the landowner to release the site and any other appropriate cost required to bring the site forward for development. We therefore have to consider how large such a 'cushion' should be for our sites.
- 6.15 In practice the size of the element will vary from case to case depending on how many landowners are involved, each landowner's attitude and their degree of involvement in the current property market, the location of the site and so on. A 'cushion' equivalent to, say, £25k per acre might be perfectly sufficient in some cases, whilst in a particular case it might need to be four or five times that figure.
- 6.16 The size of the cushion was the main source of debate at the draft report consultation event with members of the development industry. There was little consensus amongst the stakeholders. It was agreed that for a land owner to be induced to sell they must be offered more than the existing use of that land. For industrial land it was suggested that this should be sufficient to cover the cost of moving a business and new (and better) premises. It was also suggested that agricultural landowners may not sell unless offered many times the agricultural value. The structure of options to purchase land was discussed and most of these are to purchase at a percentage of open market value rather than at a simple price. These will therefore reflect the amount of affordable housing in any consent.
- 6.17 After consideration we took the view that a broad average figure of £40k per acre (£100k per ha) should be used to provide an incentive to the landowner for all of the brownfield sites in the study. This would be doubled for greenfield agricultural sites to £80k per acre. The figure for the 'cushion' would represent a mark-up of just over 25% on the industrial benchmark land value.
- 6.18 The figures are set out below and combined with the net alternative use values from Table 5.8 to show the resulting benchmark thresholds for viability.

6.19 It must be emphasised that these figures are simply a view of what it is reasonable to assume as a minimum residual value for the purposes of assessing viability. The figures do not represent what a landowner or promoter might actually receive. This will quite often be rather more; at any given affordable target some sites will generate a higher value and it is not unreasonable to expect at least some of the surplus to benefit the landowner or promoter rather than passing to the developer.

| Table 6.2 Viability cushion & threshold values | | | | |
|--|--------------------------|-----------------------|---------|---------------------------|
| Ref | Site | £k per acre | | |
| | | Alternative use value | Cushion | Viability threshold value |
| 1 | Burton Urban Extension | 10 | 80 | 90 |
| 2 | Village large greenfield | 10 | 80 | 90 |
| 3 | Large urban brownfield | 150 | 40 | 190 |
| 4 | Village large greenfield | 10 | 80 | 90 |
| 5 | Large urban brownfield | 150 | 40 | 190 |
| 6 | Urban edge brownfield | 150 | 40 | 190 |
| 7 | Large urban brownfield | 150 | 40 | 190 |
| 8 | Inner urban brownfield | 150 | 40 | 190 |
| 9 | Small urban brownfield | 150 | 40 | 190 |
| 10 | Small urban brownfield | 200 | 40 | 240 |
| 11 | Urban edge greenfield | 50 | 80 | 130 |
| 12 | Small urban brownfield | 118 | 40 | 158 |
| 13 | Town centre brownfield | 150 | 40 | 190 |
| 14 | Small urban brownfield | 150 | 40 | 190 |
| 15 | Small urban brownfield | 150 | 40 | 190 |
| 16 | Village brownfield | 150 | 40 | 190 |

Source: Affordable Housing Viability Study 2010

6.20 The viability outcomes resulting from applying these threshold values are shown in the Table below.

| Table 6.3 Appraisal outcomes: base appraisals, zero grant | | | | | | | |
|---|------------------|---------------|-------------------|----------|----------|----------|----------|
| No | Site | Alt use value | Value £k per acre | | | | |
| | | | No affordable | 10% | 20% | 30% | 40% |
| 1 | Burton UE | 10 | 167 | 121 | 74 | 27 | -21 |
| | | 90 | VIABLE | VIABLE | MARGINAL | MARGINAL | NOT VIAB |
| 2 | Village large GF | 10 | 280 | 223 | 165 | 107 | 48 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |
| 3 | Large urban BF | 150 | 300 | 212 | 124 | 35 | -57 |
| | | 190 | VIABLE | VIABLE | NOT VIAB | NOT VIAB | NOT VIAB |
| 4 | Village large GF | 10 | 422 | 352 | 281 | 209 | 137 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 147 | 86 | 25 | -40 | -105 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 6 | Urban edge BF | 150 | 300 | 228 | 155 | 82 | 8 |
| | | 190 | VIABLE | VIABLE | MARGINAL | NOT VIAB | NOT VIAB |
| 7 | Large urban BF | 150 | 162 | 86 | 9 | -72 | -153 |
| | | 190 | MARGINAL | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 8 | Inner urban BF | 150 | 110 | 34 | -44 | -123 | -204 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 9 | Small urban BF | 150 | 212 | 139 | 73 | -1 | -76 |
| | | 90 | VIABLE | MARGINAL | NOT VIAB | NOT VIAB | NOT VIAB |
| 10 | Small urban BF | 200 | 188 | 132 | 74 | 14 | -48 |
| | | 240 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 11 | Urban edge GF | 50 | 408 | 337 | 266 | 195 | 124 |
| | | 130 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |
| 12 | Small urban BF | 118 | 220 | 146 | 66 | -15 | -98 |
| | | 158 | VIABLE | MARGINAL | NOT VIAB | NOT VIAB | NOT VIAB |
| 13 | Town centre BF | 150 | -508 | -633 | -760 | -885 | -1,021 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 326 | 249 | 172 | 95 | 16 |
| | | 190 | VIABLE | VIABLE | MARGINAL | NOT VIAB | NOT VIAB |
| 15 | Small urban BF | 150 | 120 | 52 | -16 | -86 | -156 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 16 | Village BF | 150 | 474 | 353 | 232 | 110 | -14 |
| | | 190 | VIABLE | VIABLE | VIABLE | NOT VIAB | NOT VIAB |
| A | Rural 1 | 150 | 512 | 420 | 316 | 213 | 107 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE | NOT VIAB |
| B | Rural 2 | 100 | 506 | 426 | 335 | 243 | 151 |
| | | 140 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |
| C | Rural 3 | 50 | 488 | 398 | 309 | 219 | 129 |
| | | 130 | VIABLE | VIABLE | VIABLE | VIABLE | MARGINAL |

Source: Affordable Housing Viability Study 2010

Comparison results

- 6.21 With zero affordable housing only 13 of the 19 sites are viable, and one is marginal. Residential development as 100% market housing is, of course, a relatively profitable development option and in stable market conditions the sites should not be proposed for development otherwise. However, market conditions are not stable. House prices fell considerably since autumn 2007, and there are a number of sites which could not proceed at present, even as 100% market housing. Even so this result suggests that one or two of the sites might struggle to produce affordable housing under any but the most favourable circumstances.
- 6.22 Turning to the various levels of affordable contribution; at 10% 11 sites are still viable, whilst two are marginal. At 20% the marginal sites become unviable, three viable sites become marginal, and one becomes unviable, leaving seven viable sites.
- 6.23 At 30% there are five viable sites left, plus one marginal. However, by 40% only one site is fully viable and there are four marginal sites.
- 6.24 Looking more closely at the sites, it is clear that the sites in the two principal towns, Burton and Uttoxeter, do much worse than the sites located in the rural area. To show this pattern more clearly, the results have been summarised in tabular form below.

| Table 6.4 Viability results summary | | | | | | |
|--|--|------------|------------|------------|------------|--|
| | <i>No of sites in category with affordable at:</i> | | | | | |
| | <i>No aff</i> | <i>10%</i> | <i>20%</i> | <i>30%</i> | <i>40%</i> | |
| URBAN | | | | | | |
| Viable | 7 | 5 | 1 | 1 | 0 | |
| Marginal | 1 | 2 | 3 | 1 | 1 | |
| Not viable | 5 | 6 | 9 | 11 | 12 | |
| Total | 13 | 13 | 13 | 13 | 13 | |
| OTHER MAIN | | | | | | |
| Viable | 3 | 3 | 3 | 2 | 1 | |
| Marginal | 0 | 0 | 0 | 0 | 1 | |
| Not viable | 0 | 0 | 0 | 1 | 1 | |
| Total | 3 | 3 | 3 | 3 | 3 | |
| RURAL NOTIONAL | | | | | | |
| Viable | 3 | 3 | 3 | 3 | 0 | |
| Marginal | 0 | 0 | 0 | 0 | 2 | |
| Not viable | 0 | 0 | 0 | 0 | 1 | |
| Total | 3 | 3 | 3 | 3 | 3 | |
| GRAND TOTAL | | | | | | |
| Viable | 13 | 11 | 7 | 6 | 1 | |
| Marginal | 1 | 2 | 3 | 1 | 4 | |
| Not viable | 5 | 6 | 9 | 12 | 14 | |
| Total | 19 | 19 | 19 | 19 | 19 | |

Source: Affordable Housing Viability Study 2010

- 6.25 We will consider the implications of these results for future policy in the next chapter. However before we can do this we should consider how likely future movements in our appraisal assumptions might impact upon them.

Sensitivity: price and cost levels

- 6.26 Whilst variations in any of the appraisal assumptions will affect the results, the key elements which most dramatically affect the outcome are the price and build cost assumptions. In the present market situation it is future movements in prices which are of greatest interest; what if prices continue to fall as they were doing until recently? What if they recover?

- 6.27 Over the last few months prices appear to have stabilised, and even to have risen somewhat. However there is no consensus that the decline in prices is over. The view is that a limited supply of properties onto the market, rather than an increase in demand, has been responsible for the modest upturn, and a number of commentators still expect a further period of price decline in 2010.
- 6.28 Given the continuing uncertainty we considered two scenarios in order to illustrate the impact of future price and cost changes. The first took a moderately gloomy view assuming that prices would fall another 10% relative to costs, before a clear recovery begins.
- 6.29 As an alternative to this we assessed how viability might have looked around the market peak in autumn 2007, essentially reflecting newbuild market prices 18-19% higher than currently, and costs 6% or so lower. The results from this 'market peak' scenario are considered in the next section.
- 6.30 The 'short-term fall' scenario results for the 10% and 20% affordable options are compared to the base appraisal results for 10% in Table 6.5 below:

| Table 6.5 Sensitivity test: short-term market fall scenario | | | | | |
|---|------------------|---------------|------------------------|---------------------------------|----------|
| No | Site | Alt use value | Value £k per acre | | |
| | | | Base option 10% aff | Prices down costs up 10% aff | 20% aff |
| 1 | Burton UE | 10 | 121 | 27 | -9 |
| | | 90 | VIABLE | MARGINAL | NOT VIAB |
| 2 | Village large GF | 10 | 223 | 112 | 66 |
| | | 90 | VIABLE | VIABLE | MARGINAL |
| 3 | Large urban BF | 150 | 212 | 27 | -43 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 4 | Village large GF | 10 | 352 | 217 | 160 |
| | | 90 | VIABLE | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 86 | -51 | -99 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 6 | Urban edge BF | 150 | 228 | 84 | 27 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 7 | Large urban BF | 150 | 86 | -78 | -140 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 8 | Inner urban BF | 150 | 34 | -135 | -197 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 9 | Small urban BF | 150 | 139 | -5 | -59 |
| | | 90 | MARGINAL | NOT VIAB | NOT VIAB |
| 10 | Small urban BF | 200 | 132 | 8 | -39 |
| | | 240 | NOT VIAB | NOT VIAB | NOT VIAB |
| 11 | Urban edge GF | 50 | 337 | 195 | 139 |
| | | 130 | VIABLE | VIABLE | VIABLE |
| 12 | Small urban BF | 118 | 146 | -32 | -93 |
| | | 158 | MARGINAL | NOT VIAB | NOT VIAB |
| 13 | Town centre BF | 150 | -633 | -898 | -996 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 249 | 95 | 33 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 15 | Small urban BF | 150 | 52 | -86 | -140 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 16 | Village BF | 150 | 353 | 129 | 30 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| A | Rural 1 | 150 | 420 | 233 | 150 |
| | | 190 | VIABLE | VIABLE | NOT VIAB |
| B | Rural 2 | 100 | 426 | 264 | 191 |
| | | 140 | VIABLE | VIABLE | VIABLE |
| C | Rural 3 | 50 | 398 | 240 | 167 |
| | | 130 | VIABLE | VIABLE | MARGINAL |

Source: Affordable Housing Viability Study 2010

- 6.31 It can be seen that with a further price fall/cost increase, only six of our sites are viable at 10% affordable, with one marginal. At 20% there are three viable sites and two marginals; 14 sites are unviable.

Sensitivity: the market peak

- 6.32 The above approach, varying the price level, can also be applied in order to assess retrospectively viability at the peak viability level around October 2007. In this case we believe that prices would have been almost 20% higher and costs at least 5% lower than those assumed in the base appraisals (effectively equivalent to a 25% increase in prices).
- 6.33 The approach was applied with target proportions of 20%, 30% and 40%, and the results are compared with the 10% 'base' option below.

| Table 6.6 Sensitivity test: market peak | | | | | | |
|---|------------------|---------------|------------------------|----------|----------------------|----------|
| No | Site | Alt use value | Value £k per acre | | | |
| | | | Base option 10% aff | 20% aff | Prices up costs down | |
| | | | | 30% aff | 40% aff | |
| 1 | Burton UE | 10 | 121 | 283 | 210 | 137 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE |
| 2 | Village large GF | 10 | 223 | 422 | 332 | 242 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE |
| 3 | Large urban BF | 150 | 212 | 534 | 394 | 253 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE |
| 4 | Village large GF | 10 | 352 | 570 | 464 | 356 |
| | | 90 | VIABLE | VIABLE | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 86 | 321 | 223 | 123 |
| | | 190 | NOT VIAB | VIABLE | VIABLE | NOT VIAB |
| 6 | Urban edge BF | 150 | 228 | 467 | 355 | 243 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE |
| 7 | Large urban BF | 150 | 86 | 371 | 250 | 128 |
| | | 190 | NOT VIAB | VIABLE | VIABLE | NOT VIAB |
| 8 | Inner urban BF | 150 | 34 | 307 | 189 | 69 |
| | | 190 | NOT VIAB | VIABLE | MARGINAL | NOT VIAB |
| 9 | Small urban BF | 150 | 139 | 400 | 289 | 177 |
| | | 90 | MARGINAL | VIABLE | VIABLE | VIABLE |
| 10 | Small urban BF | 200 | 132 | 351 | 258 | 166 |
| | | 240 | NOT VIAB | VIABLE | VIABLE | NOT VIAB |
| 11 | Urban edge GF | 50 | 337 | 585 | 475 | 363 |
| | | 130 | VIABLE | VIABLE | VIABLE | VIABLE |
| 12 | Small urban BF | 118 | 146 | 443 | 320 | 197 |
| | | 158 | MARGINAL | VIABLE | VIABLE | VIABLE |
| 13 | Town centre BF | 150 | -633 | -146 | -347 | -560 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 249 | 509 | 392 | 278 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE |
| 15 | Small urban BF | 150 | 52 | 288 | 183 | 78 |
| | | 190 | NOT VIAB | VIABLE | MARGINAL | NOT VIAB |
| 16 | Village BF | 150 | 353 | 736 | 553 | 366 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE |
| A | Rural 1 | 150 | 420 | 728 | 575 | 427 |
| | | 190 | VIABLE | VIABLE | VIABLE | VIABLE |
| B | Rural 2 | 100 | 426 | 684 | 551 | 426 |
| | | 140 | VIABLE | VIABLE | VIABLE | VIABLE |
| C | Rural 3 | 50 | 398 | 655 | 535 | 399 |
| | | 130 | VIABLE | VIABLE | VIABLE | VIABLE |

Source: Affordable Housing Viability Study 2010

- 6.34 The results confirm that at the market peak level of prices, viability would be very significantly improved. All but one of the sites are now viable at 20%. Even at 40% affordable, 13 sites would be viable. Hence at market peak conditions 40% would have been as viable as 10% is in present market conditions.

Sensitivity: CSH Level 4

- 6.35 The base appraisals were prepared using an assumption that all housing was to be built to the Code for Sustainable Homes Level 3 (and also with 10% renewable energy). It is appropriate to consider the impact of moving to a requirement of Level 4, which has previously been signalled to be a requirement from 2013.
- 6.36 This can be expected to impair viability since it increases build costs, whilst we cannot allow for any price premium for Level 4 dwellings and so there is no offsetting increase in sales income.

Table 6.7 Sensitivity test: CSH Level 4

| No | Site | Alt use value | Value £k per acre | | |
|----|------------------|---------------|------------------------|--------------------|--------------------|
| | | | Base option 10% aff | Level 4 10% aff | Level 4 20% aff |
| 1 | Burton UE | 10 | 121 | 79 | 32 |
| | | 90 | VIABLE | MARGINAL | MARGINAL |
| 2 | Village large GF | 10 | 223 | 176 | 118 |
| | | 90 | VIABLE | VIABLE | VIABLE |
| 3 | Large urban BF | 150 | 212 | 128 | 41 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 4 | Village large GF | 10 | 352 | 302 | 230 |
| | | 90 | VIABLE | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 86 | 23 | -41 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 6 | Urban edge BF | 150 | 228 | 170 | 97 |
| | | 190 | VIABLE | MARGINAL | NOT VIAB |
| 7 | Large urban BF | 150 | 86 | 11 | -69 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 8 | Inner urban BF | 150 | 34 | -44 | -123 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 9 | Small urban BF | 150 | 139 | 72 | 3 |
| | | 90 | MARGINAL | NOT VIAB | NOT VIAB |
| 10 | Small urban BF | 200 | 132 | 77 | 16 |
| | | 240 | NOT VIAB | NOT VIAB | NOT VIAB |
| 11 | Urban edge GF | 50 | 337 | 277 | 208 |
| | | 130 | VIABLE | VIABLE | VIABLE |
| 12 | Small urban BF | 118 | 146 | 62 | -18 |
| | | 158 | MARGINAL | NOT VIAB | NOT VIAB |
| 13 | Town centre BF | 150 | -633 | -780 | -906 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 249 | 183 | 105 |
| | | 190 | VIABLE | MARGINAL | NOT VIAB |
| 15 | Small urban BF | 150 | 52 | -15 | -83 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 16 | Village BF | 150 | 353 | 261 | 143 |
| | | 190 | VIABLE | VIABLE | NOT VIAB |
| A | Rural 1 | 150 | 420 | 349 | 245 |
| | | 190 | VIABLE | VIABLE | VIABLE |
| B | Rural 2 | 100 | 426 | 370 | 278 |
| | | 140 | VIABLE | VIABLE | VIABLE |
| C | Rural 3 | 50 | 398 | 344 | 254 |
| | | 130 | VIABLE | VIABLE | VIABLE |

Source: Affordable Housing Viability Study 2010

- 6.37 Table 6.7 shows the results calculated for the 10% and 20% options. The residual values are typically £50k-70k per acre (£125k-£175k per ha) lower with the reduced sustainable housing requirement.
- 6.38 Whilst only one site which was previously viable has become unviable at 10%, two marginal sites have become not viable, and three viable sites have become marginal. This leaves seven sites viable at 10%, with three marginal. Six are still viable at 20% affordable (plus one marginal). So a Level 4 requirement reduces the achievable affordable target, by something like 5% or so.

Sensitivity: tenure split

- 6.39 The base appraisals were prepared using a tenure split assumption of 70/30. We were asked to look at the impact of varying this assumption and therefore looked at an alternative 100/0 split.
- 6.40 Because intermediate housing achieves higher average purchase prices than social rented, increasing the proportion of social rented dwellings will reduce viability. The impact will increase as the affordable proportion rises, and so sensitivity testing was carried out for the 20% affordable option.

| Table 6.8 Sensitivity test: revised tenure split | | | | |
|--|------------------|---------------|------------------------|---------------------------------|
| No | Site | Alt use value | Value £k per acre | |
| | | | Base option 20% aff | Tenure split @ 100/0 20% aff |
| 1 | Burton UE | 10 | 74 | 57 |
| | | 90 | MARGINAL | MARGINAL |
| 2 | Village large GF | 10 | 165 | 145 |
| | | 90 | VIABLE | VIABLE |
| 3 | Large urban BF | 150 | 124 | 93 |
| | | 190 | NOT VIAB | NOT VIAB |
| 4 | Village large GF | 10 | 281 | 259 |
| | | 90 | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 25 | 2 |
| | | 190 | NOT VIAB | NOT VIAB |
| 6 | Urban edge BF | 150 | 155 | 130 |
| | | 190 | MARGINAL | NOT VIAB |
| 7 | Large urban BF | 150 | 9 | -19 |
| | | 190 | NOT VIAB | NOT VIAB |
| 8 | Inner urban BF | 150 | -44 | -71 |
| | | 190 | NOT VIAB | NOT VIAB |
| 9 | Small urban BF | 150 | 73 | 48 |
| | | 90 | NOT VIAB | NOT VIAB |
| 10 | Small urban BF | 400 | 74 | 53 |
| | | 440 | NOT VIAB | NOT VIAB |
| 11 | Urban edge GF | 50 | 266 | 241 |
| | | 130 | VIABLE | VIABLE |
| 12 | Small urban BF | 118 | 66 | 36 |
| | | 158 | NOT VIAB | NOT VIAB |
| 13 | Town centre BF | 150 | -760 | -804 |
| | | 190 | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 172 | 143 |
| | | 190 | MARGINAL | NOT VIAB |
| 15 | Small urban BF | 150 | -16 | -42 |
| | | 190 | NOT VIAB | NOT VIAB |
| 16 | Village BF | 150 | 232 | 188 |
| | | 190 | VIABLE | MARGINAL |
| A | Rural 1 | 150 | 316 | 278 |
| | | 190 | VIABLE | VIABLE |
| B | Rural 2 | 100 | 335 | 303 |
| | | 140 | VIABLE | VIABLE |
| C | Rural 3 | 50 | 309 | 279 |
| | | 130 | VIABLE | VIABLE |

Source: Affordable Housing Viability Study 2010

6.41 The change in tenure split reduces residual values by typically £25-35k per acre at 20%. This is sufficient to make one viable site marginal, and two of the three marginal sites unviable, leaving six viable.

Sensitivity: other developer contributions

6.42 We also looked at the impact upon viability of a much more significant level of developer contribution requirement.

6.43 At this time many Councils are considering the introduction of a Community Infrastructure Levy (CIL) arrangement. This provides the potential where justified, to fund a wider range of infrastructure provision from developer contributions, whilst also potentially removing critical infrastructure provision obstacles to larger scale development projects. Consequently we were asked to consider the impact of a much more significant contributions assumption, of £15k per dwelling.

6.44 This is at this stage an arbitrary figure but does provide the Council with some guidance on the impact of a substantially higher level of developer contribution (should such a level be justified by the scale of the required infrastructure).

6.45 Under the published regulations for CIL it is envisaged that the levy would be collected in respect of market housing only, with affordable dwellings being exempt from the charge. To collect £15k per dwelling in total, a higher figure per market dwelling would have to be charged on sites where a proportion of dwellings were affordable. The equivalent charges per market dwelling would be as set out in the Table below.

| Table 6.9 Contribution per market dwelling | | | | | |
|--|-------------------|--------|--------|--------|--------|
| | Affordable target | | | | |
| Overall requirement at £15k per dwelling | 10% | 15% | 20% | 25% | 30% |
| Level of contribution (£) required per market dwelling | 16,667 | 17,647 | 18,750 | 20,000 | 21,429 |

Source: Affordable Housing Viability Study 2010

6.46 The results of appraisals for a '£15k per total dwelling' contribution with target affordable proportions of 10% and 20% are compared to the 10% 'base' option below.

| Table 6.10 Sensitivity test: higher developer contributions | | | | | |
|---|------------------|---------------|------------------------|---------------------------------|----------|
| No | Site | Alt use value | Value £k per acre | | |
| | | | Base option 10% aff | Prices down costs up 10% aff | 20% aff |
| 1 | Burton UE | 10 | 121 | 27 | -19 |
| | | 90 | VIABLE | MARGINAL | NOT VIAB |
| 2 | Village large GF | 10 | 223 | 102 | 43 |
| | | 90 | VIABLE | VIABLE | MARGINAL |
| 3 | Large urban BF | 150 | 212 | -12 | -104 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 4 | Village large GF | 10 | 352 | 215 | 144 |
| | | 90 | VIABLE | VIABLE | VIABLE |
| 5 | Large urban BF | 150 | 86 | -76 | -141 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 6 | Urban edge BF | 150 | 228 | 102 | 30 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 7 | Large urban BF | 150 | 86 | -121 | -200 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 8 | Inner urban BF | 150 | 34 | -187 | -265 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 9 | Small urban BF | 150 | 139 | -71 | -141 |
| | | 90 | MARGINAL | NOT VIAB | NOT VIAB |
| 10 | Small urban BF | 200 | 132 | 17 | -44 |
| | | 240 | NOT VIAB | NOT VIAB | NOT VIAB |
| 11 | Urban edge GF | 50 | 337 | 232 | 160 |
| | | 130 | VIABLE | VIABLE | VIABLE |
| 12 | Small urban BF | 118 | 146 | -25 | -106 |
| | | 158 | MARGINAL | NOT VIAB | NOT VIAB |
| 13 | Town centre BF | 150 | -633 | -1,013 | -1,140 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 14 | Small urban BF | 150 | 249 | 83 | 5 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| 15 | Small urban BF | 150 | 52 | -128 | -195 |
| | | 190 | NOT VIAB | NOT VIAB | NOT VIAB |
| 16 | Village BF | 150 | 353 | 97 | -25 |
| | | 190 | VIABLE | NOT VIAB | NOT VIAB |
| A | Rural 1 | 150 | 420 | 265 | 163 |
| | | 190 | VIABLE | VIABLE | MARGINAL |
| B | Rural 2 | 100 | 426 | 294 | 202 |
| | | 160 | VIABLE | VIABLE | VIABLE |
| C | Rural 3 | 50 | 398 | 294 | 204 |
| | | 170 | VIABLE | VIABLE | VIABLE |

Source: Affordable Housing Viability Study 2010

- 6.47 The introduction of CIL at the scale suggested would have quite a significant impact on scheme viability. Now only six schemes are viable at 10%, with one marginal. Four sites could produce 20% affordable whilst remaining fully viable, with a further two sites marginal. This suggests that a CIL figure of £15k per total dwelling would reduce the achievable affordable target by upwards of 15%.

7. Implications of the Stage 1 Results

Our approach

- 7.1 The purpose of the Affordable Housing Viability Study was to assess the impact of alternative affordable housing requirements upon development viability. In order to provide appropriate guidance, we have produced financial appraisals in respect of residential developments on a range of sites selected following discussion. Our approach has involved the use of the actual development proposals for the sites with recent planning permissions and 'model' developments for those sites for which applications have yet to be submitted. A bespoke financial appraisal package has been used to produce residual valuations for each site under a series of affordable housing options.
- 7.2 In order to prepare financial appraisals, whether for a general study like this or on behalf of a landowner or developer proposing a specific development, it is necessary to make a considerable number of assumptions. We believe that, in general, the assumptions we have made are fair and reasonable. They reflect considerable experience drawn from a variety of development situations and are designed to reflect the circumstances of each site which, even in a relatively compact area like the Borough, in practice display a certain amount of diversity.
- 7.3 The appraisal results would produce open market land values which are consistent but, compared to the limited information we have about recent values in nearby centres, and prices currently sought for small sites in the area, after allowing for differences in their basis, rather lower. This suggests that the package of development assumptions is not unduly optimistic. That they give a conservative view is also supported by a developer's financial submission in respect of one of the sites.
- 7.4 The low land values emerging also reflect two other factors which we need to take into account when reflecting on the appraisal results:
- The combined effect of a serious restriction on credit availability from the early autumn of 2007 onwards and the consequential, more general, business downturn which became increasingly established by the last quarter of 2008.
 - The impact of the allowed for costs in respect of sustainability:
 - Level 3 of the Sustainability Code for both market and affordable homes, without any offsetting uplift in values
 - A 'Merton rule' requirement for renewable energy
- 7.5 The financial appraisals produce a series of residual values showing the value generated for each site for all market housing, and further tested under a range of affordable housing scenarios.

- 7.6 In an exercise of this nature, the figures have to be interpreted in order to draw conclusions for Plan policies. We have suggested a basis for interpretation which draws on indicative alternative use values, and sets a standard 'cushion' over alternative use value to provide an incentive for the landowner to bring the site forward. Again, as a strategic approach, we believe this to be reasonable.
- 7.7 There are substantial variations in house prices between the urban and rural parts of the study area. Those areas where prices are likely to be lowest, the urban areas of Burton on Trent and Uttoxeter, are well represented. The sites therefore covered the 'worst case' by fully including locations in which viability is (other things equal) likely to be worst. The range of sites includes both smaller and larger sites, straightforward and complex development situations and a range of previous uses for previously developed land.
- 7.8 The appraisals tested various proportions of affordable housing – combined with a proposed tenure split of 70:30 social rented:intermediate affordable housing, with intermediate housing represented by shared ownership at 50% share. It was decided to assume that grant would not normally be available. In estimating the values which, under those terms, developers would be likely to achieve affordable housing of the above types we have used information on estimated purchase prices drawn from our experience elsewhere.
- 7.9 We have taken a strategic approach ensuring in particular that the sites were treated consistently. This is because the analysis is designed to test and demonstrate Borough-wide deliverability in line with the requirements in national guidance. This work is a strategic study designed to inform the development of Plan policy, rather than per se, as an exercise to predict as accurately as possible the actual financial outcomes of development on specific sites. The actual sites used in the study should be regarded as indicating more general patterns of development across the study area.

Basis for the affordable housing target

- 7.10 The results from the appraisals suggest that at current market values and costs it would be possible to propose a target of 15% affordable housing, on a zero grant basis, across the study area as a whole.
- 7.11 With our base assumptions, under present market conditions only 13 of the 19 sites could produce even 100% market housing and remain viable (with one other site marginal). On the basis of interpolation it appears that ten of those sites would remain viable at 15% affordable, with one other remaining marginal. Between 15% and 20% the marginal site becomes unviable, and three viable sites become marginal, leaving seven of the 13 (rather less than half of the full 19) viable. In our view, a 15% general target is the highest that could reasonably be sought in the present (March 2010) market.

Affordable target suggestion

- 7.12 In the past the Borough may well have been able to negotiate more than 15% affordable housing, without grant, on privately developed sites. However the fall in house prices, combined with the additional cost of sustainable development requirements (Level 3, 10% renewable), has made seeking a general target higher than 15% affordable, unrealistic in the current market circumstances.
- 7.13 Sensitivity tests show how responsive viability is to changes in present market conditions, i.e. price and cost levels. Were we facing price and cost levels as they might have been in autumn 2007, a higher target, of 40%, was comfortably defensible (although we have to acknowledge that in practice some alternative use values might then have been a little higher).
- 7.14 The evidence suggests that a 15% Borough-wide target would be the highest that would be reasonable to put forward in present circumstances.
- 7.15 If, as is expected and recent hopeful signs indicate, the housing market recovers in due course, then clearly it will in time become possible to achieve a general target higher, possibly much higher, than 15%. Below (Chapter 8) we outline an approach to target setting ('Dynamic Viability') which responds to the likelihood of an eventual improvement in viability, through the use of a periodical review process employing predetermined alternative target figures.
- 7.16 Alongside such an approach, however, we would also suggest that a practical response to the appraisal analysis outlined would be the use of separate sub-targets for different parts of the Borough area.
- 7.17 The appraisal results indicate that rural sites could cope with a general target of 30%. Alongside this, if all of the urban sites are taken on their own, we take the view that a 10% target would be reasonable. It is achieved by five of the seven sites which are viable with no affordable housing.
- 7.18 Within the urban sites, the urban extension is something of a special case in policy terms. Ultimately the appropriate mix for a major urban extension such as that proposed at Burton, will be influenced by other considerations than viability, and in particular by the need to achieve a balanced and sustainable community. However, the indicative appraisal results do indicate that the development could deliver a higher proportion of affordable housing than 10%. The results suggest a figure of 15%.
- 7.19 For the remaining urban sites, our view is that a figure of 10% is still reasonable. Four of the six sites which are viable with no affordable housing, could produce 10%, and extrapolation indicates that the two remaining sites turn marginal around the 8% mark.
- 7.20 We therefore recommend that the Council considers a two tier target system, with an overall target and three sub-area targets. The targets (in March 2010 market conditions) would be as set out in Table 7.1.

| Table 7.1 Proposed affordable targets | |
|---|-----------------------------------|
| Category | Target % at March 2010 conditions |
| Overall target | 15% |
| Sub-target - Rural | 30% |
| Sub-target - Urban extension (greenfield) | 15% |
| Sub-target - Urban (brownfield) | 10% |

Source: Affordable Housing Viability Study 2010

- 7.21 Whilst the urban extension target reflects the appraisals' results for a site related to Burton, prices in Uttoxeter appear to be at least as high as in Burton. If an urban extension were to be proposed at Uttoxeter, of broadly similar scale (say 300-400 dwellings plus), giving the same ability to make its own market level, there is no reason to suppose its viability would be any less satisfactory than the Burton site. Accordingly the suggested urban extension target of 15% could reasonably be applied to a major urban extension at Uttoxeter.
- 7.22 Before moving on to outline the detail of the Dynamic Viability approach, however, we need to consider the size threshold issue.

The threshold for affordable housing

- 7.23 National planning guidance (PPS3) requires some consideration to be given to the threshold at which the affordable housing is to be applied. The Council has recognised this, and asked for guidance on the scope for reducing the size threshold from the default position of 15 dwellings, seeking advice in particular on the scope for a reduction in the rural area. In any case, given the relatively modest performance of the urban sites in the appraisals, attention essentially focuses on the scope for a reduced size threshold in the rural parts of the Borough.
- 7.24 The three smallest of the main sites in the study (with seven to ten dwellings) do potentially provide some guidance on this threshold issue. However, two of these are urban, and only the smallest site, Barton Garage, is in a rural settlement. The three additional notional sites were specifically devised to provide adequate guidance on the viability of small rural sites.
- 7.25 The table below sets out the appraisal results for the six rural sites, comparing the performance of the sites over the national default threshold with those below it.

| Table 7.2 Viability results by threshold group | | | | | |
|--|--|-------|-------|-------|-------|
| | Number of sites viable/marginal/unviable with affordable at: | | | | |
| | No aff | 10% | 20% | 30% | 40% |
| Site > 15 dwgs | 2-0-0 | 2-0-0 | 2-0-0 | 2-0-0 | 1-0-1 |
| Site < 15 dwgs | 4-0-0 | 4-0-0 | 4-0-0 | 3-0-1 | 0-2-2 |
| Total | 6-0-0 | 6-0-0 | 6-0-0 | 5-0-1 | 1-2-3 |

Source: Affordable Housing Viability Study 2010

- 7.26 Overall the small sites do almost as well in viability terms as the larger sites. Up to 20%, they perform just as well. At 30% and 40% they do only slightly worse. That is because one small site becomes marginal by 25% and unviable by 30%. This picture supports the view that, at current prices and costs, it would not be unreasonable to apply a 25% target to sites well below 15 dwellings.
- 7.27 What should the lower threshold be? Our smallest site contains four dwellings. A 25% affordable target on four dwellings provides one dwelling. We would suggest a minimum threshold of four dwellings, which with a 25% target would generate a whole affordable dwelling.

8. Dynamic Viability results

- 8.1 This chapter takes the results of the viability analysis, the first stage, and provides a basis for policy by providing deliverable affordable housing targets through the Plan period.

What Dynamic Viability does

- 8.2 The Dynamic Viability model is designed to provide robust targets at all phases of the housing market during the Plan period. This is taken to mean that the full range of possibilities must be set out to the Core Strategy Inquiry, so that its Inspector can consider and decide on the level of target setting for the whole Plan period. The target cannot be left to supplementary guidance, and the alternative would be a costly re-opening of the Core Strategy Inquiry at each change in the housing market.
- 8.3 The model begins with the viability assessment, based on the residual valuations carried out as part of the main viability study (covering a dozen or so sites characteristic of the area). In some cases the data may refer to notional sites, agreed to represent the viability situation of the local authority area.

Benchmark Site

- 8.4 The Dynamic Viability approach requires that a single benchmark site, or a synthetic site, is identified that currently reflects the affordable target level that is deliverable in that area. This site should ideally be consulted with stakeholders to ensure that so far as possible there is agreement that it is representative. The benchmark site proposed for East Staffordshire is No 6 – Urban edge brownfield. It has an alternative use value as industrial/warehousing land.

Key indexes

- 8.5 The model then takes the key factors affecting future viability and builds their future change into the model. Future change in target levels is purely dependent on published indexes. This means that the process of target setting through the Plan period is entirely transparent. The model is set up prior to the Core Strategy Inquiry, is assessed and approved in whatever form during that Inquiry, and afterwards is entirely dependent on three published indexes:
- **Price change:** We use the Halifax Price Index but others are available
 - **Building costs change:** The RICS building cost index based on tenders (BCIS) provides a general index of building costs

- **Alternative use value:** The appropriate measure would depend on the specific alternative use applying to the benchmark site but usually it is the Valuation Office Agency's Industrial Land index.

8.6 Each of the indexes is taken as a range, to produce a reasonably limited number of tabulations. The set of indices is based on the assumption that price and cost are the key changes that affect the viability of a benchmark site, and that alternative use value must be checked in case it has risen above newbuild housing value and thus limits the target in itself.

8.7 The following table, taken from Appendix 6, shows the initial values of the three indexes:

| Table 8.1 Update indices | | |
|---|--|---------------------------------------|
| Variable | Proposed index | Starting value |
| House Price Halifax House Price Index (free, monthly) | Halifax House Price Index Regional (Not Seasonally Adjusted) | West Midlands Q1 2010 = 555.7 |
| http://www.lloydsbankinggroup.com/media1/research/halifax_hpi.asp | | |
| Build cost BCIS Review Online (subscription only, monthly) | BCIS General Building Cost Index Produced by the Royal Institute of Chartered Surveyors | March 2010 = 289.8 |
| http://www.bcis.co.uk/online | | |
| Alternative use value | Property Market Report (VOA): Value of Industrial Land for Leicester | January 2010 = figure is £400k per ha |
| http://www.voa.gov.uk/publications/index.htm | | |

This table is also shown as A6.1 in the appendixes

8.8 Each of the indexes is taken as a range, to produce a reasonably limited number of tabulations. The set of indices is based on the assumption that price and cost are the key changes that affect the viability of a benchmark site, and that alternative use value must be checked in case it has moved ahead of newbuild housing value and thus limits the target in itself.

Details of the outputs

8.9 The model generates the full plausible range of target variations based on the above three indexes. The following illustration is one of a set of eight (one for each of the values for the alternative use values). In the example below it is the 'base' alternative use value. The full set of Dynamic Viability tables is presented in Appendix 6.

8.10 As will be noticed, the table below focuses upon the 15% target discussed as being deliverable in the previous chapter: the zero/zero point when looking at the percentage version of the indexes.

| | | Price Change HPI | | | | | | | | |
|------------------------|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 10% | 30% | 45% | 50% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 10% | 30% | 40% | 45% | 55% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 15% | 25% | 35% | 45% | 50% | 55% |
| | 10% | 318.8 | 0% | 0% | 0% | 15% | 25% | 35% | 40% | 45% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 15% | 25% | 35% | 40% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 5% | 15% | 25% | 30% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 5% | 15% | 25% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 15% |

Note that the table shows proposed % target for each cost/price combination, with 0% change in alternative use value. The table also provides, inside the percentages, the actual values of the indexes, so that they can be read off in future

Source: Affordable Housing Viability Study 2010

8.11 In effect, once the Core Strategy Inquiry has approved whatever the starting target is, the rest follows automatically from the index changes. There is one further point, which is that since the array of possible index changes is extremely large, when viewed as possibilities over a decade or two, the work is done in two stages:

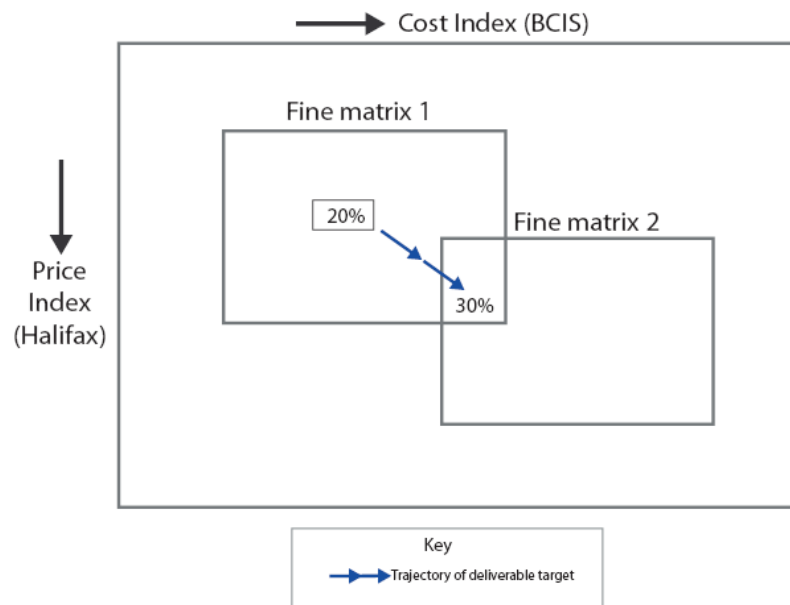
- *Coarse Matrix*: this is calculated in 10% intervals of the indexes (all three). The result provides broad coverage, but the change from one cell to another can produce large changes in targets: e.g. from 25% to 40%. But this stage provides wide coverage.
- *Fine Matrix*: This takes the area around the chosen target and uses 4% intervals in the indexes (the intervals can be varied). This produces results for the area around the chosen target that yield much smaller target changes: mostly 5% intervals and sometimes 10%.

8.12 Table 8.3 shows the Fine Matrix outputs using that relate to the Table 8.2 Coarse Matrix. Again the full set of tables will be found in Appendix 6. As will be seen from Table 8.3, the intervals in the targets around the base case of 15% are smaller than in Table 8.2. They permit more sensitive adjustments of the target as the index numbers change in future.

| Table 8.3 East Staffordshire City Fine Matrix with base alternative use value | | | | | | | | | | | |
|---|-----|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| | | Price Change HPI | | | | | | | | | |
| % | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% | |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 | |
| Cost Change BCIS Index | -8% | 266.6 | 10% | 20% | 25% | 30% | 35% | 40% | 40% | 45% | 50% |
| | -4% | 278.2 | 5% | 10% | 20% | 25% | 30% | 35% | 40% | 40% | 45% |
| | 0% | 289.8 | 0% | 5% | 15% | 20% | 25% | 30% | 35% | 35% | 40% |
| | 4% | 301.4 | 0% | 0% | 5% | 15% | 20% | 25% | 30% | 30% | 35% |
| | 8% | 313.0 | 0% | 0% | 0% | 5% | 15% | 20% | 25% | 30% | 30% |
| | 12% | 324.6 | 0% | 0% | 0% | 0% | 10% | 15% | 20% | 25% | 25% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% | 25% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |

Source: Affordable Housing Viability Study 2010

- 8.13 Figure 8.1 below shows how the close-up Fine Matrices relate to each other within the bigger Coarse Matrix. The trajectory shown in Fine Matrix 1 is from an initial deliverable target of 20%, through various changes in cost and price to a position of a 30% deliverable target in some years' time. At that point the trajectory has reached the edge of Fine Matrix 1. It is relatively simple then to reset the index base to produce Fine Matrix 2 which includes the 30% and allows for further movement to the right. If the trajectory were in any direction that took it outside Fine Matrix 1, then Fine Matrix 2 could be adjusted to include it, and show the onward trajectory, whatever that might be.
- 8.14 In order to see how the Fine Matrix relates to the Coarse, it is easiest to examine the indexes as percentages: the outside rows and columns. It will be noticed that the Fine Matrix runs from -8% to +20/24% of the initial value of the matrices. The Coarse Matrix runs from -20% to +50/60% of the value of the indices. The Fine Matrix (outlined in Table 8.3) covers around a fifth of the total area of the Coarse Matrix.
- 8.15 The practical point of the Fine Matrix can be seen in the much smaller intervals between the targets. In the Coarse Matrix outputs the intervals may be 10-15% between adjacent cells, but in the Fine Matrix the intervals are usually only 5%. Clearly the coverage and fineness of the Fine Matrix can be altered by varying the size of the steps, which is 4% of each index in the example. Hence the level of 'close-up' can be varied prior to the Core Strategy Inspector's decision.
- 8.16 It is important to emphasise that these Fine Matrices are like a 'close up' mechanism. The figures are all available from the initial Coarse Matrix and require no further policy or other judgements: they are automatically derived from the indexes. The only issue is the fineness of the intervals and the production of a manageable size of tabulation. The tabulation, of course, has to be accessible to a wide range of stakeholders and so must not be too daunting.

Figure 8.1 Coarse and Fine Matrices related

Note: This diagram is schematic and does not apply to East Staffordshire

Source: Fordham Research 2010

- 8.17 To provide further assistance in visualising how this system works, the following figure provides a mini-manual:

Figure 8.2 Updating the affordable target**Step 1**

The starting point is the Alternative Use Value Fine Matrix Table F1. Does the current value of the Alternative use index mean that another page rather than the base page should be used? If so this is the reference for the further steps.

Step 2

Using the appropriate Fine matrix table, decided by Step 1, check the changes in the HPI and the BCIS. If either or both of these has changed by more than half the interval to the next step, then the target cell will change. This may or may not involve a target change, since some of the targets will be the same in several cells.

Step 3

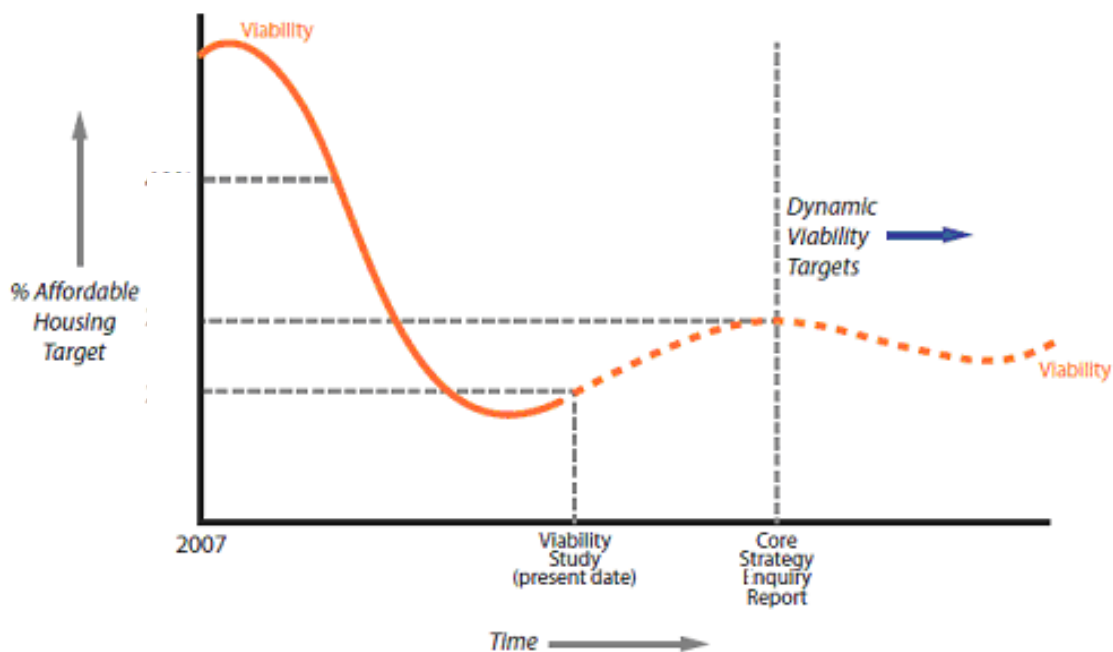
Publish the change in some suitable format such as the Annual Monitoring report.

Source: Fordham Research 2010

Implementing Dynamic Viability

- 8.18 The Viability study which is the input into Dynamic Viability is likely to be done as part of the preparation of the Core Strategy Affordable Housing Policy. There will then be a delay of months or years until the actual Inquiry. During that period there may well be changes in the market. Thus it is likely to be necessary to redo the base viability analysis at the time of the Core Strategy Inquiry to ensure that the Dynamic Viability process starts from the period of the Inquiry.
- 8.19 Since the automatic target varying procedure cannot begin until approved by the Inspector's Report, it is desirable to have it as up to date as possible. Figure 8.3 indicates this process schematically.

Figure 8.3 Implementing Dynamic Viability



Note: This diagram is schematic and does not apply to East Staffordshire

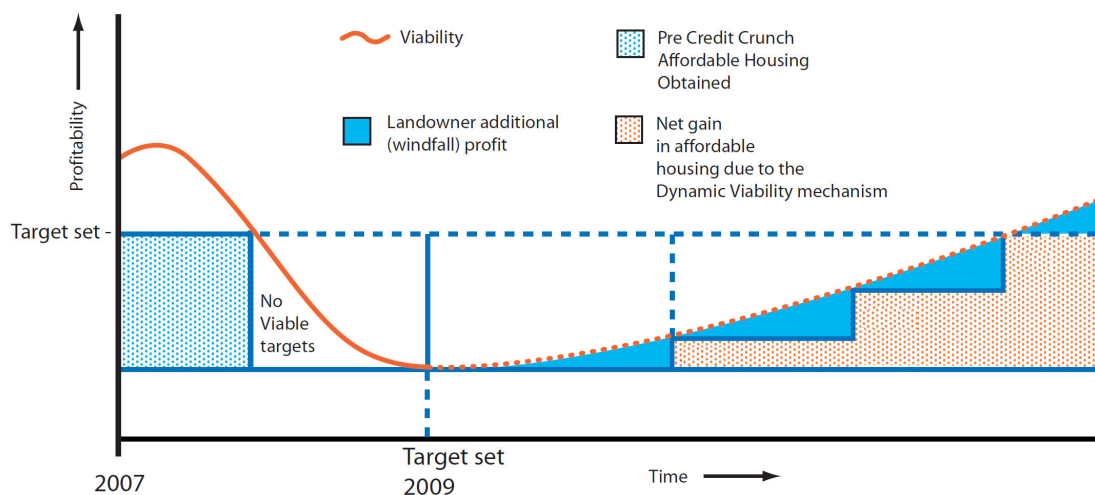
Source: Fordham Research 2010

- 8.20 The diagram illustrates the possible change in viability between the Study and Core Strategy Inquiry. After that, of course, the Dynamic Viability matrix will take account of future variations in viability. As the diagram suggests, these could be downward as well as upward. The future course of the market is uncertain.

Conclusion

- 8.21 The tables in Appendix 6 provide the detailed background to the two tables (8.2 and 8.3) presented above. Together they allow for the Core Strategy Inquiry to set the basis for deliverable affordable housing targets over the Plan period. They should achieve the practical maximum of affordable housing without prejudicing the delivery of market housing. As shown below, there will be points in the process where, if land is given planning permission, there will be a windfall land profit, and others where the enhancement of viability is largely or fully converted into an increased target.
- 8.22 For smaller developments the Dynamic Viability target current at the time of granting full permission or when reserved matters are determined rather than outline will be applicable through the development process. On larger developments, which contain more than one phase, an updating process may be inserted into the s106. This will provide an automatic updating of the affordable target (up or down). The mechanism already exists in the Planning Acts.

Figure 8.4 Gain of Affordable housing through Dynamic Viability



Note: This diagram is schematic and does not apply to East Staffordshire

Source: Fordham Research 2010

- 8.23 The 'broad-brush' viability process is therefore enhanced by Dynamic Viability. It provides a process, established in the Plan, whereby deliverable targets are adjusted to the particular future housing market situation.

9. Commuted sum payments

Introduction

- 9.1 There may be situations in which it is agreed that, whilst an affordable contribution should arise in respect of a particular development, it is appropriate that all or some of the contribution should be made off site.
- 9.2 Where this is the case and where replacement affordable units are not going to be provided by the developer on another site agreed with the Council, it will be necessary to secure the due affordable contribution in the form of a commuted payment. This chapter provides guidance on the calculation of commuted sum payments in such a situation. Commuted sums can also come into play, however, where the affordable target leads to a contribution involving a fraction of a dwelling.
- 9.3 The financial appraisal analysis discussed earlier in the Report provides a basis for calculating commuted sum payments. This methodology was discussed with the stakeholder group from the development industry and was agreed to be sensible.

Approach

- 9.4 It is sensible for all Councils to set out guidance as to how a commuted sum would be calculated - so as to provide transparency, and to avoid the undue delays that might arise during s106 negotiations if details of a payment had to be developed from first principles on each occasion. As it happens, the viability study analysis provides a basis on which it would be possible to formulate appropriate arrangements for calculating the commuted sum.

Review of Plan policy formulae

- 9.5 Some time ago we researched the nature of commuted sum formulations in then approved or emerging local planning policies. Whilst some relied on generalities, the vast majority - almost all of those we looked at - which had developed a specific formula, had used one which derived from the Housing Corporation's Total Cost Indicator (TCI) system.
- 9.6 This system was designed to provide cost discipline, so as to ensure that affordable housing was procured by Registered Social Landlords on terms which produced Value for Money for the public subsidy, Social Housing Grant (SGH), which had been the normal funding basis through which it was provided.

- 9.7 Given that this was its purpose, the TCI was extremely useful in providing a basis for calculating commuted sums. It was designed to provide cost guidance specifically related to each local Council area; contained such guidance for each of a large number of different dwelling size bands; and was updated through indexing and readjustment, each year so remained current.
- 9.8 Unfortunately the Housing Corporation replaced the TCI system with an approach which does not provide these benefits. This reflected, to some extent, the move towards a more targeted use of SHG and a greater reliance on developer subsidy. However, from the viewpoint of commuted sum formulation, the change is, in some respects, to be regretted.

Alternative approach

- 9.9 We have adopted a new approach to the calculation of the developer contribution, utilising the site viability analysis. It is based upon the contribution that the developer would have made if an on-site affordable contribution were delivered.
- 9.10 The calculation works as follows:
- i) Estimate the value of the site with 100% market housing
 - ii) Estimate the value of the site with the target level of affordable housing contribution
- 9.11 The difference between (i) and (ii) is the loss in value experienced by the developer due to the affordable housing policy contribution.
- 9.12 Taking the appraisal for site 4 as an example, the residual value with no affordable housing, i.e. 180 market dwellings, is £5,365,008. With the 10% affordable option, the residual value falls to £4,469,041.
- 9.13 The developer's contribution is £895,967; divided by 18 affordable dwellings, this gives a cost of £49,776 per affordable dwelling.
- 9.14 The results of this calculation for the full range of sites are set out in Table 9.1.

| Table 9.1 Affordable Housing Contribution: calculations | | | | | | |
|---|------------------|---------------|-----------------------|---------------------------|-----------------------|-------|
| Site | | £ RV @ no aff | £ RV 10% aff no grant | Contribution £ per aff dw | Contribution as £ per | |
| | | | | | sq ft/ | sq m |
| 1 | Burton Urb Extn | 30,917,175 | 22,341,313 | 42,900 | 44.8 | 482 |
| 2 | Village large GF | 10,538,502 | 8,384,081 | 40,400 | 42.5 | 457 |
| 3 | Large urban BF | 3,307,503 | 2,340,938 | 37,900 | 44.5 | 479 |
| 4 | Village large GF | 5,365,008 | 4,469,041 | 49,800 | 57.9 | 623 |
| 5 | Large urban BF | 1,166,176 | 681,215 | 37,900 | 43.3 | 466 |
| 6 | Urban edge BF | 2,539,452 | 1,928,564 | 57,600 | 54.3 | 584 |
| 7 | Large urban BF | 943,726 | 500,244 | 38,200 | 46.3 | 499 |
| 8 | Inner urban BF | 304,240 | 95,941 | 35,300 | 46.9 | 504 |
| 9 | Small urban BF | 713,761 | 467,860 | 35,100 | 44.8 | 482 |
| 10 | Small urban BF | 512,308 | 358,406 | 51,300 | 45.6 | 491 |
| 11 | Urban edge GF | 805,792 | 666,001 | 69,900 | 52.2 | 562 |
| 12 | Small urban BF | 272,595 | 179,764 | 46,400 | 58.6 | 631 |
| 13 | Town centre BF | -627,487 | -781,513 | 35,000 | 48.2 | 519 |
| 14 | Small urban BF | 209,356 | 160,278 | 49,100 | 53.7 | 578 |
| 15 | Small urban BF | 59,178 | 25,621 | 41,900 | 54.8 | 590 |
| 16 | Village BF | 140,538 | 104,817 | 51,000 | 65.0 | 699 |
| A | Rural 1 | 291,123 | 238,506 | 65,800 | 81.8 | 880 |
| B | Rural 2 | 250,000 | 210,251 | 66,200 | 82.3 | 886 |
| C | Rural 3 | 204,799 | 167,539 | 93,100 | 119.9 | 1,290 |
| Overall median figure | | | | 46,400 | 52.2 | 562 |

N.B. Per dwg contribution figures have been rounded to nearest £100 in each case.

Source: Affordable Housing Viability Study 2010

- 9.15 The calculated contributions in Table 9.1 vary considerably, from a minimum of £35,100 to a maximum of £93,100, with a median figure of £46,400. The figures will vary to reflect location and hence price; and of course must also vary with the average dwelling size. If we allow for this by calculating on a £ per sq ft/sq m basis the sites are fairly well clustered, with the urban sites typically £45-£55 per sq ft or £485-£590 per sq m, and the smaller rural sites from around £80 per sq ft/£860 per sq m upwards.

Proposed guidance

- 9.16 It appears that the cost of providing affordable housing varies quite substantially, and in particular between the urban and rural parts of the Borough area. It would be possible to operate a range of commuted sum figures to cover these variations in price level. Those contributing commuted sums might then - not unreasonably - expect the Council to use them to fund provision in the corresponding part of the area. Unless this is felt to be a serious difficulty, we would advocate separate sub-area figures for urban and rural sites. Based upon the median figures from the table, this would give commuted sum figures ranging from £41,900 per dwelling (urban brownfield sites) to £58,400 per dwelling (rural sites).
- 9.17 These figures are based upon market conditions as at March 2010, and require a regular updating process, which we suggest could be aligned with the market review process proposed in Chapter 8. Alternatively, at the conclusion of the study the appraisal software could be provided to the Council and training given in its operation. The Council could undertake periodic updating of the appraisal calculations, taking account of changes in costs and values, and ensuring that the commuted payments figures continue to represent the cost of providing an affordable unit off site
- 9.18 We note that a single per dwelling contribution figure (or set thereof) does not allow for wide variations in the size of the dwellings which would in practice be produced if an on site contribution was required. A solution to this would be to use the £ per sq ft/sq m figures as a basis for calculating a financial contribution from the sizes of the dwellings that would have been produced onsite (assuming that can be determined). In that case the figures would range from Urban £46.9 per sq ft/£504 per sq m to Rural £73.4 per sq ft/£790 per sq m.
- 9.19 The figures under the two approaches are set out below for the Council's consideration.

Table 9.2 Proposed commuted sum contribution figures

| Category | Per dwelling | Per unit area | |
|---------------------------------------|--------------|---------------|--------|
| | £ per dwg | £/sa ft | £/sq m |
| Rural | 58,400 | 73.4 | 790 |
| Urban (brownfield & urban extensions) | 41,900 | 46.9 | 504 |

Source: Affordable Housing Viability Study 2010

Appendices

Appendix 1 Developer contributions

A1.1 The schedule below provides details of contributions for a number of recent sites in the Borough.

| Table A1.1 Newbuild scheme details | | | | | | | | |
|------------------------------------|------------|------------------------------|-----------------|------------|---------------------------|-----------|-------|----------------|
| Site | No of dwgs | £ contribution under heading | | | | | Total | £ Per dwelling |
| | | Education | National Forest | Open space | Transport highways travel | | | |
| Dallow Bridge | 32 | 33,093 | 11,000 | 30,000 | | 74,093 | 2,315 | |
| Brabazon | 116 | 171,756 | 29,000 | 17,500 | | 218,256 | 1,882 | |
| Renold Chains | 150 | 206,264 | 39,000 | 83,288 | 53,244 | 381,796 | 2,545 | |
| JB Kinds | 151 | | 26,000 | 61,000 | 50,068 | 137,068 | 908 | |
| Barleyfields | 350 | 626,596 | | 270,110 | 153,397 | 1,050,103 | 3,000 | |
| Burton village | 201 | 129,120 | 5,000 | 44,300 | 21,580 | 200,000 | 995 | |
| Total | 1,000 | 1,166,829 | 110,000 | 506,198 | 278,289 | 2,061,316 | 2,061 | |

Source: East Staffordshire Borough Council 2010

Appendix 2 Newbuild schemes

A2.1 The schedule below provides details of a number of current newbuild developments and other comparable housing in the Borough.

Table A2.1 Newbuild scheme details

| <i>Site / location</i> | <i>Builder</i> | <i>No. of dwgs</i> | <i>Range of dwgs</i> | <i>Prices</i> |
|---|----------------|--------------------|----------------------------------|---------------|
| Glass Works Ludgate St Tutbury | Friel Homes | 9 | 2 bed coach house & 4 bed houses | £210k-£300k |
| Crystal Court Tutbury | Friel Homes | 37 | 1 & 2 bed flats | £135k-£193k |
| Peel Place Crowberry Lane Barton Under Needwood | Jack Loggin | conversion + 3 | 4 bed houses | £435k-£499k |
| Chamberlain Place Town Meadows Way Uttoxeter | Harron Homes | 54 | 2 bed flats 2-4 bed houses | £109k-£159k |
| Barleyfields Burton | Persimmon | 350 | 2 3 & 4 bed houses | £149k-£172k |
| Abbeyfields Burton | Miller Homes | 59 | 1 & 2 bed flats 2 & 3 bed houses | £87k-£157k |

Source: Local Market Survey, Fordham Research 2010

Appendix 3 House price variations

- A3.1 The indices in the table which follows compare prices in each postcode sector in the study area with an England and Wales 'average' figure – actually the median postcode value.
- A3.2 The indices are standardised, to eliminate the effect of variations in type mix; separate indices for each house type are combined with weightings based on the mix of overall sales.

Table A3.1 Price variations by postcode sector

| Postcode sector | Areas covered in sector | Q4 09 | Q2 09 | Q4 08 | Q2 08 | Ave |
|-----------------|------------------------------------|-------|-------|-------|-------|------|
| DE14 1 | Burton NE Central | 55% | 64% | 60% | 66% | 61% |
| DE14 3 | Burton South, Branston | 68% | 65% | 70% | 71% | 69% |
| DE14 2 | Burton Central | 65% | 65% | 84% | 72% | 71% |
| DE15 9 | Stapenhill [+Church Gresley] | 71% | 76% | 68% | 74% | 72% |
| DE13 0 | Stretton, Horninglow | 73% | 77% | 74% | 75% | 75% |
| ST14 7 | Uttoxeter, Kiddlestitch | 70% | 79% | 77% | 83% | 77% |
| ST14 8 | Uttoxeter Sout, Highwood | 84% | 73% | 90% | 75% | 81% |
| DE15 0 | Winshill [+Bretby] | 81% | 102% | 81% | 84% | 87% |
| ST10 4 | Church Leigh [+ Tean, Alton] | 98% | 92% | 105% | 90% | 96% |
| ST14 5 | Stramshall, Denstone | 130% | 84% | 92% | 92% | 99% |
| DE13 9 | Tutbury, Rolleston, Tatenhill | 103% | 92% | 103% | 107% | 101% |
| DE6 5 | Draycott in the Clay [+ Doveridge] | 94% | 166% | 97% | 85% | 111% |
| DE6 2 | Mayfield, [+Ilam, Gt Cubley] | 116% | 126% | 132% | 109% | 121% |
| DE13 8 | Barton u Needwood, Newborough | 129% | 118% | 125% | 112% | 121% |
| WS15 3 | Abbots Bromley [+ Hill Ridware] | 115% | 176% | 130% | 103% | 131% |

Source: Analysis of Land Registry data

Notes

1. Where a postcode sector includes areas inside and outside the Borough, the areas outside are shown in brackets
2. Data has been mix adjusted to remove differences in house type mix between postcode sectors; individual indices have been calculated for each house type, and combined using weights reflecting the nation-wide type mix. A worked example is provided below.

Table A3.2 Worked example for DE13 0 at Q4 2009

| | <i>Land Registry data Q4 2009</i> | | | | |
|--|--|-----------------|-----------------|-----------------|----------------|
| | <i>Detached</i> | <i>Semi</i> | <i>Terraced</i> | <i>Flat</i> | <i>Total</i> |
| England & Wales - median price | £269,958 | £170,072 | £148,462 | £142,624 | |
| England & Wales - no of sales | 45,878 | 56,145 | 54,995 | 33,717 | 190,735 |
| DE13 0 – ave price | 191,747 | 132,088 | 125,999 | 72,500 | |
| DE13 0 price as % E & W median value | 71.0% | 77.7% | 84.9% | 50.8% | |
| Weighted average index for DE13 0 = | $\frac{[(45878 \times 71.0\%) + (56145 \times 77.7\%) + (54995 \times 84.9\%) + (33717 \times 50.8\%)]}{190,735}$ <p style="text-align: center;">= 73.4%</p> | | | | |

Source: Analysis of Land Registry data

Appendix 4 Small plots for sale

| Table A4.1 Asking prices for building sites/plots: values | | | | | |
|---|---------|----------------------|-----------------|---------------|--------|
| Location | No dwgs | Site area acres (ha) | Asking price £K | Land value £m | |
| | | | | Per acre | Per ha |
| 137-139 Horninglow St Burton | n/a | 0.66 (0.27) | 595k | 0.902 | 2.23 |
| 25-33 Uxbridge St Burton | 8 | 0.26 (0.11) | 250k | 0.962 | 2.38 |
| Dover Rd Garage Burton | 3 | 0.28 (0.11) | 299k | 1.068 | 2.64 |

Source: Internet listings March 2010

Appendix 5 Construction cost calculation

- A5.1 The Table below shows stage by stage how unit construction cost is calculated consistent with the explanation in Chapter 5.
- A5.2 The starting point is the Fordham data base as indexed to March 2010 using BCIS General Cost Index value of 289.8 for March 2010.

| Table A5.1 Example of construction cost calculation – site B | | | |
|--|---|------------------|-------|
| | Adjustment | Build cost £ per | |
| | | Sq ft | Sq m |
| Base cost England & Wales at Mar 2010 for scheme of 0% 2 storey flats, 0% 3 storey flats, 67% 2 storey house, 33% 3 storey house | Base cost | 83.14 | 894.6 |
| Rebase to East Staffordshire | -14.0% | 71.50 | 769.3 |
| Level 3 & 10% non renewable | +£6 per sq ft/ £64.6 per sq m | 77.50 | 833.9 |
| Higher spec | +4.0% | 80.60 | 867.3 |
| Small site loading | +10.0% | 88.60 | 953.3 |
| Rounded figure | round to £0.50 per sq ft, £5.0 per sq m | 88.50 | 955 |

Source: Fordham Research data & BCIS indices

Appendix 6 Proposed benchmark appraisal

- A6.1 It is proposed that the benchmark site appraisal should be based upon an amended version of Site 6, Urban edge brownfield. The (minimal) amendment is necessary to ensure it is just viable at the proposed Borough wide target level of 15%.
- A6.2 The alternative use value for site 6 is industrial/warehousing land.
- A6.3 The periodic review would be initiated by a specifically constituted forum including stakeholders. It would involve establishing current values of the indices in the Table below. For information the table shows March 2010 'starting' values.

| Table A6.1 Indices for automatic updating of Dynamic Viability | | |
|--|--|--|
| Variable | Proposed index | Starting value |
| House Price | Halifax House Price Index Regional (Not Seasonally Adjusted) | West Midlands Q1 2010 = 555.7 |
| | Halifax House Price Index (free, monthly) http://www.lloydsbankinggroup.com/media1/research/halifax_hpi.asp | |
| Build cost | BCIS General Building Cost Index | March 2010 = 289.8 |
| | BCIS Review Online (subscription only, monthly) Produced by the Royal Institute of Chartered Surveyors http://www.bcis.co.uk/online | |
| Alternative use value | Property Market Report (VOA): Value of Industrial Land for Leicester | January 2010 = figure is £400k per ha |
| | Valuation Office Agency: Property Market Reports (free, six monthly) http://www.voa.gov.uk/publications/index.htm | |

Sources: As shown in the boxes of the table

- A6.4 The results from the sequence of appraisals are set out in the following table(s). The tables show what revised percentage target would apply to the particular price/cost/alternative use value combination.
- A6.5 The following are two sets of eight tabulations of the Coarse and Fine Matrices described in Chapter 8. They provide for the full range of possible targets and also the Alternative Use value check in 8 bands of alternative use value indexes.

East Staffordshire Benchmark Site Appraisal

Coarse Matrix

Table C1 Base Alternative Use Value: 0% Change - £150,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | |
|-------------------------------|------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| <i>Cost Change BCIS Index</i> | % | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| | -20% | 231.8 | 10% | 30% | 45% | 50% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 10% | 30% | 40% | 45% | 55% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 15% | 25% | 35% | 45% | 50% | 55% |
| | 10% | 318.8 | 0% | 0% | 0% | 15% | 25% | 35% | 40% | 45% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 15% | 25% | 35% | 40% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 5% | 15% | 25% | 30% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 5% | 15% | 25% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 15% |

Source: Affordable Housing Viability Study 2010

Table C2 Alternative Use Value: - 60% Change - £60,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | |
|-------------------------------|------|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| <i>Cost Change BCIS Index</i> | % | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| | -20% | 231.8 | 25% | 40% | 55% | 55% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 25% | 40% | 45% | 55% | 55% | 55% | 55% |
| | 0% | 289.8 | 0% | 5% | 20% | 35% | 45% | 50% | 55% | 55% |
| | 10% | 318.8 | 0% | 0% | 5% | 20% | 35% | 40% | 45% | 50% |
| | 20% | 347.8 | 0% | 0% | 0% | 10% | 20% | 30% | 40% | 45% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 10% | 20% | 30% | 35% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 10% | 20% | 30% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 15% | 20% |

Source: Affordable Housing Viability Study 2010

Table C3 Alternative Use Value: - 40% Change - £90,000 Per Acre

| | | Price Change HPI | | | | | | | | |
|------------------------|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 20% | 40% | 50% | 55% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 20% | 35% | 45% | 50% | 55% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 20% | 30% | 40% | 50% | 55% | 55% |
| | 10% | 318.8 | 0% | 0% | 5% | 20% | 30% | 40% | 45% | 50% |
| | 20% | 347.8 | 0% | 0% | 0% | 5% | 20% | 30% | 35% | 40% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 10% | 20% | 30% | 35% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 10% | 20% | 25% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 20% |

Source: Affordable Housing Viability Study 2010

Table C4 Alternative Use Value: - 20% Change - £120,000 Per Acre

| | | Price Change HPI | | | | | | | | |
|------------------------|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 15% | 35% | 45% | 55% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 15% | 30% | 40% | 50% | 55% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 15% | 30% | 40% | 45% | 50% | 55% |
| | 10% | 318.8 | 0% | 0% | 0% | 15% | 30% | 35% | 45% | 50% |
| | 20% | 347.8 | 0% | 0% | 0% | 5% | 15% | 25% | 35% | 40% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 5% | 15% | 25% | 35% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 10% | 20% | 25% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 20% |

Source: Affordable Housing Viability Study 2010

Table C5 Alternative Use Value: + 20% Change - £180,000 Per Acre

| | | Price Change HPI | | | | | | | | |
|------------------------|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 0% | 25% | 40% | 50% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 5% | 25% | 35% | 45% | 50% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 10% | 25% | 35% | 40% | 50% | 55% |
| | 10% | 318.8 | 0% | 0% | 0% | 10% | 25% | 35% | 40% | 45% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 10% | 25% | 30% | 40% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 0% | 15% | 25% | 30% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 5% | 15% | 20% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 15% |

Source: Affordable Housing Viability Study 2010

| Table C6 Alternative Use Value: + 40% Change - £210,000 Per Acre | | | | | | | | | | |
|--|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Price Change HPI | | | | | | | | |
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 0% | 20% | 35% | 45% | 55% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 5% | 20% | 35% | 45% | 50% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 5% | 20% | 30% | 40% | 45% | 55% |
| | 10% | 318.8 | 0% | 0% | 0% | 10% | 20% | 30% | 40% | 45% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 10% | 20% | 30% | 35% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 0% | 10% | 20% | 30% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 20% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 15% |

Source: Affordable Housing Viability Study 2010

| Table C7 Alternative Use Value: + 60% Change - £240,000 Per Acre | | | | | | | | | | |
|--|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Price Change HPI | | | | | | | | |
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 0% | 20% | 35% | 45% | 50% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 0% | 20% | 30% | 40% | 50% | 55% | 55% |
| | 0% | 289.8 | 0% | 0% | 5% | 20% | 30% | 40% | 45% | 55% |
| | 10% | 318.8 | 0% | 0% | 0% | 5% | 20% | 30% | 35% | 40% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 10% | 20% | 30% | 35% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 0% | 10% | 20% | 25% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 20% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 10% |

Source: Affordable Housing Viability Study 2010

| Table C8 Alternative Use Value: + 80% Change - £270,000 Per Acre | | | | | | | | | | |
|--|------|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Price Change HPI | | | | | | | | |
| % | | -20% | -10% | 0% | 10% | 20% | 30% | 40% | 50% | 60% |
| | | 444.6 | 500.1 | 555.7 | 611.3 | 666.8 | 722.4 | 778.0 | 833.6 | 889.1 |
| Cost Change BCIS Index | -20% | 231.8 | 0% | 15% | 30% | 40% | 50% | 55% | 55% | 55% |
| | -10% | 260.8 | 0% | 0% | 15% | 30% | 40% | 45% | 50% | 55% |
| | 0% | 289.8 | 0% | 0% | 0% | 15% | 30% | 35% | 45% | 50% |
| | 10% | 318.8 | 0% | 0% | 0% | 5% | 15% | 25% | 35% | 40% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 5% | 15% | 25% | 35% |
| | 30% | 376.7 | 0% | 0% | 0% | 0% | 0% | 5% | 15% | 25% |
| | 40% | 405.7 | 0% | 0% | 0% | 0% | 0% | 0% | 10% | 20% |
| | 50% | 434.7 | 0% | 0% | 0% | 0% | 0% | 0% | 0% | 10% |

Source: Affordable Housing Viability Study 2010

East Staffordshire Benchmark Site Appraisal

Fine Matrix

Table F1 Base Alternative Use Value: 0% Change - £150,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | | |
|-------------------------------|-----|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| <i>%</i> | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% | |
| <i>Cost Change BCIS Index</i> | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 | |
| | -8% | 266.6 | 10% | 20% | 25% | 30% | 35% | 40% | 40% | 45% | 50% |
| | -4% | 278.2 | 5% | 10% | 20% | 25% | 30% | 35% | 40% | 40% | 45% |
| | 0% | 289.8 | 0% | 5% | 15% | 20% | 25% | 30% | 35% | 35% | 40% |
| | 4% | 301.4 | 0% | 0% | 5% | 15% | 20% | 25% | 30% | 30% | 35% |
| | 8% | 313.0 | 0% | 0% | 0% | 5% | 15% | 20% | 25% | 30% | 30% |
| | 12% | 324.6 | 0% | 0% | 0% | 0% | 10% | 15% | 20% | 25% | 25% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% | 25% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |

Source: Affordable Housing Viability Study 2010

Table F2 Alternative Use Value: - 30% Change - £105,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | | |
|-------------------------------|-----|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|-----|
| <i>%</i> | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% | |
| <i>Cost Change BCIS Index</i> | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 | |
| | -8% | 266.6 | 15% | 25% | 30% | 35% | 40% | 45% | 45% | 50% | 50% |
| | -4% | 278.2 | 10% | 15% | 25% | 30% | 35% | 40% | 40% | 45% | 45% |
| | 0% | 289.8 | 0% | 10% | 15% | 25% | 30% | 35% | 35% | 40% | 45% |
| | 4% | 301.4 | 0% | 5% | 10% | 20% | 25% | 30% | 30% | 35% | 40% |
| | 8% | 313.0 | 0% | 0% | 5% | 10% | 20% | 25% | 25% | 30% | 35% |
| | 12% | 324.6 | 0% | 0% | 0% | 5% | 10% | 20% | 25% | 25% | 30% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 5% | 15% | 20% | 25% | 25% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 10% | 15% | 20% | 20% |

Source: Affordable Housing Viability Study 2010

Table F3 Alternative Use Value: - 20% Change - £120,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | |
|-------------------------------|-----|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 |
| <i>Cost Change BCIS Index</i> | % | | | | | | | | | |
| | -8% | 266.6 | 15% | 20% | 30% | 35% | 40% | 40% | 45% | 50% |
| | -4% | 278.2 | 10% | 15% | 20% | 30% | 30% | 35% | 40% | 45% |
| | 0% | 289.8 | 0% | 10% | 15% | 20% | 25% | 30% | 35% | 40% |
| | 4% | 301.4 | 0% | 0% | 10% | 15% | 20% | 25% | 30% | 35% |
| | 8% | 313.0 | 0% | 0% | 5% | 10% | 15% | 20% | 25% | 30% |
| | 12% | 324.6 | 0% | 0% | 0% | 5% | 10% | 15% | 20% | 25% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% |

Source: Affordable Housing Viability Study 2010

Table F4 Alternative Use Value: - 10% Change - £135,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | |
|-------------------------------|-----|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 |
| <i>Cost Change BCIS Index</i> | % | | | | | | | | | |
| | -8% | 266.6 | 15% | 20% | 25% | 30% | 35% | 40% | 45% | 50% |
| | -4% | 278.2 | 5% | 15% | 20% | 25% | 30% | 35% | 40% | 45% |
| | 0% | 289.8 | 0% | 5% | 15% | 20% | 25% | 30% | 35% | 40% |
| | 4% | 301.4 | 0% | 0% | 10% | 15% | 20% | 25% | 30% | 35% |
| | 8% | 313.0 | 0% | 0% | 0% | 10% | 15% | 20% | 25% | 30% |
| | 12% | 324.6 | 0% | 0% | 0% | 5% | 10% | 15% | 20% | 25% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% |

Source: Affordable Housing Viability Study 2010

Table F5 Alternative Use Value: + 10% Change - £165,000 Per Acre

| | | <i>Price Change HPI</i> | | | | | | | | |
|-------------------------------|-----|-------------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 |
| <i>Cost Change BCIS Index</i> | % | | | | | | | | | |
| | -8% | 266.6 | 10% | 15% | 25% | 30% | 35% | 40% | 40% | 45% |
| | -4% | 278.2 | 0% | 10% | 15% | 25% | 30% | 35% | 35% | 40% |
| | 0% | 289.8 | 0% | 5% | 10% | 15% | 25% | 30% | 30% | 35% |
| | 4% | 301.4 | 0% | 0% | 5% | 10% | 20% | 25% | 25% | 30% |
| | 8% | 313.0 | 0% | 0% | 0% | 5% | 10% | 20% | 25% | 25% |
| | 12% | 324.6 | 0% | 0% | 0% | 0% | 5% | 15% | 20% | 20% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 0% | 10% | 15% | 20% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% |

Source: Affordable Housing Viability Study 2010

Table F6 Alternative Use Value: + 20% Change - £600,000 Per Acre

| | | Price Change HPI | | | | | | | | |
|------------------------|-----|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 |
| Cost Change BCIS Index | -8% | 266.6 | 5% | 15% | 20% | 25% | 30% | 35% | 40% | 45% |
| | -4% | 278.2 | 0% | 10% | 15% | 20% | 25% | 30% | 35% | 40% |
| | 0% | 289.8 | 0% | 0% | 10% | 15% | 20% | 25% | 30% | 35% |
| | 4% | 301.4 | 0% | 0% | 5% | 10% | 15% | 20% | 25% | 30% |
| | 8% | 313.0 | 0% | 0% | 0% | 5% | 10% | 15% | 20% | 25% |
| | 12% | 324.6 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 10% |

Source: Affordable Housing Viability Study 2010

Table F7 Alternative Use Value: + 30% Change - £195,000 Per Acre

| | | Price Change HPI | | | | | | | | |
|------------------------|-----|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 |
| Cost Change BCIS Index | -8% | 266.6 | 5% | 15% | 20% | 25% | 30% | 35% | 40% | 45% |
| | -4% | 278.2 | 0% | 5% | 15% | 20% | 25% | 30% | 35% | 40% |
| | 0% | 289.8 | 0% | 0% | 10% | 15% | 20% | 25% | 30% | 35% |
| | 4% | 301.4 | 0% | 0% | 0% | 10% | 15% | 20% | 25% | 30% |
| | 8% | 313.0 | 0% | 0% | 0% | 5% | 10% | 15% | 20% | 25% |
| | 12% | 324.6 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 10% |

Source: Affordable Housing Viability Study 2010

Table F8 Alternative Use Value: + 40% Change - £210,000 Per Acre

| | | Price Change HPI | | | | | | | | |
|------------------------|-----|------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| % | | -8% | -4% | 0% | 4% | 8% | 12% | 16% | 20% | 24% |
| | | 511.2 | 533.5 | 555.7 | 577.9 | 600.2 | 622.4 | 644.6 | 666.8 | 689.1 |
| Cost Change BCIS Index | -8% | 266.6 | 5% | 10% | 20% | 25% | 30% | 35% | 35% | 40% |
| | -4% | 278.2 | 0% | 5% | 10% | 20% | 25% | 30% | 35% | 35% |
| | 0% | 289.8 | 0% | 0% | 5% | 15% | 20% | 25% | 30% | 30% |
| | 4% | 301.4 | 0% | 0% | 0% | 5% | 15% | 20% | 25% | 30% |
| | 8% | 313.0 | 0% | 0% | 0% | 0% | 10% | 15% | 20% | 25% |
| | 12% | 324.6 | 0% | 0% | 0% | 0% | 5% | 10% | 15% | 20% |
| | 16% | 336.2 | 0% | 0% | 0% | 0% | 0% | 5% | 10% | 15% |
| | 20% | 347.8 | 0% | 0% | 0% | 0% | 0% | 0% | 5% | 10% |

Source: Affordable Housing Viability Study 2010

Appendix 7 Financial appraisal summaries

- A7.1 The development viability **summaries** contained in the following pages set out the assumptions and outputs of the viability appraisals for a 10% affordable scenario.

SITE 1: Burton Urban Extension

| Input assumptions | | Scenario & option | | Affordable 10% = 70% social rented 30% intermediate | | | | | | | | | | | | | |
|--|-----------------|--------------------------|--------------------|---|---------|------------|--------|-----------------------------|-----------|---------------------------|-----------|----------------------|-------|---------------|-------|-----------------------|--------------|
| East Staffs Viability | | | | | | | | | | | | | | | | | |
| Site details | | 1 Urban Extension | | | | | | | | | | | | | | | |
| Site | | Urban | | | | | | | | | | | | | | | |
| Location | | 75.00 | | | | | | | | | | | | | | | |
| Area | ha | 185.33 | | | | | | | | | | | | | | | |
| No dwgs | | 2000 | | | | | | | | | | | | | | | |
| Density dw/ha | | 26.7 | | | | | | | | | | | | | | | |
| Contingency | allowance | 2.50% | £k | | | | | | | | | | | | | | |
| | | | 3,876 | | | | | | | | | | | | | | |
| Development costs | | | | | | | | | | | | | | | | | |
| standard % build | | 23.50% | 37,342 | | | | | | | | | | | | | | |
| plus abnormalities | | 0.9% | 1,395 | | | | | | | | | | | | | | |
| Total | | 24% | | | | | | | | | | | | | | | |
| Design fees | on build costs | 10.0% | 15,890 | | | | | | | | | | | | | | |
| | on dev costs | 8% | | | | | | | | | | | | | | | |
| Planning gain & Grant contributions | PG £ per dwg | 3,000 | 6,000 | | | | | | | | | | | | | | |
| | Grant £ per dwg | 0 | 0 | | | | | | | | | | | | | | |
| PG ALL | | | | | | | | | | | | | | | | | |
| Dwellings | | | | | | | | | | | | | | | | | |
| Market housing | | 1,800.0 | | % of dwgs | 90.00% | % of units | 90.00% | ave floor space gross sq ft | 975 | ave floor space net sq ft | 958 | build cost per sq ft | 79.50 | build index = | 1.000 | sales value per sq ft | 180.00 |
| Affordable soc rent | | 140.0 | | % of dwgs | 7.00% | % of units | 7.0% | ave floor space gross sq ft | 975 | ave floor space net sq ft | 958 | build cost per sq ft | 79.50 | build index = | 79.50 | sales value per sq ft | 76.00 |
| Affordable sh oship | | 60.0 | | % of dwgs | 3.00% | % of units | 3.0% | ave floor space gross sq ft | 975 | ave floor space net sq ft | 958 | build cost per sq ft | 79.50 | build index = | 79.50 | sales value per sq ft | 126.00 |
| Total dwgs | | 2,000.0 | | % of dwgs | 100.00% | % of units | 100.0% | ave floor space gross sq ft | 0 | ave floor space net sq ft | 0 | build cost per sq ft | 0.00 | build index = | 0.00 | sales value per sq ft | 0.00 |
| | | | | % of dwgs | 0.0% | % of units | 0.0% | ave floor space gross sq ft | 0 | ave floor space net sq ft | 0 | build cost per sq ft | 0.00 | build index = | 0.00 | sales value per sq ft | 0.00 |
| Total units | | 2,000.0 | | % of dwgs | 100.0% | % of units | 100.0% | ave floor space gross sq ft | 1,950,000 | ave floor space net sq ft | 1,916,000 | build cost per sq ft | 79.50 | build index = | 79.50 | sales value per sq ft | £327,827,600 |
| Floorspace density | | = 10,339 | net sq ft per acre | | | | | | | | | | | | | | |
| Other costs | | | | | | | | | | | | | | | | | |
| Planning | | 586.4 | £ per dwelling | | | | | | | | | | | | | | |
| Survey | | 200 | £ per dwelling | | | | | | | | | | | | | | |
| Marketing | | 0 | £ per dwelling | | | | | | | | | | | | | | |
| Interest | % per annum | 7.50% | | | | | | | | | | | | | | | |
| Notes | | | | | | | | | | | | | | | | | |

SITE 1 LAND COST & PHASING

| | | | | |
|-----------------------------|--|----------------------|------------------|------------------|
| Land | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable |
| RV per acre | £ 22,341,313 | £ 30,900,246 | £ 297,884 | £ 412,003 |
| Dev profit | £ 53,497,702 | £ 57,507,781 | | |
| Total costs | £ 274,332,298 | £ 287,374,619 | | |
| profit as % of costs | 19.50% | 20.01% | | |

| Programme | Year 1 | | | | Year 2 | | | | Years 3-6 | | | | Year 7 | | | | Year 8 | | | | TOTALS | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|--------|----|----|----|--------|----|----|----|-----------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|---------|-------|------|-----|-------|-----|----|---|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | | | | | | | | | | | | | | | | | | | | |
| Units started | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 25 | 55 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 80 | 1,800.0 | 140.0 | 60.0 | 0.0 | | | | |
| Units 'built' | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| +2Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units completed | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| +3Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units purchased | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| +4Q | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 23 | 50 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 72 | 1,800 | 140 | 60 | 0 |

SITE 2: Village large greenfield

Input assumptions | Scenario & option | Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

Site details
 Site Location: **2 Large greenfield Village**
 Area: 15.24 ha, 37.66 acres
 No dwgs: 500
 Density dw/ha: 32.8

Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 893 | 875 | 79.50 | 1.000 | 184.00 |
| Affordable soc rent | 893 | 875 | 79.50 | 79.50 | 76.00 |
| Affordable sh oship | 893 | 875 | 79.50 | 79.50 | 126.00 |

| Total dwgs | % of dwgs | % of units | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|-------------|-----------|------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| 500.0 | 100.00% | 100.00% | 893 | 875 | 79.50 | 79.50 | 184.00 |
| | | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Total units | 500.0 | 100.0% | 446,500 | 437,500 | | | £35,496,750 |

Floorspace density = 11,618 net sq ft per acre

Other costs

| | | |
|----------------------|----------------|-------|
| Planning | £ per dwelling | 560.5 |
| Survey | £ per dwelling | 200 |
| Marketing | £ per dwelling | 0 |
| Interest % per annum | | 7.50% |

Notes

£k

Contingency allowance 2.50% 887

Development costs standard % build 17.50% 6,367

plus abnormal 0.0% 0

Total 18%

Design fees on build costs 10.0% 3,638

on dev costs 8%

Planning gain & Grant contributions PG £ per dwg 1,500

Grant £ per dwg 0

PG ALL

SITE 2 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | Year 5 | | | | Year 6 | | | | Year 7 | | | | TOTALS | | | | |
|-------------------------------------|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 3,623 | 72,450 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 116 | 2,328 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 3,194 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,065 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -129 | -2,572 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 3,822 | 76,431 |
| COSTS | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Land | | 8,384 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 8,384 |
| Land acquisition | | 335 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 335 |
| Stamp duty | | 231 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | 231 |
| Purchase fees | | 0 | | | | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 6,387 |
| Market housing | | 0 | 0 | 0 | 0 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 4,988 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 2,485 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 2.5% | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Dev costs | | 796 | 796 | 796 | 796 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 3,184 |
| Build related | 8.8% | 0 | 0 | 0 | 0 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 159 | 634 |
| Abnormals | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 736 |
| Fees on build costs | 10.0% | 0 | 0 | 0 | 0 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 256 |
| Fees on dev costs | 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 |
| Planning | | 0 | 0 | 0 | 0 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 300 |
| Marketing gain | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grant | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | | 561 | 93 | | | 93 | 93 | | | 93 | 93 | | | 93 | 93 | | | 93 | 93 | | | 93 | 93 | | | 93 | 93 | | | 93 | 93 | | | 369 |
| Survey | E200 | 100 | | | | 0 | 0 | 0 | 0 | 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 |
| Marketing | £0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 10,003 | 953 | 1,200 | 1,106 | 2,248 | 2,248 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 9,506 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| £forward from above | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total costs | | 10,003 | 953 | 1,200 | 1,106 | 2,248 | 2,248 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 2,377 | 60,302 |
| Net profit/loss from quarter | | -10,003 | -953 | -1,200 | -1,106 | -2,248 | -2,248 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -1,445 | -16,130 |
| Profit/loss bt from last quarter | | 0 | -10,190 | -11,352 | -12,788 | -14,154 | -16,710 | -19,313 | -18,203 | -17,073 | -15,921 | -14,747 | -13,552 | -12,334 | -11,089 | -9,829 | -8,541 | -7,229 | -5,882 | -4,531 | -3,144 | -1,731 | -291 | 1,176 | 2,921 | 4,700 | 8,550 | 12,473 | 12,473 | 12,473 | 12,473 | 12,473 | 12,473 | |
| Cumulative profit/loss | | -10,003 | -11,143 | -12,552 | -13,894 | -16,402 | -18,958 | -21,888 | -21,077 | -16,759 | -15,628 | -14,476 | -13,302 | -12,107 | -10,889 | -9,648 | -8,384 | -7,086 | -5,784 | -4,448 | -3,086 | -1,699 | -286 | 1,154 | 2,867 | 4,613 | 8,393 | 12,243 | 12,473 | 12,473 | 12,473 | 12,473 | 12,473 | |
| Interest | | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% |
| Total | | -188 | -209 | -235 | -261 | -308 | -355 | -314 | -314 | -293 | -271 | -249 | -227 | -204 | -181 | -157 | -133 | -108 | -83 | -58 | -32 | -5 | 22 | 54 | 86 | 157 | 230 | 0 | 0 | 0 | 0 | 0 | 0 | -3,659 |
| Cumulative developer profit | | -10,190 | -11,352 | -12,788 | -14,154 | -16,710 | -19,313 | -21,888 | -21,073 | -15,921 | -14,747 | -13,552 | -12,334 | -11,083 | -9,829 | -8,541 | -7,229 | -5,882 | -4,531 | -3,144 | -1,731 | -291 | 1,176 | 2,921 | 4,700 | 8,550 | 12,473 | 12,473 | 12,473 | 12,473 | 12,473 | 12,473 | 12,473 | |
| carried forward to RV calc | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

SITE 3: Large urban brownfield

Input assumptions Scenario & option Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

| | |
|---------------------|--------------------|
| Site details | |
| Site | 3 Large brownfield |
| Location | Urban |
| Area | 4.46 ha |
| | 11.02 acres |
| No dwgs | 255 |
| Density dw/ha | 57.2 |

Contingency allowance 5.00% 906 £k

Development costs standard % build 11.50% 2,187

plus abnormal 1.0% 191

Total 13%

Design fees on build costs 10.0% 1,902

on dev costs 8%

Planning gain & Grant contributions PG £ per dwg 3,000 765

Grant £ per dwg 0

PG ALL

Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 877 | 852 | 81.00 | 1,000 | 170.00 |
| Affordable soc rent | 877 | 852 | 81.00 | 81.00 | 76.00 |
| Affordable sh oship | 877 | 852 | 81.00 | 81.00 | 118.00 |
| Total dwgs | 255.0 | 100.00% | 100.0% | 100.0% | |
| | | | 0.0% | 0.00 | 0.00 |
| | | | 0.0% | 0.00 | 0.00 |
| Total units | 255.0 | 100.0% | 217,260 | £18,114,435 | £35,165,704 |

Floorspace density = 19,714 net sq ft per acre

Other costs Planning 527.4 £ per dwelling

Survey 500 £ per dwelling

Marketing 0 £ per dwelling

Interest 7.50% % per annum

Notes

SITE 3 LAND COST & PHASING

| Programme | Land | | | | | | | | | | | | TOTALS | | | | |
|---------------------|---------------------------------|--------|------|------|--------|------|---------------|--------|------|------|--------|------|--------|--------|-----|-----|-------|
| | Iterate to achieve 20.0% profit | | | | | | | | | | | | | | | | |
| | Affordable | | | | | | No affordable | | | | | | | | | | |
| | £ 2,340,938 | | | | | | £ 3,307,496 | | | | | | | | | | |
| | £ 212,414 | | | | | | £ 300,118 | | | | | | | | | | |
| | £ 5,738,583 | | | | | | £ 6,156,930 | | | | | | | | | | |
| | £ 29,428,546 | | | | | | £ 30,778,695 | | | | | | | | | | |
| | 19.50% | | | | | | 20.00% | | | | | | | | | | |
| | Hectare | | | | | | | | | | | | | | | | |
| | Affordable | | | | | | No affordable | | | | | | | | | | |
| | £524,874 | | | | | | £741,591 | | | | | | | | | | |
| Units started | Year 1 | Year 2 | | | Year 3 | | | Year 4 | | | Year 5 | | | TOTALS | | | |
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| Market housing | 0 | 0 | 13.5 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 18.0 | 0.0 | 0.0 | 0.0 | 0.0 | 229.5 |
| Affordable soc rent | | | 1.1 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 1.4 | 0.0 | 0.0 | 0.0 | 0.0 | 17.9 |
| Affordable sh oship | | | 0.5 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 7.6 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 15 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 255.0 |
| Units 'built' | | | | | | | | | | | | | | | | | |
| Market housing | | 14 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 230 |
| Affordable soc rent | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 |
| Affordable sh oship | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 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 |
| Units completed | | | | | | | | | | | | | | | | | |
| Market housing | | 14 | 14 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 230 |
| Affordable soc rent | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| Units purchased | | | | | | | | | | | | | | | | | |
| Market housing | | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 18 | 230 |
| Affordable soc rent | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 18 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SITE 4: Village large greenfield

Scenario & option: Affordable 10% = 70% social rented 30% intermediate

Input assumptions

East Staffs Viability

Site details
 Site Location: 4. Large greenfield Village
 Area: 5.14 ha, 12.70 acres
 No dwgs: 180
 Density dw/ha: 35.0

Contingency allowance 2.50%
 £k 303

Development costs standard % build 16.00%
 1,990
 plus abnormalities 0.0%
 0
 Total 16%

Design fees on build costs 10.0%
 1,244
 on dev costs 8%

Planning gain & Grant contributions
 PG £ per dwg 3,000 540
 Grant £ per dwg 0 0

PG ALL

Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 870 | 860 | 77.50 | 1.000 | 194.00 |
| Affordable soc rent | 870 | 860 | 77.50 | 77.50 | 75.00 |
| Affordable sh oship | 870 | 860 | 77.50 | 77.50 | 125.00 |

| Total dwgs | % of dwgs | % of units | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|-------------|-----------|------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| 180.0 | 100.00% | 100.00% | 870 | 860 | 77.50 | 77.50 | 194.00 |
| | | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| Total units | 180.0 | 100.0% | 156,600 | 154,800 | | | £12,136,500 |

Floorspace density = 12,188 net sq ft per acre

Other costs

| | | |
|----------------------|----------------|-------|
| Planning | £ per dwelling | 499.2 |
| Survey | £ per dwelling | 200 |
| Marketing | £ per dwelling | 0 |
| Interest % per annum | | 7.50% |

Notes

SITE 4 LAND COST & PHASING

| Programme | Year 1 | | | | | | | | | | | | Year 2 | | | | | | | | | | | | Year 3 | | | | | | | | | | | | Year 4 | | | | | | | | | | | | Year 5 | | | | | | | | | | | | TOTALS |
|---------------------|---------------|----------------|---------------------|---------------------|------|---------------|----------------|---------------------|---------------------|------|---------------|----------------|---------------------|---------------------|------|---------------|----------------|---------------------|---------------------|------|---------------|----------------|---------------------|---------------------|--------|---------------|----------------|---------------------|---------------------|------|---------------|----------------|---------------------|---------------------|------|---------------|----------------|---------------------|---------------------|------|-------|---|---|---|-------|--|--|--|--------|--|--|--|--|--|--|--|--|--|--|--|--------|
| | Q1 | | | | Q2 | | | | Q3 | | | | Q4 | | | | Q1 | | | | Q2 | | | | Q3 | | | | Q4 | | | | Q1 | | | | Q2 | | | | Q3 | | | | Q4 | | | | | | | | | | | | | | | | |
| | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | Units started | Market housing | Affordable soc rent | Affordable sh oship | 0 | | | | | | | | | | | | | | | | | | | | | |
| Units started | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 162.0 | | | | | | | | | | | | | | | | |
| Market housing | 3.6 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 | 162.0 | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0.3 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 12.6 | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | 0.1 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 5.4 | | | | | | | | | | | | | | | | | | | | |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | | | | | | | |
| 0 | 4 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 180.0 | | | | | | | | | | | | | | | | | | | | |
| Units 'built' +2Q | 4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 162 | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| Units completed +3Q | 4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 162 | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| 0 | 4 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 162 | | | | | | | | | | | | | | | | | | | | |
| Units purchased +4Q | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |
| 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | | | | | | | | | | | | | | | | | | | | |

Iterate to achieve 20.0% profit

Hectare

Affordable No affordable Affordable No affordable

£ **4,469,041**

No affordable **5,364,008**

£ **351,867**

422,332

£ **869,463**

£ **1,043,581**

£ **4,637,672**

5,006,770

£ **23,784,958**

25,025,780

19.50%

20.01%

SITE 4 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | Year 5 | | | | TOTALS | | | |
|---------------------|------|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|---|---|---|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | |
| INCOME | | | | | | | | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | | | | | | | |
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SITE 5: Large urban brownfield

Input assumptions Scenario & option Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

| | |
|---------------------|---------------------|
| Site details | |
| Site | 5. Large brownfield |
| Location | Urban |
| Area | 3.20 ha |
| | 7.91 acres |
| No dwgs | 128 |
| Density dw/ha | 40.0 |

Contingency
allowance 5.00%
£k 454

Development costs
standard % build 13.50% 1,287
plus abnormalities 5.1% 484
Total 19%

Design fees
on build costs 10.0% 954
on dev costs 8%

Planning gain & Grant contributions
PG £ per dwg 3,000 384
Grant £ per dwg 0 0

PG ALL

Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 887 | 875 | 80.00 | 1,000 | 167.00 |
| Affordable soc rent | 887 | 875 | 80.00 | 80.00 | 75.00 |
| Affordable sh oship | 887 | 875 | 80.00 | 80.00 | 118.00 |
| Total dwgs | | | | | |
| | | | | | |
| | | | | | |
| Total units | | | | | |
| | | | | | |
| | | | | | |

Floorspace density = 14,164 net sq ft per acre

Other costs

Planning 460.2 £ per dwelling

Survey 500 £ per dwelling

Marketing 0 £ per dwelling

Interest 7.50%
% per annum

Notes

SITE 5 LAND COST & PHASING

| | | | | | |
|-----------------------------|---------------|--|------------|----------------|---------------|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable | No affordable |
| RV per acre | £ 681,215 | £ 1,166,236 | £ 212,880 | £ 364,449 | |
| Dev profit | £ 2,907,481 | £ 3,117,848 | | | |
| Total costs | £ 14,911,799 | £ 15,587,352 | | | |
| profit as % of costs | 19.50% | 20.00% | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | | | |
|----------------------------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----------|----------|----------|--------------|---|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | | |
| Units started | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 7.2 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 0.0 | 0.0 | 0.0 | 115.2 | |
| Affordable soc rent | | | 0.0 | 0.6 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 1.1 | 0.0 | 0.0 | 0.0 | 9.0 | |
| Affordable sh oship | | | 0.0 | 0.2 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 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 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | |
| TOTAL | 0 | 0 | 0 | 8 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 128.0 | |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 7 | 0 | 7 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 115 | |
| Affordable soc rent | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| Affordable sh oship | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 7 | 0 | 7 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 115 | |
| Affordable soc rent | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| Affordable sh oship | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 7 | 0 | 7 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 115 | |
| Affordable soc rent | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 9 |
| Affordable sh oship | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SITE 5 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|--|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,973 | 1,973 | 1,973 | 1,973 | 1,973 | 1,973 | 1,973 | 1,973 | 16,834 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 69 | 588 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 396 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -37 | -70 | -70 | -70 | -70 | -70 | -70 | -70 | -70 | -598 |
| Total income | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,114 | 2,088 | 2,088 | 2,088 | 2,088 | 2,088 | 2,088 | 2,088 | 2,088 | 17,818 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 681 | | | | | | | | | | | | | | | | 681 |
| Land acquisition | | 27 | | | | | | | | | | | | | | | | 27 |
| Stamp duty | | 19 | | | | | | | | | | | | | | | | 19 |
| Purchase fees | | 0 | | | | | | | | | | | | | | | | 0 |
| Total | | 0 | 0 | 0 | 0 | 511 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 958 | 727 |
| Build costs | | 0 | 0 | 0 | 0 | 0 | 40 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 8,175 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 636 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 17 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 272 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 28 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 454 |
| Total | | 161 | 161 | 161 | 161 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 9,537 |
| Dev costs | | 0 | 0 | 0 | 40 | | | | | | | | | | | | | 644 |
| Upfront | 6.8% | 0 | 0 | 0 | 40 | | | | | | | | | | | | | 644 |
| Build related | 6.8% | 242 | 242 | | | | | | | | | | | | | | | 484 |
| Abnormals | 5% | 0 | 0 | 0 | 0 | | | | | | | | | | | | | 1,771 |
| Total | | 0 | 0 | 0 | 0 | 60 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 112 | 954 |
| Fees on build costs | 10.0% | 32 | 32 | 13 | 16 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 6 | 142 |
| Fees on dev costs | 8.0% | 0 | 0 | 0 | 0 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 1,095 |
| Total | | 20 | 20 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 384 |
| PG | | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Planning gain | | 64 | | | | | | | | | | | | | | | | 59 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 64 |
| Grant | | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 123 |
| Grant | £460 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | £500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Survey | £0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Marketing | | 1,246 | 455 | 193 | 241 | 126 | 782 | 1,356 | 1,393 | 1,426 | 1,426 | 1,426 | 1,426 | 1,299 | 1,299 | 70 | 70 | 598 |
| Total | | -1,246 | -455 | -193 | -241 | -126 | -782 | -1,356 | -280 | 662 | 662 | 662 | 662 | 789 | 789 | 2,018 | 2,018 | 3,562 |
| Sales fees b/forward from above | | 0 | -1,269 | -1,756 | -1,986 | -2,269 | -2,440 | -3,282 | -4,725 | -5,099 | -4,520 | -3,930 | -3,329 | -2,717 | -1,964 | -1,198 | 836 | |
| Total costs | | -1,246 | -455 | -193 | -241 | -126 | -782 | -1,356 | -280 | 662 | 662 | 662 | 662 | 789 | 789 | 2,018 | 2,018 | 3,562 |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | |
| Profit/loss b/ from last quarter | | 0 | -1,269 | -1,756 | -1,986 | -2,269 | -2,440 | -3,282 | -4,725 | -5,099 | -4,520 | -3,930 | -3,329 | -2,717 | -1,964 | -1,198 | 836 | |
| Cumulative profit/loss | | -1,246 | -1,724 | -1,949 | -2,227 | -2,395 | -3,222 | -4,638 | -5,005 | -4,437 | -3,857 | -3,268 | -2,667 | -1,928 | -1,176 | 820 | 2,854 | |
| Interest | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | |
| Charged at | | -23 | -32 | -37 | -42 | -45 | -60 | -87 | -94 | -83 | -72 | -61 | -50 | -36 | -22 | 15 | 54 | |
| Total | | -1,269 | -1,756 | -1,986 | -2,269 | -2,440 | -3,282 | -4,725 | -5,099 | -4,520 | -3,930 | -3,329 | -2,717 | -1,964 | -1,198 | 836 | 2,907 | |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | -676 |
| | | | | | | | | | | | | | | | | | | 2,906 |

SITE 6: Urban edge brownfield

| Input assumptions | | Scenario & option | |
|--|---------------------------------|---|-------------|
| East Staffs Viability | | Affordable 10% = 70% social rented 30% intermediate | |
| Site details | | | |
| Site | 6. Urban edge brownfield | | |
| Location | Urban | | |
| Area | 3.42 ha | | |
| | 8.45 acres | | |
| No dwgs | 106 | | |
| Density dw/ha | 31.0 | | |
| Contingency | allowance 5.00% | £k | 475 |
| Development costs | standard % build 14.50% | | 1,446 |
| | plus abnormals 0.8% | | 75 |
| Total | 15% | | |
| Design fees | on build costs 10.0% | | 997 |
| | on dev costs 8% | | |
| Planning gain & Grant contributions | PG £ per dwg 3,000 | | 318 |
| | Grant £ per dwg 0 | | 0 |
| PG ALL | | | |
| Dwellings | | | |
| Market housing | 95.4 | % of dwgs 90.00% | 90.00% |
| Affordable soc rent | 7.4 | % of units 7.00% | 7.0% |
| Affordable sh oship | 3.2 | 3.00% | 3.0% |
| Total dwgs | 106.0 | 100.00% | 100.0% |
| | | % of units 0.0% | 0.0% |
| | | % of units 0.0% | 0.0% |
| Total units | 106.0 | 100.0% | 100.0% |
| Floorspace density | = 13,308 net sq ft per acre | | |
| Other costs | | | |
| Planning | 432.3 | £ per dwelling | |
| Survey | 500 | £ per dwelling | |
| Marketing | 0 | £ per dwelling | |
| Interest | 7.50% | % per annum | |
| ave floor space | | | |
| gross sq ft | 1,073 | net sq ft | 1,061 |
| build cost per sq ft | 83.50 | 0.0% | |
| build index = | 83.50 | 1.000 | |
| sales value per sq ft | 186.00 | 83.50 | |
| | | 83.50 | |
| | | 0.0% | |
| | | 83.50 | |
| | | 83.50 | |
| | | 113,738 | 112,466 |
| | | 0 | 0 |
| | | 0 | 0 |
| | | £9,497,123 | £19,839,002 |
| Notes | | | |

SITE 6 LAND COST & PHASING

| | | | | | |
|-----------------------------|---------------|--|------------|----------------|--|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable | |
| RV per acre | £ 1,928,564 | £ 2,539,452 | £ 563,908 | £ 742,530 | |
| Dev profit | £ 3,237,169 | £ 3,486,983 | | | |
| Total costs | £ 16,602,883 | £ 17,432,743 | | | |
| profit as % of costs | 19.50% | 20.00% | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|--------------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | |
| Units started | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Affordable soc rent | | | | | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 | 13.5 |
| Affordable sh oship | | | | | 0.9 | 0.1 | 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0 | | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 106.0 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Affordable soc rent | | | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable soc rent | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| Affordable soc rent | | | | | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTALS | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 |

SITE 6 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|--|-------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|---------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | | | | | | | | | | | | | | | | | |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 178 | 2,664 | 2,664 | 2,664 | 2,664 | 2,664 | 2,664 | 2,664 | 2,664 | 0 | 18,827 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 84 | 0 | 590 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 60 | 0 | 422 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -6 | -95 | -95 | -95 | -95 | -95 | -95 | -95 | -95 | 0 | -668 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 187 | 2,807 | 2,807 | 2,807 | 2,807 | 2,807 | 2,807 | 2,807 | 2,807 | 0 | 19,839 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 1,929 | | | | | | | | | | | | | | | | 1,929 |
| Stamp duty | | 77 | | | | | | | | | | | | | | | | 77 |
| Purchase fees | | 53 | | | | | | | | | | | | | | | | 53 |
| Total | | 2,059 | | | | | | | | | | | | | | | | 2,059 |
| Build costs | | 0 | 0 | 0 | 0 | 81 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 1,210 | 0 | 0 |
| Market housing | | 0 | 0 | 0 | 0 | 6 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | 0 | 0 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 3 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 40 | 0 | 0 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 4 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 67 | 0 | 475 |
| Total | | 181 | 181 | 181 | 181 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 102 | 0 | 723 |
| Uplift | 7.3% | 0 | 0 | 7 | 102 | | | | | | | | | | | | | 723 |
| Build related | 7.3% | 0 | 0 | 7 | 102 | | | | | | | | | | | | | 723 |
| Abnormals | 1% | 37 | 37 | | | | | | | | | | | | | | | 75 |
| Total | | 37 | 37 | | | | | | | | | | | | | | | 1,521 |
| Fees on build costs | 10.0% | 0 | 0 | 0 | 0 | 9 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 141 | 0 | 997 |
| Fees on dev costs | 8.0% | 17 | 17 | 15 | 23 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 122 |
| Total | | 17 | 17 | 15 | 23 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 0 | 1,119 |
| PG | | | | 3 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 0 | 318 |
| Planning gain | | | | 3 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 0 | 318 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 318 |
| Grant | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grant | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 46 |
| Planning | £432 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Survey | £500 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Marketing | £0 | 15 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 99 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 668 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 0 | 668 |
| b/forward from above | | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 95 | 0 | 668 |
| Total costs | | 2,363 | 251 | 221 | 351 | 259 | 1,708 | 1,714 | 1,802 | 1,802 | 1,647 | 1,647 | 1,647 | 1,802 | 1,802 | 1,647 | 0 | 15,755 |
| Net profit/loss from quarter | | -2,363 | -251 | -221 | -351 | -259 | -1,708 | -1,527 | 1,005 | 1,005 | 1,161 | 1,161 | 1,161 | 1,005 | 2,713 | 2,713 | 0 | 4,084 |
| Profit/loss bf from last quarter | | 0 | -2,407 | -2,707 | -2,983 | -3,396 | -3,724 | -5,533 | -7,192 | -6,303 | -4,474 | -3,376 | -3,237 | -2,257 | 465 | 3,237 | 3,237 | 0 |
| Cumulative profit/loss | | -2,363 | -2,668 | -2,928 | -3,334 | -3,655 | -5,431 | -7,060 | -6,187 | -5,298 | -4,392 | -3,314 | -2,215 | -1,116 | 465 | 3,178 | 3,237 | 0 |
| Interest | 7.50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 7,50% | 0.00% | 0.00% |
| Charged at | | 44 | -50 | -55 | -63 | -69 | -102 | -132 | -116 | -99 | -82 | -62 | -42 | 9 | 60 | 0 | 0 | 0 |
| Total | | -2,407 | -2,707 | -2,983 | -3,396 | -3,724 | -5,533 | -7,192 | -6,303 | -5,397 | -4,474 | -3,376 | -2,257 | -1,116 | 465 | 3,237 | 3,237 | -848 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | 3,236 |

SITE 7: Large urban brownfield

Input assumptions **Scenario & option** Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

| Site details | | Dwellings | | | ave floor space | | build cost | | build index = | | sales value | |
|---------------------|----------|-----------|------|-------|-----------------|---------------------|---------------------|-------------|---------------|-----------|-------------|-----------|
| Site | Location | Area | ha | acres | Market housing | Affordable soc rent | Affordable sh oship | gross sq ft | net sq ft | per sq ft | per sq ft | per sq ft |
| 7. Large brownfield | Urban | 2.35 | 5.81 | | 104.4 | 8.1 | 3.5 | 852 | 825 | 83.00 | 83.00 | 171.00 |
| No dwgs | | 116 | 49.4 | | | | | 852 | 825 | 83.00 | 83.00 | 76.00 |
| Density dw/ha | | | | | | | | 852 | 825 | 83.00 | 83.00 | 119.00 |

| | | | |
|------------------------------|--------------------|--------|-------|
| Contingency allowance | 5.00% | £k | 410 |
| Development costs | standard % build | 13.50% | 1,163 |
| | plus abnormalities | 3.0% | 261 |
| Total | | 17% | |

Floorspace density = 16,481 net sq ft per acre

| | | | | |
|--|-----------------|-------|-----|--|
| Design fees | on build costs | 10.0% | 861 | |
| | on dev costs | 8% | | |
| Planning gain & Grant contributions | PG £ per dwg | 3,000 | 348 | |
| | Grant £ per dwg | 0 | 0 | |

| | | | |
|--------------------|----------------------|-------|----------------|
| Other costs | Planning | 446.3 | £ per dwelling |
| | Survey | 500 | £ per dwelling |
| | Marketing | 0 | £ per dwelling |
| | Interest % per annum | 7.50% | |

Notes

| | | | |
|--------------------|--------|--------|--------|
| Total units | 116.0 | 100.0% | 100.0% |
| Total dwgs | 116.0 | 100.0% | 100.0% |
| £8,203,056 | 95,700 | 0.0% | 0.0% |
| £15,579,003 | 0 | 0.0% | 0.0% |

SITE 7 LAND COST & PHASING

| | | | | | |
|-----------------------------|---------------|--|------------|----------------|---------------|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable | No affordable |
| RV per acre | £ 500,244 | £ 940,956 | £ 212,870 | £ 400,407 | |
| Dev profit | £ 2,541,970 | £ 2,730,939 | | | |
| Total costs | £ 13,038,083 | £ 13,634,811 | | | |
| profit as % of costs | 19.50% | 20.03% | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | |
|----------------------------|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | |
| Units started | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 11 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |

SITE 7 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|--|-------|------------|------------|------------|------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -50 | -68 | -68 | -68 | -68 | -68 | -68 | -68 | -68 | -68 | |
| TOTALS | | | | | | | | | | | | | | | | | | |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 1,477 | 2,015 | 2,015 | 2,015 | 2,015 | 2,015 | 2,015 | 2,015 | 2,015 | 2,015 | |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 500 | | | | | | | | | | | | | | | | |
| Land acquisition | | 20 | | | | | | | | | | | | | | | | |
| Stamp duty | | 14 | | | | | | | | | | | | | | | | |
| Purchase fees | | | | | | | | | | | | | | | | | | |
| Total | | 534 | | | | | | | | | | | | | | | | |
| Build costs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 0 | 0 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | 53 | |
| Total | | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | |
| Dev costs | | 145 | 0 | 55 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | |
| Upfront | 6.8% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Build related | 6.8% | 130 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Abnormals | 3% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 145 | 0 | 55 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | |
| Fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Fees on build costs | 10.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Fees on dev costs | 8.0% | 22 | 22 | 16 | 18 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |
| Total | | 22 | 22 | 16 | 18 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | 16 | |
| PG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Planning gain | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Grant | | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | |
| Total | £446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Planning Survey | £500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Marketing | £0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total | | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | |
| Total costs | | 907 | 315 | 267 | 283 | 1,025 | 1,351 | 1,401 | 1,419 | 1,419 | 1,293 | 1,293 | 1,293 | 68 | 68 | 68 | 523 | |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | |
| Profit/loss bf from last quarter | | -907 | -315 | -267 | -283 | -1,025 | -1,351 | 76 | 596 | 596 | 722 | 722 | 722 | 1,947 | 1,947 | 0 | 0 | |
| Cumulative profit/loss | | 0 | -924 | -1,262 | -1,558 | -1,875 | -2,954 | -4,386 | -4,391 | -3,866 | -2,788 | -2,105 | -1,409 | 548 | 2,542 | 2,542 | 2,542 | |
| Interest | 7.50% | -17 | -23 | -29 | -35 | -54 | -81 | -81 | -71 | -61 | -51 | -39 | -26 | 10 | 47 | 0 | 0 | |
| Charged at Total | 7.50% | -924 | -1,262 | -1,558 | -1,875 | -2,954 | -4,386 | -4,391 | -3,866 | -3,332 | -2,788 | -2,105 | -1,409 | 548 | 2,542 | 2,542 | 2,542 | |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | |

SITE 8: Inner urban brownfield

SITE 8 LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | |
|----------------------------|----------|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|-------------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | |
| Units started | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0.0 | 4.5 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 53.1 |
| Affordable soc rent | | | 0.0 | 0.4 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 0.6 | 4.1 |
| Affordable sh oship | | | 0.0 | 0.2 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 0.3 | 1.8 |
| 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 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 0.0 | 5.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 9.0 | 59.0 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 8 | 0 | 5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 53 |
| Affordable soc rent | | | 0 | 1 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| Affordable sh oship | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | 0 | 5 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 53 |
| Affordable soc rent | | | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| Affordable sh oship | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable soc rent | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Affordable sh oship | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 |

Iterate to achieve 20.0% profit

| | Affordable | No affordable | Affordable | No affordable | Affordable | No affordable | Affordable | No affordable |
|-----------------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| Land purchase price | £ 95,941 | £ 309,761 | £ 95,941 | £ 309,761 | £ 95,941 | £ 309,761 | £ 95,941 | £ 309,761 |
| RV per acre | £ 34,667 | £ 111,927 | £ 34,667 | £ 111,927 | £ 34,667 | £ 111,927 | £ 34,667 | £ 111,927 |
| Dev profit | £ 1,193,203 | £ 1,281,598 | £ 1,193,203 | £ 1,281,598 | £ 1,193,203 | £ 1,281,598 | £ 1,193,203 | £ 1,281,598 |
| Total costs | £ 6,120,087 | £ 6,405,323 | £ 6,120,087 | £ 6,405,323 | £ 6,120,087 | £ 6,405,323 | £ 6,120,087 | £ 6,405,323 |
| profit as % of costs | 19.50% | 20.01% | 19.50% | 20.01% | 19.50% | 20.01% | 19.50% | 20.01% |

SITE 8 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|----------------------------------|------------|------------|-----------|------------|-----------|------------|------------|------------|------------|------------|------------|------------|-----------|-----------|----------|----------|--------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | Market housing | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,055 | 1,055 | 1,055 | 1,055 | 1,055 | 1,055 | 1,055 | 0 | 6,917 |
| | Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 0 | 236 |
| | Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 24 | 24 | 24 | 24 | 24 | 24 | 24 | 0 | 159 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Sales fees | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -21 | -37 | -37 | -37 | -37 | -37 | -37 | -37 | 0 | -246 |
| Total income | | | | | | | | | | | | | | | | | | |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | Land acquisition | 96 | | | | | | | | | | | | | | | | 96 |
| | Stamp duty | 1 | | | | | | | | | | | | | | | | 1 |
| | Purchase fees | 3 | | | | | | | | | | | | | | | | 3 |
| | Total | | | | | | | | | | | | | | | | | 100 |
| Build costs | Market housing | 0 | 0 | 0 | 0 | 0 | 291 | 524 | 524 | 524 | 524 | 524 | 524 | 0 | 0 | 0 | 0 | 3,433 |
| | Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 23 | 41 | 41 | 41 | 41 | 41 | 41 | 0 | 0 | 0 | 0 | 267 |
| | Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 10 | 17 | 17 | 17 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 114 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| | Build contingency | 0 | 0 | 0 | 0 | 0 | 16 | 29 | 29 | 29 | 29 | 29 | 29 | 0 | 0 | 0 | 0 | 191 |
| | Total | | | | | | | | | | | | | | | | | 4,006 |
| Dev costs | Upfront | 68 | 68 | 68 | 68 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 0 | 0 | 0 | 0 | 270 |
| | Build related | 0 | 0 | 0 | 23 | | | | | | | | | | | | | 270 |
| | Abnormals | 139 | 139 | | | | | | | | | | | | | | | 277 |
| | Total | | | | | | | | | | | | | | | | | 818 |
| Fees | Fees on build costs | 0 | 0 | 0 | 0 | 0 | 34 | 61 | 61 | 61 | 61 | 61 | 61 | 0 | 0 | 0 | 0 | 401 |
| | Fees on dev costs | 16 | 16 | 5 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 65 |
| | Total | | | | | | | | | | | | | | | | | 466 |
| PG | Planning gain | | | | | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 0 | 0 | 0 | 0 | 177 |
| Grant | Grant | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 177 |
| | Total | | | | | | | | | | | | | | | | | 0 |
| Other | Planning | 6 | 6 | 6 | | | | | | | | | | | | | | 18 |
| | Survey | 30 | | | | | | | | | | | | | | | | 30 |
| | Marketing | | | | | | | | | | | | | | | | | 0 |
| | Total | | | | | | | | | | | | | | | | | 47 |
| Sales fees | b/forward from above | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 0 | 246 |
| | Total costs | 358 | 229 | 79 | 113 | 72 | 445 | 744 | 764 | 781 | 781 | 710 | 710 | 37 | 37 | 0 | 0 | 5,859 |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | |
| | Profit/loss bf from last quarter | -358 | -229 | -79 | -113 | -72 | -445 | -744 | -145 | 334 | 334 | 406 | 406 | 1,078 | 1,078 | 0 | 0 | 1,453 |
| | | 0 | -364 | -604 | -696 | -823 | -912 | -1,382 | -2,165 | -2,353 | -2,057 | -1,755 | -1,374 | -987 | 93 | 1,193 | 1,193 | |
| Cumulative profit/loss | | | | | | | | | | | | | | | | | | |
| | Interest | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% | 0.00% |
| | Charged at | -7 | -11 | -13 | -15 | -17 | -25 | -40 | -43 | -38 | -32 | -25 | -18 | 2 | 22 | 0 | 0 | -261 |
| | Total | | | | | | | | | | | | | | | | | 1,192 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | |
| | | -364 | -604 | -696 | -823 | -912 | -1,382 | -2,165 | -2,353 | -2,057 | -1,755 | -1,374 | -987 | 93 | 1,193 | 1,193 | 1,193 | |

SITE 9: Small urban brownfield

SITE 9 LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | | |
|----------------------------|----------|----------|------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|-------------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | |
| Units started | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0.0 | 6.3 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 8.1 | 63.0 |
| Affordable soc rent | | | 0.0 | 0.6 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 0.7 | 5.6 |
| Affordable sh oship | | | 0.0 | 0.1 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 1.4 |
| 0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 0.0 | 7 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 9 | 70.0 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 63 |
| Affordable soc rent | | | | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 0 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 63 |
| Affordable soc rent | | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 0 | 0 | 6 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 8 | 63 |
| Affordable soc rent | | | | | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 6 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

Iterate to achieve 20.0% profit

Affordable **£ 467,860** No affordable **£ 720,123**
 Hectare Affordable **£ 344,015** No affordable **£ 529,503**

Dev profit **£ 1,348,079** **1,452,054**

Total costs **£ 6,914,299** **7,257,771**

profit as % of costs **19.50%** **20.01%**

SITE 9 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|-------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|--------------|--------------|--------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,008 | 1,008 | 1,008 | 1,008 | 1,008 | 1,008 | 1,008 | 0 | 7,838 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 0 | 304 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 0 | 119 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -36 | -36 | -36 | -36 | -36 | -36 | -36 | 0 | -278 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,062 | 1,062 | 1,062 | 1,062 | 1,062 | 1,062 | 1,062 | 0 | 8,261 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 468 | | | | | | | | | | | | | | | | 468 |
| Land acquisition | | 14 | | | | | | | | | | | | | | | | 14 |
| Stamp duty | | 13 | | | | | | | | | | | | | | | | 13 |
| Purchase fees | | | | | | | | | | | | | | | | | | 495 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 477 | 477 | 477 | 477 | 477 | 477 | 477 | 0 | 3,706 |
| Build costs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 329 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 0 | 82 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 0 | 206 |
| Total | | 73 | 73 | 73 | 73 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 0 | 292 |
| Upfront | 6.8% | 0 | 0 | 0 | 0 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 38 | 0 | 150 |
| Build related | 6.8% | 75 | 75 | 75 | 75 | | | | | | | | | | | | | 733 |
| Abnormals | 3% | | | | | | | | | | | | | | | | | 59 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 | 56 | 56 | 56 | 56 | 56 | 56 | 0 | 432 |
| Fees on build costs | 10.0% | 12 | 12 | 12 | 12 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 0 | 59 |
| Fees on dev costs | 8.0% | | | | | | | | | | | | | | | | | 491 |
| Total | | 12 | 12 | 6 | 8 | 3 | 3 | 3 | 3 | 27 | 27 | 27 | 27 | 27 | 27 | 27 | 0 | 210 |
| PG | | | | | | | | | | | | | | | | | | 210 |
| Planning gain | | | | | | | | | | | | | | | | | | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Other | | 8 | 8 | 8 | 8 | | | | | | | | | | | | | 24 |
| Planning | £349 | 35 | 35 | 35 | 35 | | | | | | | | | | | | | 35 |
| Survey | £500 | | | | | | | | | | | | | | | | | 0 |
| Marketing | £0 | | | | | | | | | | | | | | | | | 59 |
| Total | | 697 | 168 | 87 | 131 | 68 | 543 | 679 | 707 | 715 | 715 | 715 | 715 | 715 | 715 | 36 | 36 | 278 |
| Sales fees | | | | | | | | | | | | | | | | | | 0 |
| Total costs | | -697 | -168 | -87 | -131 | -68 | -543 | -679 | 119 | 347 | 347 | 347 | 347 | 347 | 347 | 36 | 36 | 6,590 |
| Net profit/loss from quarter | | 0 | -710 | -895 | -1,000 | -1,152 | -1,243 | -1,819 | -2,545 | -2,471 | -2,164 | -1,850 | -1,531 | -1,137 | -735 | 297 | 1,348 | 1,671 |
| Profit/loss bf from last quarter | | | | | | | | | | | | | | | | | | |
| Cumulative profit/loss | | -697 | -878 | -982 | -1,131 | -1,220 | -1,786 | -2,498 | -2,426 | -2,124 | -1,816 | -1,503 | -1,116 | -722 | 291 | 1,323 | 1,348 | 0.00% |
| Interest | 7.50% | -13 | -16 | -18 | -21 | -23 | -33 | -47 | -45 | -40 | -34 | -28 | -21 | -14 | 5 | 25 | 0 | -324 |
| Charged at | 7.50% | | | | | | | | | | | | | | | | | |
| Total | | -710 | -895 | -1,000 | -1,152 | -1,243 | -1,819 | -2,545 | -2,471 | -2,164 | -1,850 | -1,531 | -1,137 | -735 | 297 | 1,348 | 1,348 | 0.00% |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | 1,347 |

SITE 10: Small urban brownfield

Input assumptions Scenario & option Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

Site details

| | |
|---------------|----------------------|
| Site | 10. Small brownfield |
| Location | Urban |
| Area | 1.10 ha |
| | 2.72 acres |
| No dwgs | 30 |
| Density dw/ha | 27.3 |

Contingency

| | | | |
|-----------|-------|----|-----|
| allowance | 5.00% | £k | 139 |
|-----------|-------|----|-----|

Development costs

| | | | |
|------------------|--------|----|-----|
| standard % build | 14.50% | £k | 423 |
|------------------|--------|----|-----|

plus abnormals

| | | | |
|--|------|----|----|
| | 0.9% | £k | 25 |
|--|------|----|----|

Total

| | | | |
|--|-----|----|-----|
| | 15% | £k | 292 |
|--|-----|----|-----|

Design fees

| | | | |
|----------------|-------|----|-----|
| on build costs | 10.0% | £k | 292 |
|----------------|-------|----|-----|

on dev costs

| | | | |
|--|----|----|----|
| | 8% | £k | 90 |
|--|----|----|----|

Planning gain & Grant contributions

| | | | |
|--------------|-------|----|----|
| PG £ per dwg | 3,000 | £k | 90 |
|--------------|-------|----|----|

Grant £ per dwg

| | | | |
|--|---|----|---|
| | 0 | £k | 0 |
|--|---|----|---|

PG ALL

Dwellings

Dwellings

| | Market housing | Affordable soc rent | Affordable sh oship | Total dwgs | % of dwgs | % of units | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|--|----------------|---------------------|---------------------|------------|-----------|------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| | 27.0 | 2.1 | 0.9 | 30.0 | 90.00% | 90.00% | 1,157 | 1,124 | 80.00 | 1.000 | 170.00 |
| | | | | | 7.00% | 7.0% | 1,157 | 1,124 | 80.00 | 80.00 | 76.00 |
| | | | | | 3.00% | 3.0% | 1,157 | 1,124 | 80.00 | 80.00 | 118.00 |
| | | | | | 100.00% | 100.0% | | | | | |
| | | | | | 0.0% | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | | | 0.0% | | 0 | 0 | 0.00 | 0.00 | 0.00 |
| | | | | | 100.0% | | 34,710 | 33,720 | | | £2,776,800 |

Total dwgs

| | | | |
|--|------|---------|--------|
| | 30.0 | 100.00% | 100.0% |
|--|------|---------|--------|

£k

| | |
|--|-----|
| | 139 |
|--|-----|

Floorspace density

= 12,406 net sq ft per acre

Other costs

| | | |
|----------|-------|----------------|
| Planning | 515.0 | £ per dwelling |
|----------|-------|----------------|

Survey

| | | |
|--|-----|----------------|
| | 500 | £ per dwelling |
|--|-----|----------------|

Marketing

| | | |
|--|---|----------------|
| | 0 | £ per dwelling |
|--|---|----------------|

Interest

| | |
|-------------|-------|
| % per annum | 7.50% |
|-------------|-------|

Notes

SITE 10 LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | | |
|---------------------|---------------|-----|-----|-----|-------------------|-----|-----|-----|---------------------|-----|-----|-----|---------------------|-----|-----|-----|--------|-----|-----|-----|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | |
| | Units started | | | | Units 'built' +2Q | | | | Units completed +3Q | | | | Units purchased +4Q | | | | | | | | |
| Market housing | 0 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 27.0 |
| Affordable soc rent | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 2.1 |
| Affordable sh oship | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 0.2 | 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 | 0.9 |
| 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 | 0.0 |
| 0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 30.0 |
| Market housing | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 27 |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 27 |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 27 |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

Iterate to achieve 20.0% profit

Affordable **No affordable** **Hectare**
£ 358,406 **£ 516,897** **Affordable** **No affordable**
£ 131,859 **£ 190,169** **£325,824** **£469,906**

Dev profit **£ 890,747** **955,804**
Total costs **£ 4,568,072** **4,777,496**
profit as % of costs **19.50%** **20.01%**

SITE 10 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|-------|--------|------|------|------|--------|--------|--------|--------|--------|-------|-------|-------|--------|-------|-------|-------|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 860 | 860 | 860 | 860 | 860 | 860 | 860 | 860 | 860 | 860 | 5,159 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 30 | 179 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 20 | 119 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -31 | -183 |
| Total income | | | | | | | | | | | | | | | | | | |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 358 | | | | | | | | | | | | | | | | 358 |
| Land acquisition | | 11 | | | | | | | | | | | | | | | | 11 |
| Stamp duty | | 10 | | | | | | | | | | | | | | | | 10 |
| Purchase fees | | | | | | | | | | | | | | | | | | |
| Total | | 0 | 0 | 0 | 0 | 417 | 417 | 417 | 417 | 417 | 417 | 417 | 417 | 417 | 417 | 417 | 417 | 379 |
| Build costs | | 0 | 0 | 0 | 0 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 2,499 |
| Market housing | | 0 | 0 | 0 | 0 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 194 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 83 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 23 | 139 |
| Total | | 53 | 53 | 53 | 53 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 35 | 2,916 |
| Dev costs | 7.3% | 0 | 0 | 35 | 35 | | | | | | | | | | | | | 211 |
| Upfront | 7.3% | 12 | 12 | | | | | | | | | | | | | | | 25 |
| Build related | 1% | | | | | | | | | | | | | | | | | 448 |
| Abnormals | | | | | | | | | | | | | | | | | | 292 |
| Total | | 0 | 0 | 0 | 0 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 49 | 36 |
| Fees | 10.0% | 5 | 5 | 7 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 327 |
| Fees on build costs | 8.0% | | | | | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 15 | 90 |
| Fees on dev costs | | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 5 | 5 | 7 | 7 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 3 | 90 |
| PG | | | | 15 | 15 | | | | | | | | | | | | | 0 |
| Planning gain | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | 0 |
| Other | £515 | 5 | 5 | 5 | 5 | | | | | | | | | | | | | 15 |
| Planning | £500 | 15 | | | | | | | | | | | | | | | | 15 |
| Survey | £0 | | | | | | | | | | | | | | | | | 0 |
| Marketing | | | | | | | | | | | | | | | | | | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 183 |
| Sales fees | | 470 | 76 | 115 | 110 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | 588 | 4,373 |
| Total costs | | | | | | | | | | | | | | | | | | |
| Net profit/loss from quarter | | -470 | -76 | -115 | -110 | -588 | -588 | -588 | -588 | -588 | -588 | -588 | -588 | -588 | -588 | -588 | -588 | 1,085 |
| Profit/loss bf from last quarter | | 0 | -478 | -564 | -692 | -817 | -1,431 | -2,057 | -1,798 | -1,535 | -884 | -5 | 891 | 891 | 891 | 891 | 891 | 891 |
| Cumulative profit/loss | | -470 | -554 | -680 | -802 | -1,405 | -2,019 | -1,765 | -1,506 | -1,190 | -868 | -5 | 874 | 891 | 891 | 891 | 891 | 891 |
| Interest | 7.50% | -9 | -10 | -13 | -15 | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% |
| Charged at | | | | | | -26 | -38 | -33 | -28 | -22 | -16 | 0 | 16 | 0 | 0 | 0 | 0 | 0.00% |
| Total | | -478 | -564 | -692 | -817 | -1,431 | -2,057 | -1,798 | -1,535 | -1,212 | -884 | -5 | 891 | 891 | 891 | 891 | 891 | -195 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | 890 |

SITE 11: Urban edge greenfield

| Input assumptions | | Scenario & option | |
|--|-----------------------------|---|------------|
| East Staffs Viability | | Affordable 10% = 70% social rented 30% intermediate | |
| Site details | | Dwellings | |
| Site | 11. Urban edge greenfield | Market housing | 18.0 |
| Location | Urban | Affordable soc rent | 1.4 |
| Area | 0.80 ha | Affordable sh oship | 0.6 |
| | 1.98 acres | Total dwgs | 20.0 |
| No dwgs | 20 | % of dwgs | 90.00% |
| Density dw/ha | 25.0 | % of units | 90.00% |
| | | ave floor space gross sq ft | 1,339 |
| | | ave floor space net sq ft | 1,339 |
| | | build cost per sq ft | 78.00 |
| | | build index = | 78.00 |
| | | sales value per sq ft | 180.00 |
| | | | 0.0% |
| | | | 78.00 |
| | | | 0.0% |
| | | | 78.00 |
| | | | 78.00 |
| | | | 125.00 |
| | | | 0.00 |
| | | | 0.00 |
| | | | 0.00 |
| | | | 26,780 |
| | | | £2,088,840 |
| | | | £4,579,380 |
| Contingency | allowance 2.50% | £k | 52 |
| Development costs | standard % build 14.50% | | 310 |
| | plus abnormalities 0.0% | | 0 |
| Total | | | 15% |
| Design fees | on build costs 10.0% | | 214 |
| | on dev costs 8% | | |
| Planning gain & Grant contributions | PG £ per dwg 3,000 | | 60 |
| | Grant £ per dwg 0 | | 0 |
| PG ALL | | | |
| Floorspace density | = 13,547 net sq ft per acre | | |
| Other costs | | | |
| Planning | £ per dwelling | 515.0 | |
| Survey | £ per dwelling | 200 | |
| Marketing | £ per dwelling | 0 | |
| Interest | % per annum | 7.50% | |
| Notes | | | |

SITE 11 LAND COST & PHASING

| | | | | | |
|-----------------------------|--------------------|--|------------------|--------------------|--|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| | Affordable | No affordable | Affordable | No affordable | |
| Land purchase price | £ 666,001 | £ 805,823 | £ 832,501 | £ 1,007,279 | |
| RV per acre | £ 336,909 | £ 407,640 | | | |
| Dev profit | £ 747,335 | £ 803,648 | | | |
| Total costs | £ 3,832,870 | £ 4,017,577 | | | |
| profit as % of costs | 19.50% | 20.00% | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | |
|----------------------------|--------|----|----|----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | |
| Units started | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 4 | 4 | 3.6 | 3.6 | 3.6 | 3.6 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 18.0 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |

SITE 11 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | |
|---|-------|-------------|-------------|-------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|-------------|------------|------------|------------|--------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | |
| INCOME | | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 868 | 868 | 868 | 868 | 868 | 868 | 0 | 0 | 0 | 0 | 0 | 4,338 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 28 | 28 | 28 | 28 | 28 | 0 | 0 | 0 | 0 | 0 | 0 | 141 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 20 | 20 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -31 | -31 | -31 | -31 | -31 | -31 | 0 | 0 | 0 | 0 | 0 | -154 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 916 | 916 | 916 | 916 | 916 | 916 | 0 | 0 | 0 | 0 | 0 | 4,579 |
| COSTS | | | | | | | | | | | | | | | | | | | |
| Land | | 666 | | | | | | | | | | | | | | | | | 666 |
| Land acquisition | | 27 | | | | | | | | | | | | | | | | | 27 |
| Stamp duty | | 18 | | | | | | | | | | | | | | | | | 18 |
| Purchase fees | | | | | | | | | | | | | | | | | | | |
| Total | | 711 | | | | | | | | | | | | | | | | | 711 |
| Build costs | | 0 | 0 | 0 | 0 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 376 | 0 | 0 | 0 | 0 | 0 | 1,880 |
| Market housing | | 0 | 0 | 0 | 0 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 29 | 0 | 0 | 0 | 0 | 0 | 146 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 63 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 2.5% | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 52 |
| Total | | 39 | 39 | 39 | 39 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 2,141 |
| Dev costs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 155 |
| Upfront | 7.3% | 0 | 0 | 0 | 0 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 155 |
| Build related | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Abnormals | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 43 | 0 | 0 | 0 | 0 | 0 | 310 |
| Fees | | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 214 |
| Fees on build costs | 10.0% | 3 | 3 | 3 | 3 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 25 |
| Fees on dev costs | 8.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 239 |
| Total | | 3 | 3 | 3 | 3 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 60 |
| PG | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Planning gain | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 60 |
| Grant | | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Other | | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Planning Survey | £515 | 4 | 4 | 4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Marketing | £200 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 31 | 31 | 31 | 31 | 31 | 31 | 0 | 0 | 0 | 0 | 0 | 14 |
| Sales fees | | 760 | 45 | 91 | 87 | 517 | 517 | 547 | 502 | 502 | 502 | 502 | 502 | 0 | 0 | 0 | 0 | 0 | 154 |
| b/forward from above | | | | | | | | | | | | | | | | | | | |
| Total costs | | -760 | -45 | -91 | -87 | -517 | -517 | -369 | -414 | -414 | -414 | -414 | -414 | 0 | 0 | 0 | 0 | 0 | 3,630 |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | | |
| Profit/loss bf from last quarter | | 0 | -774 | -835 | -943 | -1,050 | -1,596 | -2,152 | -1,817 | -1,817 | -1,817 | -1,817 | -1,817 | -1,429 | -1,034 | -152 | 747 | 747 | 950 |
| Cumulative profit/loss | | -760 | -820 | -926 | -1,031 | -1,567 | -2,112 | -1,783 | -1,403 | -1,403 | -1,403 | -1,403 | -1,403 | -1,015 | -149 | 734 | 747 | 747 | 747 |
| Interest | 7.50% | -14 | -15 | -17 | -19 | -29 | -40 | -33 | -26 | -26 | -26 | -26 | -26 | -19 | -3 | 14 | 0 | 0 | -203 |
| Charged at Total | | -14 | -15 | -17 | -19 | -29 | -40 | -33 | -26 | -26 | -26 | -26 | -26 | -19 | -3 | 14 | 0 | 0 | -203 |
| Cumulative developer profit carried forward to RV calc | | -774 | -835 | -943 | -1,050 | -1,596 | -2,152 | -1,817 | -1,429 | -1,429 | -1,429 | -1,429 | -1,429 | -1,034 | -152 | 747 | 747 | 747 | 747 |

SITE 12: Small urban brownfield

SITE 12 LAND COST & PHASING

| | | | | | |
|-----------------------------|---------------|--|------------|----------------|---------------|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable | No affordable |
| RV per acre | £ 179,764 | £ 277,500 | £ 359,528 | £ 555,000 | |
| Dev profit | £ 558,263 | £ 598,660 | | | |
| Total costs | £ 2,862,705 | £ 2,991,160 | | | |
| profit as % of costs | 19.50% | 20.01% | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | |
|----------------------------|--------|----|----|----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | |
| Units started | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 4 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 18.0 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 0 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SITE 12 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|--|-------|--------|------|------|------|--------|--------|--------|--------|--------|--------|-------|-------|--------|-------|-------|-------|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 3,230 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 114 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -23 | -23 | -23 | -23 | -23 | 0 | 0 | 0 | 0 | -115 |
| Total income | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 684 | 684 | 684 | 684 | 684 | 0 | 0 | 0 | 0 | 3,420 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 180 | | | | | | | | | | | | | | | | 180 |
| Land acquisition | | 2 | | | | | | | | | | | | | | | | 2 |
| Stamp duty | | 5 | | | | | | | | | | | | | | | | 5 |
| Purchase fees | | | | | | | | | | | | | | | | | | 187 |
| Total | | 0 | 0 | 0 | 0 | 0 | 309 | 309 | 309 | 309 | 309 | 309 | 309 | 0 | 0 | 0 | 0 | 1,547 |
| Build costs | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 120 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 10 | 10 | 10 | 10 | 10 | 10 | 10 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 17 | 17 | 17 | 17 | 17 | 0 | 0 | 0 | 0 | 86 |
| Total | | 33 | 33 | 33 | 33 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 26 | 0 | 0 | 0 | 0 | 131 |
| Dev costs | 7.3% | 0 | 0 | 0 | 26 | | | | | | | | | | | | | 131 |
| Upfront | 7.3% | 37 | 37 | | | | | | | | | | | | | | | 75 |
| Build related | 4% | | | | | | | | | | | | | | | | | 337 |
| Abnormals | | 0 | 0 | 0 | 0 | 0 | 36 | 36 | 36 | 36 | 36 | 36 | 36 | 0 | 0 | 0 | 0 | 180 |
| Total | 10.0% | 6 | 6 | 3 | 5 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 27 |
| Fees on build costs | 8.0% | | | | | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 207 |
| Fees on dev costs | | | | | | | | | | | | | | | | | | 60 |
| Total | | | | | | | | | | | | | | | | | | 60 |
| PG | | | | | | | | | | | | | | | | | | 60 |
| Planning gain | | | | | | | | | | | | | | | | | | 60 |
| Total | | | | | | | | | | | | | | | | | | 60 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Other | £515 | 3 | 3 | 3 | | | | | | | | | | | | | | 10 |
| Survey | £500 | 10 | | | | | | | | | | | | | | | | 10 |
| Marketing | £0 | | | | | | | | | | | | | | | | | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 20 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 | 23 | 23 | 23 | 23 | 0 | 0 | 0 | 0 | 115 |
| bfoward from above | | | | | | | | | | | | | | | | | | |
| Total costs | | 276 | 79 | 39 | 76 | 40 | 437 | 437 | 460 | 420 | 420 | 23 | 23 | 0 | 0 | 0 | 0 | 2,730 |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | |
| | | -276 | -79 | -39 | -76 | -40 | -437 | -437 | 224 | 264 | 264 | 661 | 661 | 0 | 0 | 0 | 0 | 690 |
| Profit/loss bf from last quarter | | 0 | -281 | -367 | -413 | -498 | -548 | -1,004 | -1,468 | -1,267 | -1,022 | -772 | -113 | 558 | 558 | 558 | 558 | 558 |
| Cumulative profit/loss | | -276 | -360 | -405 | -489 | -538 | -985 | -1,441 | -1,244 | -1,003 | -758 | -111 | 548 | 558 | 558 | 558 | 558 | 558 |
| Interest | 7.50% | -5 | -7 | -8 | -9 | -10 | -18 | -27 | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Charged at | | | | | | | | | | | | | | | | | | |
| Total | | -281 | -367 | -413 | -498 | -548 | -1,004 | -1,468 | -1,267 | -1,022 | -772 | -113 | 558 | 558 | 558 | 558 | 558 | 557 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | -132 |

SITE 13: Town centre brownfield

Scenario & option: Affordable 10% = 70% social rented 30% intermediate

Input assumptions

East Staffs Viability

Site details

| | |
|---------------|----------------------------|
| Site | 13. Town centre brownfield |
| Location | Urban |
| Area | 0.50 ha |
| | 1.24 acres |
| No dwgs | 44 |
| Density dw/ha | 88.0 |

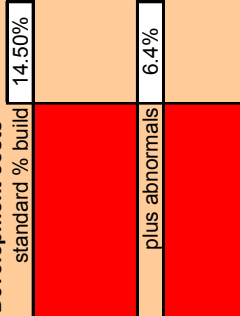
Contingency allowance



£k

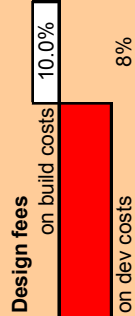
173

Development costs



£k

526



£k

363

Planning gain & Grant contributions



£k

132

PG ALL

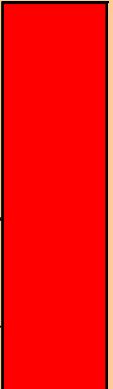
Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 854 | 726 | 92.00 | 1.000 | 175.00 |
| Affordable soc rent | 854 | 726 | 92.00 | 92.00 | 80.00 |
| Affordable sh oship | 854 | 726 | 92.00 | 92.00 | 123.00 |

Total dwgs

| | | | | | |
|------|---------|---------|------|------|------|
| 44.0 | 100.00% | 100.00% | 0.0% | 0.0% | 0.0% |
| 44.0 | 100.0% | 100.0% | 0.0% | 0.0% | 0.0% |

Floorspace density = 25,855 net sq ft per acre



Other costs

| | | |
|----------------------|-------|----------------|
| Planning | 515.0 | £ per dwelling |
| Survey | 500 | £ per dwelling |
| Marketing | 0 | £ per dwelling |
| Interest % per annum | 7.50% | |

Notes

£3,456,992 £5,327,940

SITE 13 LAND COST & PHASING

| | | | | | |
|-----------------------------|-------------|--|-------------|----------------|---------------|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable | No affordable |
| RV per acre | £ -781,513 | £ -628,592 | £ -508,775 | £ -1,563,026 | £ -1,257,183 |
| Dev profit | £ 869,615 | £ 933,285 | £ 4,459,150 | £ 4,657,740 | £ 20.04% |
| Total costs | £ 4,459,150 | £ 19.50% | | | |
| profit as % of costs | | | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | |
|----------------------------|--------|----|----|-----|--------|------|------|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | |
| Units started | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 0 | 7.2 | 10.8 | 10.8 | 10.8 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 39.6 |
| Affordable soc rent | | | | 0.6 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 0.8 | 3.1 |
| Affordable sh oship | | | | 0.2 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 0.4 | 1.3 |
| 0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0 | | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| Units 'built' +2Q | | | | 8 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 12 | 44.0 |
| Market housing | | | | | 0 | 7 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 40 |
| Affordable soc rent | | | | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | 40 |
| Market housing | | | | | 0 | 7 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 40 |
| Affordable soc rent | | | | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | 40 |
| Market housing | | | | | 0 | 7 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 11 | 40 |
| Affordable soc rent | | | | | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 3 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 |

SITE 13 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|-------------------------------------|-------|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|----|----|----|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | |
| Sales fees | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Total income | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | | | | | | | | | | | | | | | | | |
| Land acquisition | | | | | | | | | | | | | | | | | | |
| Stamp duty | | | | | | | | | | | | | | | | | | |
| Purchase fees | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Build costs | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | | |
| Build contingency | 5.0% | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Dev costs | | | | | | | | | | | | | | | | | | |
| Upfront | 7.3% | | | | | | | | | | | | | | | | | |
| Build related | 7.3% | | | | | | | | | | | | | | | | | |
| Abnormals | 6% | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Fees | | | | | | | | | | | | | | | | | | |
| Fees on build costs | 10.0% | | | | | | | | | | | | | | | | | |
| Fees on dev costs | 8.0% | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| PG | | | | | | | | | | | | | | | | | | |
| Planning gain | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Grant | | | | | | | | | | | | | | | | | | |
| Grant | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Other | | | | | | | | | | | | | | | | | | |
| Planning | £515 | | | | | | | | | | | | | | | | | |
| Survey | £500 | | | | | | | | | | | | | | | | | |
| Marketing | £0 | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Sales fees | | | | | | | | | | | | | | | | | | |
| bfoward from above | | | | | | | | | | | | | | | | | | |
| Total costs | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| Profit/loss bf from last quarter | | | | | | | | | | | | | | | | | | |
| Cumulative profit/loss | | | | | | | | | | | | | | | | | | |
| Interest | 7.50% | | | | | | | | | | | | | | | | | |
| Charged at | | | | | | | | | | | | | | | | | | |
| Total | | | | | | | | | | | | | | | | | | |
| Cumulative developer profit | | | | | | | | | | | | | | | | | | |
| carried forward to RV calc | | | | | | | | | | | | | | | | | | |

SITE 14: Small urban brownfield

Input assumptions Scenario & option Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

Site details

| | |
|---------------|----------------------------|
| Site Location | 14. Small brownfield Urban |
| Area | 0.26 ha |
| | 0.64 acres |
| No dwgs | 10 |
| Density dw/ha | 38.5 |

Contingency allowance 5.00% £k 37

Development costs standard % build 13.50% 104
 plus abnormal 3.2% 25
 Total 17%

Design fees on build costs 10.0% 77
 on dev costs 8%

Planning gain & Grant contributions PG £ per dwg 3,000 30
 Grant £ per dwg 0 0

PG ALL

Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 914 | 914 | 80.00 | 1,000 | 180.00 |
| Affordable soc rent | 914 | 914 | 0.0% | 80.00 | 75.00 |
| Affordable sh oship | 914 | 914 | 0.0% | 80.00 | 125.00 |

| | | | | | | | |
|-------------|------|---------|--------|------|------|------|----------|
| Total dwgs | 10.0 | 100.00% | 100.0% | 0.0% | 0.00 | 0.00 | 0.00 |
| | | | | | | | |
| Total units | 10.0 | 100.0% | 100.0% | 0.0% | 0.00 | 0.00 | £731,200 |

Floorspace density = 14,227 net sq ft per acre

Other costs

| | | |
|----------------------|-------|----------------|
| Planning | 515.0 | £ per dwelling |
| Survey | 500 | £ per dwelling |
| Marketing | 0 | £ per dwelling |
| Interest % per annum | 7.50% | |

Notes

SITE 14 LAND COST & PHASING

| | | | | | |
|-----------------------------|---------------|--|------------|----------------|---------------|
| Land | | Iterate to achieve 20.0% profit | | Hectare | |
| Land purchase price | Affordable | No affordable | Affordable | No affordable | No affordable |
| RV per acre | £ 160,278 | £ 209,256 | £ 616,453 | £ 804,829 | |
| Dev profit | £ 255,190 | £ 274,495 | | | |
| Total costs | £ 1,308,500 | £ 1,371,455 | | | |
| profit as % of costs | 19.50% | 20.01% | | | |

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | | | |
|----------------------------|--------|----|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|--------|-----|-----|-----|-----|------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | | |
| Units started | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | 0.9 | 2.7 | 2.7 | 2.7 | 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 | 9.0 | |
| Affordable soc rent | | | 0.1 | 0.2 | 0.2 | 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 | 0.7 |
| Affordable sh oship | | | 0.0 | 0.1 | 0.1 | 0.1 | 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 | 0.3 |
| 0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 0 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 1 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10.0 |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 1 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 1 | 3 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 0 | 1 | 3 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

SITE 14 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|-------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|------------|------------|------------|------------|------------|------------|--------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | | | | | | | | | | | | | | | | | |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 148 | 444 | 444 | 444 | 0 | 0 | 0 | 0 | 0 | 0 | 1,481 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -5 | -16 | -16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -53 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 156 | 469 | 469 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,563 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 160 | | | | | | | | | | | | | | | | 160 |
| Stamp duty | | 2 | | | | | | | | | | | | | | | | 2 |
| Purchase fees | | 4 | | | | | | | | | | | | | | | | 4 |
| Total | | 166 | | | | | | | | | | | | | | | | 166 |
| Build costs | | | | | | | | | | | | | | | | | | |
| Market housing | | 0 | 0 | 0 | 0 | 66 | 197 | 197 | 197 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 668 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 5 | 15 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 51 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 2 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 4 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 37 |
| Total | | 13 | 13 | 13 | 13 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 768 |
| Dev costs | | | | | | | | | | | | | | | | | | |
| Uplift | 6.8% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build related | 6.8% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Abnormals | 3% | 12 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 52 |
| Total | | 12 | 12 | 12 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 128 |
| Fees | | | | | | | | | | | | | | | | | | |
| Fees on build costs | 10.0% | 0 | 0 | 0 | 0 | 8 | 23 | 23 | 23 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 77 |
| Fees on dev costs | 8.0% | 2 | 2 | 2 | 2 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total | | 2 | 2 | 2 | 2 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 87 |
| PG | | | | | | | | | | | | | | | | | | |
| Planning gain | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 30 |
| Grant | | | | | | | | | | | | | | | | | | |
| Grant | | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Other | | | | | | | | | | | | | | | | | | |
| Planning Survey | £515 | 5 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Marketing | £500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 16 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 10 |
| Total costs | | 200 | 209 | 24 | 40 | 110 | 279 | 259 | 269 | 16 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Net profit/loss from quarter | | -200 | -29 | -24 | -40 | -110 | -279 | -102 | 200 | 453 | 453 | 0 | 0 | 0 | 0 | 0 | 0 | 321 |
| Profit/loss bf from last quarter | | 0 | -204 | -237 | -266 | -312 | -430 | -722 | -840 | -652 | -203 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| Cumulative profit/loss | | -200 | -233 | -262 | -306 | -422 | -709 | -825 | -640 | -199 | 250 | 255 | 255 | 255 | 255 | 255 | 255 | 255 |
| Interest | 7.50% | 4 | 4 | 5 | 6 | 8 | 13 | 15 | 12 | 4 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Charged at | 7.50% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | -204 | -237 | -266 | -312 | -430 | -722 | -840 | -652 | -203 | 255 | 255 | 255 | 255 | 255 | 255 | 255 | -66 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | 254 |

SITE 15: Small urban brownfield

Scenario & option Affordable 10% = 70% social rented 30% intermediate

Input assumptions

East Staffs Viability

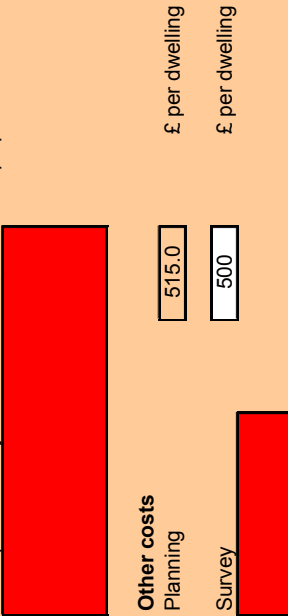
| | |
|---------------|----------------------|
| Site details | |
| Site | 15. Small brownfield |
| Location | Urban |
| Area | 0.20 ha |
| | 0.49 acres |
| No dwgs | 8 |
| Density dw/ha | 40.0 |

Dwellings

| | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Dwellings | | | | | |
| Market housing | 765 | 765 | 82.00 | 1.000 | 180.00 |
| Affordable soc rent | 765 | 765 | 82.00 | 82.00 | 75.00 |
| Affordable sh oship | 765 | 765 | 82.00 | 82.00 | 125.00 |

| | % of dwgs | % of units | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|--------------------|-----------|------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Total dwgs | 90.00% | 90.00% | 765 | 765 | 82.00 | 1.000 | 180.00 |
| | 7.2 | 7.00% | 765 | 765 | 82.00 | 82.00 | 75.00 |
| | 0.6 | 7.00% | 765 | 765 | 82.00 | 82.00 | 125.00 |
| Total units | 100.00% | 100.00% | 6,120 | 6,120 | 82.00 | 82.00 | 125.00 |

Floorspace density = 12,384 net sq ft per acre



| | Contingency allowance | Development costs standard % build | plus abnormals | Total | Design fees on build costs | on dev costs | Planning gain & Grant contributions PG £ per dwg | Grant £ per dwg | PG ALL |
|--|-----------------------|------------------------------------|----------------|-------|----------------------------|--------------|--|-----------------|--------|
| | 5.00% | 14.50% | 14.0% | 29% | 10.0% | 8% | 3,000 | 0 | 0 |

Notes

SITE 15 LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---------------------|---------------|----|-----|-----|-------------------|-----|-----|-----|---------------------|-----|-----|-----|---------------------|-----|-----|-----|--------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| | Units started | | | | Units 'built' +2Q | | | | Units completed +3Q | | | | Units purchased +4Q | | | | |
| Market housing | 0 | 0 | 1.8 | 2.7 | 2.7 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 7.2 |
| Affordable soc rent | | | 0.1 | 0.2 | 0.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.6 |
| Affordable sh oship | | | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| TOTAL | 0 | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.0 |
| Market housing | | | | | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | | | | | 0 | 2 | 3 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Affordable soc rent | | | | | | | | | | | | | | | | | 1 |
| Affordable sh oship | | | | | | | | | | | | | | | | | 0 |
| 0 | | | | | | | | | | | | | | | | | 0 |
| 0 | | | | | | | | | | | | | | | | | 0 |

| Land | Iterate to achieve 20.0% profit | | Hectare | |
|----------------------|---------------------------------|---------------|------------|---------------|
| | Affordable | No affordable | Affordable | No affordable |
| Land purchase price | £ 25,621 | £ 59,106 | | |
| RV per acre | £ 51,844 | £ 119,599 | £128,106 | £295,528 |
| Dev profit | £ 170,888 | £ 183,790 | | |
| Total costs | £ 876,307 | £ 918,485 | | |
| profit as % of costs | 19.50% | 20.01% | | |

SITE 15 CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|--|-------|------------|------------|-------------|-------------|-------------|-------------|-------------|-------------|------------|----------|----------|----------|----------|----------|----------|----------|--------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 991 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 248 | 372 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 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 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -9 | -13 | -13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -35 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 262 | 392 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,047 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Land acquisition | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Stamp duty | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Purchase fees | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 26 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 26 |
| Build costs | | 0 | 0 | 0 | 0 | 0 | 0 | 169 | 169 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 452 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 15 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Total | | 10 | 10 | 10 | 10 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 527 |
| Dev costs | | 10 | 10 | 10 | 10 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Upfront | 7.3% | 0 | 0 | 0 | 0 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Build related | 7.3% | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 37 | 74 |
| Abnormals | 14% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 4 | 4 | 4 | 4 | 13 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 150 |
| Fees | | 4 | 4 | 4 | 4 | 13 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Fees on build costs | 10.0% | 0 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Fees on dev costs | 8.0% | 4 | 4 | 4 | 4 | 12 | 20 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 65 |
| Total | | 0 | 6 | 6 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| PG | | 0 | 6 | 6 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Planning gain | | 0 | 6 | 6 | 6 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Grant | | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 4 |
| Grant Total | £515 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 | 4 |
| Other | £500 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Survey | £0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Marketing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | 82 | 52 | 28 | 35 | 169 | 217 | 226 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Sales fees | | 82 | 52 | 28 | 35 | 169 | 217 | 226 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Total costs | | -82 | -52 | -28 | -35 | -169 | -217 | -226 | -13 | -13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 835 |
| Net profit/loss from quarter | | 0 | -83 | -137 | -168 | -207 | -383 | -612 | -587 | 379 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 211 |
| Profit/loss bf from last quarter | | 0 | -83 | -137 | -168 | -207 | -383 | -612 | -587 | -212 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 170 |
| Cumulative profit/loss | | -82 | -135 | -165 | -203 | -376 | -601 | -576 | -208 | 168 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | -41 |
| Interest | 7.50% | -2 | -3 | -3 | -4 | -7 | -11 | -11 | -4 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Charged at Total | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Cumulative developer profit carried forward to RV calc | | -83 | -137 | -168 | -207 | -383 | -612 | -587 | -212 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 171 | 170 |

SITE 16: Village brownfield

SITE 16 LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|-----------------------------|--|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| | Hectare | | | | | | | | | | | | | | | | |
| Units started | Iterate to achieve 20.0% profit | | | | | | | | | | | | | | | | |
| Market housing | Affordable No affordable Affordable No affordable | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units 'built' +2Q | Land purchase price | | | | | | | | | | | | | | | | |
| Market housing | £ 104,817 | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units completed +3Q | RV per acre | | | | | | | | | | | | | | | | |
| Market housing | £ 353,490 | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units purchased +4Q | Dev profit | | | | | | | | | | | | | | | | |
| Market housing | £ 169,870 | | | | | | | | | | | | | | | | |
| Affordable soc rent | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| profit as % of costs | Total costs | | | | | | | | | | | | | | | | |
| | £ 871,008 | | | | | | | | | | | | | | | | |
| | £ 19.50% | | | | | | | | | | | | | | | | |
| | £ 183,299 | | | | | | | | | | | | | | | | |
| | £ 916,376 | | | | | | | | | | | | | | | | |
| | £ 20.00% | | | | | | | | | | | | | | | | |
| | £ 873,475 | | | | | | | | | | | | | | | | |
| | £ 1,171,104 | | | | | | | | | | | | | | | | |

SITE 16 CASH FLOW AFFORDABLE

| INCOME | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|-------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 141 | 424 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 989 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 4 | 12 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 3 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 22 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -5 | -15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -35 |
| Total income | | 0 | 0 | 0 | 0 | 0 | 0 | 149 | 446 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,040 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 105 | | | | | | | | | | | | | | | | 105 |
| Land acquisition | | 1 | | | | | | | | | | | | | | | | 1 |
| Stamp duty | | 3 | | | | | | | | | | | | | | | | 3 |
| Purchase fees | | | | | | | | | | | | | | | | | | 109 |
| Total | | 0 | 0 | 0 | 0 | 60 | 181 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 423 |
| Build costs | | 0 | 0 | 0 | 0 | 5 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| Market housing | | 0 | 0 | 0 | 0 | 2 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 3 | 10 | 10 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Total | | 6 | 6 | 6 | 6 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 493 |
| Upfront | 5.3% | 0 | 0 | 4 | 11 | | | | | | | | | | | | | 26 |
| Build related | 5.3% | 25 | 25 | | | | | | | | | | | | | | | 50 |
| Abnormals | 10% | | | | | | | | | | | | | | | | | 50 |
| Total | | 3 | 3 | 1 | 1 | 7 | 21 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 102 |
| Fees | | | | | | | | | | | | | | | | | | 49 |
| Fees on build costs | 10.0% | 3 | 3 | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Fees on dev costs | 8.0% | | | | | | | | | | | | | | | | | 58 |
| Total | | 1 | 1 | 3 | 9 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| PG | | | | | | | | | | | | | | | | | | 21 |
| Planning gain | | | | | | | | | | | | | | | | | | 0 |
| Total | | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grant | | | | | | | | | | | | | | | | | | 4 |
| Grant | £515 | | | | | | | | | | | | | | | | | 4 |
| Other | £500 | | | | | | | | | | | | | | | | | 4 |
| Planning | £0 | | | | | | | | | | | | | | | | | 4 |
| Survey | | | | | | | | | | | | | | | | | | 7 |
| Marketing | | | | | | | | | | | | | | | | | | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Sales fees | | 148 | 35 | 15 | 28 | 99 | 233 | 238 | 15 | 15 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 825 |
| b/forward from above | | | | | | | | | | | | | | | | | | |
| Total costs | | -148 | -35 | -15 | -28 | -99 | -233 | -89 | 431 | 431 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 215 |
| Net profit/loss from quarter | | 0 | -150 | -189 | -208 | -240 | -345 | -588 | -690 | -690 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| Profit/loss b/forward from last quarter | | -148 | -186 | -204 | -236 | -339 | -578 | -677 | -259 | -259 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| Cumulative profit/loss | | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Interest | | -3 | -3 | -4 | -4 | -6 | -11 | -13 | -5 | -5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -46 |
| Charged at Total | | -150 | -189 | -208 | -240 | -345 | -588 | -690 | -264 | -264 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 169 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | |

SITE A: Rural 1

Scenario & option Affordable 10% = 70% social rented 30% intermediate

Input assumptions

East Staffs Viability

Site details
 Site **A. Rural Site 1**
 Location
 Area ha 0.23
 acres 0.57
 No dwgs 8
 Density dw/ha 34.8

Contingency allowance 5.00%
 £k 38

Development costs standard % build 12.00% 95
 plus abnormalities 1.3% 10
 Total 13%

Design fees on build costs 10.00% 79
 on dev costs 8%

Planning gain & Grant contributions
 PG £ per dwg 3,000 24
 Grant £ per dwg 0 0

Dwellings

| Dwellings | Market housing | Affordable soc rent | Affordable sh oship | Total dwgs |
|-----------------------------|----------------|---------------------|---------------------|------------|
| ave floor space gross sq ft | 1,083 | 1,083 | 1,083 | 1,083 |
| ave floor space net sq ft | 1,083 | 1,083 | 1,083 | 1,083 |
| % of dwgs | 90.00% | 7.00% | 3.00% | 100.00% |
| % of units | 90.00% | 7.00% | 3.00% | 100.00% |
| build cost per sq ft | 87.00 | 87.00 | 87.00 | 87.00 |
| build index = | 1,000 | 87.00 | 87.00 | 87.00 |
| sales value per sq ft | 203.00 | 75.00 | 135.00 | |

Total dwgs 8.0 100.00% 100.00%

Floorspace density = 15,245 net sq ft per acre

Other costs
 Planning £ per dwelling 515.0
 Survey £ per dwelling 500
 Marketing £ per dwelling 0
 Interest % per annum 7.50%

Notes

PG ALL

SITE A LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | | | |
|----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|---|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | | |
| Units started | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | 1.8 | 2.7 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7.2 | |
| Affordable soc rent | | | 0.1 | 0.2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.6 | |
| Affordable sh oship | | | 0.1 | 0.1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 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 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.0 | |
| TOTAL | 0 | 0 | 2 | 3 | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8.0 | |
| Units 'built' +2Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 2 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units completed +3Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Units purchased +4Q | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | | | | | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 7 |
| Affordable soc rent | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Affordable sh oship | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | |
|--|--------------------|--------------------|--------------------|
| Iterate to achieve 20.0% profit | | Hectare | |
| Affordable | No affordable | Affordable | No affordable |
| £ 238,506 | £ 296,667 | £ 1,036,982 | £ 1,289,858 |
| £ 419,661 | £ 521,998 | | |
| £ 271,582 | £ 293,357 | | |
| £ 1,392,581 | £ 1,466,110 | | |
| 19.50% | 20.01% | | |

SITE A CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|------------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 396 | 594 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,583 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 45 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 9 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 35 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -14 | -21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -56 |
| Total income | | | | | | | | | | | | | | | | | | |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 239 | | | | | | | | 624 | | | | 0 | | | | 1,663 |
| Land acquisition | | 2 | | | | | | | | | | | | | | | | 239 |
| Stamp duty | | 7 | | | | | | | | | | | | | | | | 2 |
| Purchase fees | | | | | | | | | | | | | | | | | | 7 |
| Total | | | | | | | | | | | | | | | | | | 247 |
| Build costs | | 0 | 0 | 0 | 0 | 170 | 254 | 254 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 678 |
| Market housing | | 0 | 0 | 0 | 0 | 13 | 20 | 20 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 53 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 6 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 23 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 5.0% | 0 | 0 | 0 | 0 | 9 | 14 | 14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Total | | 12 | 12 | 12 | 12 | 18 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 791 |
| Dev costs | 6.0% | 0 | 0 | 12 | 18 | | | | | | | | | | | | | 47 |
| Upfront | 6.0% | 5 | 5 | | | | | | | | | | | | | | | 10 |
| Build related | 1% | | | | | | | | | | | | | | | | | 105 |
| Abnormals | | | | | | | | | | | | | | | | | | 79 |
| Total | | 0 | 0 | 0 | 0 | 20 | 30 | 30 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 8 |
| Fees on build costs | 10.0% | 1 | 1 | 2 | 2 | | | | | | | | | | | | | 88 |
| Fees on dev costs | 8.0% | | | | | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| Total | | | | 6 | 9 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 24 |
| PG | | | | | | | | | | | | | | | | | | 24 |
| Planning gain | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | 0 |
| Other | £515 | 1 | 1 | 1 | | | | | | | | | | | | | | 4 |
| Planning | £500 | 4 | | | | | | | | | | | | | | | | 4 |
| Survey | £0 | | | | | | | | | | | | | | | | | 0 |
| Marketing | | | | | | | | | | | | | | | | | | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 21 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 56 |
| Sales fees | | 271 | 20 | 33 | 41 | 246 | 326 | 341 | 21 | 21 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,320 |
| Total costs | | | | | | | | | | | | | | | | | | |
| Net profit/loss from quarter | | -271 | -20 | -33 | -41 | -246 | -326 | 75 | 603 | 603 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 343 |
| Profit/loss bf from last quarter | | 0 | -276 | -301 | -341 | -389 | -646 | -991 | -933 | -336 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 |
| Cumulative profit/loss | | -271 | -296 | -334 | -382 | -635 | -973 | -916 | -330 | 267 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 |
| Interest | 7.50% | -5 | -6 | -6 | -7 | -12 | -18 | -17 | -6 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -73 |
| Charged at | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Total | | -276 | -301 | -341 | -389 | -646 | -991 | -933 | -336 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 271 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | | | | | | | | | |

SITE B: Rural 2

Scenario & option: Affordable 10% = 70% social rented 30% intermediate

Input assumptions

East Staffs Viability

Site details

| | |
|---------------|-----------------|
| Site | B. Rural Site 2 |
| Location | |
| Area | 0.20 ha |
| | 0.49 acres |
| No dwgs | 6 |
| Density dw/ha | 30.0 |

Contingency allowance 2.50% £k 14

Development costs standard % build 12.00% 67

plus abnormalities 0.0% 0

Total 12%

Design fees on build costs 10.0% 56

on dev costs 8%

Planning gain & Grant contributions PG £ per dwg 3,000 18

Grant £ per dwg 0 0

PG ALL

Dwellings

Dwellings

| | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 1,030 | 1,030 | 88.50 | 1.000 | 210.00 |
| Affordable soc rent | 1,030 | 1,030 | 88.50 | 88.50 | 75.00 |
| Affordable sh oship | 1,030 | 1,030 | 88.50 | 88.50 | 135.00 |

| | % of dwgs | % of units | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|-------------|-----------|------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Total dwgs | 90.00% | 90.00% | 1,030 | 1,030 | 88.50 | 1.000 | 210.00 |
| | 7.00% | 7.0% | 1,030 | 1,030 | 88.50 | 88.50 | 75.00 |
| | 3.00% | 3.0% | 1,030 | 1,030 | 88.50 | 88.50 | 135.00 |
| Total units | 100.00% | 100.0% | 6,180 | 6,180 | £546,930 | | £1,225,494 |

Floorspace density = 12,505 net sq ft per acre

Other costs

| | | |
|----------------------|-------|----------------|
| Planning | 515.0 | £ per dwelling |
| Survey | 200 | £ per dwelling |
| Marketing | 0 | £ per dwelling |
| Interest % per annum | 7.50% | |

Notes

SITE B LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS | | | | | | | | | | | | | | |
|----------------------------|---|---------------|-----------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------------|--|--|--|------------|---------------|---------|--|-----------|-----------|-----------------------------|--|-------------|-------------|--------------------------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | | | | | | | | | | | | | | | |
| | Hectare | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Units started | <table border="0" style="width:100%; border:none;"> <tr> <td style="width:50%;"></td> <td style="text-align:center;">Iterate to achieve 20.0% profit</td> <td style="width:50%;"></td> </tr> <tr> <td></td> <td style="text-align:center;">Affordable</td> <td style="text-align:center;">No affordable</td> <td style="text-align:center;">Hectare</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 210,251</td> <td style="text-align:center;">£ 254,735</td> <td style="text-align:center;">Affordable No affordable</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 425,437</td> <td style="text-align:center;">£ 515,449</td> <td style="text-align:center;">£1,051,255 £1,273,675</td> </tr> </table> | | | | | | | | | | | | | | | | | Iterate to achieve 20.0% profit | | | Affordable | No affordable | Hectare | | £ 210,251 | £ 254,735 | Affordable No affordable | | £ 425,437 | £ 515,449 | £1,051,255 £1,273,675 |
| | Iterate to achieve 20.0% profit | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Affordable | No affordable | Hectare | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 210,251 | £ 254,735 | Affordable No affordable | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 425,437 | £ 515,449 | £1,051,255 £1,273,675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 0 | 0 | 2 | 2 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 5.4 | | | | | | | | | | | | | | |
| Affordable soc rent | | | 1.8 | 1.8 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.4 | | | | | | | | | | | | | | |
| Affordable sh oship | | | 0.1 | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 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 | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | | | | | | | | | | | | | | |
| TOTAL | 0 | 0 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 6.0 | | | | | | | | | | | | | | |
| Units 'built' +2Q | <table border="0" style="width:100%; border:none;"> <tr> <td style="width:50%;"></td> <td style="text-align:center;">19.50%</td> <td style="width:50%;"></td> </tr> <tr> <td></td> <td style="text-align:center;">Affordable</td> <td style="text-align:center;">No affordable</td> <td style="text-align:center;">Hectare</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 200,116</td> <td style="text-align:center;">£ 216,460</td> <td style="text-align:center;">Affordable No affordable</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 1,026,053</td> <td style="text-align:center;">£ 1,082,015</td> <td style="text-align:center;">£1,051,255 £1,273,675</td> </tr> </table> | | | | | | | | | | | | | | | | | 19.50% | | | Affordable | No affordable | Hectare | | £ 200,116 | £ 216,460 | Affordable No affordable | | £ 1,026,053 | £ 1,082,015 | £1,051,255 £1,273,675 |
| | 19.50% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Affordable | No affordable | Hectare | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 200,116 | £ 216,460 | Affordable No affordable | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 1,026,053 | £ 1,082,015 | £1,051,255 £1,273,675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| Units completed +3Q | <table border="0" style="width:100%; border:none;"> <tr> <td style="width:50%;"></td> <td style="text-align:center;">20.01%</td> <td style="width:50%;"></td> </tr> <tr> <td></td> <td style="text-align:center;">Affordable</td> <td style="text-align:center;">No affordable</td> <td style="text-align:center;">Hectare</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 216,460</td> <td style="text-align:center;">£ 216,460</td> <td style="text-align:center;">Affordable No affordable</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 1,082,015</td> <td style="text-align:center;">£ 1,082,015</td> <td style="text-align:center;">£1,051,255 £1,273,675</td> </tr> </table> | | | | | | | | | | | | | | | | | 20.01% | | | Affordable | No affordable | Hectare | | £ 216,460 | £ 216,460 | Affordable No affordable | | £ 1,082,015 | £ 1,082,015 | £1,051,255 £1,273,675 |
| | 20.01% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Affordable | No affordable | Hectare | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 216,460 | £ 216,460 | Affordable No affordable | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 1,082,015 | £ 1,082,015 | £1,051,255 £1,273,675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| Units purchased +4Q | <table border="0" style="width:100%; border:none;"> <tr> <td style="width:50%;"></td> <td style="text-align:center;">20.01%</td> <td style="width:50%;"></td> </tr> <tr> <td></td> <td style="text-align:center;">Affordable</td> <td style="text-align:center;">No affordable</td> <td style="text-align:center;">Hectare</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 216,460</td> <td style="text-align:center;">£ 216,460</td> <td style="text-align:center;">Affordable No affordable</td> </tr> <tr> <td></td> <td style="text-align:center;">£ 1,082,015</td> <td style="text-align:center;">£ 1,082,015</td> <td style="text-align:center;">£1,051,255 £1,273,675</td> </tr> </table> | | | | | | | | | | | | | | | | | 20.01% | | | Affordable | No affordable | Hectare | | £ 216,460 | £ 216,460 | Affordable No affordable | | £ 1,082,015 | £ 1,082,015 | £1,051,255 £1,273,675 |
| | 20.01% | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | Affordable | No affordable | Hectare | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 216,460 | £ 216,460 | Affordable No affordable | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | £ 1,082,015 | £ 1,082,015 | £1,051,255 £1,273,675 | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Market housing | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 2 | 5 | | | | | | | | | | | | | | |
| Affordable soc rent | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| Affordable sh oship | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |
| 0 | | | | | | | | | | | | | | | | | 0 | | | | | | | | | | | | | | |

SITE B CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---|-------|--------|------|------|------|--------|------|------|------|--------|-----|-----|-----|--------|-----|-----|-----|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 389 | 389 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,168 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 32 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 8 | 8 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 25 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -14 | -14 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -41 |
| Total income | | | | | | | | | | | | | | | | | | |
| 1,225 | | | | | | | | | | | | | | | | | | |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 210 | | | | | | | | | | | | | | | | 210 |
| Land acquisition | | 2 | | | | | | | | | | | | | | | | 2 |
| Stamp duty | | 6 | | | | | | | | | | | | | | | | 6 |
| Purchase fees | | | | | | | | | | | | | | | | | | 218 |
| Total | | | | | | | | | | | | | | | | | | 492 |
| Build costs | | 0 | 0 | 0 | 0 | 164 | 164 | 164 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | | 0 | 0 | 0 | 0 | 13 | 13 | 13 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 38 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 16 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 2.5% | 0 | 0 | 0 | 0 | 5 | 5 | 5 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Total | | 8 | 8 | 8 | 8 | 11 | 11 | 11 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 561 |
| Dev costs | 6.0% | 0 | 0 | 11 | 11 | | | | | | | | | | | | | 34 |
| Upfront | 6.0% | 0 | 0 | | | | | | | | | | | | | | | 0 |
| Build related | 0% | 0 | 0 | | | | | | | | | | | | | | | 67 |
| Abnormals | | 0 | 0 | | | | | | | | | | | | | | | 56 |
| Total | | 0 | 0 | 0 | 0 | 19 | 19 | 19 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Fees | 10.0% | 1 | 1 | 2 | 2 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Fees on build costs | 8.0% | | | | | | | | | | | | | | | | | 61 |
| Fees on dev costs | | | | | | | | | | | | | | | | | | 18 |
| Total | | | | 6 | 6 | 6 | 6 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 18 |
| PG | | | | | | | | | | | | | | | | | | 0 |
| Planning gain | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | 0 |
| Other | £515 | 1 | 1 | 1 | | | | | | | | | | | | | | 3 |
| Planning | £200 | 1 | | | | | | | | | | | | | | | | 1 |
| Survey | £0 | | | | | | | | | | | | | | | | | 0 |
| Marketing | | | | | | | | | | | | | | | | | | 0 |
| Total | | 0 | 0 | 0 | 0 | 0 | 0 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 41 |
| Sales fees b/forward from above | | 229 | 10 | 28 | 27 | 224 | 206 | 219 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 14 | 971 |
| Total costs | | | | | | | | | | | | | | | | | | |
| Net profit/loss from quarter | | -229 | -10 | -28 | -27 | -224 | -206 | 189 | 395 | 395 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 254 |
| Profit/loss bf from last quarter | | 0 | -234 | -248 | -282 | -315 | -548 | -768 | -589 | -198 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 0 |
| Cumulative profit/loss | | -229 | -244 | -277 | -309 | -538 | -754 | -579 | -195 | 196 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 0.00% |
| Interest | 7.50% | -4 | -5 | -5 | -6 | -10 | -14 | -11 | -4 | 4 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0.00% |
| Charged at | 7.50% | | | | | | | | | | | | | | | | | 0.00% |
| Total | | -234 | -248 | -282 | -315 | -548 | -768 | -589 | -198 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | -55 |
| Cumulative developer profit carried forward to RV calc | | | | | | | | | | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 200 | 199 |

SITE C: Rural 3

Input assumptions | Scenario & option | Affordable 10% = 70% social rented 30% intermediate

East Staffs Viability

| | |
|---------------------|------------------------|
| Site details | C. Rural Site 3 |
| Site Location | |
| Area | 0.17 ha |
| | 0.42 acres |
| No dwgs | 4 |
| Density dw/ha | 23.5 |

£k

Contingency allowance 2.50% 12

Development costs standard % build 12.00% 57

plus abnormalities 0.0% 0

Total 12%

Design fees on build costs 10.0% 48

on dev costs 8%

Planning gain & Grant contributions PG £ per dwg 3,000 12

Grant £ per dwg 0 0

PG ALL

Dwellings

| Dwellings | ave floor space gross sq ft | net sq ft | build cost per sq ft | build index = | sales value per sq ft |
|---------------------|-----------------------------|-----------|----------------------|---------------|-----------------------|
| Market housing | 1,286 | 1,286 | 90.50 | 1.000 | 210.00 |
| Affordable soc rent | 1,286 | 1,286 | 90.50 | 90.50 | 75.00 |
| Affordable sh oship | 1,286 | 1,286 | 90.50 | 90.50 | 135.00 |

Total dwgs 4.0 100.00% 100.00%

0 0 0.00 0.00 0.00

0 0 0.00 0.00 0.00

Total units 4.0 100.00% 5,144 £465,532 £1,020,055

Floorspace density = 12,246 net sq ft per acre



Other costs Planning 515.0 £ per dwelling

Survey 200 £ per dwelling



Marketing 0 £ per dwelling

Interest 7.50% per annum

Notes

SITE C LAND COST & PHASING

| Programme | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|---------------------|---------------|----|-----|-----|-------------------|-----|-----|-----|---------------------|-----|-----|-----|---------------------|-----|-----|-----|--------|
| | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| | Units started | | | | Units 'built' +2Q | | | | Units completed +3Q | | | | Units purchased +4Q | | | | |
| Market housing | 0 | 0 | 1.8 | 1.8 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.6 |
| Affordable soc rent | | | 0.1 | 0.1 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.3 |
| Affordable sh oship | | | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 |
| 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 |
| TOTAL | 0 | 0 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4.0 |
| Market housing | | | 2 | 2 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Affordable soc rent | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | | | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Affordable soc rent | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Market housing | | | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 4 |
| Affordable soc rent | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Affordable sh oship | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |

| Land | Iterate to achieve 20.0% profit | | Hectare | |
|----------------------|---------------------------------|---------------|------------|---------------|
| | Affordable | No affordable | Affordable | No affordable |
| Land purchase price | £ 167,539 | £ 204,788 | | |
| RV per acre | £ 398,837 | £ 487,508 | £985,525 | £1,204,633 |
| Dev profit | £ 166,559 | £ 180,182 | | |
| Total costs | £ 854,096 | £ 900,658 | | |
| profit as % of costs | 19.50% | 20.01% | | |

SITE C CASH FLOW AFFORDABLE

| | rate | Year 1 | | | | Year 2 | | | | Year 3 | | | | Year 4 | | | | TOTALS |
|-------------------------------------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|-------|-------|-------|--------|
| | | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | Q1 | Q2 | Q3 | Q4 | |
| INCOME | | | | | | | | | | | | | | | | | | |
| Housing sales | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 972 |
| Market housing | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 27 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 21 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | -17 | -17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -34 |
| Total income | | | | | | | | | | | | | | | | | | |
| | | 0 | 0 | 0 | 0 | 0 | 0 | 510 | 510 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1,020 |
| COSTS | | | | | | | | | | | | | | | | | | |
| Land | | 168 | | | | | | | | | | | | | | | | 168 |
| Stamp duty | | 2 | | | | | | | | | | | | | | | | 2 |
| Purchase fees | | 5 | | | | | | | | | | | | | | | | 5 |
| Total | | | | | | | | | | | | | | | | | | 174 |
| Build costs | | 0 | 0 | 0 | 0 | 209 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 419 |
| Market housing | | 0 | 0 | 0 | 0 | 16 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 33 |
| Affordable soc rent | | 0 | 0 | 0 | 0 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 14 |
| Affordable sh oship | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| 0 | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Build contingency | 2.5% | 0 | 0 | 0 | 0 | 6 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 12 |
| Total | | | | | | | | | | | | | | | | | | 477 |
| Dev costs | | 7 | 7 | 7 | 7 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Upfront | 6.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 29 |
| Build related | 6.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Abnormals | 0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | | | | | | | | | | | | | | | | | 57 |
| Fees | | 0 | 0 | 0 | 0 | 24 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 48 |
| Fees on build costs | 10.0% | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Fees on dev costs | 8.0% | 1 | 1 | 2 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 5 |
| Total | | | | | | | | | | | | | | | | | | 52 |
| PG | | | | | | | | | | | | | | | | | | 12 |
| Planning gain | | | | | | | | | | | | | | | | | | 12 |
| Total | | | | | | | | | | | | | | | | | | 12 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Grant | | | | | | | | | | | | | | | | | | 0 |
| Total | | | | | | | | | | | | | | | | | | 0 |
| Other | | | | | | | | | | | | | | | | | | 0 |
| Planning | £515 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| Survey | £200 | 1 | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| Marketing | £0 | | | | | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| Total | | | | | | | | | | | | | | | | | | 3 |
| Sales fees | | 0 | 0 | 0 | 0 | 0 | 0 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 34 |
| Total costs | | 183 | 8 | 30 | 29 | 262 | 262 | 17 | 17 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 810 |
| Net profit/loss from quarter | | | | | | | | | | | | | | | | | | |
| | | -183 | -8 | -30 | -29 | -262 | -262 | 493 | 493 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 210 |
| Profit/loss bf from last quarter | | 0 | -186 | -198 | -232 | -266 | -539 | -816 | -329 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 167 |
| Cumulative profit/loss | | -183 | -195 | -228 | -262 | -529 | -801 | -323 | 163 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 167 |
| Interest | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 7.50% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% | 0.00% |
| Charged at | | -3 | -4 | -4 | -5 | -10 | -15 | -6 | 3 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | -44 |
| Total | | -186 | -198 | -232 | -266 | -539 | -816 | -329 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 167 | 166 |

