

Lichfield District Council

Final Report
April 2010



-

Executive summary

Introduction

S1 Fordham Research was commissioned by Lichfield District Council to carry out a study of affordable housing viability in the District. The viability study is intended to inform ongoing work on the preparation of Local Development Frameworks (LDF).

S2 Government Guidance in 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'.

Technical approach

The study involved preparing financial appraisals for a representative range of sites to give a picture of the district wide ability of such sites to afford given targets for affordable housing. The approach was to 'model' viability using a range of variables and our bespoke spreadsheet software. The key features were:

- i) A set of 15 sites was selected, in discussion with the Council, from a longer list of possible sites. All were considered to be representative.
- ii) The sites covered a wide range of site size (3 dwellings to 314), types (greenfield and 'brownfield') and urban/rural areas
- iii) The sites were at various stages in the development process, including sites within the District Council's Strategic Housing Land Availability Assessment where there is at present no policy commitment to development.
- A typical development in the council area might generate 15,500 sq ft per acre (3,550 sq m per ha). However this 'floorspace density' was varied up (for more urban sites) and down for more rural sites to reflect plausible development scenarios for each site. A wide range of data was collected about housing in the district; this included prices (second-hand, and newbuild, of which there is a reasonable supply locally), rents and RSL information about affordable housing costs. The map below illustrates house price variations across the District.

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Property prices
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Figure S1 Postcode price indices

Indices compare prices to value for median postcode sector in England & Wales Source: Lichfield Affordable Housing Viability Study, Fordham Research 2009

Testing the sites

S5

In order to provide reliable evidence on deliverability, the sites were examined under a range of assumptions about the key factors affecting viability:

i) Affordable housing target levels of 20%, 30% and 40%

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- ii) Affordable housing split 80% social rented and 20% 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) A base case of zero Social Housing Grant, the safest assumption for this purpose; plus levels of planning gain
- v) Level 3 of the Code for Sustainable Homes was assumed, and also the RSS requirement for 10% renewable energy.
- vi) Abnormal costs were taken into account where the sites indicated they were likely

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Clearly this range of elements generated a large range of possible outcomes. These 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 typically agricultural in rural areas and industrial in urban ones.

Appraisal outcomes

S6

- S7 The general result with no affordable housing and no grant indicated residual values:
 - i) Ranging between £100k and £1.4m per acre (£250k £3.46m per ha)
 - ii) A typical range of £200-£500k per acre (£500-£1.24m per ha)
- These values are a bit below the main alternative source (VOA: Valuation Office Agency) published data, and the very limited land sales information available in the credit crunch. The first of these sources is a little out of date, however, which is material in a falling market. However this finding does suggest that our valuations are on the safe side.
- As affordable housing contributions are included, so the land values fall. The size of the effect can be summarised for a typical site showing £500k per acre without affordable housing (£1.24m per ha):
 - i) Target of 20%: reduced to £250k per acre (£620k per ha)
 - ii) Target of 30%: reduced to £130k per acre (£320k per ha)
- These typical findings vary considerably with site type. The worst performing are high density sites (such as blocks of flats) as the land value is proportionately much less of the overall site value, and is hit harder by the effect of a rising target.
- The lowest alternative use value, which as usual is agricultural, was judged to be £10k per acre (£25k per ha). However to produce a land sale the price would clearly have to be higher than that. The size of the required 'cushion' of extra value required to produce a land supply is always debateable, and the views take vary with the nature of the interest. After consideration, we took the view that 'cushion' should in this case be £75k per acre (£185k per ha).
- Applying this approach, the results for the 15 sites can be summarised (and show in the Figure below):
 - i) Even at 100% market housing only 10 sites were fully viable (plus 3 were marginal)
 - ii) At a 20% target 6 were viable (plus 2 marginal)

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- iii) At a 30% target 3 sites were viable (and 2 were marginal)
- iv) At 40% only 1 site was viable (with another marginal)

Table S1 Appraisal outcomes: zero grant							
				Value :	£k per acre		
No	Site	Alt use value	No affordable	20%	30%	40%	50%
1	Old Hall Farm	10/	203	23	-71	-166	-263
!	Old Flaii Failii	85	VIABLE	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB
2	South Burntwood	10/	191	6	-91	-190	-289
4	South Burntwood	85	VIABLE	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
,	Pigon Congreta	265/	290	71	-41	-157	-272
3	Bison Concrete	340	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
	0.06	10/	344	138	33	-75	-186
4	S Shortbutts Lane	85	VIABLE	VIABLE	MARGINAL	NOT VIAB	NOT VIAB
_	Park Lane Mile	10/	402	191	85	-25	-139
5	Oak	85	VIABLE	VIABLE	VIABLE	NOT VIAB	NOT VIAB
	Lynn Lane	275/	521	269	144	14	-121
6	Shenstone	350	VIABLE	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
_	Abattoir Chase	172/	-196		-548	-669	-789
7	7 Aballon Chase Terr	247	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
	- L O M'''	201/	240	39	-65	-171	-278
8	Fazeley Saw Mill	276	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
	Handsacre Serv	90/	105	-230	-399	-571	-743
9	Stn	165	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
4.0	Miletatic estado On Oak	187/	521	246	101	-45	-194
10	Whittington Gr Sch	262	VIABLE	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB
	0 1 15	161/	585	328	199	64	-73
11	Orchard Farm	236	VIABLE	VIABLE	MARGINAL	NOT VIAB	NOT VIAB
10	0 0	275/	175	-253	-470	-687	-906
12	Central Garage	350	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
10	Master Dist	179/	1,378	895	643	397	136
13	Mastrom Printers	254	VIABLE	VIABLE	VIABLE	VIABLE	NOT VIAB
	Miller and Date	75/	723	410	245	78	-90
14	Millbrook Drive	150	VIABLE	VIABLE	VIABLE	MARGINAL	NOT VIAB
	D T	100/	421	199	85	-31	-147
15	Pear Tree Cottage	175	VIABLE	VIABLE	NOT VIAB	NOT VIAB	NOT VIAB

Source: Lichfield Affordable Housing Viability Study, Fordham Research 2009



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On this basis, we would suggest that a 20% target is broadly reasonable for the whole district. As can be seen from the summary above, that target does not radically alter the position with no affordable housing, but higher target levels do. Such a target should be capable of exceptions where applicants can show, in a transparent manner, that there are extra site specific costs which indicate a lower target.

- There is, however, a systematic variation in the viability results: they are far higher in rural areas, and lower in urban ones. Thus it would be possible to envisage separate rural and urban targets.
- We also considered whether it would be sensible to use a lower site threshold than the standard 15 dwelling one in CLG Guidance. We found that it is, in the rural areas, although extending it to urban areas would require further work.

Dynamic Viability analysis

- This is designed to overcome a dilemma created by the Credit Crunch. 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 current level of around 40-50%. The downturn following the Credit Crunch meant that target 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 (such targets only apply to market housing developments, not to ones that are fully funded by public grants).
- S17 Fordham Research has 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 Inquiry 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.
- In order to generate the data below it is necessary to agree a Benchmark Site. This is necessary to permit a reasonably simple outcome. In the case of Lichfield that site is No 4: South of Shortbutts Lane. As will be seen from Table 6.3 this is marginal at a 30% target. We consider that 20% is a reasonable target in the present market. The benchmark site is judged to be typical of future development sites in the Borough, and will remain so for the plan period. This is immaterial of whether the site itself is built. Sites of this character will remain typical: this is the assumption.
- In order to provide the LDF Examination and its Inspector with a robust range of variation, wider than is likely to arise during the plan period, the detailed tables shown in Chapter 8 below contain three layers of detail:



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- i) Coarse matrix: this is based on 10% intervals in the indexes and therefore shows a very wide range. It goes from price/cost falls of -20% to price/cost rises of 50-60%. These are greater than are likely to arise in the plan period, but the array does provide the widest likely range of target possibilities.
- ii) Fine matrix. This is based on 4% intervals in the indexes and is designed to provide workable jumps between target levels. The Coarse matrix can imply leaps of 10 or 20% in targets, which would not be workable in practice. The Fine matrix normally overcomes that by typically generating 5% levels of change. In Lichfield's case, however, the Fine matrix did not uniformly achieve this.
- iii) Hence we have produced in Lichfield's case only a Superfine matrix based on 2% intervals in the indexes.
- The figure below shows the Superfine Matrix, with intervals of 2% in the indexes. As can be seen from examining the 0%/0% point (the 20% deliverable affordable housing target) the changes around that point either show no change or 5% movements. This appears a reasonable level of movement for a target.

Figure S2 Superfine Matrix: base alternative use value											
	Price Change HPI										
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
qex	-4%	274.8	20%	20%	25%	25%	30%	30%	30%	35%	35%
BCIS Index	-2%	280.6	15%	20%	20%	25%	25%	25%	30%	30%	35%
BC	0%	286.3	10%	15%	20%	20%	25%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	15%	20%	20%	25%	25%	30%
ပို	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	15%	20%	20%	25%
_	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%

Source: Figure 8.4 below

- From Figure S2 it can be seen that if the indices for price and cost move from the 0%/0% point on price and cost the target will either stay at 20% or move by 5% steps up or down.
- The way in which this works is that at periodic intervals: the obvious one being the Annual Monitoring Report which all councils produce, the indexes are examined to see whether their movement has been enough to trigger a target change.
- S23 There are three indexes to be checked, and this needs to be done in an order:



- i) Firstly has the Alternative Use Value index changed enough to trigger a shift from the base table to one of the other eight tables? If it has, then the latter table is used for the second step
- ii) Using whichever is the relevant Alternative Use value table, check the Halifax and BCIS indexes to see whether there has been enough change to require a target change.
- iii) In doing this the principle is to average downwards. Thus if the index change would allow the target to move from 25% to around 29%, the target should remain at 25% since the next step to 30% is not deliverable.
- Since the formal target varying procedure cannot begin until the LDF is approved, it may well be necessary to update the current figure when the LDF's Examination in Public is conducted. Figure S3 indicates this process schematically.

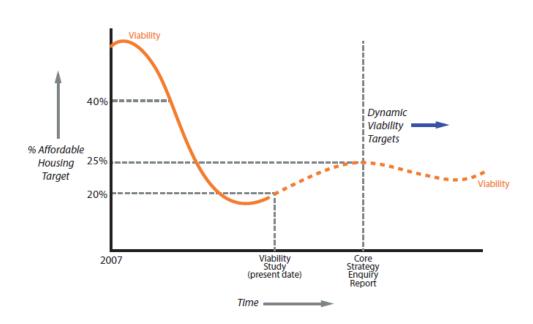


Figure S3 Implementing Dynamic Viability

Source: Lichfield Affordable Housing Viability Study, Fordham Research 2009

The diagram illustrates the possible change in viability between completion of the viability study and Core Strategy EIP. After that, of course, the Dynamic Viability matrix will take account of future variations in viability.



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Conclusion

S26

The main point is that the Dynamic Viability matrices will ensure that all future changes in the housing market are tracked by deliverable affordable housing targets.

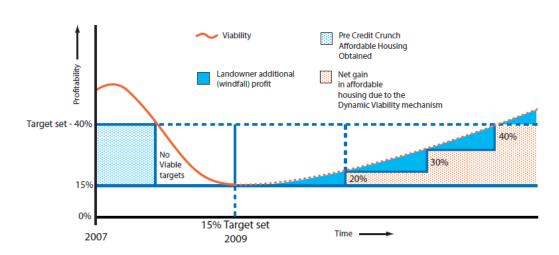


Figure S4 Gain of Affordable Housing from Dynamic Viability

Note: This diagram is schematic and does not apply to Lichfield

This figure also shows that the landowners/developers will gain from any uplift in the market (again, the 40% pre-credit crunch target shown is general and not specific to Lichfield). The basic viability assessment assures the landowner and the developer of a reasonable return. When the market goes up, the private sector will gain a windfall profit (shown by the blue areas under the viability curve) and the public interest will gain affordable housing as the targets are periodically altered.

The Dynamic Viability procedure ensures that the maximum of deliverable affordable housing is achieved.



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List of abbreviations

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



1. Introduction

Introduction

1.1 Fordham Research was commissioned by Lichfield District Council to produce guidance on the financial viability implications of alternative targets and size thresholds for affordable housing provision within the District area. The study builds in part upon results from an earlier study, a Strategic Housing Market Assessment (SHMA) for Lichfield and adjoining areas and, like that study, will provide input into the ongoing work on preparation of Local Development Documents for the District.

Reasons for this study

1.2 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) (our emphasis)

1.3 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.'

- 1.4 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.
- 1.5 The date at which this new duty was legally defined to exist coincided with the Credit Crunch 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:



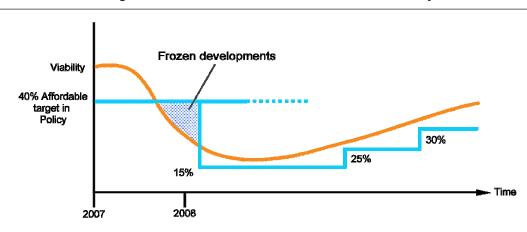


Figure 1.1 The effect of the credit crunch on viability

Source Fordham Research 2009

- 1.6 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.
- 1.7 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
- 1.8 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'



- 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.
- 1.9 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.
- 1.10 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

1.11 This means that the study is in two stages: the first being the standard viability analysis (in Chapters 4-7) and then the second stage containing the Dynamic Viability analysis in the latter part of Chapter 8.

Stage 1 viability methodology

- 1.12 The stage 1 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.
- 1.13 The appraisals tested alternative levels of affordable housing provision, in each case a combination of social rented and intermediate housing. RSLs were asked to provide guidance on the likely purchase prices they 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.
- 1.14 We surveyed the local housing market, in order to obtain a picture of sales values for the market housing, and also of 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.



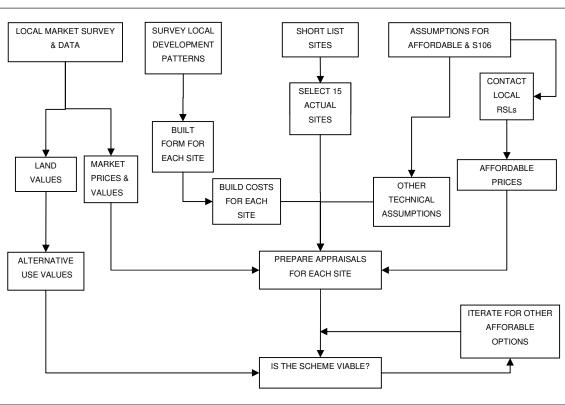


Figure 1.2 Stage 1 viability methodology

Source: Fordham Research 2009

- 1.15 A number of other technical assumptions were required before appraisals could be produced. The appraisal results were in the form of £ per acre/ha 'residual' land values, showing the maximum value a developer could pay for the site and still return a target profit level.
- 1.16 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.

Fordham Research

1.17 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.



- 1.18 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.
- 1.19 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

- 1.20 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 viability results



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.

An area of attractions

- 2.2 The District of Lichfield is located immediately to the north of the West Midlands Metropolitan area. Consequently whilst it is a large and comparatively rural area with only two sizeable urban communities, the City of Lichfield and Burntwood it closely abuts other urban areas at Brownhills and Sutton Coldfield, as well as two other major settlements in adjoining Districts. These are Rugeley, towards the north-western corner of the area, and Tamworth, which the District wraps around on three sides, to the south-east.
- 2.3 The splendid hills and wooded areas of Cannock Chase lie just to the west of the area. These and the open water of Chasewater reservoir provide important leisure opportunities for the people of Lichfield and other adjoining districts, as well as for the conurbation to the south. Cannock Chase and indeed much of Burntwood were shaped by and carry the consequences of the historic coal mining and other related activities. Much progress has been made with regeneration in Burntwood, and the open land between Lichfield and Burntwood lies within the Forest of Mercia.
- 2.4 Further north the River Trent forms the northern boundary of the District and part of the area bounding the Trent Valley, around Alrewas and Edingale, lies within the National Forest. The Trent and Mersey canal crosses the northern part of the district from the north-east to the north-west, forming a junction at Fradley with the Coventry Canal which then follows a winding course southwards, passing Lichfield and on towards Tamworth.
- 2.5 The District has good transportation links; the A5 and M6 Toll Road both cross the southern part of the District, and these roads both link with the A38 dual carriageway a short distance south of Lichfield. The West Coast Rail line runs north-west to south-east across the District, whilst a route from the conurbation towards Derby traverses and links with this at Lichfield Trent Valley Station. The station serving Rugeley is located just within the north-west corner of the District.
- 2.6 Much of the District is pleasantly rural and there are a number of attractive and sought after villages, located as they are within easy reach of the conurbation.



Identifying a range of sites

- 2.7 It was decided that for Lichfield District the required guidance on viability would best be achieved by looking at a range of site sizes, and at sites that were actual rather than notional. In discussion with the Council, it was decided that a total of fifteen 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.
- 2.8 A final list of 15 sites was established in discussion. It was chosen to give an appropriate balance between greenfield and previously developed land; a range of site sizes; and to give coverage across the five market sub-areas of Lichfield, Burntwood, Fazeley, and North and South Rural. Consequently a number of smaller settlements are represented along with the two principal urban areas, Lichfield and Burntwood.
- 2.9 The sites ranged in size from three to 300+ dwellings. Ten sites were on previously developed land, four on agricultural land and one on under-used garden land.
- 2.10 The sites were at various stages in the planning process. Six were subject to a planning application; five of these had been approved with one pending. Construction was under way on one permitted site and one was completed. The remaining nine sites were actual or potential allocations.
- 2.11 Information available from the various planning applications was taken into account in considering the appropriate development forms to use in our appraisals.

The sites

- 2.12 Summary details of the sites identified by the Councils are set out in the table below. The table shows both total site area, and where a significant area of non developable area applied, the net residential area.
- 2.13 The sites accommodated just 1,100 dwellings on an area of 25.65 ha net, giving an average density of 42.9 dwellings per ha. There is some emphasis on smaller sites, with eight of the 15 having 25 or fewer dwellings.



	Ta	able 2.1	Actual	site deta	ails	
Site	.,	Area	a ha	No	net	D
No	Name	Gross	Net	dwgs	(dw/ha)	Planning status
1	Old Hall Farm Fradley	9.00	7.90	314	39.7	Identified in SHLAA
2	South Burntwood Highfields Rd Chasetown	6.38	5.75	250	43.5	Identified in SHLAA
3	Bison Concrete Lichfield	4.09	4.09	175	42.8	Under construction
4	South Shortbutts Lane Lichfield	2.40	2.40	100	41.7	Identified in SHLAA
5	Off Park Lane Mile Oak	1.93	1.93	78	40.4	Identified in SHLAA
6	Lynn Lane Shenstone	1.07	1.07	54	50.5	Identified in SHLAA
7	Abattoir Eastgate St Chase Terrace	0.57	0.57	49	86.0	Identified in SHLAA
8	Fazeley Saw Mill	0.62	0.62	25	40.3	Identified in SHLAA
9	Handsacre Service Station	0.18	0.18	14	77.8	Planning permission
10	Whittington Grange School	0.32	0.32	12	37.4	Completed
11	Orchard Farm, Hill Ridware	0.31	0.31	9	29.0	Full permission
12	Central Garage Depot Lichfield	0.07	0.07	7	100	Identified in SHLAA
13	Mastrom Printers Park Rd Alrewas	0.17	0.17	6	35.3	Permission subject to S106
14	N of Millbrook Drive Shenstone	0.15	0.15	4	26.7	Planning permission
15	Pear Tree Cottage Lullington Rd Edingale	0.12	0.12	3	25.0	Identified in SHLAA
	Total	27.38	25.65	1,100	42.9	

Source: Fordham Research

Development assumptions

- 2.14 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. However 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 the built form in the current application remains the best basis for carrying out appraisals.
- 2.15 In recent years, as development proposals have engaged with the various implications of PPG3 but aided by rising land values, a common development format has emerged for significant sized sites in most larger urban areas, initially in the more prosperous or pressured parts of the country, but increasingly also in smaller centres. This format provides for a majority of houses (with perhaps 15-30% flats) in a mixture of two storey and two and a half to three storey form, with some rectangular emphasis to the layout.



- 2.16 Typically, these would generate a floorspace density of 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 40-45 dwellings per ha.
- 2.17 Alongside this, there are of course schemes where land is used more intensively. In many inner urban locations, and indeed sometimes elsewhere, there have been large numbers of higher density schemes providing largely or wholly apartments, in blocks of three storeys and often rather higher. These provide floorspace density from around 30,000 sq ft per acre (6,900 sq per ha) upwards, at densities of 100 dw per ha plus.
- 2.18 Even ignoring the wholly apartment schemes, sites with a stronger urban emphasis than described at above, with rather higher proportions of flats, or of three storey town houses, will typically deliver around 19,000 sq ft per acre (4,350 sq m per ha).
- 2.19 In contrast, there will be situations where, for planning reasons, particularly on small sites, in rural, edge of town or more sensitive locations, schemes with densities <u>below</u> the 15,500 sq ft per acre (3,550 sq m per ha) 'baseline' will come forward. A typical density might be around 12,500 sq ft per acre (2,850 sq m per ha).
- 2.20 These observations suggest a built form typology as set out in the table below. It comprises four categories.
- 2.21 There is a 'base' category to reflect the common urban form referred to above, i.e. giving 15,500 sq ft per acre (3,550 sq m per ha), and one less dense and two more dense variations from this starting point. We would stress that the short titles used to describe the categories have been adopted for convenience only, and <u>must not</u> be taken to imply anything specific about where, or when, they might apply.
- 2.22 The above typology was used to develop model development assumptions for the sites where actual information on planning proposals was not available.



Table 2.2 Typology of development form Density Dwellings Floorspace net Category title Built form characteristics sq ft/acre (net sq (typical m per ha) dw/ha) Edge of settlement, less pressured location. Mostly 2 12,500 20-33 storey, largely 3 & 4 bed detached houses with Lower density (2,875)garages. 15,500 Mixture of 2 & 2.5/3 storey houses, many **Base** 40-45 terraced; some (15-25%) flats, limited garaging. (3,550)19,000 Mixture of 3 storey flats (c 30-35%) and town houses. Urban 45-60 Normally no significant open space. (4,350)30,000 100+ High Flats in small blocks on 3 storeys, parking spaces (6,900)

Source: Fordham Research

2.23 The resulting assumptions for residential development for each of the 15 sites are set out in the Table below. The sites where actual data was available (shown as P in the table) conform fairly well to the sites using model data informed by the typology (shown as M).

	Table 2.3 Site development assumptions						
Site ref	Category	Development form (M/P)	Net sq ft/acre	Net sq m/ha	Ave dw net sq ft (sq m)		
1	Old Hall Farm Fradley	Base M	15,500	3,550	964 (90)		
2	South Burntwood	Base M	15,500	3,550	881 (82)		
3	Bison Concrete Lichfield	Base/Urban P	17,100	3,950	988 (92)		
4	S Shortbutts Lane Lichfield	Base M	15,500	3,550	919 (85)		
5	Park Lane Mile Oak	Base M	15,500	3,550	948 (88)		
6	Lynn Lane Shenstone	Base M	15,500	3,550	759 (71)		
7	Abattoir Chase Terrace	Urban/High M	22,100	5,050	635 (59)		
8	Fazeley Saw Mill	Base M	15,500	3,550	950 (88)		
9	Handsacre Service Station	Urban/high P	26,550	6,100	843 (78)		
10	Whittington Grange School	Urban P	18,600	4,250	1,230 (114)		
11	Orchard Farm Hill Ridware	Base P	15,300	3,500	1,300 (121)		
12	Central Garage Lichfield	Urban/High P	25,500	5,850	630 (59)		
13	Mastrom Printers Alrewas	Urban P	19,500	4,500	1,368 (127)		
14	Millbrook Drive Shenstone	Urban P	18,350	4,200	1,700 (158)		
15	Pear Tree Cottage Edingale	Lower M	12,500	2,850	1,235 (115)		

Source: Fordham Research



2.24 Although seven sites are in the Base group, the remainder provide a reasonable spread across the other categories. There are no sites fully in the High category; nevertheless three sites are in an intermediate group falling between Urban and High.

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 which involved 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
 - 20% affordable
 - 30% affordable
 - 40% affordable
- 3.4 Current policy provides for a target proportion of 25%.
- New and higher targets may of course be proposed in emerging Local Development Framework Documents. Any such targets would of course be informed by the recent Strategic Housing Market Assessment, as well as by the present study.

(ii) Tenure split

The Council currently seeks a mixture of social rented and intermediate housing, though with a large majority (80%) provided as social rented. We were asked to test this option, giving an 80%:20% split between social rented and intermediate housing. The Council subsequently asked for guidance on the impact of an alternative tenure split.



In principle, intermediate tenure could constitute a wide range of different housing propositions. After discussion with the Councils it was agreed that intermediate housing should be assumed to be shared ownership provided at a 25% share with rent at a maximum of 2.75% of unsold equity.

(iii) Size profile

- After discussion 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. This assumption is a convenient one which ensures that as the affordable housing proportion varies between the options being tested, the floorspace density remains constant a desirable aim if the appraisals are to constitute a realistic development scenario, consistently, across the options.
- 3.9 In working up development assumptions for the sites we made broad assumptions about the indicative mix of dwellings on each individual site. Collectively these deliver an overall mix profile as set out in the table below.

Table 3.1	Aggregate size mix profile			
	No of dwgs	%		
1 bed flat	50	5		
2 bed flat	160	14		
2 bed house	196	18		
3 bed house	416	38		
4 + bed house	278	25		
Total	1,100	100		

Source: Fordham Research 2009

3.10 The profile reflects the particular characteristics of the sites chosen for assessment. The profile shows a reasonable balance between different sizes of units. However there are only 19% one and two bedroom flats overall, and conversely 25% of the dwellings have four or more bedrooms, whilst the Council wishes to promote the production of smaller and medium sized dwellings. It is reasonable to ask what impact on viability would result if the Council were to use planning policy to constrain the mix on the selected sites in favour of smaller units. This is a matter to which we return when evaluating the appraisal findings, in Chapter 7.



(iv) Financial terms

- 3.11 To be consistent with national guidance the viability 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. 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.
- 3.12 After some consideration and discussion it was agreed that appraisals should be produced with an assumption of zero Social Housing Grant, showing its impact of an upon the base appraisal results.
- 3.13 It was necessary to seek advice from the Councils' partner RSLs about the financial terms on which properties of various sizes would be purchased from the developer in order to achieve the 'zero grant' scenario.
- 3.14 The RSL responses in conjunction with drawing upon our own experience from other Viability Assessments provide a basis for the figures as set out below. Variations in the proposed figures provided by the RS's were anticipated, as each Association has its own investment criteria, which is particularly relevant in the current market conditions. The response from the RSLs was limited as recent investment in new projects within the Councils area has been limited.
- 3.15 After carefully considering the RSL data available it was decided to take a broad average, which was also in line with our own expectations. The table below outlines the figures included within the study.

Table 3.2 Selling prices: zero grant basis						
	£ per sq ft (sq m)					
	Social	rented	Interm	nediate		
	Flat	House	Flat	House		
Zero grant - income stream only	70 (753)	65(699)	108 (1,162)	102 (1,098)		

Source: Fordham Research 2009

Other developer contributions

3.16 Aside from affordable housing, developer contributions could potentially be sought by the District and County Councils 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.



- 3.17 Some information was available in respect of the sites with planning permission. Contributions had been achieved under a variety of headings on individual sites. The main items include: Social and Community Facilities, this is charged at a rate of £2,500 on average and Education at a rate of £550 and £600 per dwelling. The education contribution is for both primary and secondary schools. The rates only apply to house dwellings and the levy for secondary schools has been only charged against private market dwellings. Education is not charged to sites of less than seven dwellings. It has not been charged to the Sites no. 9, 10, and 11 as none of these consented sites were required to make an education contribution.
- 3.18 We have also considered information on the actual contributions sought or obtained from the sites in the study.

	Table 3.3 Developer	contributions as	sumption			
Site		total cost £ per:				
		dw	mkt dw	mkt house		
1	Old Hall Farm Fradley	5,500	550	600		
2	South Burntwood	5,100	0	0		
3	Bison Concrete Lichfield	8,300	550	600		
4	S Shortbutts Lane Lichfield	7,300	550	600		
5	Park Lane Mile Oak	5,100	550	600		
6	Lynn Lane Shenstone	5,100	550	600		
7	Abattoir Chase Terrace	5,100	550	600		
8	Fazeley Saw Mill	5,100	550	600		
9	Handsacre Service Station	5,100	0	0		
10	Whittington Grange School	5,100	0	0		
11	Orchard Farm Hill Ridware	5,100	0	0		
12	Central Garage Lichfield	5,100	0	0		
13	Mastrom Printers Alrewas	5,100	0	0		
14	Millbrook Drive Shenstone	5,100	550	600		
15	Pear Tree Cottage Edingale	5,100	550	600		

Source: Fordham Research

- 3.19 It must be emphasised that this approach is simply intended to treat the 15 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.
- 3.20 Many Councils are currently considering the introduction of a Community Infrastructure Levy (CIL) providing a standard charge based on an assessment of aggregated infrastructure costs. It is quite possible that such a charge might well lead to higher costs than those assumed here.



4. Local market conditions

Introduction

- 4.1 This chapter sets out an assessment of the local housing market in Lichfield, providing a basis for the assumptions on house prices and costs to be used in financial appraisals for the 15 sites tested in the study.
- 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.
- 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

- The housing market in the District will, to some extent, reflect national trends but there are local factors that underpin the market including:
 - attractive and contrasting landscapes along the western and northern edges of the area, at Cannock Chase and the Trent Valley, providing for recreation opportunities for residents of the area
 - the pleasant city of Lichfield with a historic centre, many attractive buildings and employment opportunities
 - many attractive smaller settlements, with attractive buildings and settings, providing housing within convenient commuting distance of the West Midlands conurbation
 - a range of other employment opportunities in the area or as with Tamworth, close by
 - good transportation links via the M6 Toll Road, A5 and M42/A42 to the national motorway network
 - some older areas undergoing regeneration and providing cheaper housing stock,
 predominantly around Burntwood, Fazeley and Handsacre.
- 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 some relevant new developments in the area, as at February 2009, is provided in Appendix 1. The Appendix also has details of recently developed and completed schemes directly relevant to the sample sites. Any historic prices have been adjusted to current date levels by reference to the Halifax House Price Index.
- Analysis of these, and other schemes in the study area, shows that prices for newbuild homes vary quite widely across the area, ranging between approximately £145 and £300 per square foot (£1,600 £3,225 per square metre). This is the range for individual properties; averaged over the complete scheme the degree of variation will of course be somewhat less than this and many sites had average values around the £200 per sq ft level (£3,225 per sq m). However there were fluctuations in price level and it is clear that a typical price per sq ft /per sq m can vary across the study area and therefore between the 15 sample sites tested. The range in capital sums varied from circa £105k to an upper level around £475k. These ranges are broadly in line with the Land Registry data as set out in Table 4.1
- 4.11 Table 4.1 shows average prices for Lichfield for the latest quarter available from Land Registry, Q4 2008. 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 & Wales figure and expressed as indices.



Table 4.1 Average house prices Q4 2008: comparison with England & Wales average Ave price (£k & % index) Area Detached Semi Terrace Flat Q4 08 £314.8 £167.5 £143.0 £128.2 ave £k no of sales 64 62 45 18 index 112% 95% 97% 100%

Source: Land Registry data.

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

- 4.12 Prices in the Lichfield Council area are around average (median LA area), though a little higher for detached houses, which are the type with the largest number of sales.
- As in the country generally, prices have fallen back over the last 12 months. However because Land Registry data reports sales after completion there is some lag and the figures show the decline to only a limited extent, although the decline in sales numbers does show up quite clearly (sales are seasonally low in the first quarter).

1.00		Ave price (£k & % index)				
Area		Detached	Semi	Terrace	Flat	
Q4 07	ave £k	£356.3	£184.9	£159.0	£137.5	
	no of sales	138	163	82	51	
Q1 08	ave £k	£338.8	£183.8	£169.2	£143.8	
	no of sales	88	91	53	42	
Q2 08	ave £k	£327.7	£177.7	£159.2	£143.8	
	no of sales	109	115	61	42	
Q3 08	ave £k	£340.2	£184.5	£178.4	£163.9	
	no of sales	84	80	42	34	

Source: Land Registry data.

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

4.14 Within a Council area there can be considerable variations in price, and Land Registry house price data at postcode sector level also 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 three separate quarters (Q4 2007, Qs 2 and 4 2008). The data has been expressed as an index – as a percentage of the nationwide average price level - and standardised, to allow for variations in type mix. (Appendix 2 provides a worked example of the index calculation, and sets out the resulting price index figures for the three quarters examined).



- 4.15 It can be seen from the indices in Appendix 2 that variations between the three quarters' indices are, in a number of cases, relatively slight. Variations tend to be greater for rural and town centre areas, which are mostly numerically smaller and/or more diverse, than for urban areas generally, where postcode sectors are larger numerically and can often be more uniform.
- 4.16 The average figures for the three quarters are mapped in Figure 4.1 below.

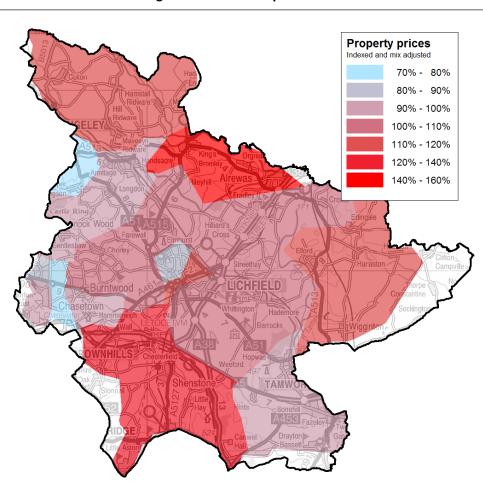


Figure 4.1 Postcode price indices

Crown copyright

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 15 individual schemes to be appraised in the study. The preceding analysis suggests that although prices in much of the area will be relatively close there will be some areas where prices are appreciably lower than or higher than the price 'standard'.



- 4.18 It is also clear that we should allow for differences between apartments and 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 in the present 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 detached or semi-detached houses and for terraced or town houses on each of the fifteen 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 The evidence of sales prices across the area, as summarised in Appendix 1, points to a 'base price' level of £180 per sq ft for houses and £195 per sq ft for flats which it was felt should apply in three of the fifteen sites (nos 1, 2 and 8). Prices below this base level were anticipated in Chase Terrace and Handsacre (Sites 7 and 9). Prices a little above base level would apply in Lichfield City area (Sites 3, 4 & 12) and at Whittington and Mile Oak (Sites 10 and 5). Prices higher again would be expected at Shenstone, Alrewas and the two smaller rural settlements (Sites 6, 14, 13, and 11, 15). Many of the sites were in locations where there was reasonable comparable evidence to support the price assumptions.
- 4.21 The majority of the 15 sites have the benefit of being able to draw upon current newbuild comparable sales information. Values for Sites 1,6,7,10,14 and 15 were in part informed by the newbuild sales information available, but were also additionally supported by a range of relevant modern second-hand properties. A number including Sites 10 and 14 (Whittington and Shenstone) were supported by sales values achieved historically on the actual site or on adjacent schemes. Where appropriate the prices have been rebased to current prices using the Halifax House Price Index.
- 4.22 The site figures resulting from our type-specific assumptions are set out in the table below.

	Table 4.3 Price bands										
	Site/location		Price £ per		Site/location	Price £ per					
			Sq m		Site/location		Sq m				
1	Old Hall Farm Fradley	182	1,956	9	Handsacre Service Station	178	1,914				
2	South Burntwood	181	1,946	10	Whittington Grange School	195	2,098				
3	Bison Concrete Lichfield	193	2,073	11	Orchard Farm Hill Ridware	212	2,281				
4	S Shortbutts Lane Lichfield	192	2,064	12	Central Garage Lichfield	209	2,249				
5	Park Lane Mile Oak	192	2,064	13	Mastrom Printers Alrewas	275	2,959				
6	Lynn Lane Shenstone	212	2,279	14	Millbrook Drive Shenstone	215	2,313				
7	Abattoir Chase Terrace	164	1,768	15	Pear Tree Cott Edingale	215	2,313				
8	Fazeley Saw Mill	182	1,953								

Source: Fordham Research



- 4.23 The figures cover a range from the cheapest £164 per sq ft (£1,768 per sq m) at Chase Terrace to £275 per sq ft (£2,959 per sq m) at Alrewas. This is not quite as great as the spread of prices we saw in the Land Registry data for second-hand prices.
- 4.24 It is necessary to consider whether the presence of affordable housing would have a discernible impact on sales 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

- 4.25 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.
- 4.26 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 the West Midlands Region as a whole, and major towns including Lichfield but no information for smaller towns or for rural areas.
- 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 may be that values for 'oven ready' land with no affordable provision or other contribution, or servicing requirement, are in fact higher.

Table 4.4 Residential Land Values half yr to July 2008							
	Land	l Value £m per acre (h	ectare)				
Area	Small sites	Bulk sites	Land for anartments				
	(< 5 dwgs)	(> 2 ha)	Land for apartments				
West Midlands Degion	£0.96m	£0.86m	£0.88m				
West Midlands Region	(£2.36m)	(£2.12m)	(£2.18m)				
Lichfield	£0.89m	£0.81m	£0.97m				
Licrilleid	(£2.20m)	(£2.00m)	(£2.40m)				
Diversionale auto	£0.85m	£0.81m	£0.73m				
Birmingham	(£2.10m)	(£2.00m)	(£1.80m)				
Dorby	£0.87m	£0.81m	£0.77m				
Derby	(£2.15m)	(£2.00m)	(£1.90m)				

Source: VOA Property Market Report July 2008



- 4.28 With the decline in the market and general economic conditions these values are now in any case going be rather historic; values will be falling faster than prices have. We therefore sought information about values from residential land currently on sale in the District.
- There are a small number of sites for residential development currently available in the immediate and adjacent areas, the limited availability perhaps reflecting gloomy views about current prospects. Those we found varied in value from around £1.0m per acre (Rugeley, Brereton, Hednesford) for plots for a single dwelling, up to £2.2m per acre for a site at Four Oaks, Sutton Coldfield. A more detailed schedule of residential land available is set out in Appendix 3.

Current and Alternative Use Values

- 4.30 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.
- 4.31 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.
- 4.32 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.
- 4.33 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) The Whittington site was formerly occupied by school buildings and that at Hill Ridware by farm buildings
 - iv) Two sites had existing uses as garden or paddock land
- The VOA's typical industrial land values for the region and nearby towns are set out in the table below.

 The nearest location for which data is available is Tamworth.



Table 4.5 Industrial land values							
Area		Land Value per acre (hectare)					
Alea	Low	High	Typical				
West Midlands Region	£125k (£310k)	£525k (£1,300k)	£235k(£581k)				
Tamworth	£140k (£350k)	£245k (£600k)	£200k (£500k)				
Derby	£150k (£375k)	£210k (£525k)	£180k (£450k)				
Birmingham	£200k (£500k)	£525k (£1,300k)	£365k (£900k)				
Stoke/Stafford	£130k (£325k)	£265k (£650k)	£170k (£425k)				

Source: VOA Property Market Report July 2008

- Although at regional level there is quite a diverse range of values, the figures for individual locations within a reasonable distance of Lichfield are mostly quite similar, though with higher values being found in the regional centre of Birmingham. If Lichfield was broadly in line with the other locations excluding Birmingham, we might expect to find typical values in the area of £175k-£200k per acre (£430k-£500k per ha).
- 4.36 Of course, these figures could now be out of date, as values have dropped with the general downturn, since mid-2008. We spoke to agents with knowledge and experience of the local market. There were few transactions to provide evidence in the current market situation, in which there remains a reasonable level of interest but liquidity problems mean few enquiries are coming to fruition.
- Whilst before the downturn a reasonable price for fully serviced industrial land might have been £375k per acre (£925k per ha), the best view of today's price was felt to be in the vicinity of £275k per acre (£680k per ha) in the Lichfield City area, or the best locations in Burntwood. Values would fall way from this benchmark, with the lowest values in the less accessible rural locations. 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. The view we have formed is that the buildings would have a value somewhat below the industrial land benchmark.
- Consideration has to be given to an appropriate value for the garden/paddock land at Millbrook Drive and Pear Tree Cottage. Whilst it has not acquired previously developed status, clearly the owners of such land would regard it as having rather more value than agricultural land. In this case we accepted figures of £75k per acre (£185k per ha) at Millbrook Drive and £100k per acre (£250k per ha) for the garden land at Edingale.
- 4.39 The value basis 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	Old Hall Farm Fradley	Agricultural	10	25				
2	South Burntwood	Agricultural	10	25				
3	Bison Concrete Lichfield	Industrial/warehouse	275	680				
4	S Shortbutts Lane Lichfield	Agricultural	10	25				
5	Park Lane Mile Oak	Agricultural	10	25				
6	Lynn Lane Shenstone	Industrial/warehouse	275	680				
7	Abattoir Chase Terrace	Industrial/warehouse	225	555				
8	Fazeley Saw Mill	Industrial/warehouse	250	620				
9	Handsacre Service Station	Industrial/warehouse	225	555				
10	Whittington Grange School	School buildings	250	620				
11	Orchard Farm Hill Ridware	Farm buildings	200	495				
12	Central Garage Lichfield	Industrial/warehouse	275	680				
13	Mastrom Printers Alrewas	Industrial/warehouse	250	620				
14	Millbrook Drive Shenstone	Garden/paddock	75	185				
15	Pear Tree Cottage Edingale	Garden land	100	250				

Source: Fordham Research 2009

- 4.40 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.
- 4.41 The costs arising from development or redevelopment of the 15 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 15 sites.

Development costs

(i) Construction costs: baseline costs

- 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 v 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 Lichfield at a base date of March 2009.
- The question arises as to what extent the Code for Sustainable Development should impact on build costs in the study. Whilst from April 2008 the Code's Level 3 has been a requirement for all homes commissioned by RSLs that would not necessarily be the case for affordable homes built by developers for disposal to an RSL, unless grant is made available from the Homes and Communities Agency. However, the Government indicates that Level 3 will apply to all newbuild housing (i.e. will be incorporated in Building Regulations) from 2010, with higher levels (4 then 6) intended to be triggered from 2013 onwards. Accordingly for the present study we have therefore assumed that Level 3 applies to both market and affordable housing on the sites being appraised.
- Guidance on the impact of Level 3 is available from a Report commissioned by the Housing Corporation & English Partnerships (*A Code For Sustainable Development, 2007*) in respect of the impact of Level 3 on construction costs. This guide estimates (Table S2) the increase in costs arising for different house types under various scenarios. On average, current newbuild costs would need to increase by 4.2% to achieve Level 3.
- In addition to this national requirement, RSS policy SR3 also seeks a proportion of 10% of energy costs of new residential building to be to be from renewable sources. This requirement will add to baseline building costs, although it is possible that there would be some overlap with the Level 3 specification. For the purpose of the study we assumed a 3.5% increase in costs, representing a premium of about £3,500 on the build cost for the average dwelling (£97,000) across the fifteen sites.



After allowing for the above 'Level 3' and '10% renewable' premia, 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 5.1 Construction costs: market housing									
	Build cost £ per sq ft/sq m								
Site	sq ft	(sq m)	Site	sq ft	(sq m)	Site	sq ft	(sq m)	
1	83.34	(897)	6	83.34	(897)	11	81.17	(873)	
2	82.37	(886)	7	89.41	(961)	12	90.99	(979)	
3	85.18	(917)	8	83.05	(894)	13	80.17	(863)	
4	83.34	(897)	9	85.88	(924)	14	80.17	(863)	
5	83.34	(897)	10	83.38	(897)	15	80.17	(863)	

Source: Fordham Research derived from analysis of BCIS cost data

(ii) Construction costs: site specific adjustments

- 5.7 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 specifications.
- 5.8 Since the mid 1990s, planning guidance on affordable housing has been based on a view that construction costs were appreciably higher for <u>smaller sites</u>, 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.
- 5.9 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.
- In the present study, seven of the sites are considered to fall into the 'small site' category –those with less than 15 dwellings, i.e. Sites 9 onwards. 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 1% for the 14 dwellings at Handsacre through to 16% for the smallest site Peartree Cottage with three 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.



In addition, we considered that Sites 13 to 15 would be built to a higher specification than the other larger sites. An allowance of an additional 4% was assumed to cover this.

(iii) Construction costs: affordable dwellings and final figures

- 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 assume a reduced build cost.
- 5.13 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.

Table 5.2 Construction costs adjusted and rounded: all housing									
	Build cost £ per sq ft/sq m								
Site	sq ft	(sq m)	Site	sq ft	(sq m)	Site	sq ft	(sq m)	
1	83.50	(899)	6	83.50	(898)	11	86	(925)	
2	82.50	(888)	7	89.50	(963)	12	98.50	(1,060)	
3	85	(915)	8	83	(893)	13	91.50	(985)	
4	83.50	(898)	9	86.50	(931)	14	95	(1,022)	
5	83.50	(898)	10	86	(925)	15	96.50	(1,038)	

Source: Fordham Research derived from analysis of BCIS cost data

(iv) Other normal development costs

- 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 would require at least a design or layout for each site.
- 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.



In the light of these considerations we have developed a scale of allowances ranging from 26.0% of build costs for the greenfield site at South Burntwood, down to 9% for the small, comparatively high density scheme at Millbrook Drive. The Table below sets out the individual site assumptions.

	Table 5.3 Development cost all	owances
Ref	Site/location	% of build costs
1	Old Hall Farm Fradley	23.0%
2	South Burntwood	26.0%
3	Bison Concrete Lichfield	16.0%
4	S Shortbutts Lane Lichfield	16.0%
5	Park Lane Mile Oak	15.0%
6	Lynn Lane Shenstone	13.5%
7	Abattoir Chase Terrace	11.5%
8	Fazeley Saw Mill	11.5%
9	Handsacre Service Station	10.0%
10	Whittington Grange School	11.0%
11	Orchard Farm Hill Ridware	11.0%
12	Central Garage Lichfield	10.0%
13	Mastrom Printers Alrewas	11.5%
14	Millbrook Drive Shenstone	9.0%
15	Pear Tree Cottage Edingale	10.0%

Source: Fordham Research 2009

(v) Abnormal development costs

- 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.
- The majority of the sites are on previously developed land. 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 for some of the sites. As pointed out in the previous chapter (4.41) some abnormal costs could also arise in the event of the site's redevelopment with an alternative use.
- 5.19 The schedule below sets out the abnormal costs considered to apply in each case where they arise.



Table 5.4 Abnormal development costs Industrial: Residential: cost cost Ref Site Item Total £k £k per acre £k per acre 1 Old Hall Farm **POS** £100k £5 2 South Burntwood POS, slope, brook ecology £145k £10k 3 Bison Concrete Demolition, asbestos, ground £245k £24k £10k 4 S Shortbutts Lane Slope, power cables £45k £8k 5 Park Lane Mile Oak Demolition £50k £31k 6 Lvnn La Shenstone Demolition, slope, access £120k £45k 7 Abattoir Chase Terr Demolition, contamination £120k £85k £53k 8 Fazeley Saw Mill Demolition/clearance, canalside £150k £98k £49k 9 Handsacre Serv Stn Demolition, fuel tanks £60k £135k £135k 10 Whittington Gr Sch Demolition £50k £63k £63k 11 Orchard Farm Demolition £30k £71k £39k Central Garage Demolition 12 £25k £33k Demolition, asbestos, ground 13 Mastrom Printers £65k £155k £71k Millbrook Drive 14 None 15 Pear Tree Cottage Access, slope £10k £34k

Source: Fordham Research 2009

5.20 The table also shows where applicable the adjustment needed to ensure that an alternative land value reflects the costs incurred in developing an alternative use.

(vi) Fees

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

(vii) Contingency

5.22 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 lower figure was used for the six greenfield sites and 5% on the other, previously developed sites.

Financial and other appraisal assumptions

(i) VAT

5.23 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

Our appraisals assume 7.5% pa for both debits and credits. This may seem high given the very low current base rate figure (MLR 0.5% mid March 2009) but has to reflect banks' view of risk for housing developers in the present housing market situation. Credit would in practice only arise for a short period at the end of the scheme

(iii) Developers profit

- 5.25 We normally assume that the developer requires a return of 20% on total costs (or 16.7% of the Net Development Value) 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.
- 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. It should be noted that residential developers commonly use a more conservative profit margin of 15% on income, which equates to about 17.5% on costs. Bearing in mind the current financial climate, we see no justification for reducing the profit margins from the levels suggested.

Table 5.5 Profit margins						
% affordable	Profit % on costs					
0%	20%					
20%	19%					
30%	18.5%					
40%	18%					

Source: Fordham Research 2009

(iv) Void

- 5.27 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.
- 5.28 For the purpose of the present study a three month void period is assumed for all sites.



(v) Phasing & timetable

- 5.29 The appraisals are assumed to have been prepared using prices and costs at a base date of February 2009, with an immediate start on site.
- 5.30 A pre-construction period of six months is assumed for all of the sites. Each dwelling is assumed to be built over a nine month period.
- 5.31 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 5.6 below.

	Table 5.6 Market pace assumptions							
Site		No of dwgs	Ceiling level of completions per qtr					
1	Old Hall Farm Fradley	314	16					
2	South Burntwood	250	15					
3	Bison Concrete Lichfield	175	8					
4	South Shortbutts Lane Lichfield	100	8					
5	Park Lane Mile Oak	78	8					
6	Lynn La Shenstone	54	7					
7	Abattoir Chase Terr	49	6					
8	Fazeley Saw Mill	25	5					
9	Handsacre Serv Stn	14	3					
10	Whittington Gr Sch	12	3					
11	Orchard Farm	9	2					
12	Central Garage	7	2					
13	Mastrom Printers	6	2					
14	Millbrook Drive	4	1					
15	Pear Tree Cottage	3	1					

Source: Fordham Research 2009

Site acquisition and disposal costs

(i) Site holding costs and receipts

5.32 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

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

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

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 would need to be adjusted in many cases to allow for abnormal costs that would arise if the alternative use were implemented. The values from Chapter 4 are adjusted to net off these abnormals in the table below.

	Table 5.7 Al	ternative use va	lue figures				
		Alternative use value £k per acre					
No	Site	Gross	Abnormal cost adj	Net of abnormals			
1	Old Hall Farm	£10k	-	£10k			
2	South Burntwood	£10k	-	£10k			
3	Bison Concrete	£275k	£10k	£265k			
4	S Shortbutts Lane	£10k	-	£10k			
5	Park Lane Mile Oak	£10k	-	£10k			
6	Lynn Lane Shenstone	£275k	-	£275k			
7	Abattoir Chase Terr	£225k	£53k	£172k			
8	Fazeley Saw Mill	£250k	£49k	£201k			
9	Handsacre Serv Stn	£225k	£135k	£90k			
10	Whittington Gr School	£250k	£63k	£187k			
11	Orchard Farm	£200k	£39k	£161k			
12	Central Garage	£275k	-	£275k			
13	Mastrom Printers	£250k	£71k	£179k			
14	Millbrook Drive	£75k	-	£75k			
15	Pear Tree Cottage	£100k	<u>-</u>	£100k			

Source: Fordham Research 2009



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

- 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.
- 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 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 may have a more substantial existing or competing alternative use value.
- As outlined in Chapter 3, our appraisals considered three options for the amount and type of affordable housing provision, plus a zero affordable option.

Appraisal results

- 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).
- Detailed appraisal printouts for all the sites are provided as Appendix 5 to this report. To keep to a manageable sized document, only one option, that of 20%, has been provided.
- 6.7 The resulting residual land values for the four options are set out in Table 6.1.



	Table 6.1 Apprais	al results for	five afforda	ble options	
		Zero grant	:		
No	Site	Residu	al value £k pe	r acre for afforda	able option:
NO	Sile	No aff	20%	30%	40%
1	Old Hall Farm	203	23	-71	-166
2	South Burntwood	191	6	-91	-190
3	Bison Concrete	290	71	-41	-157
4	S Shortbutts Lane	344	138	33	-75
5	Park Lane Mile Oak	402	191	85	-25
6	Lynn Lane Shenstone	521	269	144	14
7	Abattoir Chase Terr	-196	-430	-548	-669
8	Fazeley Saw Mill	240	39	-65	-171
9	Handsacre Serv Stn	105	-230	-399	-571
10	Whittington Gr School	521	246	101	-45
11	Orchard Farm	585	328	199	64
12	Central Garage	175	-253	-470	-687
13	Mastrom Printers	1,378	895	643	397
14	Millbrook Drive	723	410	245	78
15	Pear Tree Cottage	421	199	85	-31

Source: Fordham Research

- Table 6.1 shows that with <u>no</u> requirement for affordable housing, all but one of the sites deliver a positive land value. Those values range from around £100k per acre (£250k per ha) to almost £1,400k per acre (£3.46m per ha).
- Allowing for additional development costs and our planning gain assumptions, values on the remaining sites are broadly in line with but mostly below what the first half 2008 VOA figures indicate for 'oven ready' land in Lichfield, or what was suggested by small sites actually on the market. This confirms that our appraisal assumptions are, taken as a whole, unlikely to be unduly optimistic.
- 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%, four schemes still deliver a positive land value (at 50% this falls to one).
- 6.11 However, it is clear that land value falls away <u>more quickly</u> for some schemes, than for others. It is the most densely developed sites Handsacre Service Station, Central Depot, Mastrom Printers, and Milbrook Drive where affordable housing has the greatest negative impact upon land value.



- This is because the land value is the primary source of any developer subsidy. With the high density schemes, land value is a much lower proportion of the total value of the development, and is therefore used up more quickly. To put it another way, broadly the same amount of land value is available to subsidise affordable units on a scheme of 120 flats on one hectare, as on 35 houses occupying the same land. Clearly, that sum will 'buy' a higher percentage of the houses, than of the flats.
- 6.13 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

- The results from Table 6.1 would need to be compared with the alternative use values set out in Table 5.7 in order to form a view about the likely viability of the affordable options for each site. However it does not automatically follow that if the residual value produces a surplus over the alternative use value benchmark, 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.
- 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 his degree of involvement in the current property market, the location of the site and so on. A cushion equivalent to £25k per acre might be perfectly sufficient in some cases, whilst in a particular case it might need to be five times that figure or even more.
- After consideration we took the view that a broad average figure of £75k per acre should be used to provide an incentive to the landowner for all of the sites in the study. This figure would represent a mark-up of some 25% or so on the industrial benchmark land value.
- The figures are set out below and combined with the net alternative use values from Table 5.7 to show the resulting benchmark thresholds for viability.



Table 6.2 Viability cushion & threshold values £ per acre Site GROSS alt use Viability threshold Ref Cushion value value 1 Old Hall Farm £10k £75k £85k 2 South Burntwood £10k £75k £85k 3 Bison Concrete £265k £75k £340k 4 S Shortbutts Lane £10k £75k £85k 5 Park Lane Mile Oak £75k £85k £10k 6 Lynn Lane Shenstone £275k £75k £350k 7 Abattoir Chase Terr £172k £75k £247k Fazeley Saw Mill £75k £276k 8 £201k 9 Handsacre Serv Stn £75k £165k £90k 10 Whittington Gr School £187k £75k £262k 11 Orchard Farm £161k £75k £236k £350k 12 Central Garage £275k £75k 13 Mastrom Printers £179k £75k £254k 14 Millbrook Drive £75k £75k £150k 15 Pear Tree Cottage £100k £75k £175k

Source: Strategic Housing Viability Study

6.18 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 <u>actually</u> receive. This will quite often be rather more, at any given affordable target some sites will be generate a higher value and it is not unreasonable to expect at least some of the surplus to benefit the landowner/promoter, rather than passing to the developer.



		Table 6.	3 Appraisal	outcomes:	zero grant		
				Value	£k per acre		
No	Site	Alt use value	No affordable	20%	30%	40%	50%
1	Old Hall Farm	10/	203	23	-71	-166	-263
'	Old Hall Farm	85	VIABLE	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB
2	South Burntwood	10/	191	6	-91	-190	-289
-	South Burntwood	85	VIABLE	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
,	Pigan Canarata	265/	290	71	-41	-157	-272
3	Bison Concrete	340	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
_	C Charthutta I ana	10/	344	138	33	-75	-186
4	S Shortbutts Lane	85	VIABLE	VIABLE	MARGINAL	NOT VIAB	NOT VIAB
_	David Lana Mila Oak	10/	402	191	85	-25	-139
5	Park Lane Mile Oak	85	VIABLE	VIABLE	VIABLE	NOT VIAB	NOT VIAB
	Lynn Lane	275/	521	269	144	14	-121
6	Shenstone	350	VIABLE	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
_	Alastasia Olasas Tana	172/	-196	-430	-548	-669	-789
7	Abattoir Chase Terr	247	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
	Faralay Cay Mill	201/	240	39	-65	-171	-278
8	Fazeley Saw Mill	276	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
	Handaara Can Cha	90/	105	-230	-399	-571	-743
9	Handsacre Serv Stn	165	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
10	Mhittin at a a Cu Cab	187/	521	246	101	-45	-194
10	Whittington Gr Sch	262	VIABLE	MARGINAL	NOT VIAB	NOT VIAB	NOT VIAB
	0 1 15	161/	585	328	199	64	-73
11	Orchard Farm	236	VIABLE	VIABLE	MARGINAL	NOT VIAB	NOT VIAB
10	0 1 10	275/	175	-253	-470	-687	-906
12	Central Garage	350	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB	NOT VIAB
10	Mastrara Diletar	179/	1,378	895	643	397	136
13	Mastrom Printers	254	VIABLE	VIABLE	VIABLE	VIABLE	NOT VIAB
	NASHless at D.	75/	723	410	245	78	-90
14	Millbrook Drive	150	VIABLE	VIABLE	VIABLE	MARGINAL	NOT VIAB
4.5	D T O-#	100/	421	199	85	-31	-147
15	Pear Tree Cottage	175	VIABLE	VIABLE	NOT VIAB	NOT VIAB	NOT VIAB

Source: Strategic Housing Viability Study



Comparison results

- 6.19 With zero affordable housing, ten sites are viable (and three are 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 have fallen considerably over the last year, and so there are several sites which could not proceed at present even as 100% market housing.
- Turning to the various levels of affordable contribution, at 20% six sites are viable and two marginal. At 30% these two marginal sites become unviable, and a further two become marginal. By 40%, however, only one site is fully viable with one other, marginal. At 50% all the sites are unviable.
- 6.21 These results are summarised in tabular form, and broken down for the five SHMA sub-areas, below.



Source: Strategic Housing Viability Study

6.22 We will consider the implications of these results for future policy in the final chapter of this document. However before we can do this we should consider how likely future movements in our appraisal assumptions might impact upon them. The decline in the housing market since the beginning of 2008 underlines that whilst the results represent a 'snapshot' of viability as at February 2009; the immediate prospect is for viability to deteriorate further in the coming months.



History: the last market recession

- 6.23 It is understandable and the normal reaction to expect that 'history will repeat itself'. In that sense there have been a string of newspaper and magazine articles pointing to the last recession in 1989/90, and to almost every downturn in the economy since the great Depression of the 1930s.
- 6.24 The truth is that each recession has its own individual character. The 1989-90 one featured substantially different behaviour from that which preceded the current credit crunch. The earlier one featured lending on high multiples of income, which has happened this time, but is incidental to the main problem. The problem this time has features which have never been present before, such as:
 - i) Very cheap credit over a long period, which led in its later phases to large scale poor lending in America and to the 'toxic debt' which these bad loans now represent. This happened on a massive and unprecedented scale through financial derivatives: hybrid loan packages based only indirectly upon the original loans.
 - The internet. This has only existed for a decade, but has become the main medium of financial transactions. Hence the scale of the problem, which could spread rapidly across the world and the suddenness with which the economy has ground to a halt.
 - Frozen credit. The shock of the toxic debt problem for the banks has not only made a
 number of them effectively dependent on public loans, but has also removed in large
 part the credit which is the normal function of banking. Hence the dramatic fall in
 business activity and in such things as buying houses.
- The previous recession also featured, for the first-time, a growth in affordable housing targets. This is a form of land tax which did not exist in 1989-90, as it only came in with Circular 7/91, and as the light blue line shows in Figure 6.1 gradually increased in its effect until 2007, when viability peaked before falling.



land values prices costs affordable take

250
200
150
90
91
92
93
94
95
96
97
98
99
101
02
103
104
105
106
107
108

Year

Figure 6.1 Price and cost trends in the recovery from the 1990 recession

Source: Valuation Office Agency, Land Registry, BCIS (ave of indices for costs & tender prices)

- There are many other differences between different previous recessions and the present one which make parallel drawing an unrewarding activity.
- 6.27 What the graph does show, albeit schematically, is that the proportion of overall housing profit taken by affordable housing has grown considerably. When and if the recovery happens from the present recession it will be different for that reason. Studies such as the present one are geared to ensure that the affordable housing tax via S106 is not unreasonably high. However it did not exist last time there was a recession, but it is now a standard part of the financial landscape.
- 6.28 What history tells us is, therefore, that the present recession has major characteristics that have never been present in any previous recession and which therefore mean that we shall look in vain for parallels, comforting or otherwise, with previous recessions.

The pattern of future movements

6.29 We have emphasised the uniqueness of the present credit crunch. Although that is a correct view, there is a common fact in all recessions which is the drop in prices. In this case we are concerned with house prices, and they have fallen considerably. However nobody knows what the 'bottom' is. It is far from clear whether we are, at the end of the first quarter of 2009, near the bottom. Arguments have been put that up to another 50% drop in prices may occur.



- 6.30 The prices used in the appraisals are significantly down on those that obtained at the peak. They reflect the present situation, but clearly will not reflect that of the second quarter 2009, or necessarily any future quarter. There is therefore a much bigger premium on addressing the dynamics of viability than there has been before.
- 6.31 But there is a tension involved. Local Development Frameworks, whose rules were cast before the credit crunch, expect affordable housing targets to be set for an enduring period. That is only possible in present circumstances by setting them extremely low, in some cases almost to zero, as the current housing market can bear very little if any extra cost.
- 6.32 In order to cater for this Fordham Research has devised a 'dynamic viability' approach. This is illustrated in the following diagram.

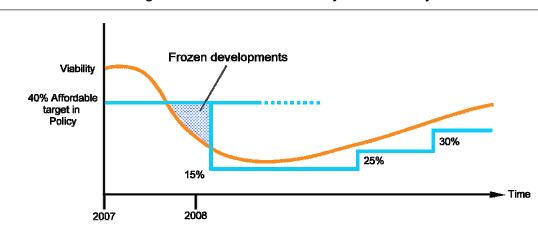


Figure 6.2 Fordham Research Dynamic Viability

Source Fordham Research 2009

- In the illustration, the housing needs situation would justify a 40% target, using the traditional approach which derives indeed from Fordham Research's work in the 1990s relating need to target levels. Thus a Target A (needs based) level of 40% is indicated.
- But, using the hypothetical example, viability means at present that only 15% is actually deliverable. Hence the only justifiable target, if one were in an LDF, would be 15%. But if, as most people assume, there is a recovery in house prices within the next five years, the scope for higher, and perhaps up to 40% targets might re-emerge during that period.
- 6.35 Thus if a single 15% target were set for five years, it would be very damaging for the Council and for those in need of affordable housing, since a good deal of quite deliverable affordable housing would not be obtained.



- Hence the point of 'dynamic viability' analysis is to re-do the viability at regular intervals and build the resultant changed targets into an appropriate Plan Document, presumably a Supplementary Planning Document, so that the actual affordable target level is varied over the plan period. It is important to avoid doing this too often: about once a year is probably the minimum period not to disrupt the negotiations between house builders and landowners.
- 6.37 But at least every year it is worth reconsidering the issue and if necessary issuing a changed target. In this way the house building industry is able to function and whatever level of affordable housing that is deliverable actually is obtained

Sensitivity: price and cost levels

- 6.38 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 however it is future movements in prices which are of greatest interest; what if prices continue to fall at the present rate? What if they recover?
- 6.39 Broadly speaking, an x% increase in costs would have a similar impact to a corresponding x% reduction in prices. For simplicity we therefore considered two scenarios only, which were as follows:
 - i) Prices fall by 20% (equivalent also to a 15% fall in price plus 5% rise in costs)
 - ii) Prices rise by 10% (equivalent also to a 15% rise in price plus 5% rise in costs)
- Accordingly the impact of (i) and (ii) was assessed through variant appraisals upon the 20% option. The results are compared to the base appraisal results in Table 6.5 below.



Table 6.5 Sensitivity tests for 20% appraisals: zero grant 1 Prices 2 Prices Alt use No Site Base value -20% + 10% 10/ -252 23 155 1 Old Hall Farm 85 **NOT VIAB MARGINAL** VIABLE 10/ 140 -274 2 South Burntwood 85 **NOT VIAB NOT VIAB** VIABLE 265/ -245 71 224 3 **Bison Concrete** 340 **NOT VIAB NOT VIAB NOT VIAB** 10/ -162 285 138 4 S Shortbutts Lane VIABLE VIABLE 85 **NOT VIAB** 10/ -115 191 341 5 Park Lane Mile Oak 85 **NOT VIAB** VIABLE VIABLE 275/ -70 269 437 Lynn Lane Shenstone 6 **NOT VIAB NOT VIAB VIABLE** 350 172/ -811 -430 -241 7 Abattoir Chase Terr 247 **NOT VIAB NOT VIAB NOT VIAB** 201/ -269 39 188 8 Fazeley Saw Mill 276 **NOT VIAB NOT VIAB NOT VIAB** 90/ -743 -230 27 9 Handsacre Serv Stn 165 **NOT VIAB NOT VIAB NOT VIAB** 187/ -152 246 435 Whittington Gr Sch 10 262 **NOT VIAB MARGINAL** VIABLE 161/ 328 498 -20 11 Orchard Farm 236 **NOT VIAB VIABLE VIABLE** 275/ -836 -253 40 12 Central Garage 350 **NOT VIAB NOT VIAB NOT VIAB** 179/ 895 1,184 323 13 Mastrom Printers 254 VIABLE VIABLE VIABLE 75/ 625 -20 410 14 Millbrook Drive 150 **NOT VIAB** VIABLE **VIABLE** 100/ -99 199 345 15 Pear Tree Cottage 175 **NOT VIAB** VIABLE VIABLE viable 6 10 1 No of sites at 20% affordable with zero grant marginal 0 2 0

Source: Strategic Housing Viability Study

6.41 It can be seen that a price increase of 10% (option 2) would improve the viability situation, as two sites currently marginal and two unviable sites become viable.



Option 1, a fall in price of 20% from our assessed prices, removes five viable sites and two which were marginal in our base appraisal, leaving the Mastrom site as the sole representative of viability. Unfortunately, this option has to be regarded as an entirely feasible short term scenario.

Sensitivity: the market peak

- The above approach, varying the price level, could also be applied retrospectively to assess viability at the peak viability level of November 2007. In this case we believe that prices would have been about 20% higher and costs 5% lower than those assumed in the base appraisals (effectively equivalent to a 25% increase in prices).
- The approach was applied with both 20% and 40% target proportions, and the results are set out below. Results for 30% were inferred by interpolation where appropriate.

Table 6.6 Sensitivity tests at market peak viability level							
		Value £k per acre					
No	Site	Alt use value	20%	30%	40%		
4	Old Hall Farm	10/	354		90		
1		85	VIABLE		VIABLE		
2	South Burntwood	10/	342		72		
		85	VIABLE		MARGINAL		
	Bison Concrete	265/	454	296	138		
3		340	VIABLE	MARGINAL	NOT VIAB		
4	S Shortbutts Lane	10/	504		205		
4		85	VIABLE		VIABLE		
_	Park Lane Mile Oak	10/	567		260		
5		85	VIABLE		VIABLE		
6	Lynn Lane Shenstone	275/	691		330		
6		350	VIABLE		MARGINAL		
-	Abattoir Chase Terr	172/	46		-308		
7		247	NOT VIAB		NOT VIAB		
0	Fazeley Saw Mill	201/	409	264	119		
8		276	VIABLE	MARGINAL	NOT VIAB		
0	Handsacre Serv Stn	90/	407	161	-85		
9		165	VIABLE	MARGINAL	NOT VIAB		
10	Whittington Gr Sch	187/	721		324		
10		262	VIABLE		VIABLE		



Table 6.6 Sensitivity tests at market peak viability level								
	Site	Value £k per acre						
No		Alt use value	20%	30%	40%			
11	Orchard Farm	161/	750		388			
		236	VIABLE		VIABLE			
12	Central Garage	275/	473	170	-134			
		350	VIABLE	NOT VIAB	NOT VIAB			
13	Mastrom Printers	179/	1,604		937			
		254	VIABLE		VIABLE			
14	Millbrook Drive	75/	930		483			
		150	VIABLE		VIABLE			
15	Pear Tree Cottage	100/	566		248			
		175	VIABLE		VIABLE			

Source: Strategic Housing Viability Study

The results indicate that at the peak level of prices an overall target of 40% could have been held to be viable

Sensitivity: tenure split

6.46 Sensitivity testing was also undertaken to assess the impact of varying the tenure split to which affordable homes are provided. The impact of moving from the assumed 80/20 to 60/40 was assessed with the 30% target proportion, to see how much viability improved compared to the base appraisals. The results are set out in Table 6.7.



	Table	6.7 Appraisal	outcomes: zero gra	nt		
		Value £k per acre				
No	Site	Alt use value	30% 80/20	30% 60/40		
1	Old Hall Farm	10/	-71	-50		
		85	NOT VIAB	NOT VIAB		
2	South Burntwood	10/	-91	-70		
		85	NOT VIAB	NOT VIAB		
3	Bison Concrete	265/	-41	-18		
		340	NOT VIAB	NOT VIAB		
4	S Shortbutts Lane	10/	33	55		
		85	MARGINAL	MARGINAL		
5	Park Lane Mile Oak	10/	85	107		
		85	VIABLE	VIABLE		
6	Lynn Lane Shenstone	275/	144	166		
0		350	NOT VIAB	NOT VIAB		
7	Abattoir Chase Terr	172/	-548	-515		
1		247	NOT VIAB	NOT VIAB		
8	Fazeley Saw Mill	201/	-65	-41		
0		276	NOT VIAB	NOT VIAB		
0	Handsacre Serv Stn	90/	-399	-360		
9		165	NOT VIAB	NOT VIAB		
40	Whittington Gr Sch	187/	101	130		
10		262	NOT VIAB	NOT VIAB		
11	Orchard Farm	161/	199	220		
		236	MARGINAL	MARGINAL		
12	Central Garage	275/	-470	-428		
		350	NOT VIAB	NOT VIAB		
10	Mastrom Printers	179/	643	673		
13		254	VIABLE	VIABLE		
1.4	Millbrook Drive	75/	245	272		
14		150	VIABLE	VIABLE		
15	Pear Tree Cottage	100/	85	104		
15		175	NOT VIAB	MARGINAL		

Source: Strategic Housing Viability Study

6.47 In fact the change has only a modest impact on residual land values, improving them typically by around £20-30k per acre (£50-75k per ha). In this particular case the impact is very slight, insufficient to change the viability status of any of the sites. There remain nine unviable sites; the change certainly does not make the 30% target achievable.



One way to consider the impact might be that in broad terms it increases the viable proportion by about 3%, so that if a 20% target was just viable with 80/20, then a 23% target, say, would be just viable with 60/40.

Sensitivity: dwelling size mix

- Earlier in the Report (3.10) we suggested that the size profile assumed for the 15 sites provided a larger proportion larger (4 bed) dwellings, and fewer small to medium sized (2-3 bed) dwellings, than the profile suggested in the SHMA to meet local needs. The question arises whether a planning policy which constrained the profile of development would impact materially on the appraisal results outlined in this chapter.
- The appraisal methodology does not allow us to model variations in size mix in sufficient detail to quantify any impact that a size mix policy would have. However it is possible to make some qualitative observations. In doing so we assume that the effect of any size mix policy would be to leave the average floorspace density (sq ft per acre/sq m per ha) unchanged, so that a reduction in dwelling size was fully offset by an increase in dwelling numbers. Clearly, if the dwelling numbers did not increase so as to maintain the floorspace density, there would be a serious impact on viability.
- The high proportion of four bedroom dwellings in the overall 15 site profile resulted from relatively high proportions of four bed units firstly on the two largest sites, and secondly on smaller sites in more rural locations, where such a profile matched the existing stock and what was being produced. The proportion of four bedroom units on the large development sites could in our view be reduced quite significantly with only a marginal impact upon residual value. Such large sites will in any case need to provide a sustainable and reasonably well balanced profile. However because the sites are large, changing them will significantly modify the overall profile.
- The smaller more rural sites provide opportunities which are not available on the large development sites, to provide larger more expensive dwellings in an attractive setting with other similar properties nearby. The three smallest sites are good examples. Changing the mix substantially on such sites towards smaller dwellings may affect the residual values to a greater extent. However they are the sites which perform best overall and their viability is less vulnerable to a reduction in residual value than the smaller and urban sites are.
- Overall therefore we conclude that a planning policy which favoured the production of small to medium sized dwellings would have only a limited impact upon the viability results outlined above. One could also comment however that smaller dwellings are likely to bear a heavier developer contributions burden because most contributions are levied on a per dwelling basis; increased dwelling numbers would therefore increase the total contributions cost for the same overall floorspace.



7. Implications of results

Our approach

- 7.1 The purpose of the 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.
- 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 Lichfield District, might be expected to display some degree of diversity. The appraisal results would produce open market land values which, compared to the limited information we have about recent values and prices currently sought for small sites in the area, are consistent and if anything somewhat lower. This suggests that the package of development assumptions is not unduly optimistic.
- 7.3 The relatively low land values emerging also reflect two other factors which we will need to take into account when reflecting on the appraisal results:
 - i) the combined effect of a serious restriction on credit availability since the early autumn of 2007 and the consequential, more general, business downturn which became increasingly established in the last guarter of 2008.
 - ii) the impact of relatively challenging requirements 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 as proposed in Regional Spatial Strategy



- 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. In an exercise of this nature, the figures have to be interpreted in order to draw conclusions for LDF 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. Producing detailed assessments and valuations for each site would involve resources well beyond the scope of the current exercise, and we suspect would probably still leave room for disputation.
- 7.5 There are variations in house prices between different parts of the study area. Most of the chosen sites are in the main settlements and we feel those areas where prices are likely to be lowest are reasonably well represented. The sites 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, previously developed land and sites not previously developed.
- 7.6 The appraisals tested various proportions of affordable housing, combined with a proposed tenure split of 80:20 social rented: intermediate housing, with intermediate housing represented by shared ownership at 25% share. In estimating the values which developers would be likely to achieve from affordable housing of the above types, we have used information provided by locally active RSLs. The response from RSLs whilst slightly disappointing was, we felt, sufficient to provide a basis for carrying out our appraisals.
- 7.7 We have taken a necessarily strategic approach. This is because the analysis is designed to test and demonstrate district-wide deliverability, in line with the requirements in para 29 of PPS3. Thus we have made assumptions for developer contributions which we believe reflect the Council's published requirements and broad needs.
- 7.8 We would emphasise that this work has to be seen as 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.

Implications of appraisal results

7.9 The viability study tested affordable target proportions from 20% up to 50%, assumed to be delivered with zero grant. The base appraisals assumed a tenure split of 80:20 social rented to intermediate.



- 7.10 The results from the appraisals indicate that at present, without grant, it would difficult to sustain a target of more than 20% affordable housing across the study area as a whole. It appears that in present market conditions only around half of the sites could produce 100% market housing, and remain viable. Three other sites are marginal at 20%, and two of the unviable sites are also unviable at zero affordable. In our view therefore a 20% target would not be unreasonable as at February 2009.
- 7.11 In the past Lichfield has typically negotiated more than 20% affordable housing on privately developed sites. The fall in house prices, combined with the additional cost of sustainable development (Level 3 plus 10% renewable), has made achieving more than 20% unrealistic for most sites in the current market circumstances.
- 7.12 There are still some areas and types of site where it should be possible to exceed a 20% affordable requirement without rendering the site unviable. Table 6.5 in the previous chapter suggests that the Rural North and Rural South/East hold up best. Even so, a 30% target for these combined areas would barely be justified by the appraisal results, and a more realistic target might be 25%.
- 7.13 The two rural areas perform well because they contain areas of mainly higher priced housing, and also because greenfield sites, well represented in the rural parts of the area, tend to do better than brownfield sites, which have a substantial existing or alternative use value. The downside of an affordable proportion higher than 20% in the rural parts of the District would be to lower the proportion that could be sought, on brownfield sites at any rate, in the three urban areas, Lichfield, Fazeley and Burntwood.
- 7.14 Relaxing the tenure split to 60% social rented: 40% intermediate improves viability, though only slightly. It would allow the maximum District wide requirement in present circumstances to increase from 20% to perhaps 22-23%.
- 7.15 Viability varies from site to site for other reasons than price. For instance, we are aware that on higher density schemes of mainly or wholly flats, it is more difficult to deliver high proportions of affordable housing whilst achieving a viable development. The results from the Lichfield site appraisals do tend to confirm this pattern. It comes about primarily because the affordable housing subsidy comes from land value, and there is proportionately much less land value available on such higher density schemes than on a more suburban density development.
- 7.16 In considering the implications for an individual Council's affordable housing policy of studies like the present one, we must recognise the complexity and diversity of the development process in reality. There will always be sites and development proposals which, because of exceptional circumstances cannot produce the level of affordable housing set by a generally reasonable target. Such factors include abnormal development costs associated with the site; particularly onerous development contribution requirements; an exceptionally high alternative user value; low market prices in a particular locality, and so on.



- 7.17 In setting targets, it is therefore necessary to strike a balance, setting a target which can be achieved in many situations and accepting that in other cases provision will fall short of the target. In such cases a process or protocol might be required, allowing the landowner or developer to demonstrate to the Council, through properly detailed financial evidence, that the due affordable contribution cannot be produced. In such cases, the desired mix could be supported through a Social Housing Grant contribution, subject to funding availability. Alternatively, a reduced affordable contribution could be accepted for the scheme.
- 7.18 If, on the other hand, an unduly cautious target were set, the total delivery of affordable housing would be significantly reduced, whilst there would probably still be particular sites or situations where the target could not be secured viably.
- 7.19 The evidence suggests that a: 20% target would be the highest that would be reasonable to put forward in present circumstances. If, as hoped, there is a recovery from the credit crunch, then the Dynamic Viability approach described below will permit the raising of the 20% target. But to what ultimate ceiling? Typically a housing needs assessment provides a basis for an upper limit to the target. We have, however, suggested that in late 2007, immediately before the credit crunch it would have just been possible to justify a 40% target. This level could, in principle, be treated as a ceiling beyond which targets should not be raised.

Other points

- 7.20 The results for the five smaller sites (11-15) provide considerable support for a size threshold below the national guidance. Indeed, the two sites which do not become unviable at 40% are both in this group. However four of the five are in the rural area; the one urban small site could not provide any affordable housing viably. At this stage a threshold of five dwellings for rural areas could be supported, but further work to test additional small urban sites would be required before this could be extended to cover Lichfield and Burntwood.
- The appraisals assume that all dwellings, market and affordable, will be built to CSH Level 3. Given that Level 3 is to be a national requirement from 2010, it seems a sensible assumption to be making at this point. However Level 3 imposes additional build costs which we have assumed cannot be recovered from enhanced values. Furthermore, it is the Government's intention that Level 4 would apply from 2013 and Level 6, from 2016. With what is currently known about technology, the additional costs of these further changes are going to be considerable. They may well push developers to focus rather more on premium and niche products where the additional costs can be, wholly or at least partially, recovered in enhanced prices, though with the present regulatory framework it is difficult to see how that could apply to the affordable elements. Whatever happens, the impact on viability following the CSH changes may be a matter for concern in the future.



Recommendations

- 7.22 It is suggested that, in accordance with PPS3 para 29 a 'plan-wide target' is set. At current viability levels in Lichfield the evidence would suggest that this be set at 20%, with suitable allowance for applicants for planning permission to make the case, based on detailed valuation evidence, that the target level cannot be achieved on particular sites due to local factors.
- 7.23 The next chapter explains the procedure for Core Strategy purposes, to ensure future deliverable targets.



8. Dynamic Viability results

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 of supplementary guidance, and the alternative would be a costly re-opening of the Core Strategy examination at each change in the housing market.
- 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

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 for Lichfield is No 4: South of Shortbutts Lane in Table 6.3).

Key indexes

- 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 4, shows the initial values of the three indexes:

	Table 8.1 Update indices										
Variable	Proposed index	Starting Value									
House Price	Halifax House Price Index	Feb 2009 = 519.9									
Build cost	BCIS General Building Cost Index	March 2009 = 286.3									
Alternative use value	Property Market Report (VOA) Value of Industrial/Warehousing Land for West Midlands – 'Typical' Value	July 2009 = figure is £275k per ha									

Sources: as shown; this table is also printed as Table A4.1

Outputs of the various matrices

- The model generates the full plausible range of target variations based on the above three indexes. The following illustration is base case of a set of eight (one for each of the values for the Alternative Use value). The full set of Dynamic Viability tables is presented in Appendix 4. Both the *Coarse* and *Fine Matrix* tables show 20% as the base affordable target.
- Our normal practice is to produce a 'Coarse' matrix to cover a very wide range of variation in indexes, using a big 10% gap) and a Fine matrix with smaller (4%) gaps in the indexes. By chance in the case of Lichfield this did not produce the normal small variations in the resultant affordable target. We assume that 5% steps in the affordable target are acceptable. Planning Inspectors have generally accepted 5% or 10% approximations for targets rather than precise numbers (ie 35% not 31.5%).
- In the case of Lichfield, however, the Fine matrix still left relatively large steps in some of the targets. It is just the chance combination of prices and costs in the benchmark site. Hence we have produce a 'Superfine' matrix with 2% gaps. This is generated an acceptable array of targets which do not involve big gaps between the indexes.
- 8.11 The following three figures show the three index results for the base alternative use value position.



Figure 8.1 Coarse Matrix output: Base Alternative Use Value

					Price	Change	HPI				
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%
~	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6
Index	-20%	229.0	20%	35%	45%	50%	55%	55%	55%	55%	55%
SIS	-10%	257.7	0%	20%	30%	40%	50%	55%	55%	55%	55%
Cost Change BCIS	0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%
ang	10%	314.9	0%	0%	5%	15%	25%	35%	40%	45%	50%
t 당	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cos	30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%
	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%

Source: Fordham Research 2009: Lichfield Viability Study. Note that the table shows proposed % target for each cost/price combination, with 0% change in alternative use value

	Figure 8.2 Fine Matrix with base alternative use value														
	Price Change HPI														
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%				
	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7				
BCIS Index	-8%	263.4	20%	25%	30%	35%	35%	40%	45%	45%	50%				
<u>S</u>	-4%	274.8	10%	20%	25%	30%	30%	35%	40%	40%	45%				
BC	0%	286.3	5%	10%	20%	25%	25%	30%	35%	40%	40%				
Change	4%	297.8	0%	5%	10%	15%	20%	25%	30%	35%	35%				
ç	8%	309.2	0%	0%	5%	10%	15%	20%	25%	30%	35%				
Cost	12%	320.7	0%	0%	0%	5%	15%	15%	20%	25%	30%				
	16%	332.1	0%	0%	0%	0%	10%	15%	15%	20%	25%				
	20%	343.6	0%	0%	0%	0%	5%	10%	15%	15%	20%				

Source: Fordham Research 2009: Lichfield Viability Study. . Note that the table shows proposed % target for each cost/price combination, with 0% change in alternative use value



Figure 8.3 Superfine Matrix: base alternative use value Price Change HPI % -4% -2% 0% 2% 4% 6% 8% 10% 12% % 498.3 508.7 519.1 529.5 539.9 550.2 560.6 571.0 581.4 Cost Change BCIS Index -4% 274.8 20% 20% 25% 25% 30% 30% 30% 35% 35% 20% 20% 25% 25% 25% 30% 30% 35% -2% 280.6 15% 0% 286.3 15% 20% 20% 25% 25% 25% 30% 30% 10% 292.0 10% 10% 15% 15% 20% 20% 25% 25% 30% 2% 15% 20% 25% 25% 4% 297.8 5% 10% 10% 15% 20% 6% 303.5 25% 5% 5% 10% 10% 15% 15% 20% 20% 309.2 10% 15% 20% 20% 8% 0% 5% 5% 10% 15% 10% 314.9 0% 0% 5% 5% 10% 10% 15% 15% 20%

Source: Fordham Research 2009: Lichfield Viability Study. Note that the table shows proposed % target for each cost/price combination, with 0% change in alternative use value

- 8.12 It is important to emphasise that the Fine (and Superfine) 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.
- 8.13 The following diagram shows the relationship between the Coarse Matrix and the Superfine one (the Fine Matrix is only included in Lichfield's case to show how we arrived at the Superfine one). The diagram is designed for the Coarse/Fine combination so that for 'Fine' one should in Lichfield's case read 'Superfine'. The mechanics are exactly the same.
- The Coarse matrix covers a very wide variation of prices and costs, bigger than has happened over two decades in the recent past. The Superfine matrix covers only a part of the overall Coarse picture. It can be readily moved from one place to another as the target moves through the trajectory dictated by the housing market's changes.



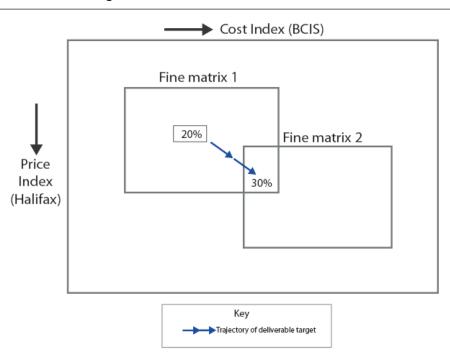


Figure 8.4 Coarse and Fine Matrices related

Source: Fordham Research 2009

Implementing Dynamic Viability

- 8.15 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 Examination.
- 8.16 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 8.4 indicates this process schematically.



Viability 40% Dynamic Viability Targets % Affordable Housing 25% Target 20% Viability Core

Figure 8.5 Implementing Dynamic Viability

Source: Fordham Research 2009

Study (present date)

Strategy Enquiry Report

The diagram illustrates the possible change in viability between study and Core Strategy Examination. 8.17 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.

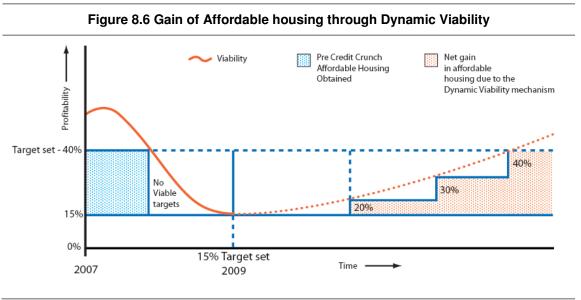
Time

Conclusion

2007

- The printouts in Appendix 4 provide the detailed background to the two tables presented above. 9.1 Together they allow for the Core Strategy Examination 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 full converted into an increased target.
- 9.2 It is possible, as part of the Section 106 Agreement on sites, particular larger ones, to include within them an updating mechanism essentially parallel to the Dynamic Viability process.





Source: Fordham Research 2009:

8.18 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.



Appendices



Appendix 1 Newbuild schemes

A1.1 The schedules below provide details of a number of current newbuild developments and other comparable housing in the District.

	Γable A1.1 Newb	ouild sche	mes	
Site / location	Builder	No. Of dwgs	Range of dwgs	Prices
Sandfields Falkland Rd Lichfield	Persimmon Homes		2, 3 & 4 bed houses	£130k- £239k
Charter Place , Shortbutts Lane, Lichfield	Bryant Homes	175	2, 3 4 & 5 bed apartments & houses	£119k- £379k
City Wharf, Wharf Close, Lichfield	Redrow Homes		2 bed apartments & houses	£105k- £128k
The Firs, Hammerwich Hospital, Hospital Road, Burntwood	Charles Church	50	3 & 4 bed houses	£219k- 289k
Orchard Hill Farm, Hill Ridware, Rake End	Friel Homes	9	1, 2, 3 & 4 bed apartments & houses	£149k- £499k
Primrose Cottage, Main Street, Alrewas	Walton Homes	1	3 bed house	£315k
Honeybourne Grange, Main Street & Fox Lane, Alrewas	Walton Homes	12	2 bed bungalow & 4 bed houses	£310k- £475k
Briarfields, Rugeley Road, Armitage	Walton Homes		1 bed coach house & 5 bed house	£120k- £220k
Tame Village, Valley Drive, Wilnecote, Tamworth	Persimmon Homes		1 bed coach house, 2 bed apartments 3 bed houses	£85k- £195k
Greenway Park, Parkfield Crescent, Two Gates, Tamworth	Walton Homes	39	2 bed apartments & 3 bed houses	£119k- £224k
Bradden House, Bradden Court, Lichfield Road, Tamworth	Elan Homes	13	2 bed apartments	£170k
Pegasus Court, Bird Street, Lichfield	Pegasus Homes	19	1 & 2 bed apartments	£179k- £249k
Green Acres, Bone Hill, Fazeley		4	4 & 5 bed houses	£425k- £475k



Table	A1.2 Other com	parable pı	roperties	
Site / location	Builder	No. Of dwgs	Range of dwgs	Prices
***The Maltings, Burton Old Road, Streethay, Lichfield	Bellway Homes	35	2, 3 & 4 bed houses	£150k- £240k
*** Millbrook Avenue, Shenstone, Lichfield	Antler Homes	4	4 bed homes	£364k
***Swan Croft, Whittington Grange School,	Cameron Homes	12	3 & 4 bed houses	£185k- £320K
***Edingale (general)	Rowley Close		3 bed end terrace	£180k
	Blakeways Close		5 bed house	£370k
	Pessall Lane		4 bed house	£335k
***Chase Terrace (general)	Angel Croft		3 bed det	£209k
	Gullick Way		3 bed town house	£159k
	St John Close		3 bed town house	£145k
	Two Oaks Ave		3 bed terraced house	£134k
	Chaselands		2 bed house	£113k- £119k
***Fradley (general)	Ward Close		2 bed house	£134k- £119k
	Gillespie Close		3 bed house	£159k
	Williams Ave		3 bed Town house	£169k
	Webb Close		4 bed house	£269k



Appendix 2 House price variations

- A2.1 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.
- A2.2 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 A2.1 Price variations by po	stcode sectoi	,	
Postcode sector	Areas covered in sector	Q4 08	Q2 08	Q4 07
WS15 1	Upper Longdon [Brereton]	66%	81%	75%
WS7 4	Chasetown C	80%	77%	69%
WS7 2	Burntwood E	70%	86%	83%
WS7 1	Burntwood W	76%	77%	90%
WS13 7	Lichfield N W	76%	99%	89%
WS15 4	Armitage	82%	100%	88%
WS7 3	Chasetown W		114%	78%
B78 3	Fazeley	93%	104%	93%
WS7 0	Hammerwich	103%	89%	105%
WS13 8	Chorley Fradley	107%	87%	113%
WS7 9	Chasetown E		101%	108%
WS14 9	Lichfield SE Whittington	102%	110%	109%
WS13 6	Lichfield C	111%	110%	111%
WS15 3	Colton, Hamstall	130%	103%	121%
B79 9	Harlaston	84%	128%	145%
WS14 0	Shenstone	113%	121%	134%
B75 5	Canwell Hall [Mere Green]	121%	130%	122%
B74 3	Aldridge	135%	132%	141%
DE13 7	Alrewas Kings Bromley	223%	134%	116%

Source: Analysis of Land Registry data

Notes

- 1. Where a postcode sector includes areas inside and outside the District, the areas outside are shown in brackets, as [Brereton]
- 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 A2.2 Worked example for WS14 9 at Q4 2008												
		Lanc	Registry data	Q4 2008								
Detached Semi Terraced Flat T												
England & Wales - median price	£271,583	£161,250	£135,995	£142,688								
England & Wales - no of sales	22,381	28,916	31,005	19,775	102,077							
WS14 9 – ave price	£321,559	£165,343	£142,187	£112,785								
WS14 9 price as % E & W median value	118.4%	102.5%	104.6%	79.0%								
Weighted average index for WS14 9 =	[(22381 x 118.4%)+(28916 x 102.5%)+(31005 x 104.6%)+(19775 x 79.0%)] / 102,077											
		=	102.1%									

Source: Analysis of Land Registry data



Appendix 3 Small plots for sale

Table A3.1 Asking prices for building sites/plots: values											
Location	No	site area	Acking price	Land value							
Location	dwgs	acres (ha)	Asking price	per acre	per ha						
Ravenhurst Drive Great Barr	1	0.06 (0.025)	£125k	£2.04m	£5.05m						
Bower Lane Rugeley	1	0.12 (0.048)	£160k	£1.35m	£3.33m						
Sherifoot Lane Four Oaks	1	0.12 (0.05)	£265k	£2.21m	£5.46m						
Main Road Brereton	8	est 0.30 (0.12)	£340k	£1.13m	£2.80m						
Bradbury Lane Hednesford	13	0.75 (0.30)	£720k	£960k	£2.37m						
Sutton Coldfield	20	0.08 (0.32)	£1.20m	£1.50m	££3.71m						

Source: Internet listings March 2009





Appendix 4 Proposed benchmark appraisal

Benchmark site

A4.1 It is proposed that the benchmark site appraisal should be based upon an amended version of site 4, South of Shortbutts Lane. The (minimal) amendment is necessary to ensure it is <u>just</u> viable at the proposed target level of 30%. The alternative use value for site 4 is industrial/warehousing land.

Indexation

A4.2 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 July 2009 'starting' values.

	Table A4.1 Update indices	
Variable	Proposed index	Starting Value
House Price	Halifax House Price Index	Feb 2009 = 519.1
Build cost	BCIS General Building Cost Index	Mar 2009 = 286.3
Alternative use value	Property Market Report (VOA) Value of Industrial/Warehousing Land for Eastern Region – 'Typical' Value	July 2009 = figure is £936k per ha

The three sets of tabulations

- A4.3 There are three sets of tables, as discussed in Chapter 8: Coarse (10% gaps in the two main indexes); Fine (4% gaps) and Superfine (2% gaps). All the affordable targets are rounded to the nearest 5%. As explained, the third (Superfine) set is required for Lichfield to produce reasonable 5% gaps in the index changes.
- A4.4 Each index is set out by 8 10% bands of alternative use value (the Alternative Use value figures are stated on the Tables: the Valuation Office Agency like the valuation profession still uses Imperial measures). Each set of eight tables begins with the base case (£10,000 per acre).



Lichfield Benchmark Site Appraisal

Coarse Matrix

	Table C1 Base Alternative Use Value: 0% Change - £10,000 Per Acre														
	Price Change HPI														
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%				
×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6				
Index	-20%	229.0	20%	35%	45%	50%	55%	55%	55%	55%	55%				
BCIS	-10%	257.7	0%	20%	30%	40%	50%	55%	55%	55%	55%				
BG	0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%				
Change	10%	314.9	0%	0%	5%	15%	25%	35%	40%	45%	50%				
Cha	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%				
Cost	30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%				
ŏ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%				
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%				

	Table C2 Alternative Use Value: - 60% Change - £4,000 Per Acre														
	Price Change HPI														
	% -20% -10% 0% 10% 20% 30% 40% 50% 60%														
×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6				
Index	-20%	229.0	20%	35%	45%	55%	55%	55%	55%	55%	55%				
BCIS	-10%	257.7	0%	20%	30%	40%	50%	55%	55%	55%	55%				
B(0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%				
Change	10%	314.9	0%	0%	5%	20%	30%	35%	40%	45%	50%				
Sha	20%	343.6	0%	0%	0%	5%	20%	25%	35%	40%	45%				
Cost (30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%				
ပိ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%				
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%				



	Table C3 Alternative Use Value: - 40% Change - £6,000 Per Acre														
	Price Change HPI														
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%				
) ×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6				
Index	-20%	229.0	20%	35%	45%	50%	55%	55%	55%	55%	55%				
BCIS	-10%	257.7	0%	20%	30%	40%	50%	55%	55%	55%	55%				
BG	0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%				
Change	10%	314.9	0%	0%	5%	20%	30%	35%	40%	45%	50%				
Cha	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%				
Cost (30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%				
ŏ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%				
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%				

		Table C	4 Altern	ative Us	se Value	e: - 20%	Change	e - £8,00	0 Per Ad	ere	
					Pric	e Change	HPI				
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%
×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6
Index	-20%	229.0	20%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-10%	257.7	0%	15%	30%	40%	45%	55%	55%	55%	55%
B(0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	10%	314.9	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost	30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%
ŭ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%

	1	able C5	Alterna	ative Us	e Value	: + 20%	Change	- £12,00	00 Per A	cre	
					Pric	e Change	e HPI				
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%
×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6
Index	-20%	229.0	25%	40%	50%	55%	55%	55%	55%	55%	55%
BCIS	-10%	257.7	5%	25%	35%	45%	50%	55%	55%	55%	55%
) B(0%	286.3	0%	5%	20%	35%	40%	45%	50%	55%	55%
Change	10%	314.9	0%	0%	10%	20%	30%	40%	45%	50%	55%
Cha	20%	343.6	0%	0%	0%	10%	20%	30%	35%	40%	45%
Cost (30%	372.2	0%	0%	0%	0%	10%	20%	30%	35%	40%
၂ ၓ	40%	400.8	0%	0%	0%	0%	0%	10%	20%	25%	35%
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	20%	25%



	T	able C6	Alterna	ative Us	e Value:	+ 40%	Change	e - £14,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%
e K	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6
Index	-20%	229.0	20%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-10%	257.7	0%	15%	30%	40%	45%	55%	55%	55%	55%
BG	0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	10%	314.9	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%

	T	able C7	Alterna	ative Us	e Value:	: + 60%	Change	- £16,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%
×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6
Index	-20%	229.0	15%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-10%	257.7	0%	15%	30%	40%	45%	55%	55%	55%	55%
	0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	10%	314.9	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%

	T	able C8	Alterna	ative Us	e Value	: +80%	Change	e - £18,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-20%	-10%	0%	10%	20%	30%	40%	50%	60%
×	%		415.3	467.2	519.1	571.0	622.9	674.8	726.7	778.7	830.6
Index	-20%	229.0	15%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-10%	257.7	0%	15%	30%	40%	45%	55%	55%	55%	55%
) B(0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	10%	314.9	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	20%	343.6	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (30%	372.2	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	40%	400.8	0%	0%	0%	0%	0%	10%	15%	25%	30%
	50%	429.5	0%	0%	0%	0%	0%	0%	10%	15%	25%



Lichfield Benchmark Site Appraisal

Fine Matrix (4%)

	Та	ble F1	Base Al	ternative	e Use Va	alue: 0%	6 Chang	e - £10,	000 Per	Acre	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
 ₩	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
BCIS Index	-8%	263.4	20%	25%	30%	35%	35%	40%	45%	45%	50%
SS	-4%	274.8	10%	20%	25%	30%	30%	35%	40%	40%	45%
	0%	286.3	5%	10%	20%	25%	25%	30%	35%	40%	40%
Change	4%	297.8	0%	5%	10%	15%	20%	25%	30%	35%	35%
Cha	8%	309.2	0%	0%	5%	10%	15%	20%	25%	30%	35%
Cost	12%	320.7	0%	0%	0%	5%	15%	15%	20%	25%	30%
ŏ	16%	332.1	0%	0%	0%	0%	10%	15%	15%	20%	25%
	20%	343.6	0%	0%	0%	0%	5%	10%	15%	15%	20%

		Table F	2 Altern	ative Us	se Value	: - 30%	Change	e - £4,00	0 Per Ac	re	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
W X	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	20%	35%	45%	55%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	20%	30%	40%	50%	55%	55%	55%	55%
) B(0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	20%	30%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	20%	25%	35%	40%	45%
Cost (12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%



		Table F	3 Altern	ative Us	se Value	: - 20%	Change	e - £6,00	0 Per Ac	ere	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
×	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	20%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	20%	30%	40%	50%	55%	55%	55%	55%
Be	0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	20%	30%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ŭ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%

		Table F	4 Altern	ative Us	se Value	: - 10%	Change	e - £8,00	0 Per Ac	re	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	20%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	20%	30%	40%	50%	55%	55%	55%	55%
	0%	286.3	0%	0%	20%	30%	40%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%

	7	Γable F5	Alterna	ative Us	e Value	+10%	Change	- £12,00	0 Per A	cre	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
×	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	20%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	15%	30%	40%	45%	55%	55%	55%	55%
B	0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပြ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%



	1	Table F6	Alterna	ative Us	e Value:	+ 20%	Change	- £14,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
×	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	20%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	15%	30%	40%	45%	55%	55%	55%	55%
B B	0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%

	1	able F7	Alterna	ative Us	e Value	: + 30%	Change	- £16,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
×	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	15%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	15%	30%	40%	45%	55%	55%	55%	55%
	0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost (12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%

	1	Table F8	Alterna	ative Us	e Value:	+ 40%	Change	- £18,00	00 Per A	cre	
					Pric	e Change	: HPI				
		%	-8%	-4%	0%	4%	8%	12%	16%	20%	24%
×	%		477.6	498.3	519.1	539.9	560.6	581.4	602.2	622.9	643.7
Index	-8%	263.4	15%	35%	45%	50%	55%	55%	55%	55%	55%
BCIS	-4%	274.8	0%	15%	30%	40%	45%	55%	55%	55%	55%
B(0%	286.3	0%	0%	15%	30%	35%	45%	50%	55%	55%
Change	4%	297.8	0%	0%	5%	15%	25%	35%	40%	45%	50%
Cha	8%	309.2	0%	0%	0%	5%	15%	25%	35%	40%	45%
Cost	12%	320.7	0%	0%	0%	0%	5%	15%	25%	30%	35%
ပိ	16%	332.1	0%	0%	0%	0%	0%	10%	15%	25%	30%
	20%	343.6	0%	0%	0%	0%	0%	0%	10%	15%	25%



Lichfield Benchmark Site Appraisal

Superfine Matrix (2%)

	Tal	ole SF1	Base Al	ternativ	e Use V	alue: 0°	% Chang	ge – £10	,000 Per	Acre	
					Pric	e Change	HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
BCIS Index	-4%	274.8	20%	20%	25%	25%	30%	30%	30%	35%	35%
<u>S</u>	-2%	280.6	15%	20%	20%	25%	25%	25%	30%	30%	35%
	0%	286.3	10%	15%	20%	20%	25%	25%	25%	30%	30%
Cost Change	2%	292.0	10%	10%	15%	15%	20%	20%	25%	25%	30%
Ş	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	15%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%

	1	Γable SF	2 Alter	native U	lse Valu	e: -30%	Change	e – £4,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
Index	-4%	274.8	20%	20%	25%	25%	30%	30%	30%	35%	35%
BCIS II	-2%	280.6	15%	20%	20%	25%	25%	25%	30%	30%	35%
BC BC	0%	286.3	10%	15%	20%	20%	25%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	20%	20%	25%	25%	25%	30%
S	4%	297.8	5%	10%	10%	15%	20%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	20%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	20%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	15%	15%	20%	20%

	1	Γable SF	3 Alter	native U	se Valu	e: -20%	Change	e – £6,00	00 Per A	cre	
					Pric	e Change	HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
BCIS Index	-4%	274.8	20%	20%	25%	25%	30%	30%	30%	35%	35%
Si	-2%	280.6	15%	20%	20%	25%	25%	25%	30%	30%	35%
BC BC	0%	286.3	10%	15%	20%	20%	25%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	20%	20%	20%	25%	25%	30%
S	4%	297.8	5%	10%	10%	15%	20%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	20%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	15%	15%	15%	20%

		Table Si	-4 Alter	native L	lse Valu	ie: -10%	Change	e - £8,00	0 Per A	cre	
					Pric	e Change	HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
Index	-4%	274.8	20%	20%	25%	25%	30%	30%	30%	35%	35%
BCIS I	-2%	280.6	15%	20%	20%	25%	25%	25%	30%	30%	35%
	0%	286.3	10%	15%	20%	20%	25%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	20%	20%	20%	25%	25%	30%
S	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	15%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%

	Т	able SF	5 Alterr	native Us	se Value	e: +10%	Change	e - £12,0	00 Per A	cre	
					Pric	e Change	e HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
Index	-4%	274.8	15%	20%	25%	25%	30%	30%	30%	35%	35%
BCIS II	-2%	280.6	15%	15%	20%	25%	25%	25%	30%	30%	35%
BC BC	0%	286.3	10%	15%	15%	20%	20%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	15%	20%	20%	25%	25%	30%
S	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	15%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%



	Т	able SF	6 Altern	ative Us	se Value	e: +20%	Change	e - £14,0	00 Per <i>A</i>	Acre	
					Pric	e Change	HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
BCIS Index	-4%	274.8	15%	20%	25%	25%	25%	30%	30%	35%	35%
	-2%	280.6	15%	15%	20%	25%	25%	25%	30%	30%	35%
	0%	286.3	10%	15%	15%	20%	20%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	15%	20%	20%	25%	25%	30%
Š	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	15%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%

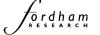
	Т	able SF	7 Alterr	native Us	se Value	÷: +30%	Change	e - £16,0	00 Per <i>A</i>	Acre	
					Pric	e Change	HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
Index	-4%	274.8	15%	20%	25%	25%	25%	30%	30%	35%	35%
BCIS II	-2%	280.6	15%	15%	20%	20%	25%	25%	30%	30%	35%
BC BC	0%	286.3	10%	15%	15%	20%	20%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	15%	20%	20%	25%	25%	30%
S	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	5%	5%	10%	10%	15%	15%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%

	Т	able SF	8 Altern	ative Us	se Value	÷: +40%	Change	e - £18,0	00 Per <i>A</i>	Acre	
					Pric	e Change	e HPI				
		%	-4%	-2%	0%	2%	4%	6%	8%	10%	12%
	%		498.3	508.7	519.1	529.5	539.9	550.2	560.6	571.0	581.4
Index	-4%	274.8	15%	20%	25%	25%	25%	30%	30%	35%	35%
BCIS II	-2%	280.6	15%	15%	20%	20%	25%	25%	30%	30%	35%
BC BC	0%	286.3	10%	15%	15%	20%	20%	25%	25%	30%	30%
Change	2%	292.0	10%	10%	15%	15%	20%	20%	25%	25%	30%
S	4%	297.8	5%	10%	10%	15%	15%	20%	20%	25%	25%
Cost	6%	303.5	0%	5%	10%	10%	15%	15%	20%	20%	25%
	8%	309.2	0%	5%	5%	10%	10%	15%	15%	20%	20%
	10%	314.9	0%	0%	5%	5%	10%	10%	15%	15%	20%



Appendix 5 Financial appraisal summaries

A5.1 The development viability **summaries** contained in the following pages set out the assumptions and outputs of the viability appraisals for a 20% affordable 'zero grant' scenario.



SITE 1: Old Hall Farm Fradley



Input assumptions	Scenario & option	Affordable 20% = spli	80% social rented 20	% intermediat	te		
Lichfield site viability stu	ıdy	Dwellings					
Site details				ave floor s		build	sales
Site Lich 01	Old Hall farm	Dwellings		gross	net	cost	value
Location Fradley				sq ft	sq ft	per sq ft	per sq ft
Area ha 7.90		Market housing	251.2 80.00%	984	964	83.50	182.00
acres 19.52	_					0.0%	
No dwgs 314		Affordable soc rent	50.2 16.00%	984	964	83.50	66.00
Density dw/ha 39.7						0.0%	
		Affordable sh oship	12.6 4.00%	984	964	83.50	103.00
		[0.0%	
		Aff other 1	0.0 0.00%	984	964	83.50	0.00
						0.0%	
		Aff other 2	0.0 0.00%	0	0	83.50	0.00
.	£k		2// 2 //22 22/				
Contingency	0.45	Total	314.0 100.00%	308,976	302,696	£25,799,496	£48,516,115
allowance 2.50%	645	Flagger dansity	4F F00				
		Floorspace density	= 15,506 ne	et sq it per aci	re		
Development costs standard % build 23.00%	6 6,082						
		Other costs					
		Planning	540.1	£ per dwell	ing		
	<u></u>	Survey	500	£ per dwell	ing		
plus abnormals 0.2%	60						
		Marketing	0	£ per dwell	ing		
Total 23%							
Design food							
Design fees on build costs 10.0%	2,644	Interest					
OH Build Costs 10:078	2,044	% per annum	7.50%				
		76 per annum	7.5076				
on dev costs 0%							
0 /6		Notes					
		10103					
Planning gain							
£ per dwg 5,100							
£ per HOUSE 550							
£ per MKT HOUSE 600							
Assumed flats % 12%							
12%							

SITE 1 LAND COST & PHASING

Land				
	Iterate to achiev	e 20.0% profit		
			He	ctare
	Affordable	No affordable	Affordable	No affordable
Land purchase price	£ 439,651	4,008,597		
RV per acre	£ 22,522	205,349	£55,652	£507,417
Dev profit	£ 7,770,166	9,189,520		
Total costs	£ 40,747,899	45,903,102		
profit as % of costs	19.07%	20.02%		

		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			8.0	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	0.0	0.0	251.2
	Affordable soc rent			1.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	0.0	0.0	50.2
	Affordable sh oship			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	0.6	0.6	0.6	0.6	0.0	0.0	12.6
	Aff other 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
	Aff other 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	10	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	16	0	0	314.0
Units 'built'	Market housing			0	0	8	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	251
+2Q	Affordable soc rent			0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	50
	Affordable sh oship			0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13
	Aff other 1			ō	ō	ō	Ó	Ó	Ö	Ó	0	Ó	Ó	Ö	0	Ó	Ó	Ö	ò	0	Ó	Ó	0	Ó	Ó	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	8	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	251
complet																										
+3Q	Affordable soc rent				0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	50
	Affordable sh oship				0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units purchas						0	0	8	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	13	251
+4Q	Affordable soc rent					0	0	2	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	50
	Affordable sh oship					0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	13
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





SITE 1 CASH FLOW AFFORDABLE

		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	Year 6 Q1	Q2	Q3	Q4	Year 7 Q1	Q2	Q3	Q4	TOTALS
		rate	Q1	Q2	Q3	C/4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	U1	Q2	Q3	Q4	Q1	Q2	Ų3	C/4	IOTALS
INCOME																															
	•																														
Housing sales	Market housing		0	0	0	0	0	0	1,404	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	2,246	0	0	44,073
	Affordable soc rent		0	0	0	0	0	0	102	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	163	0	0	3,196
	Affordable sh oship		0	0	0	0	0	0	40	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	64	0	0	1,247
	Aff other 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
	Aff other 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
	Sales fees		0	U	0	0	U	0	-50	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	-80	U	U	-1,577
Total income			0	0	0	0	0	0	1,545	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	2,472	0	0	48,516
COSTS																															
	·																														
Land	Land acquisition		440																												440
	Stamp duty		13 12																												13
	Purchase fees Total		12																												12 465
	Market housing		0	0	0	0	657	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	1,052	0	0	0	0	20,640
Duna COSIS	Affordable soc rent		0	0	0	0	131	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	210	0	0	0	0	4.128
	Affordable sh oship		ő	0	0	0	33	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	53	o o	0	o o	0	1,032
	Aff other 1		ő	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	o o	0	o o	ő	0
	Aff other 2		ō	ō	ō	ō	ō	ō	ō	ō	0	ō	ō	ō	ō	ō	ō	ō	ō	ō	ō	0	0	ō	ō	ō	ō	ō	ō	0	ō
	Build contingency	2.5%	ō	ō	ō	ō	21	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	33	ō	ō	ō	0	645
	Total																														26,444
Dev costs	Upfront	11.5%	760	760	760	760																									3,041
	Build related	11.5%	0	0	97	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	155	0	0	0	0	0	0	3,041
	Abnormals	0%	30	30																											60
	Total																														6,142
Fees	Fees on build costs	10.0%	0	0	0	0	84	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	135	0	0	0	0	2,644
	Fees on dev costs	0.0%	0	0	0	0	0	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				60	00	96	00	00	96	96	00	00	96	96	96	00	00	96	00	96	00	96	96		0					2,644
	Planning gain Total				60	96	96	90	96	96	96	96	90	96	96	96	96	96	96	90	96	96	96	96	U	U	0	U	0	0	1,886 1,886
Other	Planning	£540	57	57	57																										170
	Survey	£500	157	37	31																										157
	Marketing	£0	107		0	0	0	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	20			·	Ů		·		•	Ŭ	•	•	•	Ŭ	•	•			·	•		"				ľ	•			327
	b/forward from above		0	0	0	0	0	0	50	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	80	0	0	1,577
Total costs			1,468	847	974	1,011	1,177	1,733	1,784	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,814	1,563	1,563	80	80	0	0	39,485
Net profit/loss	from quarter		-1,468	-847	-974	-1,011	-1,177	-1,733	-238	658	658	658	658	658	658	658	658	658	658	658	658	658	658	658	910	910	2,392	2,392	0	0	9,031
Profit/loss bf fro	om last quarter		0	-1,496	-2,386	-3,423	-4,517	-5,802	-7,676	-8,063	-7,543	-7,014	-6,474	-5,925	-5,365	-4,795	-4,214	-3,622	-3,019	-2,404	-1,779	-1,141	-491	170	844	1,787	2,747	5,235	7,770	7,770	
Cumulative prof	lit/loce		-1,468	-2.343	-3,360	-4,434	-5,695	-7,535	-7,915	-7,404	-6,885	-6.355	-5.816	-5,266	-4,706	-4.136	-3,555	-2,963	-2,360	-1,746	-1,120	-482	167	829	1,754	2,696	5,139	7,627	7,770	7,770	
ou.nulative prof			-1,400	-2,043	-0,000	-4,404	-5,003	.,,,,,,,	.,,,,,,	-7,404	-0,003	-0,000	-0,010	-0,200	-4,700	-4,100	-0,000	-2,000	-2,500	-1,740	-1,120	-402	107	020	1,704	2,000	3,133	7,027	7,770	7,770	
Interest	Charged at	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%	0.00%	0.00%	
	Total	1.00/8	-28	-44	-63	-83	-107	-141	-148	-139	-129	-119	-109	-99	-88	-78	-67	-56	-44	-33	-21	-9	3	16	33	51	96	143	0.0078	0.0078	-1,262
	· Otta		-20		-03	-00	-107	-141	-140	-100	-120	-110	-100	-00	-00	-70	-07	-30		-00	-21	-0	,	10	30	31	30	140			-1,202
Cumulative de	veloper profit		-1.496	-2,386	-3,423	-4,517	-5,802	-7,676	-8,063	-7,543	-7,014	-6,474	-5,925	-5,365	-4,795	-4,214	-3,622	-3,019	-2,404	-1,779	-1,141	-491	170	844	1,787	2,747	5,235	7,770	7,770	7,770	7,768
			-1,430	-2,300	-0,423	-4,517	-5,302	-1,570	-0,003	-7,343	-7,014	-0,474	-5,525	-5,505	-4,795	-4,214	-0,022	-0,019	-2,404	-1,779	-1,141	-491	170	044	1,707	2,/4/	3,233	1,110	1,770	1,770	1,700
carried forward	u to HV cate																														
																											1				

SITE 2: South Burntwood





nput assumptions	Scenario & option	Affordable 20% = split 80	% social rented 20	% intermedia	te		
ichfield site viability stud	dy	Dwellings					
ite details				ave floor s	pace	build	sales
ite Lich 02	Highfields Rd	Dwellings		gross	net	cost	value
	rrace BURNTWOOD			sq ft	sq ft	per sq ft	per sq ft
rea ha <u>5.75</u> acres 14.21		Market housing 2	200.0 80.00%	890	881	82.50 0.0%	181.00
o dwgs 250	1	Affordable soc rent	40.0 16.00%	890	881	82.50	65.00
ensity dw/ha 43.5	1	Anordable 300 rent	10.0070	030	001	0.0%	00.00
•		Affordable sh oship	10.0 4.00%	890	881	82.50	102.00
					1	0.0%	
		Aff other 1	0.0 0.00%	890	881	82.50	0.00
		Aff other 2	0.0 0.00%	0	0	0.0% 82.50	0.00
	£k	All other 2	0.00 /8		U	02.50	0.00
ontingency	_	Total 2	250.0 100.00%	222,500	220,250	£18,356,250	£35,081,420
allowance 2.50%	459	Flace	45 500				
		Floorspace density	= 15,502 ne	et sq tt per aci	re		
evelopment costs	1						
standard % build 26.00%	4,892	Other costs					
		Planning	526.0	£ per dwell	ina		
		i idililiig	020.0	2 per awen	"'9		
	_	Survey	500	£ per dwell	ing		
plus abnormals 0.8%	145						
		Marketing	0	£ per dwell	ina		
otal 27%		Marketing		2 per awen	"'g		
esign fees	1						
on build costs 10.0%	1,882	Interest	7.500/				
		% per annum	7.50%				
n dev costs 0%							
		Notes					
lanning gain	1						
per dwg 5,100							
per HOUSE 0							

SITE 2 LAND COST & PHASING

Land				
	Iterate to achieve	e 20.0% profit		
	<u> </u>		He	ctare
	Affordable	No affordable	Affordable	No affordable
Land purchase price	£ 91,818	2,800,778		
RV per acre	£ 6,462	197,123	£15,968	£487,092
Dev profit	£ 5,599,495	6,650,285		
Total costs	£ 29,483,650	33,216,690		
profit as % of costs	18.99%	20.02%		

Prograi	nme	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	Year 6 Q1	Q2	Q3	Q4
Units				8.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0	0.0	0.0	0.0	0.0	0.0
Starteu	Affordable soc rent			1.6	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0
	Affordable sh oship			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	0.6	0.0	0.0	0.0	0.0	0.0
	Aff other 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
	Aff other 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
	TOTAL	0	0	10	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	0	0	0	0	0
Units 'built'	Market housing			0	0	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0	0
+2Q	Affordable soc rent			0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0	0
120	Affordable sh oship			Ô	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	o l	0
	Aff other 1			Ö	Ō	ō	Ó	Ö	Ö	Ó	Ö	Ó	Ö	Ö	Ö	Ö	Ó	Ö	Ö	Ó	Ó	0	Ō	Ō	Ö
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units					0	0	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0	0
comple																									
+3Q	Affordable soc rent				0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0	0
	Affordable sh oship				0	0	0	1	1	1	1	1	1	1 1	1	1	1	1	1	1	1	1	1	0	0
	Aff other 1 Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units					- 0	0	0	8	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	0
purcha							Ü	Ü	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	ŭ
+4Q	Affordable soc rent					0	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	0
	Affordable sh oship					0	0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0





SITE 2 CASH FLOW AFFORDABLE

			V				V0				V0				V								V2				
		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	Year 6 Q1	Q2	Q3	Q4	TOTALS
INCOME																											
Housing sales	Market housing		0	0	0	0	0	0	1,276	1,914	1,914	1.914	1.914	1.914	1,914	1.914	1.914	1,914	1,914	1.914	1,914	1,914	1,914	1.914	1,914	0	31.892
	Affordable soc rent		0	0	0	0	0	0	92	1,914	1,914	1,914	1,914	137	1,914	1,914	1,914	1,914	1,914	1,914	1,914	1,914	1,914	1,914	1,914	0	2,291
	Affordable sh oship		ő	Ö	Ö	Ö	ő	Ö	36	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	54	ő	899
	Aff other 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
	Aff other 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
	Sales fees		0	0	0	0	0	0	-46	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	-68	0	-1,141
Total income			0	0	0	0	0	0	1,403	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	2,105	0	35,081
COSTS																											
Land	Land acquisition		92																								92
	Stamp duty		1																								1
	Purchase fees		3																								3
	Total		_	_	_		507	004	004	004	204	204	004	004	004	204	204	004	204	004	004	004	004				95
	Market housing		0	0	0	0	587 117	881 176	881 176	881 176	881 176	0	0	0	14,685 2,937												
	Affordable soc rent Affordable sh oship		0	0	0	0	29	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	0	0	0	734
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő	0
	Aff other 2		ō	ō	ō	ō	0	ō	Ō	ō	ō	ō	ō	ō	0	ō	ō	Ō	ō	ō	ō	ō	ō	ō	ō	ō	ō
	Build contingency	2.5%	0	0	0	0	18	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	0	0	0	459
	Total																										18,815
	Upfront	13.0%	611	611	611	611 147	147	147	1.47	1.47	1.47	147	1.47	1.47	1.47	147	1.47	1.47	1.47	147	1.47	0				0	2,446
	Build related Abnormals	13.0%	0 72	0 72	98	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	147	U	0	0	0	0	2,446 145
	Total	1 70	12	12																							5,037
	Fees on build costs	10.0%	0	0	0	0	75	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	113	0	0	0	1,882
	Fees on dev costs	0.0%	0	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																										1,882
	Planning gain				51	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	77	0	0	0	0	0	1,275
	Total Planning	£526	44	44	44																						1,275 132
	Survey	£500	125	***	***																						125
	Marketing	£0	120		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																										257
	b/forward from above		0	0	0	0	0	0	46	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	0	1,141
Total costs			948	728	804	835	1,051	1,465	1,511	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,534	1,310	1,310	68	68	0	28,501
Net profit/loss	from quarter		-948	-728	-804	-835	-1,051	-1,465	-107	571	571	571	571	571	571	571	571	571	571	571	571	795	795	2,036	2,036	0	6,580
Profit/loss bf fro	om last quarter		0	-966	-1,725	-2,577	-3,475	-4,611	-6,190	-6,416	-5,954	-5,483	-5,004	-4,516	-4,018	-3,511	-2,995	-2,469	-1,933	-1,387	-831	-265	540	1,360	3,460	5,599	
Cumulative prof	it/loss		-948	-1,693	-2,529	-3,411	-4,526	-6,076	-6,298	-5,844	-5,382	-4,912	-4,433	-3,944	-3,447	-2,940	-2,424	-1,898	-1,362	-816	-260	530	1,335	3,396	5,496	5,599	
	Charged at	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%	0.00%	
	Total		-18	-32	-47	-64	-85	-114	-118	-110	-101	-92	-83	-74	-65	-55	-45	-36	-26	-15	-5	10	25	64	103	0	-982
Cumulativo do	volonor profit		-966	-1.725	-2.577	-3,475	-4 611	-6.190	-6.416	-5,954	-5,483	-5.004	-4.516	-4,018	-3,511	-2.995	-2,469	-1,933	-1,387	-831	-265	540	1.360	3.460	5,599	5,599	5,598
Cumulative de carried forward			-900	-1,725	-2,3//	-3,475	-4,611	-0,190	-6,416	-5,954	-5,483	-5,004	-4,316	-4,018	-3,511	-2,995	-2,469	-1,933	-1,387	-031	-200	540	1,360	3,400	5,599	5,599	5,598

SITE 3: Bison Concrete Lichfield



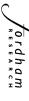
ichfield site viability study	_
	Dwellings
Site details Site Lich 03 Bison Ocation Shortbutts Lane Lichfield	ave floor space build sales Dwellings gross net cost value
rea ha 4.09	Market housing 140.0 80.00% 1,019 988 85.00 193.00
acres 10.11 lo dwgs 175	Affordable soc rent 28.0 16.00% 1,019 988 85.00 66.00
Density dw/ha 42.8	0.0%
	Affordable sh oship 7.0 4.00% 1,019 988 85.00 103.00 0.0%
	Aff other 1 0.0 0.00% 1,019 988 85.00 0.00 0.0%
	Aff other 2 0.0 0.00% 0 0 85.00 0.00
Contingency allowance 5.00% 758	Total 175.0 100.00% 178,325 172,900 £15,157,625 £29,233,932
allowance 5.00% 756	Floorspace density = 17,108 net sq ft per acre
Development costs	
standard % build 16.00% 2,546	
	Other costs Planning 496.4 £ per dwelling
	Survey £ per dwelling
plus abnormals 1.5% 245	2 per dwelling
otal 18%	Marketing 0 £ per dwelling
Oesign fees on build costs 10.0% 1,592	Interest
	% per annum 7.50%
n dev costs 0%	To a control of the c
	Notes
Planning gain	
per dwg 8,300 per HOUSE 550	
per MKT HOUSE 600 sssumed flats % 18%	

SITE 3 LAND COST & PHASING

		L	and	ı																									
														tera	te to	acł	nieve	20.	.0%	orof	it								
																									Hec	tare			
													_	Af	ford	able			No at	fford	able	_ /	Affor	dab	le	No	affor	dabl	е
		L	.and	purc	hase	price	Э						£	7	15,0)81			2,92										
		F	RV pe	er acı	re								£	7	70,7	55			28	9,22	26	5	£174	4,83	6	£.	714,6	676	
			ev p	rofit									£	4,0	671,	481			5,5	67,4	01								
		Т	otal	costs	3								£	24,	,564	,551	<u> </u>		27,8	04,	399	_							
		p	rofit	as %	% of	cost	s							1	9.02	2%			20	.02	%								
Programme	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	Year 6 Q1	Q2	Q3	Q4	Year 7 Q1	Q2	Q3	Q4 T	TOTALS
Units Market housing started			5.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	140.0
Affordable soc rent Affordable sh oship Aff other 1 Aff other 2 TOTAL	0	0	1.1 0.3 0.0 0.0	1.3 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	28.0 7.0 0.0 0.0 175.0																				

		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	IOIALS
Ur				5.6	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	140.0
Start	Affordable soc rent Affordable sh oship			1.1 0.3	1.3 0.3	0.0 0.0	0.0 0.0	0.0 0.0	0.0 0.0	28.0 7.0																				
	Aff other 1 Aff other 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
	TOTAL	0	0 [7	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	0.0	0.0	0.0	0.0	175.0
- 11-	its Market housing			0					^																				0	140
Ur built'				U	U	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	ь	U	U	140
+2	Q Affordable soc rent			0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	28
	Affordable sh oship Aff other 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	7
	Aff other 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
Ur	its Market housing bleted				0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	0	140
+3					0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	28
	Affordable sh oship Aff other 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	7
	Aff other 2				0	0	ő	0	0	0	0	0	0	0	0	ő	0	ő	0	0	0	0	0	0	0	0	0	0	0	0
Ur						0	0	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	140
purc	nased Q Affordable soc rent					0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	28
_	Affordable sh oship					0	0	ó	0	0	ó	ó	0	ó	ó	o	o	ó	ó	0	ó	o	ó	ó	Ó	o	ó	o o	0	7
	Aff other 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
	Aff other 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





SITE 3 CASH FLOW AFFORDABLE

		_																													
		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	Year 6 Q1	Q2	Q3	Q4	Year 7 Q1	Q2	Q3	Q4	TOTALS
		rate	Ψ,	Q2	Q.S	Q4	Q,	Q2	QU	C/4	Q,	Q2	QU	Q.	Ψ,	G/Z	Q.J	Q4	u,	Q2	Q.J	C/4	Ψ,	Q2	QU	Q.	Ψ,	Q2	QU	Q4	TOTALS
INCOME																															
	-																														
Housing sales	Market housing		0	0	0	0	0	0	1,068	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	1,220	26,696
	Affordable soc rent		0	0	0	0	0	0	73	83	83 33	83	83 33	83	83	83 33	83	83 33	83	83	83 33	83 33	83 33	83	83	83 33	83	83 33	83	83	1,826 712
	Affordable sh oship Aff other 1		0	0	0	0	0	0	28	33	0	33	0	33	33	0	33	0	33	33	0	0	33	33	33	0	33	0	33 0	33	0
	Aff other 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
	Sales fees		0	0	0	0	0	0	-38	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-44	-954
Total income		-	0	0	0	0	0	0	1,169	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	1,336	29,234
COSTS	1	-	U	U	U	U	U	U	1,109	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	1,330	29,234
CUSIS																															
Land	Land acquisition		715																												715
	Stamp duty		29																												29
	Purchase fees		20																												20
	Total																														763
Build costs	Market housing Affordable soc rent		0	0	0	0	485 97	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	554 111	0	0	12,126 2,425
	Affordable sh oship		0	0	0	0	24	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	28	0	0	606
	Aff other 1		l ő	ō	ő	ō	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	ő	ō	0
	Aff other 2		0	0	0	0	0	Ó	0	0	0	0	0	0	Ö	0	0	0	0	Ó	0	0	0	0	0	0	Ö	0	0	0	0
	Build contingency	5.0%	0	0	0	0	30	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	35	0	0	758
D	Total																														15,916
Dev costs	Upfront Build related	8.0% 8.0%	318 0	318 0	318 51	318 58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	58	0	0	0	0	1,273 1,273
	Abnormals	2%	123	123	31	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	٥	·		Ü	245
	Total	1 -/-																													2,792
Fees	Fees on build costs	10.0%	0	0	0	0	64	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	0	0	1,592
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PG	Total Planning gain				64	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	73	0		0		1,592 1.600
PG	Total				64	/3	/3 	/3	73	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	/3	U	U	U	U	1,600
Other	Planning	£496	29	29	29																										87
	Survey	£500	88																												88
	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
Sales fees	Total b/forward from above		_	0					20	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	44	174 954
Total costs	D/IOI WAIG ITOITI ADOVE	_	1,321	470	462	450	832	932	970	975	975	975	975	975	975	975	975	975	975	975	975	975	975	975	975	975	844	844	44	44	23,791
			,																												.,
N			1.001	470	400	450	200	200	200	004	004	004	004	004	004	004	004	204	201	004	004	004	004	004	004	004	400	400	1.000	1 000	5.440
Net profit/los	s from quarter		-1,321	-470	-462	-450	-832	-932	200	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	361	492	492	1,293	1,293	5,443
Profit/loss bf f	rom last quarter		0	-1,345	-1,849	-2,355	-2,857	-3,758	-4,777	-4,663	-4,383	-4,097	-3,806	-3,509	-3,207	-2,899	-2,586	-2,266	-1,941	-1,609	-1,271	-927	-577	-220	144	515	892	1,411	1,939	3,293	
																			, ,												
Cumulative pr	ofit/loss		-1,321	-1,815	-2,311	-2,804	-3,688	-4,689	-4,578	-4,302	-4,022	-3,736	-3,445	-3,148	-2,846	-2,538	-2,225	-1,905	-1,580	-1,248	-910	-566	-216	141	505	876	1,385	1,903	3,232	4,585	
	01	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	7.500/	
Interest	Charged at	7.50%	7.50%	7.50% -34	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50%	7.50% -53	7.50% -48	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%	-774
	Total		-25	-34	-43	-53	-69	-88	-86	-81	-75	-70	-65	-59	-03	-48	-42	-36	-30	-23	-17	-11	-4	3	9	16	26	36	61	86	-//4
Cumulative d	leveloper profit		-1,345	-1.849	-2,355	-2,857	-3,758	-4.777	-4.663	-4,383	-4,097	-3.806	-3,509	-3,207	-2,899	-2.586	-2,266	-1,941	-1,609	-1,271	-927	-577	-220	144	515	892	1,411	1.939	3,293	4,671	4,669
carried forwa			.,010	.,010	_,000	_,007	2,700	.,	.,500	.,500	.,007	2,500	2,300	2,201	_,000	_,000	_,200	.,0	.,000	.,							.,,,,,	.,500	2,200	.,	.,500

SITE 4: South Shortbutts Lane Lichfield



nput assumptions	Scenario & option	Affordable 20% = split	80% sc	cial rented 20°	% intermediat	te		
Lichfield site viability stu	ıdy	Dwellings						
Site details					ave floor s	pace	build	sales
Site Lich 04		Dwellings			gross	net	cost	value
_ocation South o	f Shortbutts Lane Lichfield				sq ft	sq ft	per sq ft	per sq ft
Area ha 2.40		Market housing	80.0	80.00%	938	919	83.50	192.00
acres <u>5.93</u>	=						0.0%	
No dwgs 100		Affordable soc rent	16.0	16.00%	938	919	83.50	66.00
Density dw/ha 41.7		[A66 1 1 1 1 1 1 1 1 1				2.12	0.0%	100.00
		Affordable sh oship	4.0	4.00%	938	919	83.50	103.00
		A (())	0.0	0.000/		0.10	0.0%	0.00
		Aff other 1	0.0	0.00%	938	919	83.50	0.00
		Att athan 0	0.0	0.000/		0	0.0%	0.00
	Cle	Aff other 2	0.0	0.00%	0	0	83.50	0.00
Contingency	£k	Total	100.0	100.00%	93,800	91,900	£7,832,300	£15,464,932
allowance 2.50%	196	Total	100.0	100.00%	93,000	91,900	£7,032,300	115,464,932
Development costs standard % build 16.00% plus abnormals 0.6% Total 17%	45	Other costs Planning Survey Marketing		422.5 500 0	£ per dwell £ per dwell £ per dwell	ing		
Design fees on build costs 10.0% on dev costs 0%	803	Interest % per annum		7.50%				
Planning gain	_	Notes						
E per dwg 7,300 E per HOUSE 550 E per MKT HOUSE 600								
Assumed flats % 12%								

SITE 4 LAND COST & PHASING

		La	nd																			
										Ī	terat	e to a	chiev	e 20.	0% pr	ofit						
										_									He	ctare		
											Aff	ordab	le	١	lo affo	ordable	e /	Afford	able	No	afford	able
		lа	nd nu	rchase	nrice					£	81	6,38	1			1,258						
			-		prico					L		7,66				,202	_ ,	£340,	150	20	350,5	24
		ΗV	per a	acre						£	13	7,00	U		344	,202	2	£340,	155	L	550,5	24
		De	v pro	fit						£	2,4	73,38	30		2,948	3,186						
		To	tal co	sts						£	12,9	92,9	77		14,69	8,039)					
		pro	ofit as	s % of	costs					Γ		0.04%			20.0							
			J.11. U.	,,,,,,																		
Programi	ne	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			3.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	0.0	80.0
Started	Affordable soc rent			0.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	16.0
	Affordable sh oship Aff other 1			0.2 0.0	0.3 0.0	0.3	0.3 0.0	0.3 0.0	0.3 0.0	0.3 0.0	0.3	0.3 0.0	0.3 0.0	0.3	0.3 0.0	0.3 0.0	0.0	0.0	0.0 0.0	0.0 0.0	0.0	4.0 0.0
	Aff other 2 TOTAL	0	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	0.0 100.0
Units	Market housing			0	0	3	6	6	6	6	6	6	6	6	6	6	6	6	0	0	0	80
'built'	-																					
+2Q	Affordable soc rent Affordable sh oship			0	0 0	1 0	1 0	1 0	1 0	0	1 0	1 0	1 0	0	1 0	1 0	1 0	1 0	0 0	0 0	0 0	16 4
	Aff other 1 Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	3	6	6	6	6	6	6	6	6	6	6	6	6	0	0	80
complete +3Q	Affordable soc rent				0	0	1	1	1	1	1	1	1	1	1	1	1	1	1	0	0	16
	Affordable sh oship Aff other 1				0	0	0	0	0	0	0	0	0 0	0	0	0 0	0	0	0	0	0	4 0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units purchase	Market housing d					0	0	3	6	6	6	6	6	6	6	6	6	6	6	6	0	80
+4Q	Affordable soc rent					0	0	1	1	1	1	1	1	1	1	1 0	1	1	1	1	0	16
	Affordable sh oship Aff other 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	4 0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0



SITE 4 CASH FLOW AFFORDABLE

			Year 1				Year 2				Year 3				Year 4				Year 5				
		rate	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
INCOME																							
Housing sales	Market housing		0	0	0	0	0	0	565	1,129	1,129	1,129	1,129	1,129	1,129	1,129	1,129	1,129	1,129	1,129	1,129	0	14,116
	Affordable soc rent		Ō	Ō	Ō	Ō	0	Ō	39	78	78	78	78	78	78	78	78	78	78	78	78	Ō	970
	Affordable sh oship		0	0	0	0	0	0	15	30	30	30	30	30	30	30	30	30	30	30	30	0	379
	Aff other 1 Aff other 2		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	-20	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	-40	0	-505
						_																	
Total income			0	0	0	0	0	0	619	1,237	1,237	1,237	1,237	1,237	1,237	1,237	1,237	1,237	1,237	1,237	1,237	0	15,465
COSTS																							
Land	Land acquisition Stamp duty Purchase fees Total		816 33 22																				816 33 22 871
Build costs	Market housing		0	0	0	0	251	501	501	501	501	501	501	501	501	501	501	501	501	0	0	0	6,266
	Affordable soc rent		0	0	0	0	50	100	100	100	100	100	100	100	100	100	100	100	100	0	0	0	1,253
	Affordable sh oship		0	0	0	0	13	25 0	25	25	25	25	25	25	25	25	25	25	25	0	0	0	313
	Aff other 1 Aff other 2		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	8	16	16	16	16	16	16	16	16	16	16	16	16	0	0	0	196
	Total	2.070	Ů	· ·	· ·	ŭ				.0												Ů	8,028
Dev costs	Upfront	8.0%	161	161	161	161																	642
	Build related	8.0%	0	0	26	51	51	51	51	51	51	51	51	51	51	51	51	0	0	0	0	0	642
	Abnormals Total	1%	22	22																			45 1,329
Fees	Fees on build costs	10.0%	0	0	0	0	32	64	64	64	64	64	64	64	64	64	64	64	64	0	0	0	803
	Fees on dev costs	0.0%	ő	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																						803
PG	Planning gain				33	66	66	66	66	66	66	66	66	66	66	66	66	0	0	0	0	0	821
044	Total	0400																					821
Other	Planning Survey	£423 £500	14 50	14	14																		42 50
	Marketing	£0	30		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total					Ť																	92
Sales fees	b/forward from above		0	0	0	0	0	0	20	40	40	40	40	40	40	40	40	40	40	40	40	0	505
Total costs			1,119	197	233	278	470	824	844	864	864	864	864	864	864	864	864	747	747	40	40	0	12,449
Net profit/loss	from quarter		-1,119	-197	-233	-278	-470	-824	-225	373	373	373	373	373	373	373	373	490	490	1,197	1,197	0	3,016
Profit/loss bf fro	om last quarter		0	-1,140	-1,362	-1,625	-1,938	-2,453	-3,338	-3,630	-3,317	-2,999	-2,675	-2,345	-2,008	-1,666	-1,317	-961	-479	11	1,231	2,473	
Cumulative pro	fit/loss		-1,119	-1,337	-1,595	-1,902	-2,408	-3,277	-3,563	-3,257	-2,944	-2,626	-2,302	-1,972	-1,635	-1,292	-943	-470	11	1,208	2,428	2,473	
Interest	Charged at	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%	0.00%	
	Total		-21	-25	-30	-36	-45	-61	-67	-61	-55	-49	-43	-37	-31	-24	-18	-9	0	23	46	0	-544
Cumulative de carried forwar			-1,140	-1,362	-1,625	-1,938	-2,453	-3,338	-3,630	-3,317	-2,999	-2,675	-2,345	-2,008	-1,666	-1,317	-961	-479	11	1,231	2,473	2,473	2,472

SITE 5: Off Park Land Mile Oak





nput assumptions	Scenario & option	Affordable 20% = split	80% social rented 20°	% intermediate		
ichfield site viability stu	dy	Dwellings				
Site details Site Lich 05	Park Lane	Dwellings		ave floor space gross net	build cost	sales value
Location Bone Hill Area ha 1.93 acres 4.77	l Mileoak	Market housing	62.4 80.00%	sq ft sq ft 968 948	per sq ft 83.50 0.0%	per sq ft 192.00
No dwgs 78 Density dw/ha 40.4]	Affordable soc rent	12.5 16.00%	968 948	83.50 0.0%	66.00
Zerisity dw/rid 40.4		Affordable sh oship	3.1 4.00%	968 948	83.50 0.0%	103.00
		Aff other 1	0.0 0.00%	968 948	83.50 0.0%	0.00
	£k	Aff other 2	0.0 0.00%	0 0	83.50	0.00
Contingency allowance 2.50%	158	Total	78.0 100.00%	75,504 73,944	£6,304,584	£12,443,296
Development costs		Floorspace density	= 15,505 ne	et sq ft per acre		
standard % build 15.00%	969	Other costs Planning	373.8	£ per dwelling		
plus abnormals 0.0%	0	Survey	500	£ per dwelling		
Total 15%		Marketing	0	£ per dwelling		
Oesign fees on build costs 10.0%	646	Interest % per annum	7.50%			
on dev costs 0%		Notes				
Planning gain E per dwg 5,100 E per HOUSE 550	3					
E per MKT HOUSE 600 Assumed flats % 12%						

SITE 5 LAND COST & PHASING

Land					
	<u> </u>	terate to achieve	e 20.0% profit		
				He	ctare
		Affordable	No affordable	Affordable	No affordable
Land purchase price	£	909,392	1,916,936		
RV per acre	£	190,687	401,955	£471,188	£993,231
		1 000 705	0.070.000		
Dev profit	£	1,989,785	2,372,663		
Total costs	£_	10,454,711	11,825,785		
profit as % of costs		19.03%	20.06%		

Programi	me	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			4.8	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.4
	Affordable soc rent			1.0	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	12.5
	Affordable sh oship			0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.1
	Aff other 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
	Aff other 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
	TOTAL	0	0	6	8	8	8	8	8	8	8	8	8	0	0	0	0	0	0	0	0	78.0
Units	Market housing			0	0	5	6	6	6	6	6	6	6	6	6	0	0	0	0	0	0	62
'built'																						
+2Q	Affordable soc rent			0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	0	12
	Affordable sh oship			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units complete	Market housing				0	0	5	6	6	6	6	6	6	6	6	6	0	0	0	0	0	62
+3Q	Affordable soc rent				0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	0	12
	Affordable sh oship				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units purchase	Market housing					0	0	5	6	6	6	6	6	6	6	6	6	0	0	0	0	62
+4Q	Affordable soc rent					0	0	1	1	1	1	1	1	1	1	1	1	0	0	0	0	12
,	Affordable sh oship					0	Ó	0	0	0	0	0	0	0	0	0	0	Ö	0	0	0	3
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					Ó	Ó	0	0	0	Ó	Ó	0	0	0	0	0	0	0	0	0	Ó





SITE 5 CASH FLOW AFFORDABLE

							V 0																
		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	Year 5 Q1	Q2	Q3	Q4	TOTALS
		raic	۵,	Q2	QU	47	α,	Q2	QU	Q+	α,	Q2	QU	47	۵,	Q2	QU	Q+	۷,	Q2	QU	47	TOTAL
INCOME																							
	<u>-</u> '																						
Housing sales	Market housing		0	0	0	0	0	0	874	1,165	1,165	1,165	1,165	1,165	1,165	1,165	1,165	1,165	0	0	0	0	11,358
	Affordable soc rent Affordable sh oship		0	0	0	0	0	0	60 23	80 31	80 31	80 31	80 31	80 31	80 31	80 31	80 31	80 31	0	0	0	0	781 305
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		0	0	0	0	0	0	Õ	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sales fees		0	0	0	0	0	0	-31	-42	-42	-42	-42	-42	-42	-42	-42	-42	0	0	0	0	-406
Total income		1	0	0	0	0	0	0	957	1,276	1,276	1,276	1,276	1,276	1,276	1,276	1,276	1,276	0	0	0	0	12,443
COSTS										1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270					12,110
	<u>-</u>																						
Land	Land acquisition		909																				909
	Stamp duty		36																				36
	Purchase fees		25																				25
Build costs	Total Market housing		0	0	0	0	388	517	517	517	517	517	517	517	517	517	0	0	0	0	0	0	971 5,044
Dulla Costs	Affordable soc rent		0	0	0	0	78	103	103	103	103	103	103	103	103	103	0	0	0	0	0	0	1,009
	Affordable sh oship		0	0	0	0	19	26	26	26	26	26	26	26	26	26	0	0	0	0	0	0	252
	Aff other 1		0	Ō	Ō	Ō	0	0	0	0	0	0	0	0	0	0	Ō	Ö	0	Ō	Ō	0	0
	Aff other 2		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	12	16	16	16	16	16	16	16	16	16	0	0	0	0	0	0	158
B	Total																						6,462
Dev costs	Upfront Build related	7.5% 7.5%	121	121 0	121 37	121 50	50	50	50	50	50	50	50	50	0	0	0	0	0	0	0	0	485 485
	Abnormals	0%	0	0	37	50	50	50	50	50	50	50	50	50	U	U	U	U	U	U	U	U	485
	Total	0 78	U	U																			969
Fees	Fees on build costs	10.0%	0	0	0	0	50	66	66	66	66	66	66	66	66	66	0	0	0	0	0	0	646
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																						646
PG	Planning gain				36	48	48	48	48	48	48	48	48	48	0	0	0	0	0	0	0	0	468
Other	Total	0074	10	10	10																		468
Other	Planning Survey	£374 £500	10 39	10	10																		29 39
	Marketing	£0	05		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																•						68
Sales fees	b/forward from above		0	0	0	0	0	0	31	42	42	42	42	42	42	42	42	42	0	0	0	0	406
Total costs			1,141	131	204	219	645	827	858	868	868	868	868	868	771	771	42	42	0	0	0	0	9,991
Net profit/loss	from quarter		-1,141	-131	-204	-219	-645	-827	99	408	408	408	408	408	506	506	1,235	1,235	0	0	0	0	2,452
D																		=					
Profit/loss bf fro	om last quarter		0	-1,162	-1,317	-1,550	-1,802	-2,492	-3,381	-3,343	-2,991	-2,631	-2,265	-1,892	-1,512	-1,025	-529	718	1,990	1,990	1,990	1,990	
Cumulative pro	fit/loss		-1,141	-1,293	-1,521	-1,769	-2,446	-3,319	-3,282	-2,936	-2,583	-2,223	-1,857	-1,484	-1,006	-520	705	1,953	1,990	1,990	1,990	1,990	
			,,,,,	,	,	, , , ,	,	.,,,,,	.,	,	,,,,,,				,,,,,,				,				
Interest	Charged at	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%	0.00%	0.00%	0.00%	0.00%	
	Total		-21	-24	-29	-33	-46	-62	-62	-55	-48	-42	-35	-28	-19	-10	13	37	0	0	0	0	-464
	eveloper profit		-1,162	-1,317	-1,550	-1,802	-2,492	-3,381	-3,343	-2,991	-2,631	-2,265	-1,892	-1,512	-1,025	-529	718	1,990	1,990	1,990	1,990	1,990	1,989
carried forwar	rd to RV calc																						

SITE 6: Lynn Lane Shenstone





nput assumptions	Scenario & option	Affordable 20% = split	80% social rented 20°	% intermediate		
ichfield site viability stu	udy	Dwellings				
Site details Site Lich 06 Location Lynn La	ane Shenstone	Dwellings		ave floor space gross net	build cost	sales value
Area ha 1.07	arie Sheristorie	Market housing	43.2 80.00%	sq ft sq ft 775 759	per sq ft 83.50 0.0%	per sq ft 212.00
acres 2.64 No dwgs 54 Density dw/ha 50.5		Affordable soc rent	8.6 16.00%	775 759	83.50 0.0%	66.00
refisity dw/fia 50.5		Affordable sh oship	2.2 4.00%	775 759	83.50 0.0%	103.00
		Aff other 1	0.0 0.00%	775 759	83.50 0.0%	0.00
	£k	Aff other 2	0.0 0.00%	0 0	83.50	0.00
Contingency allowance 5.00%		Total	54.0 100.00%	41,850 40,986	£3,494,475	£7,552,900
allowance 5.00%	5 1/5	Floorspace density	= 15,502 ne	et sq ft per acre		
Development costs standard % build 13.50%	6 495					
Standard 78 build 10.007	400	Other costs Planning	275.6	£ per dwelling		
		Survey	500	£ per dwelling		
plus abnormals 3.3%	120	, , , , , , , , , , , , , , , , , , ,		a per amening		
		Marketing	0	£ per dwelling		
Total 17%		-				
Design fees on build costs 10.0%	367	Interest				
		% per annum	7.50%			
on dev costs 0%		Notes				
Planning gain	_					
2 per dwg 5,100 2 per HOUSE 550						
Assumed flats % 600						

SITE 6 LAND COST & PHASING

		Land																
									Iterate	e to ach	ieve 2	20.0% ı	orofit					
								'	110101	- 10 001		-0.0 /0				Hec	tare	
									Affo	ordable		No at	fordab	le	Affordal	ole	No affo	ordable
		Land p	urchase	price				£	71	2,529		1,37	77,471					
		RV per		·				£	26	9,492		52	0,986		£665,9	14	£1,28	7,356
		Dev pro	ofit					£	1.2	08,114		1.4	53,138	}				
		Total co						£		45,836		-	36,944					
				aaata						0.04%	7		.08%					
_		profit a	15 % OI	cosis		<u> </u>			18			20	.00%					1
Programi	me	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			4.0	5.6	5.6	5.6	5.6	5.6	5.6	5.6	0.0	0.0	0.0	0.0	0.0	0.0	43.2
Starteu	Affordable soc rent			8.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0	0.0	0.0	0.0	0.0	0.0	8.6
	Affordable sh oship			0.2	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	2.2 0.0
	Aff other 1 Aff other 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	5	7	7	7	7	7	7	7	0	0	0	0	0	0	54.0
Units	Market housing			0	0	4	6	6	6	6	6	6	6	0	0	0	0	43
'built'	Warkernousing			U	U	7	Ü	O	U		U	U	O	O	0	Ü	U	40
+2Q	Affordable soc rent			0	0	1	1	1	1	1	1	1	1	0	0	0	0	9
	Affordable sh oship			0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Aff other 1 Aff other 2			0	0 0	0	0	0 0	0	0	0	0	0	0	0	0	0 0	0
Units	Market housing				0	0	4	6	6	6	6	6	6	6	0	0	0	43
complete					_								,		_	_	_	
+3Q	Affordable soc rent Affordable sh oship				0	0	1 0	1 0	1 0	0	1 0	1 0	1 0	1 0	0	0	0 0	9 2
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	Ö	0	0
Units purchase	Market housing					0	0	4	6	6	6	6	6	6	6	0	0	43
+4Q	Affordable soc rent					0	0	1	1	1	1	1	1	1	1	0	0	9
	Affordable sh oship Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	2
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0
	AII OUIGI Z						U	U	U	U	U	U	U	U	U	U	0	U





SITE 6 CASH FLOW AFFORDABLE

		l	Year 1	00	-00	0.4	Year 2	00	00	0.4	Year 3	00	00	0.4	Year 4	-00	00	0.4	TOTALO
		rate	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
INCOME																			
IIIOOIIIE	_																		
Housing sales	Market housing		0	0	0	0	0	0	644	901	901	901	901	901	901	901	0	0	6,951
ŭ	Affordable soc rent		0	0	0	0	0	0	40	56	56	56	56	56	56	56	0	0	433
	Affordable sh oship		0	0	0	0	0	0	16	22	22	22	22	22	22	22	0	0	169
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	-23	-32	-32	-32	-32	-32	-32	-32	0	0	-248
Total income			0	0	0	0	0	0	699	979	979	979	979	979	979	979	0	0	7,553
COSTS			_				Ť				0.0	0.0			0.0				7,000
000.0	_																		
Land	Land acquisition		713																713
	Stamp duty		29																29
	Purchase fees		20																20
	Total																		761
Build costs	Market housing		0	0	0	0	259	362	362	362	362	362	362	362	0	0	0	0	2,796
	Affordable soc rent		0	0	0	0	52	72	72	72	72	72	72	72	0	0	0	0	559
	Affordable sh oship		0	0	0	0	13	18	18	18	18	18	18	18	0	0	0	0	140
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	16	23	23	23	23	23	23	23	0	0	0	0	175
	Total																		3,669
Dev costs	Upfront	6.8%	62	62	62	62	00	00	00	00	00	00	0	0	0	0	0	0	248
	Build related	6.8%	0	0	23	32	32	32	32	32	32	32	0	0	0	0	0	0	248
	Abnormals Total	3%	60	60															120 615
Fees	Fees on build costs	10.0%	0	0	0	0	34	48	48	48	48	48	48	48	0	0	0	0	367
1665	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	0.078	U	U	U	U	0	U	O	U	U	U	U	U	U	U	U	U	367
PG	Planning gain				30	42	42	42	42	42	42	42	0	0	0	0	0	0	324
	Total						1	· -				·-	_						324
Other	Planning	£276	5	5	5														15
	Survey	£500	27																27
	Marketing	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		42
Sales fees	b/forward from above		0	0	0	0	0	0	23	32	32	32	32	32	32	32	0	0	248
Total costs			914	127	120	136	448	597	620	629	629	629	555	555	32	32	0	0	6,026
Net profit/los	s from quarter		-914	-127	-120	-136	-448	-597	79	350	350	350	424	424	947	947	0	0	1,527
Profit/loss bf fr	rom last quarter		0	-931	-1,078	-1,220	-1,381	-1,864	-2,507	-2,473	-2,164	-1,848	-1,526	-1,123	-713	239	1,208	1,208	
Cumulative pro	ofit/loss		-914	-1,058	-1,198	-1,356	-1,829	-2,461	-2,428	-2,124	-1,814	-1,498	-1,103	-699	234	1,186	1,208	1,208	
Camalative pro	U		314	1,000	1,100	1,000	1,023	2,701	2,720	L, 124	1,01-	1,400	1,100	- 000	204	1,100	1,200	1,200	
Interest	Charged at	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%	
	Total		-17	-20	-22	-25	-34	-46	-46	-40	-34	-28	-21	-13	4	22	0	0	-320
Cumulative d	leveloper profit		-931	-1,078	-1,220	-1,381	-1,864	-2,507	-2,473	-2,164	-1,848	-1,526	-1,123	-713	239	1,208	1,208	1,208	1,207
carried forwa				.,	.,•	.,	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	_,	,•	,	.,	.,•	.,•			.,,	.,,	.,,	
carried forwa																			

SITE 7: Abattoir Chase Terrace



Input assumptions	Scenario & option	Affordable 20% = split 80% social rented 20% Share Ownership
Lichfield site viability stud	dy	Dwellings
Site details Site Lich 07 Location Eastgate Area ha 0.57 acres 1.41 No dwgs 49 Density dw/ha 86.0	St. Chase Terrace	Dwellings ave floor space gross net sq ft build cost value per sq ft sales value per sq ft Market housing 39.2 80.00% 683 635 89.50 164.00 Affordable soc rent 7.8 16.00% 683 635 89.50 67.00
		Affordable sh oship 2.0 4.00% 683 635 89.50 105.00 Aff other 1 0.0 0.00% 683 635 89.50 0.00 Aff other 2 0.0 0.00% 0 0 89.50 0.00
Contingency allowance 5.00%	£k 150	Total 49.0 100.00% 33,467 31,115 £2,995,297 £4,546,524 Floorspace density = 22,091 net sq ft per acre
Development costs standard % build 11.50%	362	Other costs Planning 515.0 £ per dwelling
plus abnormals 3.8% Total 15%	120	Survey £ per dwelling Marketing 0 £ per dwelling
Design fees on build costs 10.0% on dev costs 0%	315	Interest % per annum 7.50%
Planning gain € per dwg 5,100 € per HOUSE 600 € per MKT HOUSE 0 Assumed flats % 43%		Notes

SITE 7 LAND COST & PHASING

Land					
	[terate to achie	eve 20.0% profit		
				Hed	ctare
		Affordable	No affordable	Affordable	No affordable
Land purchase price	£	-605,223	-276,942		
RV per acre	£	-429,703	-196,626	-£1,061,795	-£485,862
Dev profit	£	725,959	851,730		
Total costs	£_	3,821,690	4,252,255		
profit as % of costs		19.00%	20.03%		

Programi	me	Year 1				Year 2				Year 3				Year 4				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units	Market housing			0.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	0.0	0.0	0.0	0.0	0.0	39.2
started																		
	Affordable soc rent			0.2	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0	7.8
	Affordable sh oship			0.0	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	2.0
	Aff other 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
	Aff other 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
	TOTAL	0	0	1	6	6	6	6	6	6	6	6	0	0	0	0	0	49.0
Units	Market housing			0	0	1	5	5	5	5	5	5	5	5	0	0	0	39
'built'																		
+2Q	Affordable soc rent			0	0	0	1	1	1	1	1	1	1	1	0	0	0	8
	Affordable sh oship			0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	1	5	5	5	5	5	5	5	5	0	0	39
complete	ed																	
+3Q	Affordable soc rent				0	0	0	1	1	1	1	1	1	1	1	0	0	8
	Affordable sh oship				0	0	0	0	0	0	0	0	0	0	0	0	0	2
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	1	5	5	5	5	5	5	5	5	0	39
purchase	ed																	
+4Q	Affordable soc rent					0	0	0	1	1	1	1	1	1	1	1	0	8
	Affordable sh oship					0	0	0	0	0	0	0	0	0	0	0	0	2
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0





SITE 7 CASH FLOW AFFORDABLE

											1/ 0								1
		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
										~ .	~.								
INCOME																			
			•		•	•		•	00	500	500	500	F00	F00	500	F00	500	_	4.000
Housing sales	Market housing Affordable soc rent		0	0	0	0	0	0	83 7	500 41	500 41	500 41	500 41	500 41	500 41	500 41	500 41	0	4,082 334
	Affordable sh oship		0	0	0	0	0	0	3	16	16	16	16	16	16	16	16	0	131
	Aff other 1		Ö	0	0	Ō	l ő	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		0	Ō	0	0	0	Ō	0	0	0	0	0	0	0	0	0	0	0
	Sales fees		0	0	0	0	0	0	-3	-18	-18	-18	-18	-18	-18	-18	-18	0	-147
Total income			0	0	0	0	0	0	93	557	557	557	557	557	557	557	557	0	4,547
COSTS																			1,011
	-																		
Land	Land acquisition		-605																-605
	Stamp duty		0																0
	Purchase fees		-17																-17
Build costs	Total Market housing		0	0	0	0	49	293	293	293	293	293	293	293	293	0	0	0	-622 2,396
Build Costs	Affordable soc rent		0	0	0	0	10	293 59	293 59	293 59	59 59	293 59	293 59	293 59	59 59	0	0	0	479
	Affordable sh oship		0	0	0	0	2	15	15	15	15	15	15	15	15	0	0	0	120
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	18	18	18	18	18	18	18	18	0	0	0	150
	Total																		3,145
Dev costs	Upfront	5.8%	45	45	45	45													181
	Build related	5.8%	0	0	4	22	22	22	22	22	22	22	22	0	0	0	0	0	181
	Abnormals Total	4%	60	60															120 481
Fees	Fees on build costs	10.0%	0	0	0	0	6	39	39	39	39	39	39	39	39	0	0	0	315
. 000	Fees on dev costs	0.0%	Ö	0	0	Ō	o o	0	0	0	0	0	0	0	0	0	0	0	0
	Total										-								315
PG	Planning gain				5	33	33	33	33	33	33	33	33	0	0	0	0	0	267
	Total																		267
Other	Planning	£515	8	8	8														25
	Survey	£500 £0	25		0	0	0	0	0	0	0	0	0	0	0	0	0	0	25 0
	Marketing Total	£U			U	U	0	U	U	U	U	U	U	U	0	U	U	U	50
Sales fees	b/forward from above		0	0	0	0	0	0	3	18	18	18	18	18	18	18	18	0	147
Total costs			-484	113	63	100	125	478	481	496	496	496	496	442	442	18	18	0	3,782
Net profit/loss	s from quarter		484	-113	-63	-100	-125	-478	-389	60	60	60	60	115	115	539	539	0	765
	•																		
Profit/loss bf fr	om last quarter		0	493	387	330	235	111	-374	-777	-730	-682	-633	-583	-477	-368	174	726	
Cumulative pro	ofit/loss		484	380	324	230	109	-367	-762	-716	-669	-621	-573	-468	-362	170	713	726	
Interest	Charged at	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%	
intorest	Total	7.50%	9	7.30 %	6	4	2	-7	-14	-13	-13	-12	-11	-9	-7	3	13	0.00 %	-40
	rotar		3	'	U				-1-	-10	-10	-12		-3		3	10		43
Cumulative de	eveloper profit		493	387	330	235	111	-374	-777	-730	-682	-633	-583	-477	-368	174	726	726	725
carried forwar																			

SITE 8: Fazeley Saw Mill



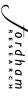
Input assumptions	Scenario & option	Affordable 20% = split 80% social rented 20	0% Share Ownership	
Lichfield site viability stu	ıdy	Dwellings		
Site details Site Lich 08		Dwellings	ave floor space build sal gross net cost val	ue
Location Fazeley Area ha 0.62		Market housing 20.0 80.00%	sq ft sq ft per sq ft per sq 967 950 83.00 182	
Area ha 0.62 acres 1.53		0.0	967 950 83.00 182	.00
No dwgs 25		Affordable soc rent 4.0 16.00%	967 950 83.00 66.	00
Density dw/ha 40.3		Affordable sh oship 1.0 4.00%	967 950 83.00 103	00
		Allordable SIT OSTIP 1.0 4.00 /8	0.0%	.00
		Aff other 1 0.0 0.00%	967 950 83.00 0.0	00
		Aff other 2 0.0 0.00%	0.0%	00
	£k			
Contingency allowance 5.00%	100	Total 25.0 100.00%	24,175 23,750 £2,006,525 £3,80	6,650
allowarice 5.00%	100	Floorspace density = 15,502 n	net sq ft per acre	
Development costs				
standard % build 11.50%	242			
		Other costs	O many describing	
		Planning 515.0	£ per dwelling	
	_	Survey 500	£ per dwelling	
plus abnormals 7.1%	150			
Tatal		Marketing 0	£ per dwelling	
Total 19%				
Design fees	-			
on build costs 10.0%	211	Interest % per annum 7.50%		
		7.50 %		
on dev costs 0%		Notes		
		Notes		
Planning gain	_			
£ per dwg 5,100				
£ per HOUSE 550 £ per MKT HOUSE 600				
Assumed flats % 10%				

SITE 8 LAND COST & PHASING

Land	
	Iterate to achieve 20.0% profit
	Hectare Hectare
	AffordableNo affordable Affordable No affordable
Land purchase price	£ 60,186 375,263
RV per acre	£ 39,286 244,947 £97,075 £605,264
	200750 704454
Dev profit	£ 608,756 721,154
Total costs	£3,198,7193,602,171
profit as % of costs	19.03% 20.02%

Programn	ne	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			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	20.0
	Affordable soc rent			0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.0
	Affordable sh oship			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	1.0
	Aff other 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
	Aff other 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
	TOTAL	0	0	5	5	5	5	5	0	0	0	0	0	0	0	0	0	25.0
Units 'built'	Market housing			0	0	4	4	4	4	4	0	0	0	0	0	0	0	20
+2Q	Affordable soc rent			0	0	1	1	1	1	1	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	1
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	4	4	4	4	4	0	0	0	0	0	0	20
completed	d																	
+3Q	Affordable soc rent				0	0	1	1	1	1	1	0	0	0	0	0	0	4
	Affordable sh oship				0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	4	4	4	4	4	0	0	0	0	0	20
purchase																		
+4Q	Affordable soc rent					0	0	1	1	1	1	1	0	0	0	0	0	4
	Affordable sh oship					0	0	0	0	0	0	0	0	0	0	0	0	1
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0





SITE 8 CASH FLOW AFFORDABLE

		1					14												1
		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
INCOME																			
	Madret haveles		0	0	0	0	0	0	692	000	000	692	000	0		0	0	0	0.450
nousing sales	Market housing Affordable soc rent		0	0	0	0	0	0	50	692 50	692 50	50	692 50	0	0	0	0	0	3,458 251
	Affordable sh oship		0	0	0	0	0	0	20	20	20	20	20	0	0	0	0	0	98
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		0	o o	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Sales fees		0	0	0	0	0	0	-25	-25	-25	-25	-25	0	0	0	0	0	-124
Total income			0	0	0	0	0	0	761	761	761	761	761	0	0	0	0	0	3,807
COSTS																			
Land	Land acquisition		60																60
	Stamp duty		1																1
	Purchase fees		2																2
	Total																		62
Build costs	Market housing		0	0	0	0	321	321	321	321	321	0	0	0	0	0	0	0	1,605
	Affordable soc rent		0	0	0	0	64	64	64	64	64	0	0	0	0	0	0	0	321
	Affordable sh oship		0	0	0	0	16	16	16	16	16	0	0	0	0	0	0	0	80
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	20	20	20	20	20	0	0	0	0	0	0	0	100
	Total																		2,107
Dev costs	Upfront	5.8%	30	30	30	30													121
	Build related	5.8%	0	0	24	24	24	24	24	0	0	0	0	0	0	0	0	0	121
	Abnormals	7%	75	75															150
	Total																		392
Fees	Fees on build costs	10.0%	0	0	0	0	42	42	42	42	42	0	0	0	0	0	0	0	211
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		211
PG	Planning gain				30	30	30	30	30	0	0	0	0	0	0	0	0	0	151
	Total																		151
Other	Planning	£515	4	4	4														13
	Survey	£500	13																13
	Marketing	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		25
Sales fees	b/forward from above		0 184	0	0 89	0 85	0	0	25 543	25 488	25 488	25 25	25 25	0 0	0 0	0 0	0 0	0 0	124 3,072
Total costs			104	109	09	65	518	518	343	400	400	23	25	U	0	U	U	0	3,072
Not profit/loos	s from quarter		-184	-109	-89	-85	-518	-518	219	273	273	737	737	0	0	0	0	0	735
Net prom/ioss	s irom quarter		-104	-109	-09	-00	-316	-310	219	2/3	213	131	131	- 0	<u> </u>	<u> </u>	<u> </u>	<u> </u>	735
Profit/loss bf fr	om last quarter		0	-188	-303	-399	-492	-1,029	-1,576	-1,383	-1,130	-873	-139	609	609	609	609	609	
Cumulative pro	ofit/loss		-184	-297	-392	-483	-1,010	-1,547	-1,357	-1,110	-857	-137	597	609	609	609	609	609	
Interest	Charged at	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%	0.00%	0.00%	0.00%	
	Total	7.0078	-3	-6	-7	-9	-19	-29	-25	-21	-16	-3	11	0.0078	0.0078	0.0078	0.0078	0.0078	-127
	rotar		-5	-0		-3	-10	-20	-23	-21	-10	-5	- ''	0		- 0		0	-127
Cumulativa de	eveloper profit		-188	-303	-399	-492	-1,029	-1,576	-1,383	-1,130	-873	-139	609	609	609	609	609	609	608
	•		-100	-303	-333	-432	-1,029	-1,576	-1,303	-1,130	-0/3	-139	009	009	009	009	009	009	008
carried forwar	ra to HV calc																		

SITE 9: Handsacre Service Station



Input assumptions	Scenario & option	Affordable 20% = split 80% social rented 20% Share Ownership	
Lichfield site viability stud	ly	Dwellings	
Site details Site Lich 09 S Location Handsacı Area ha 0.18	ervice Station re	Dwellings gross net cost sq ft sq ft per sq ft per sq ft	sales value er sq ft 78.00
acres 0.44]	0.0%	68.00
·		0.0%	05.00
	£k	0.0%	0.00
Contingency allowance 5.00%	56	Total 14.0 100.00% 12,992 11,802 £1,123,808 £1, Floorspace density = 26,534 net sq ft per acre	858,579
		1 tourspace density = 20,004 tours and tours	
Development costs standard % build 10.00%] 118	Other costs Planning 515.0 £ per dwelling	
plus abnormals 5.1%	60	Survey 500 £ per dwelling	
Total 15%		Marketing 0 £ per dwelling	
Design fees on build costs 10.0%] 118	Interest % per annum 7.50%	
on dev costs 0%		Notes	
Planning gain £ per dwg 5,100 £ per HOUSE 0 £ per MKT HOUSE 0 Assumed flats % 57%			

SITE 9 LAND COST & PHASING

Land					
	It	erate to achiev	e 20.0% profit		
				He	ctare
		Affordable	No affordable	Affordable	No affordable
Land purchase price	£	-102,322	46,851		
RV per acre	£	-230,050	105,334	-£568,455	£260,281
		000 004	050.075		
Dev profit	£	296,891	350,275		
Total costs	£_	1,562,513	1,751,306		
profit as % of costs		19.00%	20.00%		

Programi	ne	Year 1				Year 2				Year 3				Year 4				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units	Market housing			1.6	2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	11.2
started																		
	Affordable soc rent			0.3	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.2
	Affordable sh oship			0.1	0.1	0.1	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6
	Aff other 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
	Aff other 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
	TOTAL	0	0	2	3	3	3	3	0	0	0	0	0	0	0	0	0	14.0
Units	Market housing			0	0	2	2	2	2	2	0	0	0	0	0	0	0	11
'built'																		
+2Q	Affordable soc rent			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	1
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	2	2	2	2	2	0	0	0	0	0	0	11
complete	d																	
+3Q	Affordable soc rent				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	1
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	2	2	2	2	2	0	0	0	0	0	11
purchase	ed																	
+4Q	Affordable soc rent					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	1
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0



SITE 9 CASH FLOW AFFORDABLE

		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
		rate	Q1	Q2	Q3	Q4	Q1	Q2	QЗ	Q4	Q1	Q2	QS	Q4	Q1	Q2	Q3	Q4	TOTALS
INCOME																			
	-																		
Housing sales	Market housing		0	0	0	0	0	0	240	360	360	360	360	0	0	0	0	0	1,681
	Affordable soc rent		0	0	0	0	0	0	18	28	28	28	28	0	0	0	0	0	128
	Affordable sh oship		0	0	0	0	0	0	7	11	11	11	11	0	0	0	0	0	50
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2 Sales fees		0	0	0	0	0	0	<u>-9</u>	-13	-13	-13	-13	0	0	0	0	0	-60
	Sales lees		0	0			- 0		-9	-13	-13	-13	-13		0				-00
Total income	1		0	0	0	0	0	0	266	398	398	398	398	0	0	0	0	0	1,859
COSTS																			
Land	Land acquisition		-102																-102
	Stamp duty Purchase fees		0 -3																0 -3
	Total		-3																-3 -105
Build costs	Market housing		0	0	0	0	128	193	193	193	193	0	0	0	0	0	0	0	899
Dana costs	Affordable soc rent		0	0	0	0	26	39	39	39	39	0	0	0	0	0	0	0	180
	Affordable sh oship		0	0	0	0	6	10	10	10	10	0	Ö	Ö	0	0	0	0	45
	Aff other 1		0	0	0	0	0	0	0	0	0	0	Ö	0	Ö	0	Ö	0	0
	Aff other 2		Ō	0	0	0	o	0	0	0	0	0	0	Ō	0	0	Ō	0	0
	Build contingency	5.0%	0	Ō	0	0	8	12	12	12	12	0	0	0	0	0	Ō	0	56
	Total																		1,180
Dev costs	Upfront	5.0%	15	15	15	15													59
	Build related	5.0%	0	0	8	13	13	13	13	0	0	0	0	0	0	0	0	0	59
	Abnormals	5%	30	30															60
	Total																		178
Fees	Fees on build costs	10.0%	0	0	0	0	17	25	25	25	25	0	0	0	0	0	0	0	118
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		118
PG	Planning gain				10	15	15	15	15	0	0	0	0	0	0	0	0	0	71
	Total																		71
Other	Planning	£515	2	2	2														7
	Survey	£500	7		0	0		0	0	0	0	0	0	0	0	0	0	0	7
	Marketing Total	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 14
Sales fees	b/forward from above		0	0	0	0	0	0	9	13	13	13	13	0	0	0	0	0	60
Total costs	b) lorward from above		-51	47	36	43	213	306	315	291	291	13	13	0	Ů 0	0	0	0	1,517
																			,-
Net profit/los	s from quarter		51	-47	-36	-43	-213	-306	-49	107	107	385	385	0	0	0	0	0	342
Net pront/10s	is iroiii quartei		31	-41	-30	-43	-213	-300	-43	107	107	303	303		-				342
Profit/loss bf f	rom last quarter		0	52	5	-31	-75	-294	-611	-673	-576	-478	-94	297	297	297	297	297	
Cumulative pro	ofit/loss		51	5	-31	-74	-289	-600	-661	-566	-469	-92	291	297	297	297	297	297	
Interest	Charged at	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%	0.00%	0.00%	0.00%	
interest	Total	7.50%	1	7.50%	-1	-1	-5	-11	-12	-11	-9	7.50% -2	7.50%	0.00%	0.00%	0.00%	0.00%	0.00%	-46
	Iolai		'	0			-5	-11	-12	-11	-9		3	U	U	U	U	U	-40
Cumulative d	leveloper profit		52	5	-31	-75	-294	-611	-673	-576	-478	-94	297	297	297	297	297	297	296
carried forwa	The state of the s		, v.	•	٠.			٠	0.0	0.0	1,0	٠,							
Carried for wa	ii d to n v calc																		

SITE 10: Whittington Grange School



put assumptions	Scenario & option	Affordable 20% = split	80% social rented 20°	% Share Ownership		
chfield site viability stud	ly	Dwellings				
e details				ave floor space	build	sales
e Lich 10		Dwellings		gross net	cost	value
	on Grange Sch.			sq ft sq ft	per sq ft	per sq ft
ea ha 0.32		Market housing	9.6 80.00%	1,230 1,230	86.00	195.00
acres 0.79	7				0.0%	
dwgs 12		Affordable soc rent	1.9 16.00%	1,230 1,230	86.00	65.00
ensity dw/ha 37.5				F	0.0%	
		Affordable sh oship	0.5 4.00%	1,230 1,230	86.00	102.00
		Aff adhand	0.0	1 000 1 000	0.0%	0.00
		Aff other 1	0.0 0.00%	1,230 1,230	86.00	0.00
		Aff other 2	0.0 0.00%	0 0	0.0% 86.00	0.00
	£k	All Other 2	0.00%	0 0	80.00	0.00
entingency	LIV.	Total	12.0 100.00%	14,760 14,760	£1,269,360	£2,516,285
allowance 5.00%	63	Lotai	12.0 100.0070	11,700 11,700	21,200,000	22,010,200
		Floorspace density	= 18,667 ne	et sq ft per acre		
				' '		
velopment costs	7					
standard % build 11.00%	147					
		Other costs		0 1 11		
		Planning	515.0	£ per dwelling		
		Survey	500	£ per dwelling		
plus abnormals 3.8%	50	Survey	300	£ per awening		
plus abrioritiais 5.078] 30					
		Marketing	0	£ per dwelling		
tal 15%		· ·				
sign fees	7					
on build costs 10.0%	133	Interest				
		% per annum	7.50%			
dev costs 0%						
UEV CUSIS U%		Notes				1
		Notes				
anning gain						
per dwg 5,100						
per HOUSE 0						
per MKT HOUSE 0		•				

SITE 10 LAND COST & PHASING

	Land																
							0	terate	to achi	eve 2	20.0% p	rofit					
															Hec	tare	
							_	Affo	rdable	_	No aff	fordable	e_ <i>A</i>	Affordable	е	No affo	rdable
	Land pu	rchase	price				£	194	1,433		419	9,746					
	RV per a	acre					£	245	5,894		530	0,840	<u> </u>	607,604	4	£1,311	1,705
	Dev prof	fit					£	402	2,087		480	0,448					
	Total cos	sts					£	2,11	4,948		2,39	8,502					
	profit as	s % of	costs					19.	01%		20.	.03%					
Programme	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS

Programm	ille	rear r				rear 2				rear 3				rear 4				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			2.4	2.4	2.4	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	9.6
	Affordable soc rent			0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.9
	Affordable sh oship			0.1	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	0.5
	Aff other 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
	Aff other 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
	TOTAL	0	0	3	3	3	3	0	0	0	0	0	0	0	0	0	0	12.0
Units 'built'	Market housing			0	0	2	2	2	2	0	0	0	0	0	0	0	0	10
+2Q	Affordable soc rent			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
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	2	2	2	2	0	0	0	0	0	0	0	10
complete																		
+3Q	Affordable soc rent				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
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	2	2	2	2	0	0	0	0	0	0	10
purchase						•	•	•			•	•	•		•		•	
+4Q	Affordable soc rent					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
	Aff other 1					0	0	0	0	0	U	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0



SITE 10 CASH FLOW AFFORDABLE

		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
INCOME																			
Housing sales	Market housing Affordable soc rent		0	0	0	0	0	0	576 38	576 38	576 38	576 38	0 0	0	0	0	0	0	2,303 154
	Affordable sh oship		0	0	0	0	0	0	38 15	38 15	15	38 15	0	0	0	0	0	0	60
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		0	0	0	0	1 0	0	0	0	0	0	0	0	0	0	0	0	0
	Sales fees		0	0	0	0	0	0	-21	-21	-21	-21	0	0	0	0	0	0	-82
Total income			0	0	0	0	0	0	629	629	629	629	0	0	0	0	0	0	2,516
COSTS																			
Land	Land acquisition		194																194
	Stamp duty		2																2
	Purchase fees		5																5
	Total																		202
Build costs	Market housing		0	0	0	0	254	254	254	254	0	0	0	0	0	0	0	0	1,015
	Affordable soc rent		0	0	0	0	51	51	51	51	0	0	0	0	0	0	0	0	203
	Affordable sh oship		0	0	0	0	13	13	13	13	0	0	0	0	0	0	0	0	51
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	16	16	16	16	0	0	0	0	0	0	0	0	63
	Total																		1,333
Dev costs	Upfront	5.5%	18	18	18	18													73
	Build related	5.5%	0	0	18	18	18	18	0	0	0	0	0	0	0	0	0	0	73
	Abnormals	4%	25	25															50
_	Total														_				197
Fees	Fees on build costs	10.0%	0	0	0	0	33	33	33	33	0	0	0	0	0	0	0	0	133
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DO.	Total				45	45	۱ ,,	45	_			_				•		•	133
PG	Planning gain				15	15	15 I	15	0	0	0	0	0	0	0	0	0	0	61 61
Other	Total	£515	0	2	2														6
Other	Planning	£515	2 6	2	2														6
	Survey Marketing	£00	0		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	£U			U	U	0	U	U	U	U	U	U	U	U	U	U	U	12
Sales fees	b/forward from above		0	0	0	0	0	0	21	21	21	21	0	0	0	0	0	0	82
Total costs	bitornara nom abovo		253	45	54	52	400	400	387	387	21	21	ő	ő	Ö	Ö	ő	ő	2,020
Net profit/loss	s from quarter		-253	-45	-54	-52	-400	-400	242	242	609	609	0	0	0	0	0	0	496
Profit/loss bf fr	om last quarter		0	-258	-309	-369	-429	-845	-1,268	-1,046	-819	-214	402	402	402	402	402	402	
Cumulative pro	ofit/loss		-253	-303	-363	-421	-829	-1,245	-1,026	-804	-210	395	402	402	402	402	402	402	
Interest	Charged at	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%	0.00%	0.00%	0.00%	0.00%	
	Total		-5	-6	-7	-8	-16	-23	-19	-15	-4	7	0	0	0	0	0	0	-95
Cumulative de	eveloper profit		-258	-309	-369	-429	-845	-1,268	-1,046	-819	-214	402	402	402	402	402	402	402	401
carried forwa																			
ou. Hou for war																			

SITE 11: Orchard Farm Hill Ridware



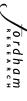
Input assumptions	Scenario & option	Affordable 20% = split	80% social rented 20	% Share Ownership		
Lichfield site viability s	tudy	Dwellings				
Site details				ave floor space	build	sales
	1 Orchard Farm	Dwellings		gross net	cost	value
Location Hill Ri	dware			sq ft sq ft	per sq ft	per sq ft
Area ha 0.3	1	Market housing	7.2 80.00%	1,323 1,300	86.00	212.00
acres 0.7	7				0.0%	
No dwgs 9		Affordable soc rent	1.4 16.00%	1,323 1,300	86.00	66.00
Density dw/ha 29.0	0				0.0%	
		Affordable sh oship	0.4 4.00%	1,323 1,300	86.00	103.00
					0.0%	
		Aff other 1	0.0 0.00%	1,323 1,300	86.00	0.00
					0.0%	
	<u>.</u> .	Aff other 2	0.0 0.00%	0 0	86.00	0.00
	£k	- · · ·	0.0 [100.000/]	14.007 44.700	1 04 004 000	00 450 070
Contingency	54	Total	9.0 100.00%	11,907 11,700	£1,024,002	£2,156,076
allowance 5.00	% 51	Electronica density	15 274 pc	at ag ft par gara		
		Floorspace density	= 15,274 116	et sq ft per acre		
Development costs						
standard % build 11.00	118	0.00				
		Other costs	545.0	0		
		Planning	515.0	£ per dwelling		
		Survey	500	£ per dwelling		
plus abnormals 2.8%	/ 6 30	Survey	300	L per awening		
pius abriorinais 2.07	50					
		Marketing	0	£ per dwelling		
Total 14%	6	3				
Design fees	<u></u>					
on build costs 10.0	% 108	Interest				
		% per annum	7.50%			
on dev costs 0%						
		Notes				
Dii						
Planning gain						
£ per dwg 5,10	0					
£ per HOUSE 0						
£ per MKT HOUSE 0	,					
Assumed flats % 10%	o					

SITE 11 LAND COST & PHASING

Land					
	It	erate to achiev	ve 20.0% profit		
				Hed	ctare
		Affordable	No affordable	Affordable	No affordable
Land purchase price	£	375,934	584,679		
RV per acre	£	894,932	1,391,861	£2,211,376	£3,439,287
Dev profit	£	307,598	376,460		
Total costs	£	1,617,689	1,881,415		
profit as % of costs		19.01%	20.01%		

Programi	ne	Year 1				Year 2				Year 3				Year 4				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			0.8	2.4	2.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.2
otal to a	Affordable soc rent			0.2	0.5	0.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4
	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	0.4
	Aff other 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
	Aff other 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
	TOTAL	0	0	1	3	3	2	0	0	0	0	0	0	0	0	0	0	9.0
Units	Market housing			0	0	1	2	2	2	0	0	0	0	0	0	0	0	7
'built'					_	_				_				_				
+2Q	Affordable soc rent			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
	Aff other 1 Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing			U	0	0	1	2	2	2	0	0	0	0	0	0	0	7
complete					U	U	'	2	2		U	U	U	U	U	U	U	′
+3Q	Affordable soc rent				0	0	0	0	0	0	0	0	0	0	0	0	0	1
100	Affordable sh oship				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	Ō	0	0	0	0	0	0	0
Units	Market housing					0	0	1	2	2	2	0	0	0	0	0	0	7
purchase	d																	
+4Q	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
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0





SITE 11 CASH FLOW AFFORDABLE

		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
		7410	α,	42	Q0	α,	α.	Q	40	α,	ζ.	42	40	Ψ,	α,	Q.2	40	α.	7077120
INCOME																			
Housing sales	Market housing		0	0	0	0	0	0	220	661	661	441	0	0	0	0	0	0	1,984
	Affordable soc rent		0	Ō	Ō	0	0	Ō	14	41	41	27	0	Ō	0	Ō	Ö	Ō	124
	Affordable sh oship		0	0	0	0	0	0	5	16	16	11	0	0	0	0	0	0	48
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	-8	-24	-24	-16	0	0	0	0	0	0	-71
Total income	1		0	0	0	0	0	0	240	719	719	479	0	0	0	0	0	0	2,156
COSTS	J																		
Land	Land acquisition		251																251
	Stamp duty		8																8
	Purchase fees		7																7
	Total																		265
Build costs	Market housing		0	0	0	0	91	273	273	182	0	0	0	0	0	0	0	0	819
	Affordable soc rent		0	0	0	0	18	55	55	36	0	0	0	0	0	0	0	0	164
	Affordable sh oship		0	0	0	0	5 0	14 0	14	9	0	0	0	0	0	0	0	0	41
	Aff other 1 Aff other 2		0	0	0	0	0	0	0	0	0	0	-	0	0	0	0	0	0
	Build contingency	5.0%	0	0	0	0	6	17	17	11	0	0	0	0	0	0	0	0	51
	Total	3.078	U	U	U	U	U	17	17		U	U	U	U		U	U	U	1,075
Dev costs	Upfront	5.5%	15	15	15	15													59
	Build related	5.5%	0	0	7	20	20	13	0	0	0	0	0	0	0	0	0	0	59
	Abnormals	3%	15	15															30
	Total																		148
Fees	Fees on build costs	10.0%	0	0	0	0	12	36	36	24	0	0	0	0	0	0	0	0	108
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
DC.	Total				_	4-	1 45	40	_	_		•	•	•		•	•	•	108
PG	Planning gain Total				5	15	15	10	0	0	0	0	0	0	0	0	0	0	46 46
Other	Planning	£515	2	2	2														5
Other	Survey	£500	5	2	_														5
	Marketing	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		9
Sales fees	b/forward from above		0	0	0	0	0	0	8	24	24	16	0	0	0	0	0	0	71
Total costs			301	31	28	50	166	418	402	286	24	16	0	0	0	0	0	0	1,722
Net profit/loss	from quarter		-301	-31	-28	-50	-166	-418	-163	432	695	463	0	0	0	0	0	0	434
Profit/loss bf fro	om last quarter		0	-307	-344	-379	-437	-615	-1,052	-1,237	-820	-127	343	343	343	343	343	343	
Cumulative pro	fit/loss		-301	-338	-372	-429	-604	-1,032	-1,214	-805	-125	337	343	343	343	343	343	343	
Interest	Charged at	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%	0.00%	0.00%	0.00%	0.00%	
	Total		-6	-6	-7	-8	-11	-19	-23	-15	-2	6	0	0	0	0	0	0	-92
Cumulative de carried forwar	eveloper profit d to RV calc		-307	-344	-379	-437	-615	-1,052	-1,237	-820	-127	343	343	343	343	343	343	343	342

SITE 12 Central Garage Depot Lichfield



Input assumptions	Scenario & option	Affordable 20% = split	80% social rented 20	% Share Ownership		
chfield site viability st	udy	Dwellings				
Site details				ave floor space	build	sales
Site Lich 12		Dwellings		gross net	cost	value
	s Street Lichfield			sq ft sq ft	per sq ft	per sq ft
rea ha 0.07		Market housing	5.6 80.00%	697 630	98.50	209.00
acres 0.17					0.0%	
lo dwgs 7		Affordable soc rent	1.1 16.00%	697 630	98.50	68.00
Density dw/ha 100.0	0	[A(())]	0.0	007 1 000	0.0%	100.00
		Affordable sh oship	0.3 4.00%	697 630	98.50 0.0%	106.00
		Aff other 1	0.0 0.00%	697 630	98.50	0.00
		All other I	0.00 /8	037 030	0.0%	0.00
		Aff other 2	0.0 0.00%	0 0	98.50	0.00
	£k	<u></u>	3.33			
Contingency		Total	7.0 100.00%	4,879 4,410	£480,582	£804,031
allowance 5.00%	6 24	_	<u> </u>	· · · · · · · · · · · · · · · · · · ·	•	
		Floorspace density	= 25,496 ne	et sq ft per acre		
evelopment costs						
standard % build 10.00	% 50					
Staridard /8 build 10.00	<u>78 </u>	Other costs				
		Planning	515.0	£ per dwelling		
		3				
	<u></u>	Survey	500	£ per dwelling		
plus abnormals 5.0%	25					
				0 1 11		
otal 15%		Marketing	0	£ per dwelling		
15%)					
esign fees						
on build costs 10.09	6 50	Interest				
		% per annum	7.50%			
dev costs 0%						
		Notes				
llanning gain						
lanning gain per dwg 5,100						
per HOUSE 0						
per MKT HOUSE 0						
assumed flats % 60%						
0070						

SITE 12 LAND COST & PHASING

	Land																
								terate	to achi	eve 2	20.0% p	rofit		н	ectare		
	Land pur	roboso	nrino				٦ء		rdable ,775	7		ordable ,230	e Af	fordable		affor	dable
	RV per a		price				£		3,081	_		,772	-£(625,364	£	:431,8	363
	Dev prof	it					£	128	3,763		153	3,794					
	Total cos						£		5,018	7		3,646	_				
	profit as	% of c	costs					19.	05%		20.	01%					
Programme	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS

Programi	me	Year 1				Year 2				Year 3				Year 4				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			0.8	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.6
Starteu	Affordable soc rent			0.2	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.1
	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	0.3
	Aff other 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
	Aff other 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
	TOTAL	0	0	1	2	2	2	0.0	0.0	0.0	0.0	0.0	0	0.0	0	0.0	0.0	7.0
Units	Market housing			0	0	1	2	2	2	0	0	0	0	0	0	0	0	6
'built'																		
+2Q	Affordable soc rent			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
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	1	2	2	2	0	0	0	0	0	0	0	6
complete																		
+3Q	Affordable soc rent				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
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
11	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	1	2	2	2	0	0	0	0	0	0	6
purchase						0	0	0	0	0	0	0	0	_	^	0	0	4
+4Q	Affordable soc rent					0		0	0	0	0	0	0	0	0	0	0	
	Affordable sh oship Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0
	All buildi Z					J	J	0	J .	J J	U	U	U	J	J	J	U	U



SITE 12 CASH FLOW AFFORDABLE

		roto	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
		rate	Q1	Q2	Q3	Q4	Q1	Q2	QS	Q4	Q1	Q2	QS	Q4	Q1	Q2	Q3	Q4	TOTALS
INCOME																			
	-																		
Housing sales	Market housing		0	0	0	0	0	0	602	602	602	0	0	0	0	0	0	0	1,806
	Affordable soc rent		0	0	0	0	0	0	28	28	28	0	0	0	0	0	0	0	85
	Affordable sh oship		0	0	0	0	0	0	11	11	11	0	0	0	0	0	0	0	33
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2 Sales fees		0	0	0	0	0	0	-21	-21	-21	0	0	0	0	0	0	0	-64
	Cares rees																		04
Total income			0	0	0	0	0	0	642	642	642	0	0	0	0	0	0	0	1,925
COSTS	_																		
	1 1 1.100		070																070
Land	Land acquisition Stamp duty		376 11																376 11
	Purchase fees		10																10
	Total		10																398
Build costs	Market housing		0	0	0	0	200	200	200	0	0	0	0	0	0	0	0	0	601
	Affordable soc rent		0	0	0	0	40	40	40	0	0	0	0	0	0	0	0	0	120
	Affordable sh oship		0	0	0	0	10	10	10	0	0	0	0	0	0	0	0	0	30
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2	5.00/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Build contingency Total	5.0%	0	0	0	0	13	13	13	0	0	0	0	0	0	0	0	0	38 789
Dev costs	Upfront	5.8%	11	11	11	11													45
	Build related	5.8%	0	0	15	15	15	0	0	0	0	0	0	0	0	0	0	0	45
	Abnormals	8%	32	32															65
	Total																		155
Fees	Fees on build costs	10.0%	0	0	0	0	26	26	26	0	0	0	0	0	0	0	0	0	79
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
PG	Total				10	10	I 10	0	0	0	0	0	0	0	0	0	0	0	79 31
PG	Planning gain Total				10	10	I	U	U	U	U	U	U	U	U	U	U	U	31
Other	Planning	£515	1	1	1														3
	Survey	£500	3	·															3
	Marketing	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		6
Sales fees	b/forward from above		0	0	0	0	0	0	21	21	21	0	0	0	0	0 0	0	0	64
Total costs			445	45	38	37	314	289	311	21	21	0	0	0	0	0	0	0	1,521
Net profit/loss	s from quarter		-445	-45	-38	-37	-314	-289	331	620	620	0	0	0	0	0	0	0	403
Profit/loss bf fr	om last quarter		0	-454	-507	-555	-603	-935	-1,247	-933	-318	308	308	308	308	308	308	308	
Ourselle iller	£14/1						0:-	4.654	00	00	000	000	000	000	000	000	000	000	
Cumulative pro	DTIT/IOSS		-445	-498	-545	-592	-917	-1,224	-916	-313	302	308	308	308	308	308	308	308	
Interest	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%	
	Total		-8	-9	-10	-11	-17	-23	-17	-6	6	0	0	0	0	0	0	0	-97
Cumulative de carried forward	eveloper profit rd to RV calc		-454	-507	-555	-603	-935	-1,247	-933	-318	308	308	308	308	308	308	308	308	307

SITE 13 Mastrom Printers Alrewas



Deciding Continuency Standard % build 11.50% 91	Input assumptions	Scenario & option	Affordable 20% = split 80	% social rented 20	% Share Ownership		
Deciding Continuency Standard % build 11.50% 91	Lichfield site viability stu	dy	Dwellings				
Market housing 4.8 80.00% 1,368 1,368 91.50 275.00 0.0%			Dwellings		gross net	cost valu	<i>ie</i>
Affordable soc rent 1.0 16.00% 1,368 1,368 91.50 65.00	Area ha 0.17		Market housing	4.8 80.00%	1,368 1,368	91.50 275	
Affordable sh oship Affordabl	No dwgs 6		Affordable soc rent	1.0 16.00%	1,368 1,368	91.50 65.	00
Aff other 1 0.0 0.00% 1.368 1.368 91.50 0.00 Aff other 2 0.0 0.00% 0 0 91.50 0.00 Aff other 2 0.0 0.00% 0 0 91.50 0.00 Total 6.0 100.00% 8.208 8.208 \$751,032 \$1.924,612 Total 6.0 100.00% 8.208 8.208 \$1.000 \$1.924,612 Total 6.0 100.00% 8.208 8.208 \$1.000 \$1.924,612 Total 6.0 100.00% 8.208 \$1.000 \$1	Density dw/ha 35.3	_	Affordable shipship	0.2 4.00%	1 368 1 368		00
Aff other 2 0.0 0.00%				" "		0.0%	
Aff other 2 0.0 0.00% 0 0 91.50 0.00 Total 6.0 100.00% 8,208 8,208 £751,032 £1,924,612 Floorspace density = 19,540 net sq ft per acre Planning 515.0 £ per dwelling Survey 500 £ per dwelling Marketing 0 £ per dwelling Marketing 0 £ per dwelling Marketing 0 £ per dwelling Notes Notes Notes			Aff other 1	0.0 0.00%	1,368 1,368		0
Total 6.0 100.00% 8.208 8.208 \$751,032 \$1,924,612 \$ Sevelopment costs standard % build 11.50% 91		çk	Aff other 2	0.0 0.00%	0 0	91.50 0.0	0
Floorspace density = 19,540 net sq ft per acre Planning	Contingency		Total	6.0 100.00%	8,208 8,208	£751,032 £1,924	1,612
evelopment costs standard % build 11.50% 91 Other costs Planning 515.0 £ per dwelling Survey 500 £ per dwelling Marketing 0 £ per dwelling Marketing 0 £ per dwelling Per dwelling Interest % per annum 7.50% Notes Notes	allowance 5.00%	38	Floorspace density	= 19,540 ne	et sq ft per acre		
Standard % build 11.50% 91 Other costs Planning 515.0 £ per dwelling Survey 500 £ per dwelling Marketing 0 £ per dwelling Design fees on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Notes							
Standard % build 11.50% 91 Other costs Planning 515.0 £ per dwelling Survey 500 £ per dwelling Marketing 0 £ per dwelling Design fees on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Notes							
Planning 515.0 £ per dwelling Survey 500 £ per dwelling Marketing 0 £ per dwelling Planning 6515.0 £ per dwelling Marketing 0 £ per dwelling Planning 6515.0 £ per dwelling Marketing 0 £ per dwelling Notes		91					
plus abnormals 8.2% 65 Marketing 0 £ per dwelling Marketing 0 £ per dwelling Design fees On build costs 10.0% 79 Interest % per annum 7.50% Notes Notes		_		515.0	f ner dwelling		
plus abnormals 8.2% Marketing 0 £ per dwelling total 20% esign fees on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Notes			•				
pesign fees on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Notes Notes	plus abnormals 8.2%	65	Survey	500	£ per dwelling		
pesign fees on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Notes Notes		_					
esign fees on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Notes Notes			Marketing	0	£ per dwelling		
on build costs 10.0% 79 Interest % per annum 7.50% Notes Notes Per HOUSE 0 Per MKT HOUSE 0							
% per annum 7.50% Notes Notes	Design fees	79	Interest				
anning gain per dwg 5,100 per HOUSE 0 per MKT HOUSE 0	011 Juliu 00010			7.50%			
anning gain per dwg 5,100 per HOUSE 0 per MKT HOUSE 0	on dev costs 0%						
per dwg 5,100 per HOUSE 0 per MKT HOUSE 0			Notes				
per HOUSE 0 per MKT HOUSE 0	Planning gain	7					
scumed flats % 1 20%	£ per MKT HOUSE 0 Assumed flats % 20%						

SITE 13 LAND COST & PHASING

		Land																
								0	Iterate	to ach	ieve 2	20.0% p	rofit					
								_ [rdable			fordable	e Af	fordable	lect	are No affor	dable
		RV per		price				£		5,934 1,932			1,679 1,861	£2,	,211,376	6	£3,439	,287
		Dev pro	fit					£	307	7,598		376	6,460					
		Total co	sts					£	1,61	7,689 .01%	_	1,88	.01%	7				
Programme	<u> </u>	profit a	S % OT	costs		Year 2			19.	Year 3		20.	.01%	Year 4				
ogranine		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8

		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
Units started	Market housing			1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	4.8
	Affordable soc rent			0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0
	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
	Aff other 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
	Aff other 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
	TOTAL	0	0	2	2	2	0	0	0	0	0	0	0	0	0	0	0	6.0
Units 'built'	Market housing			0	0	2	2	2	0	0	0	0	0	0	0	0	0	5
+2Q	Affordable soc rent			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
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing				0	0	2	2	2	0	0	0	0	0	0	0	0	5
complete																		
+3Q	Affordable soc rent				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
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	2	2	2	0	0	0	0	0	0	0	5
purchase																		
+4Q	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
	Aff other 1					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0



SITE 13 CASH FLOW AFFORDABLE

		rate	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
INCOME																			
	-																		
Housing sales	Market housing		0	0	0	0	0	0	602	602	602	0	0	0	0	0	0	0	1,806
	Affordable soc rent					-	_		28	28	28	-	-	•					85
	Affordable sh oship Aff other 1		0	0	0	0	0	0	11 0	11	11 0	0	0	0	0	0	0	0	33
	Aff other 2		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	-21	-21	-21	0	0	0	0	0	0	0	-64
	Sales lees		Ŭ						-21	-21	-21								-04
Total income			0	0	0	0	0	0	642	642	642	0	0	0	0	0	0	0	1,925
COSTS	1		⊢ •							042	042				-				1,020
00313	_																		
Land	Land acquisition		376																376
	Stamp duty		11																11
	Purchase fees		10																10
	Total																		398
Build costs	Market housing		0	0	0	0	200	200	200	0	0	0	0	0	0	0	0	0	601
	Affordable soc rent		0	0	0	0	40	40	40	0	0	0	0	0	0	0	0	0	120
	Affordable sh oship		0	0	0	0	10	10	10	0	0	0	0	0	0	0	0	0	30
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	13	13	13	0	0	0	0	0	0	0	0	0	38
	Total																		789
Dev costs	Upfront	5.8%	11	11	11	11													45
	Build related	5.8%	0	0	15	15	15	0	0	0	0	0	0	0	0	0	0	0	45
	Abnormals	8%	32	32															65
	Total																		155
Fees	Fees on build costs	10.0%	0	0	0	0	26	26	26	0	0	0	0	0	0	0	0	0	79
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		79
PG	Planning gain				10	10	10	0	0	0	0	0	0	0	0	0	0	0	31
	Total																		31
Other	Planning	£515	1	1	1														3
	Survey	£500	3																3
	Marketing	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total																		6
Sales fees	b/forward from above		0	0	0	0	0	0	21	21	21	0	0	0	0	0	0	0	64
Total costs			445	45	38	37	314	289	311	21	21	0	0	0	0	0	0	0	1,521
Net profit/loss	from quarter		-445	-45	-38	-37	-314	-289	331	620	620	0	0	0	0	0	0	0	403
Profit/loss bf fre	om last quarter		0	-454	-507	-555	-603	-935	-1,247	-933	-318	308	308	308	308	308	308	308	
Cumulativa	fit/loop		445	400	EAE	500	017	1.004	016	212	202	200	200	200	200	200	200	200	
Cumulative pro	iii/iUSS		-445	-498	-545	-592	-917	-1,224	-916	-313	302	308	308	308	308	308	308	308	
Interest	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%	
	Total		-8	-9	-10	-11	-17	-23	-17	-6	6	0	0	0	0	0	0	0	-97
Cumulative de	eveloper profit		-454	-507	-555	-603	-935	-1,247	-933	-318	308	308	308	308	308	308	308	308	307
carried forwar																			
Julilou loi Wal	2.3117 Juli																		
carried forwar	u to ny calc																		Ì

SITE 14: N of Millbrook Drive Shenstone



Input assumptions	Scenario & option	Affordable 20% = split 80)% social rented 20	% Share Ownership		
ichfield site viability s	tudy	Dwellings				
Site details				ave floor space	build	sales
	4 Millbrook	Dwellings		gross net	cost	value
Location Shens Area ha 0.15		Market housing	3.2 80.00%	sq ft sq ft 1,700 1,700	<i>per sq ft</i> 95.00	<i>per sq ft</i> 215.00
acres 0.37		0.0			0.0%	
No dwgs 4 Density dw/ha 26.7	7	Affordable soc rent	0.6 16.00%	1,700 1,700	95.00 0.0%	65.00
Density dw/na 26.7		Affordable sh oship	0.2 4.00%	1,700 1,700	95.00	102.00
					0.0%	
		Aff other 1	0.0 0.00%	1,700 1,700	95.00	0.00
		Aff other 2	0.0 0.00%	0 0	0.0% 95.00	0.00
	£k					
Contingency allowance 2.50°	% 16	Total	4.0 100.00%	6,800 6,800	£646,000	£1,268,064
allowance 2.50	70 10	Floorspace density	= 18,346 ne	et sq ft per acre		
Development costs						
standard % build 9.00°	% 60					
		Other costs				
		Planning	515.0	£ per dwelling		
		Survey	500	£ per dwelling		
plus abnormals 0.0%	6 0					
		Marketing	0	£ per dwelling		
Total 9%						
Design fees						
on build costs 10.0°	% 66	Interest				
		% per annum	7.50%			
on dev costs 0%						
0,0		Notes				
Planning gain						
Planning gain £ per dwg 5,10	0					
£ per HOUSE 550						
£ per MKT HOUSE 600						
Assumed flats % 0%						

SITE 14 LAND COST & PHASING

Aff other 2

														_				
									Iterate	to ach	ieve 2	20.0% p	rofit					
																Hect	are	
									Affo	rdable		No aff	ordable	• A	ffordable	,	No affor	dable
		Land p	urchase	nrice				£	15	1,927		273	3,249					
		•		prioc				~ [ᆜᇯ	040.05	^	04 004	CEC
		RV per	acre					£	40	9,895		731	7,215	ΣI	,012,85	U	£1,821	,658
		Dev pro	ofit					£	20:	2,861		244	1,036					
		•											•					
		Total co	osts					£		55,953			8,714					
		profit a	as % of	costs					19	.03%		20.	02%					
Program	me	Year 1				Year 2				Year 3				Year 4				
Ŭ		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTAL
Units	Market housing			0.8	0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2
	Affordable soc rent			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	0.6
	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	0.2
	Aff other 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
	Aff other 2 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 4.0
	TOTAL	U	U	<u>'</u>	<u> </u>					U		1 0	U	0	0 1			4.0
Units built'	Market housing			0	0	1	1	1	1	0	0	0	0	0	0	0	0	3
+2Q	Affordable soc rent			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
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Aff other 2 Market housing			0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
complete					U	U	'	'	'	'	U	U	U	U	U	U	U	3
+3Q	Affordable soc rent				0	0	0	0	0	0	0	0	0	0	0	0	0	1
	Affordable sh oship				0	0	0	0	Ō	0	Ō	Ō	0	0	0	0	Ō	0
	Aff other 1				0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0
Units	Market housing					0	0	1	1	1	1	0	0	0	0	0	0	3
ourchase +4Q	Affordable soc rent					0	0	0	0	0	0	0	0	0	0	0	0	1
+40	Affordable sh oship					0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 1					Ö	0	0	0	0	0	0	0	0	0	0	0	0



SITE 14 CASH FLOW AFFORDABLE

			Year 1				Year 2				Year 3				Year 4				
		rate	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	TOTALS
INCOME																			
	-																		
Housing sales	Market housing		0	0	0	0	0	0	292	292	292	292	0	0	0	0	0	0	1,170
	Affordable soc rent		0	0	0	0	0	0	18	18	18	18	0	0	0	0	0	0	71
	Affordable sh oship		0	0	0	0	0	0	7	7	7	7	0	0	0	0	0	0	28
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2 Sales fees		0	0	0	0	0	0	-10	-10	-10	-10	0	0	0	0	0	0	-42
	Sales lees		0	0			0		-10	-10	-10	-10			0				-42
Total income			0	0	0	0	0	0	317	317	317	317	0	0	0	0	0	0	1,268
COSTS																			
	_																		
Land	Land acquisition		152																152
	Stamp duty		2																2
	Purchase fees		4																4
B. 3.4	Total					_	400	400	400	100		•		_	•	•		•	158
Build costs	Market housing		0	0	0	0	129 26	129 26	129 26	129 26	0	0	0	0	0	0	0	0	517
	Affordable soc rent Affordable sh oship		0	0	0	0	6	∠6 6	26 6	26 6	0	0	0	0	0	0	0	0	103 26
	Aff other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aff other 2		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	4	4	4	4	0	0	0	0	0	0	0	0	16
	Total	2.070	Ů	ŭ	ŭ	Ů	•		•	•	ŭ	Ŭ	ŭ	Ů	ŭ	· ·	ŭ	Ů	662
Dev costs	Upfront	4.5%	7	7	7	7													30
	Build related	4.5%	0	0	7	7	7	7	0	0	0	0	0	0	0	0	0	0	30
	Abnormals	0%	0	0															0
	Total																		60
Fees	Fees on build costs	10.0%	0	0	0	0	17	17	17	17	0	0	0	0	0	0	0	0	66
	Fees on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total						<u> </u>												66
PG	Planning gain				6	6	6	6	0	0	0	0	0	0	0	0	0	0	25
Other	Total	0545	_	_															25
Other	Planning	£515 £500	1 2	1	1														2 2
	Survey Marketing	£500	2		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Total	2.0			U	U	U	U	U	U	U	U	U	U	U	U	U	U	4
Sales fees	b/forward from above		0	0	0	0	0	0	10	10	10	10	0	0	0	0	0	0	42
Total costs			168	8	22	21	196	196	193	193	10	10	0	0	0	0	0	0	1,016
Net profit/loss	from quarter		-168	-8	-22	-21	-196	-196	124	124	307	307	0	0	0	0	0	0	252
Profit/loss bf fr	om last quarter		0	-171	-182	-208	-233	-437	-644	-529	-412	-108	203	203	203	203	203	203	
_																			
Cumulative pro	fit/loss		-168	-179	-204	-229	-429	-632	-520	-405	-106	199	203	203	203	203	203	203	
Interest	Charged at	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%	0.00%	0.00%	0.00%	0.00%	
	Total		-3	-3	-4	-4	-8	-12	-10	-8	-2	4	0	0	0	0	0	0	-50
Cumulative de	eveloper profit		-171	-182	-208	-233	-437	-644	-529	-412	-108	203	203	203	203	203	203	203	202
carried forwar																			

SITE 15: Pear Tree Cottage Edingale

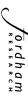


Input assumptions Scenario & option	Affordable 20% = split 80% social rented 20	0% Share Ownership	
Lichfield site viability study	Dwellings		
Site details Site Lich 15	Dwellings	gross net cost va	les lue
Location Lullington Rd Edingale Area ha 0.12 acres 0.30	Market housing 2.4 80.00%	sq ft sq ft per sq ft per 1,235 1,235 96.50 218 0.0% 0.0%	sq ft 5.00
No dwgs 3 Density dw/ha 25.0	Affordable soc rent 0.5 16.00%		.00
	Affordable sh oship 0.1 4.00%	0.0%	2.00
	Aff other 1 0.0 0.00% Aff other 2 0.0 0.00%	0.0%	00
£k Contingency	Total 3.0 100.00%		0,908
allowance 2.50% 9	Floorspace density = 12,495 n	et sq ft per acre	
Development costs standard % build 10.00% 37	Other costs Planning 515.0	£ per dwelling	
plus abnormals 2.8% 10	Survey 500	£ per dwelling	
Total 13%	Marketing 0	£ per dwelling	
Design fees on build costs 10.0% 37	Interest % per annum 7.50%		
on dev costs 0%	Notes		
Planning gain £ per dwg 5,100 £ per HOUSE 550			

SITE 15 LAND COST & PHASING

		Land																	
								Ī	terate	to achi	eve 2	7							
								_							Hectare				
									Affoi	rdable		No affordable		<u> </u>	Affordable		No affordable		
		Land pu	urchase	price				£	59	59,117		126,115							
	RV per acre							£	199,371			425,316		£4	£492,645		£1,050,95		
		•													ŕ		·	•	
		Dev pro	ofit					£	110	110,528		133,085							
		•						£		,056			-						
		Total costs profit as % of costs						19.02			664,165		7						
		profit a	IS % Of	costs					19.	02%		20.	04%						
Program	ne	Year 1 Q1	Q2	Q3	Q4	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS	
Units started	Market housing			0.8	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.4	
Starteu	Affordable soc rent			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	0.5	
	Affordable sh oship Aff other 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	0.1 0.0	
	Aff other 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	
	TOTAL	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3.0	
Units 'built'	Market housing			0	0	1	1	1	0	0	0	0	0	0	0	0	0	2	
+2Q	Affordable soc rent Affordable sh oship			0 0	0 0	0	0	0 0	0	0	0	0 0	0	0	0	0	0	0	
	Aff other 1			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Units	Aff other 2			0	0	0	<u>0</u>	0	1	0	0	0	0	0	0	0	0	0	
complete	Market housing d				U	0	'	'	1	0	U	U	U	U	U	U	U	2	
+3Q	Affordable soc rent				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
	Affordable sh oship Aff other 1				0 0	0	0	0 0	0	0	0	0 0	0	0	0 0	0	0	0	
	Aff other 2				0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Units purchase	Market housing					0	0	1	1	1	0	0	0	0	0	0	0	2	
+4Q	Affordable soc rent					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	
	Aff other 1 Aff other 2					0	0	0	0	0	0	0	0	0	0	0	0	0	





SITE 15 CASH FLOW AFFORDABLE

Aff Aff Aff	arket housing fordable soc rent fordable sh oship f other 1 f other 2 teles fees	rate	0 0 0 0 0 0	0 0 0 0 0	Q3 0 0	Q4 0 0	Year 2 Q1	Q2	Q3	Q4	Year 3 Q1	Q2	Q3	Q4	Year 4 Q1	Q2	Q3	Q4	TOTALS
Housing sales Ma Aff. Aff. Aff Aff. Sa	fordable soc rent fordable sh oship f other 1 f other 2		0 0 0	0 0 0	0 0	0													
Aff. Aff. Aff Aff Sa.	fordable soc rent fordable sh oship f other 1 f other 2		0 0 0	0 0 0	0 0	0													
Aff. Aff. Aff Aff Sa.	fordable soc rent fordable sh oship f other 1 f other 2		0 0 0	0 0 0	0 0	0		0	212	212	212	0	0	0	0	0	0	0	637
Aff. Aff Aff Sa	fordable sh oship f other 1 f other 2		0 0 0	0	0	~	0	0	13	13	13	0	0	0	0	0	0	0	39
Aff Aff Sa	f other 1 f other 2		0	-		0	0	0	5	5	5	0	0	0	0	0	0	0	15
Sa				0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	ales fees		0	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Total income				0	0	0	0	0	-8	-8	-8	0	0	0	0	0	0	0	-23
Total income																			
			0	0	0	0	0	0	230	230	230	0	0	0	0	0	0	0	691
COSTS																			
Land Lai	nd acquisition		59																59
	amp duty		0																0
Pu	ırchase fees		2																2
To																			61
	arket housing		0	0	0	0	95	95	95	0	0	0	0	0	0	0	0	0	286
	fordable soc rent		0	0	0	0	19	19	19	0	0	0	0	0	0	0	0	0	57
	fordable sh oship		0	0	0	0	5	5	5	0	0	0	0	0	0	0	0	0	14
	f other 1		0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	f other 2	0.50/	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	uild contingency	2.5%	0	0	0	0	3	3	3	0	0	0	0	0	0	0	0	0	9
Tot		E 00/	-	-	-	-													366
	ofront uild related	5.0% 5.0%	5 0	5 0	5 6	5 6	6	0	0	0	0	0	0	0	0	0	0	0	18 18
	nnormals	5.0% 3%	5	5	ь	ь	ь	U	U	U	U	U	U	U	U	U	U	U	10
To		3%	5	5															47
	es on build costs	10.0%	0	0	0	0	12	12	12	0	0	0	0	0	0	0	0	0	37
	es on dev costs	0.0%	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
To		0.070	· ·	ŭ	Ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	Ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	ŭ	37
	anning gain				6	6	6	0	0	0	0	0	0	0	0	0	0	0	18
To							l			-		Ť	_			-	_		18
	anning	£515	1	1	1														2
	irvey	£500	2																2
	arketing	£0			0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
To																			3
	forward from above		0	0	0	0	0	0	8	8	8	0	0	0	0	0	0	0	23
Total costs			72	10	17	17	147	134	142	8	8	0	0	0	0	0	0	0	555
															_				
Net profit/loss fro	om quarter		-72	-10	-17	-17	-147	-134	88	223	223	0	0	0	0	0	0	0	136
Profit/loss bf from last quarter			0	-74	-85	-105	-124	-275	-417	-335	-114	111	111	111	111	111	111	111	
Cumulative profit/lo	oss		-72	-84	-103	-121	-270	-410	-329	-112	108	111	111	111	111	111	111	111	
nterest Ch	narged 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%	
To	tal		-1	-2	-2	-2	-5	-8	-6	-2	2	0	0	0	0	0	0	0	-26
Cumulative devel	loper profit		-74	-85	-105	-124	-275	-417	-335	-114	111	111	111	111	111	111	111	111	110
carried forward to	o RV calc																		