

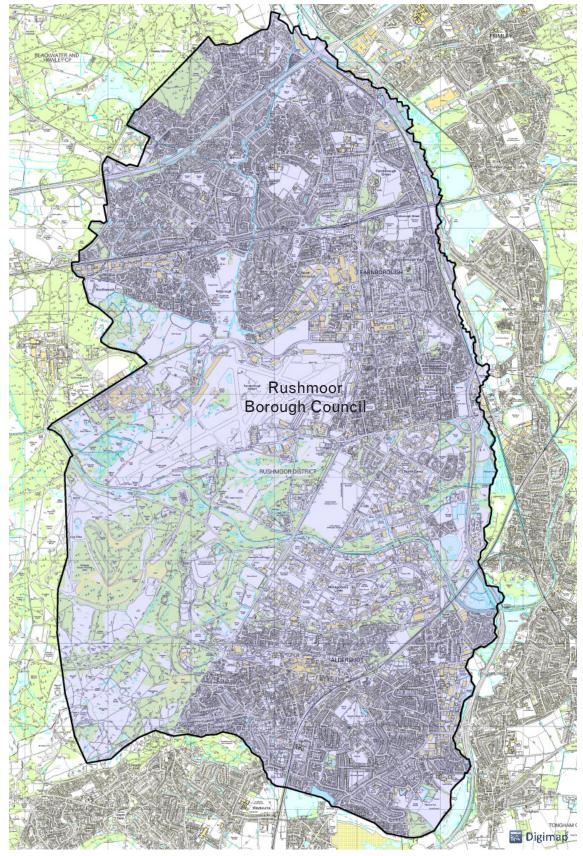
Introduction Scope of document

This document has been produced to demonstrate how housing needs can be fulfilled sustainably without the destruction of our countryside and way of life.

I hope the document will encourage and demonstrate to communities and councils that the situation is not as bad as currently being suggested and that there are alternatives to the unsustainable decisions currently being made.

Reviewing the Strategic Housing Market Assessment Report presented in December 2014, it becomes clear housing numbers will only increase significantly as jobs and the overall population levels dramatically increase in the South East of England. This document does not seek to discuss whether this is fair or not but seeks only to provide solutions to the supply of housing. As not meeting the housing numbers will only drive house prices up to an unsustainable level for low incomes and first time buyers.

Looking at the growing population of the last 10-15 years, I am personally concerned; we must look towards more sustainable approaches to housing in order to provide homes for our ever increasing population.



Study Area

 $\label{thm:mapping} \textit{Map abobe: EDINA, Digimap, [Online mapping], http://digimap.edina.ac.uk/digimap/home (Accessed 01.03.15)}$

Denser Housing A brighter future

The Housing shortage in the South East should be seen as nothing but an opportunity to improve our town and village centres by allowing investment from residential development to improve the amenities and services which already exist.

By looking to our town centres it will prevent any green field sites being built on for many years as well as reducing carbon emissions and the stress on our existing highways by reducing the number of cars on the road.

This means looking at alternative housing typologies that step away from the current fake Georgian styled detached houses we have come to know and give space to a modern, productive and sustainable approach by using denser housing types. The apartment block is commonly used on main land Europe by all types of people including families.

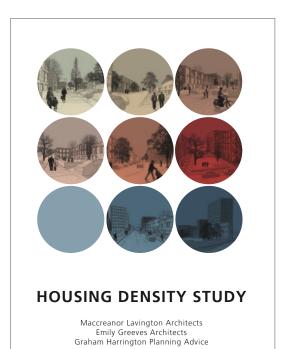
Many towns and cities see this as a natural way of life when living in town centres and generally produce socially thriving communities which would not swap their lifestyles for a more rural location on the outskirts of a town. Furthermore, they generally give more green open space for families and communities.

We must look at the long term future beyond the current 2032 targets. As building plots become rare it is essential to build without ruining what we all love about this area and thus learn to do more with less.

Good architecture and a strong local authority involvement is key in producing good quality housing, and delivering a bright future that I believe can still exist if we change what we perceive to be the only option to a more sustainable approach.

I have included many examples of denser housing types to show how the perception of this typology has been ruined over the years. Please re-consider while there is still time to protect our countryside and improve our urban realms.

The following chapter demonstrates how we can secure our countryside and still increase our housing numbers in a sustainable manner. It looks within the borough and locates possible sites and qualities to provide a realistic indication of the amount of housing available if we are to look towards denser housing types.



Housing Density Study Document published in 2012 by Greater London Authority

Final Document: 30th August 2012

Housing Density Study

Reading the following document, it would be fair to indicate that most of Aldershot "Urban" Extension and sites in Farnborough Town centre would come under an accessibility index rating of 4 to 6 and would either be classed as central or urban, suggesting densities of between 160-435 units per hectare.

As half of the Aldershot "Urban Extension" will be more than 10 minutes away from the town centre it would be fair to assume a mid to low selection of 250 units per hectares aa a general rule of thumb. Therefore, I have suggested this as a starting point for each site before finding the ideal density upon further research.

2.9 The original London Plan (2004) (Table 4B.1)

 included Location, Accessibility Index (PTAL), Setting and car parking (related to PTAL, Setting and predominant housing type).
 See below.

		Car parking	High	Moderate	Low
		provision	2 - 1.5 spaces	1.5 - 1 space	Less than 1
			per unit	per unit	space per unit
		Predominant	Detached and	Terraced houses	Mostly flats
		housing type	linked houses	& flats	
Location	Accessibility	Setting			
	Index				
Sites within	6 to 4	Central			650 - 1100 hr/ha
10 mins					240 - 435 u/ha
walking distance					Ave. 2.7hr/u
of a town centre		Urban		200 - 450 hr/ha	450 - 700 hr/h
				55 - 175 u/ha	165 - 275 u/ha
				Ave. 3.1hr/u	Ave. 3.0hr/u
		Suburban		200 - 300 hr/ha	250 - 350 hr/ha
				50 - 110 u/ha	80 - 120 u/ha
				Ave. 3.7hr/u	Ave. 3.0hr/u
Sites along	3 to 2	Urban		200 - 300 hr/ha	300 - 450 hr/ha
transport corridors				50 - 110 u/ha	100 - 150 u/ha
& sites close to				Ave. 3.7hr/u	Ave. 3.0hr/u
a town centre		Suburban	150 - 200 hr/ha	200 - 250hr/ha	
			30 - 65 u/ha	50 - 80 u/ha	
			Ave. 4.4hr/u	Ave. 3.8hr/u	
Currently remote	2 to 1	Suburban	150 - 200 hr/ha		
sites			30 - 50 u/ha		
			Ave. 4.6hr/u		

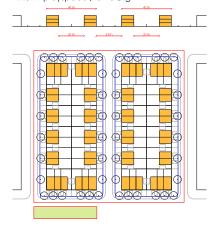
Housing Density Study - Page 3

- 2.10 The London Plan (Consolidated with Alterations since 2004) (2008) (Table 3.2) included the following changes, as set out below:
- Location removed (but definition of character Settings increased to refer to 800m walking distance from town centres);
- Character Settings and density ranges in the matrix are expanded to include average dwellings size (with a higher number of habitable rooms per dwelling assumed for lower density development within each Setting); and
- Car parking removed (addressed in Policy 3C.23 and Annex 4).

Setting	Public Transport Accessibility Level (PTAL) 0 to 1 2 to 3 4 to 6				
Suburban	150 - 200 hr/ha	150 - 250 hr/ha	200 - 350 hr/ha		
3.8 – 4.6 hr/unit	35 – 55 u/ha	35 – 65 u/ha	45 – 90 u/ha		
3.1 – 3.7 hr/unit	40 – 65 u/ha	40 – 80 u/ha	55 – 115 u/ha		
2.7 – 3.0 hr/unit	50 – 75 u/ha	50 – 95 u/ha	70 – 130 u/ha		
Urban	150 - 250 hr/ha	200 - 450 hr/ha	200 - 700 hr/ha		
3.8 – 4.6 hr/unit	35 – 65 u/ha	45 – 120 u/ha	45 – 185 u/ha		
3.1 – 3.7 hr/unit	40 – 80 u/ha	55 – 145 u/ha	55 – 225 u/ha		
2.7 – 3.0 hr/unit	50 – 95 u/ha	70 – 170 u/ha	70 – 260 u/ha		
Central	150 - 300 hr/ha	300 - 650 hr/ha	650 - 1100 hr/ha		
3.8 – 4.6 hr/unit	35 – 80 u/ha	65 – 170 u/ha	140 – 290 u/ha		
3.1 – 3.7 hr/unit	40 – 100 u/ha	80 – 210 u/ha	175 – 355 u/ha		
2.7 – 3.0 hr/unit	50 – 110 u/ha	100 – 240 u/ha	215 – 405 u/ha		

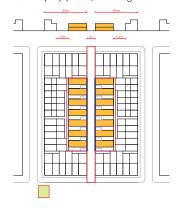
1. Semi-detached houses (3 storeys)

Gross - 35 u/ha, 194hr/ha Net - 47 u/ha, 262hr/ha 1:1.86 Parking Ratio 9.3m² playspace / dwelling



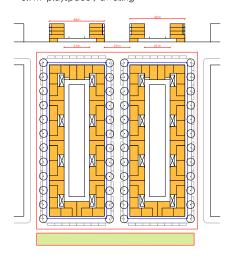
3. Mews / Patio house (2 storeys)

Gross - 48u/ha, 241hr/ha Net - 67u/ha, 333hr/ha 1:1 Parking Ratio 6.4m² playspace / dwelling



5. Small apartment buildings (5 storeys)

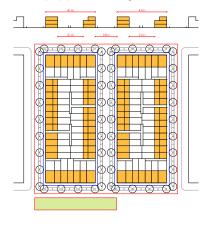
Gross - 162u/ha, 484hr/ha Net - 263u/ha, 783hr/ha 1: 0.63 Parking Ratio 3.9m² playspace / dwelling



Housing Density Study - Page 143

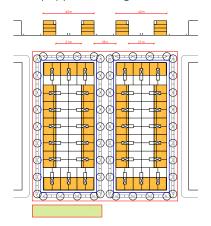
2. Terraced houses (2/3 storeys)

Gross - 50 u/ha, 273hr/ha Net - 78 u/ha, 427hr/ha 1:1.15 Parking Ratio 8.9m² playspace / dwelling



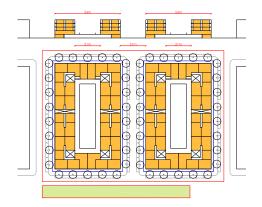
4. Walk-up maisonettes + apartments (4 storeys)

Gross - 99 u/ha, 348hr/ha Net - 152 u/ha, 512hr/ha 1:0.6 parking ratio 3.9m² playspace / dwelling



6. Corridor apartment buildings (5 storeys)

Gross - 173u/ha, 509hr/ha Net - 285u/ha, 840hr/ha 1: 0.56 Parking Ratio 4.0m² playspace / dwe**lli**ng



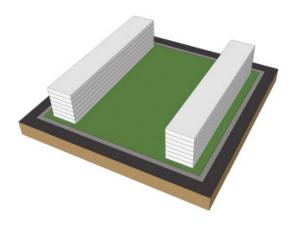


Current Approved Plans

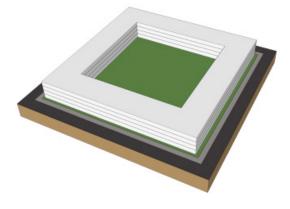
Total: 250 hectares Built up area: 140 hectares Total Area: 3850 units

Density: 27.5 (28) per hectare

Suggested Density Diagrams

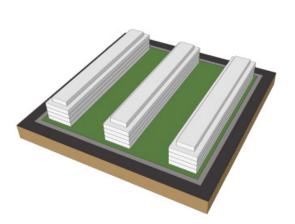


Floors: Density: 6/7 250 units

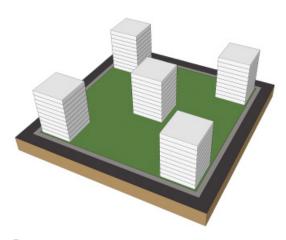


Floors: Density:

4 250 units



Floors: Density: 4/5 250 units



Floors: Density: 10 250 units



Arundel Square, London - Pollard Thomas Edwards

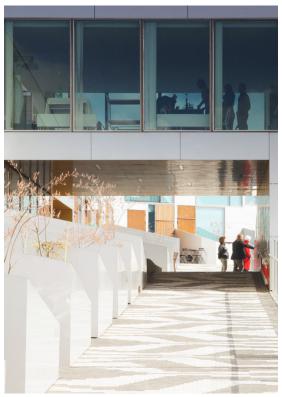


New City Library and Public Square, Mendrisio - Sergison Bates





Andreas Ensemble, Amsterdam - Tony Fretton



8 Tallet, Copenhagen - Bjarke Ingels Group



Urbana Villor, Malmo, Sweden - Hauschild + Siegel





Neue Hamburger Terrassen, Hamburg - LAN



Claredale Street, London - Karakusevic Carson Architects



Outlook Place, Watford - Pollard Thomas Edwards





Tietgens Ærgelse, Copenhagen - Tony Fretton





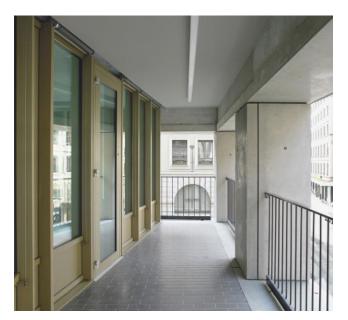
Adelaide Wharf, London - Allford Hall Monaghan Morris Architects



Fionia Apartments, Copenhagen - Danielsen architecture









Ceres, CB1, London - Pollard Thomas Edwards

Rushmoor Borough Council

Borough Plan

Rushmoor contains a large amount of brownfield land which could be built on immediately thus putting itself in a strong position. However, it should use this land wisely to preserve this lead and help out surrounding boroughs in the short term, as after this "Urban" Extension it will become extremely difficult to find land to build on without increasing densities in existing built up areas. Therefore in the long term it will need to rely on Hart to release land for development. This is where the two boroughs can work together in short and long term to provide sustainable housing for all.

The Aldershot Urban Extension is very sub-urban in nature and this must be addressed as it holds the key to releasing pressure on the situation for all boroughs in the short term. By looking at denser precedents for housing we can achieve much more with this land than what is currently being proposed. It is well located being close to Aldershot town centre removing the need for car usage every day and big enough to produce its own cultural identity which would only thrive more within a larger population.

Aldershot Town Centre can also play a role in delivering housing, however, this is a complex task and this document does not look to deal with this. Farnborough town centre on the other hand is easier to plan housing in the short to medium term as there is more open land available to build on.

Ideally the urban extension would be used to provide housing in the short term, and be a safety net as town centre led developments take place in the medium to long term. This process should not be rushed and should be led by talented architects to produce better outcomes, benefiting all.

Conclusion:

Urban Extension: Short to long term Aldershot Town Centre: Medium to long term Farnborough Town Centre: Medium to long term

Famborough Town Centre Figures and Ideal Density:

Sites	<u>Units</u>	<u>Area</u>
Site 1:	150	0.57
Site 2a:	100	0.39
Site 2b:	70	0.27
Site 3:	120	0.48
Site 4a:	100	0.37
Site 4b:	100	0.33
Site 5:	N/A	N/A
Site 6a:	65	0.25
Site 6b:	150	0.58
Site 6c:	90	0.35
Site 6d:	130	0.51
Site 7a	725	2.9
Site 7b	150	0.61
Site 7c	230	0.91
Site 8	85	0.33
SILE O	00	0.00

Area: 8.85 Hectares
Density: 250 Units per hectares

Total Housing Units: 2.265 Units

Aldershot / Urban Extension Figures and Ideal Density:

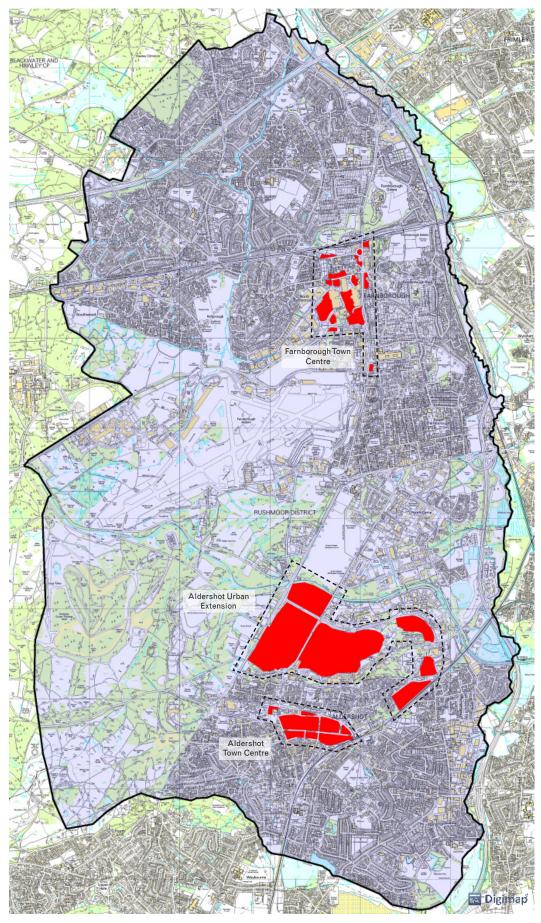
Sites	<u>Units</u>	<u>Area</u>
Site 9: Site 10:	175 N/A	0.7 N/A
Plot J: Plot H+I: Plot B: Plot G: Plot L+M: Plot N: Plot K: Plot A+D:	2800 3350 3875 825 1875 2275 2450 2350	11.2 13.4 15.5 3.3 7.5 9.1 9.8 9.4
Plot Q: Plot R+S:	1800 2250	6.4
1 10011101		_

Area: 101 Hectares
Density: 250 Units per hectares

Total Housing Units: 24,025 Units

Total Figures and Ideal Density:

Area: 109.5 Hectares
Total Housing Units: 26,290 Units



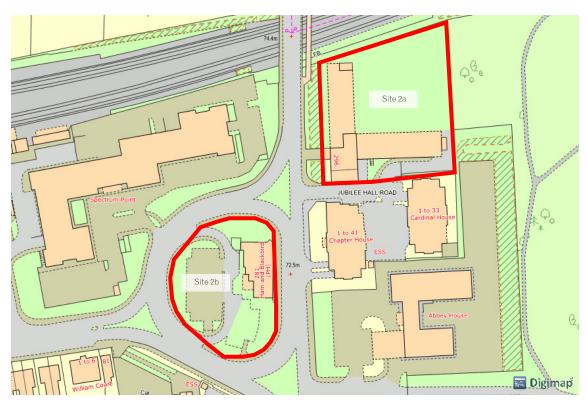
Rushmoor Borough Council boundary - Proposed sites for development

Rushmoor Borough Council Farnborough Town Centre



Site 1 - Car Park for Farnborough Main Station / 0.57 Hectares / 150 units

 $Map\ above: EDINA, Digimap, [Online\ mapping], http://digimap.edina.ac.uk/digimap/home\ (Accessed\ 01.03.15)$



Site 2a - Thomas Local Site / 0.39 Hectares / 100 units Site 2b - Ham and Blackbird Site / 0.27 Hectares / 70 units



Site 3 - Clockhouse Road / 0.48 Hectares / 120 units

Map above: EDINA, Digimap,[Online mapping], http://digimap.edina.ac.uk/digimap/home (Accessed 01.03.15)



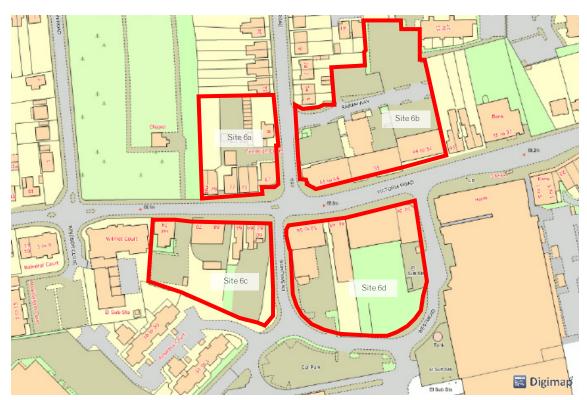
Site 4a - Car Park / 0.37 Hectares / 100 units Site 4b - Farnborough Road / 0.33 Hectares / 100 units

Rushmoor Borough Council



Site 5 - Town Centre needs plan, unrealistic to put number of unit on this site at this stage.

 $Map\ above: EDINA,\ Digimap, [Online\ mapping],\ http://digimap.edina.ac.uk/digimap/home\ (Accessed\ 01.03.15)$



Site 6a: 0.25 hec / 65 units Site 6b: 0.58 hec / 150 Site 6c: 0.35 hec / 90 units Site 6d: 0.51 hec / 130 units



Site 7a: / 2.9 hectares 750 units Site 7b: / 0.61 hectares / 150 units Site 7c: / 0.91 hectares / 230 units

 $Map\ above: EDINA, Digimap, [Online\ mapping], \ http://digimap.edina.ac.uk/digimap/home\ (Accessed\ 01.03.15)$



Site 8: - 0.33 hectares / 85 units

Rushmoor Borough Council Aldershot "Urban" Extension



Plot J - 11.2 hectares / 2800 units

Map above: EDINA, Digimap,[Online mapping], http://digimap.edina.ac.uk/digimap/home (Accessed 01.03.15)



Plot H+I - 13.4 hectares / 3350 units



Plot B - 15.5 hectares / 3875 units

 $\label{thm:mapping} \textit{Map above: EDINA, Digimap,} [Online \ mapping], \ http://digimap.edina.ac.uk/digimap/home (Accessed 01.03.15)$



Plot G: - 3.3 hectares / 825 units

Rushmoor Borough Council



Plot L / M - 7.5 hectares / 1875 units

Map above: EDINA, Digimap,[Online mapping], http://digimap.edina.ac.uk/digimap/home (Accessed 01.03.15)

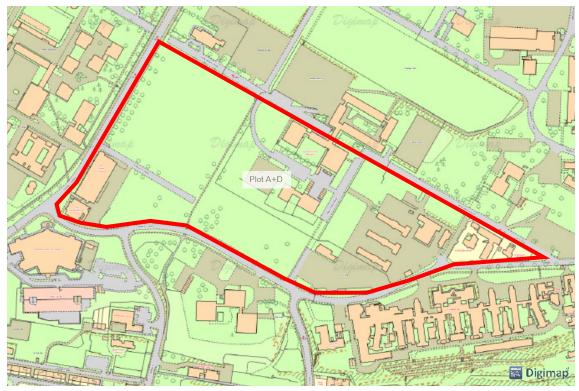


Plot N - 9.1 hectares / 2275 units



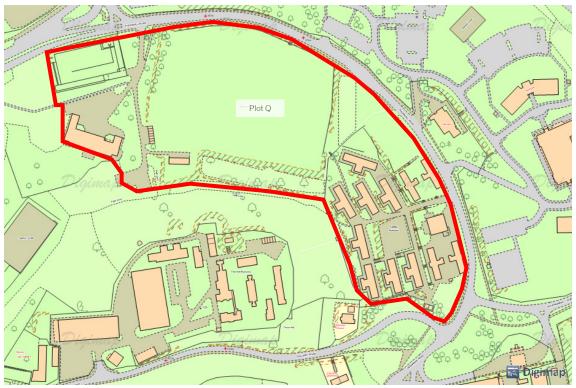
Plot K - 9.8 hectares / 2450 units

 $Map\ above: EDINA, Digimap, [Online\ mapping], \ http://digimap.edina.ac.uk/digimap/home\ (Accessed\ 01.03.15)$



Plot A + D: - 9.4 hectares / 2350 units

Rushmoor Borough Council Aldershot "Urban" Extension



Plot Q - 6.4 hectares / 1600 units

 $Map\ above: EDINA, Digimap, [Online\ mapping], http://digimap.edina.ac.uk/digimap/home\ (Accessed\ 01.03.15)$



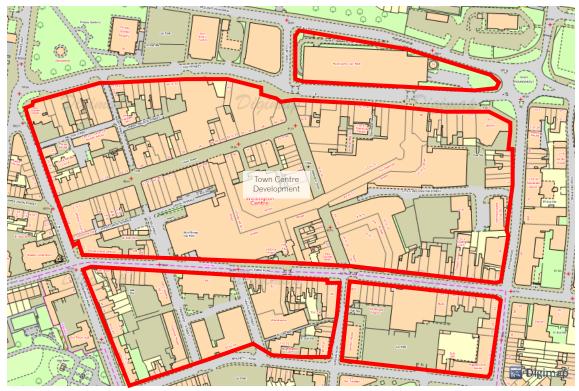
Plot R + S - 9 hectares / 2250 units

AldershotTown Centre



Site 9 - 0.7 hectares / 175 units

Map above: EDINA, Digimap,[Online mapping], http://digimap.edina.ac.uk/digimap/home (Accessed 01.03.15)



Site 10 - Town Centre needs plan, unrealistic to put number of unit on this site at this stage.

