

**Sherwood**

**Energy**

**Village**



**Stan Crawford**

**Director**

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***“The most Enterprising Place in Britain is  
Sherwood Energy Village in Ollerton  
Nottinghamshire”***

***Gordon Brown Chancellor of the Exchequer  
G7 Conference February 2005***

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***“This project met all the criteria for this particular category and was the strongest entry we looked at overall. Sherwood Energy Village has a national and international significance and is truly committed to creating a sustainable environment”.***

**Judge and Chairman of RICS in the East Midlands, Stephen Anelay, when announcing Sherwood Energy Village as the winner of the Regeneration Category and Project of the Year**

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August 1994



SHERWOOD ENERGY VILLAGE  
FORMER OLLERTON COLLIERY SITE  
BRITISH COAL AERIAL PHOTOGRAPH  
FLIGHT 1st AUGUST 1994 SCALE 1:300



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Ollerton pit shut in 1994

The concept for the Energy Village came from the concerns expressed at that time:

***Jobs for the future – for our kids”***

***Diverse economic base”***

***No more MUCK”***

The other factor was that the decision was taken elsewhere

The decision was made to take control of future development

**Herwood Energy Village was defined, developed and is owned by the community itself.**



# Sherwood

# Energy Village



## Ownership

Controlled by its members

**One Member, One Vote**

Profits applied to achieve Aims

**Shares redeemed by Society, not Stock Exchange**

A Community Business, not a community group



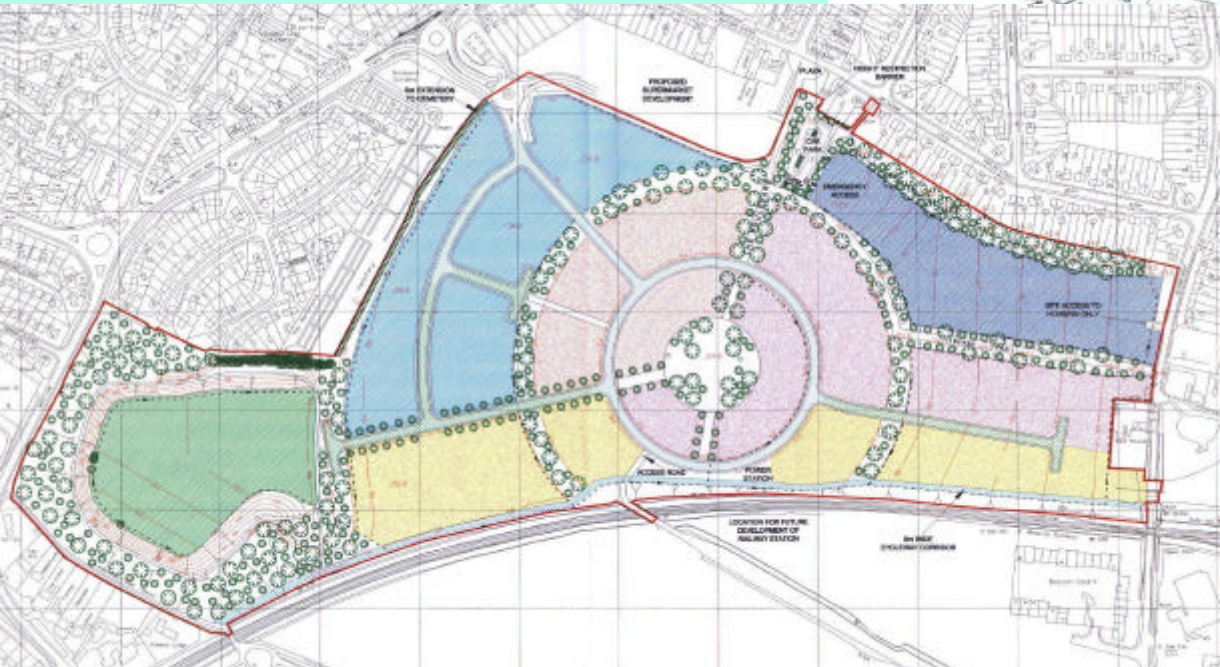
# Sherrwood

# Energy Village



## Master Planning

Plans visualised in this 1995  
Conceptual Plan



The Zoned plan shows  
the different elements:

**Housing**

**Industrial/Commercial**

**Recreation**



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**A place to live, work, learn and play**

**Energy Efficiency**

**Environmental overlay to whole site**

**Best practice design and construction**

**Renewable Energy application**

**Increase bio-diversity**



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***1996 – 1999: Funding negotiation for reclamation works  
£4.2 million total***

**Background work: Engineering surveys,  
and searches, legal work, feasibility work.**

**January 2000 – At last work starts!**



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## **Earthworks – a moving experience**

**For the next 8 months there was a lot of  
muck-shifting!**

**1,000,000 cubic metres of sand moved**

**100,000 tonnes of concrete debris  
recycled**

**Unexpected delays**





## Other issues:

- Lack of topsoil – looking at alternatives
- Water strategy – sustainable drainage design
- Planning Issues
- Creating a quality site
- Keeping people informed and involved (five years work undertaken as unpaid volunteers 1994 - 1999)



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## Our Sustainable Urban Drainage System (SUD) in Action

4pm 10<sup>th</sup> August 2004



9am 11<sup>th</sup> August 2004



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## **Developing sustainable standards for the site: What we ask of investors/developers to do**

**Environmental site planning – looking at orientation; wind speeds and direction; solar shading and gain; landscaping**

**Designing OUT energy use, and then use renewables**

**Plan for healthy buildings**

**Design OUT crime**

**Building materials – making the right choice, then finding if they are available locally.**

**Build to our requirements and it will decrease your running costs and has therefore have a positive effect on your profitability.**



## The first Private Sector Investor: Risk Disk they wanted

- 12,000sq.ft of office accommodation which could be built in 2 phases
- Good quality working environment for staff
- A building which met the growing business needs and S.E.V.'s environmental targets and was deliverable for normal commercial building rates in North Nottinghamshire.



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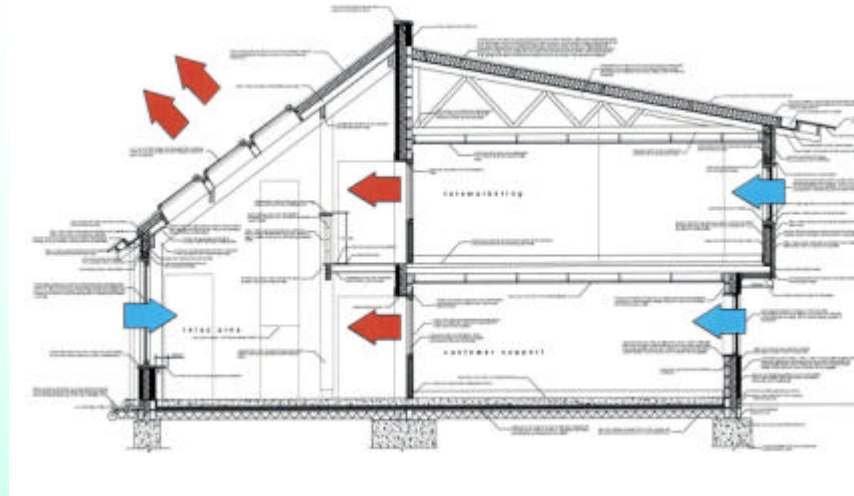
**Narrow footprint maximising day lighting**

**Low fabric “U” values improving heat retention**

**Simple construction techniques using, where possible, local materials and minimising waste.**

**Central draft lobby**

**South facing conservatory acting as solar harvester and passive ventilation system**







# Jackson Design Associates



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# EMDA's Sustainable Construction Pilot Project



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## Center Parcs Head Office



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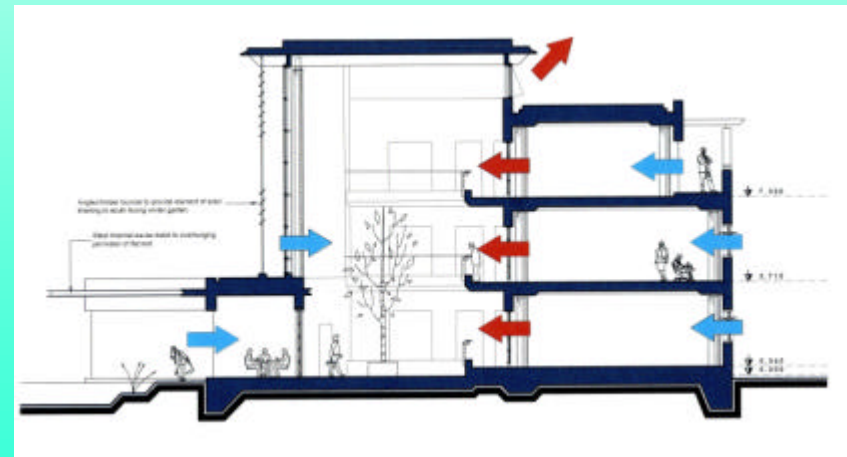
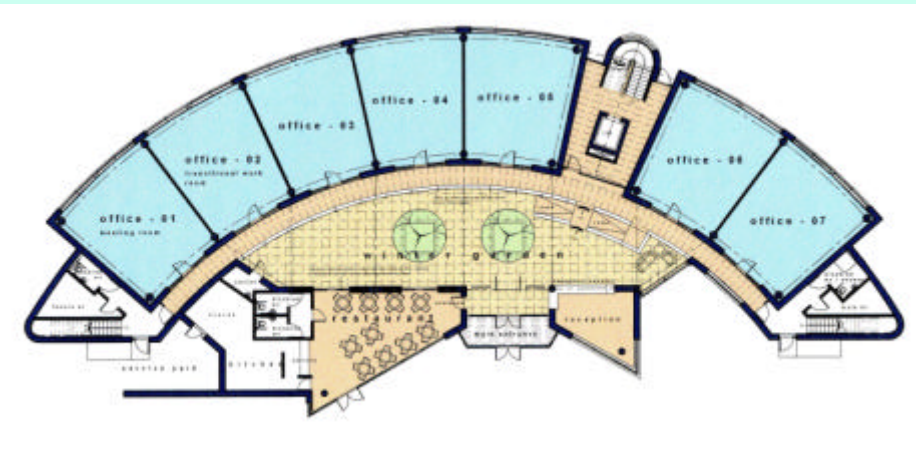


# The E Centre our Head Office we wanted

2000sq.m serviced office accommodation for rent

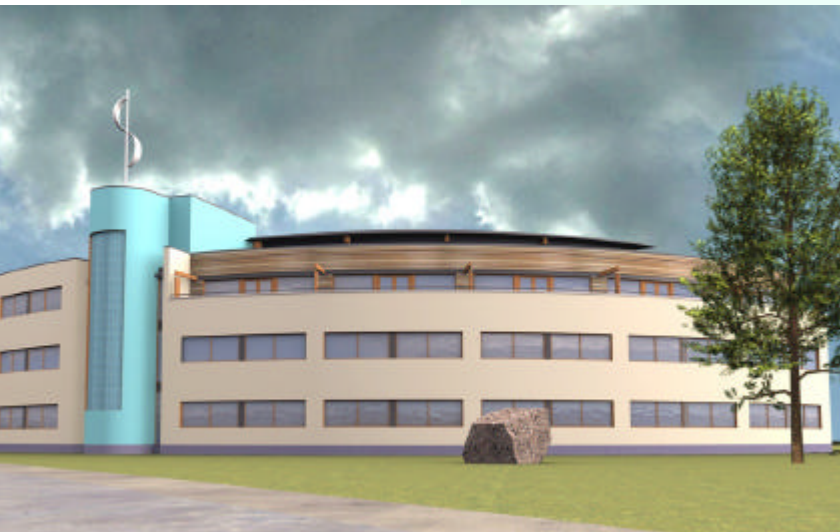
Designed as an exemplar in environmental design

A building which was commercially affordable within the constraints of the business plan.



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**Narrow plan to maximise day lighting**

**Orientation - south facing winter garden which tempers internal climate and provides passive stack ventilation.**

**Low fabric “U” values in excess of building regulations.**

**Using materials throughout with low environmental impact**

**Solar hot water heating**

**Ground source heat pumps to provide heating, cooling and some hot water**

**Wind turbine and Photovoltaics to provide some electrical provision.**

**Rainwater harvesting**

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# Ground Source Solutions



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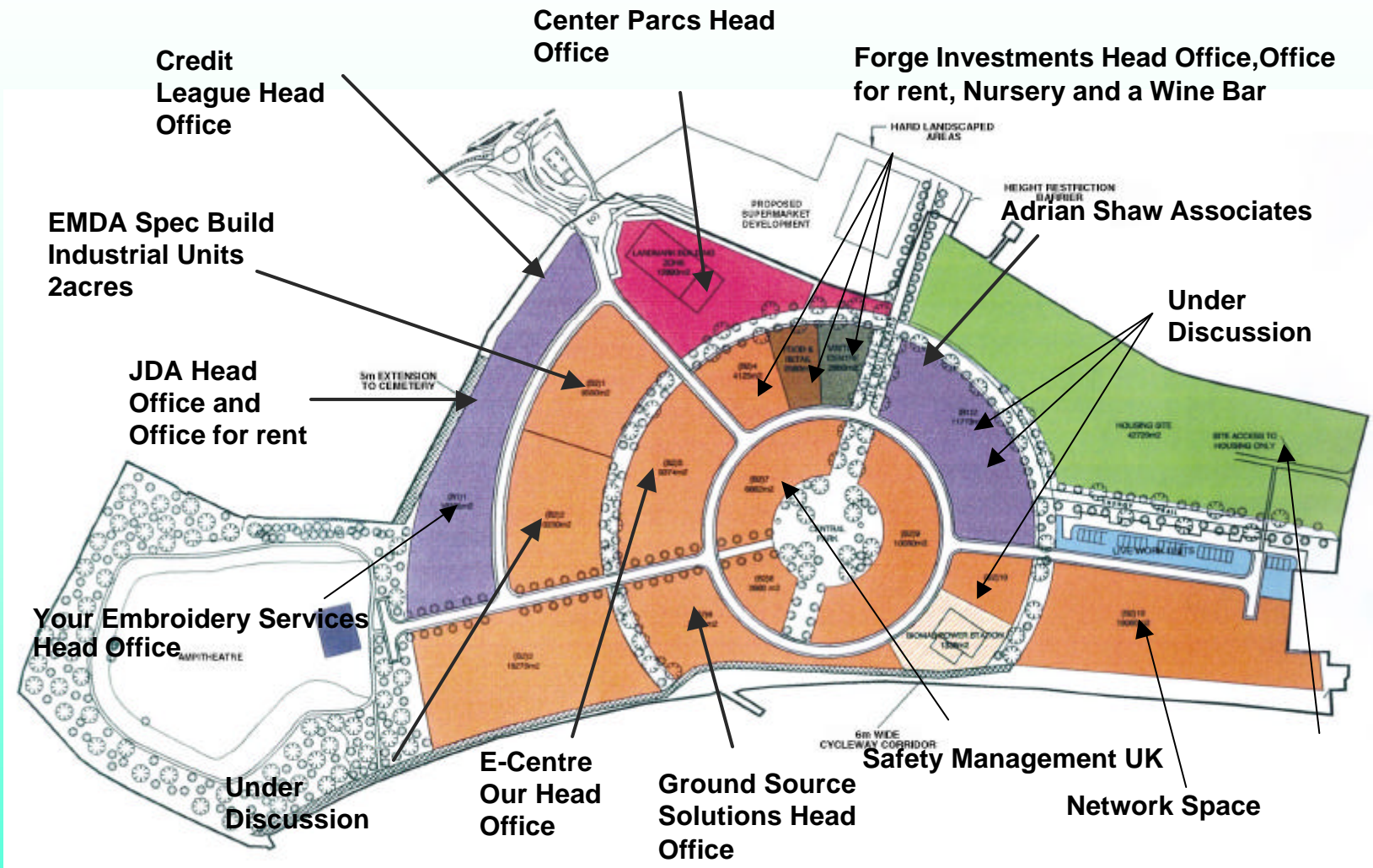


**Adrian Shaw Associates**









**Approximately 160,000 square feet of office space and 90,000 square feet of industrial/commercial space only 2.3 acres left**

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## Housing

86 Houses

11 different House types

ECO Homes Excellent as  
a minimum

Interest from a diverse  
range of people

50 people are on our  
housing database todate



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## What Makes These Buildings Sustainable?



**Built to Eco homes, excellent has a minimum**

**Built to zero heating standards using a range of construction techniques**

**Mixed housing provision providing housing for all sectors of the community.**

**Solar hot water heating where applicable**

**Ground source heating and cooling**

**Rainwater harvesting**

**Not designed every house to be south facing - “not relied on the English weather!”**

**Natural materials sourced locally where possible**

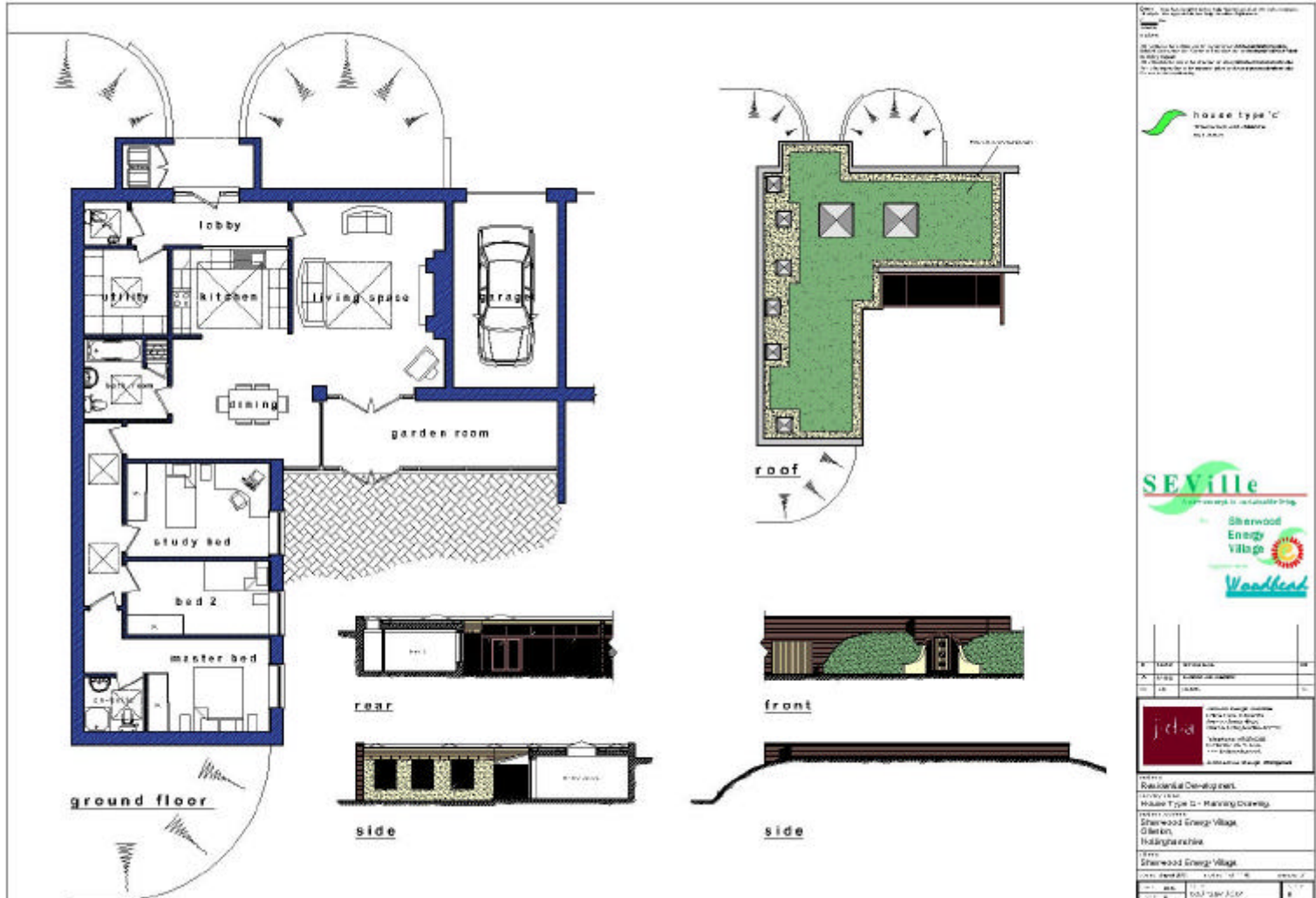
**Natural ventilation**

**Draft lobbies**

**Recycling facilities - internal and external**



# Housing Development – Typical Layout





# Housing Development – Typical Layout



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**Low Carbon Developments can be delivered on a large scale, in a commercial way and with a quality product.**

**The development needs to be addressed holistically and a consistent stance needs to be taken**

**To be Sustainable it has to address three issues, they are Economic, Environmental and Social**

**Its not rocket science.**