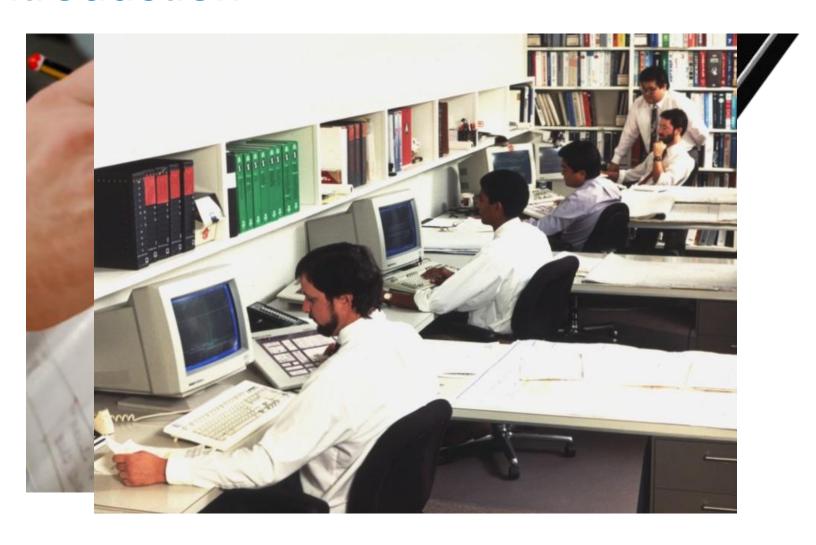


BIM – A House Builder's Perspective

Craig Ferrans – Miller Homes Divisional Design Director



### Introduction





### **Fact Finding**



Bild residue pair in the attrony project have conduct to a lend of lifetimes because the impact for providing in 12 data residue. It is indicated and of challenges of the providing in 12 data residue, the lend of challenges and particular states and particular providing action particular states are displayed providing action particular states are for the conduction of the major action of the conduction of

of 55M with far more eiger than design professionats, who tred

to level flow sustaining, and here failed to persons its dangelow. Malachine, Contractions landed at DRA recibins until immachines undetelerations from social bis using for virtual design static construc-

for (IDC) faster.

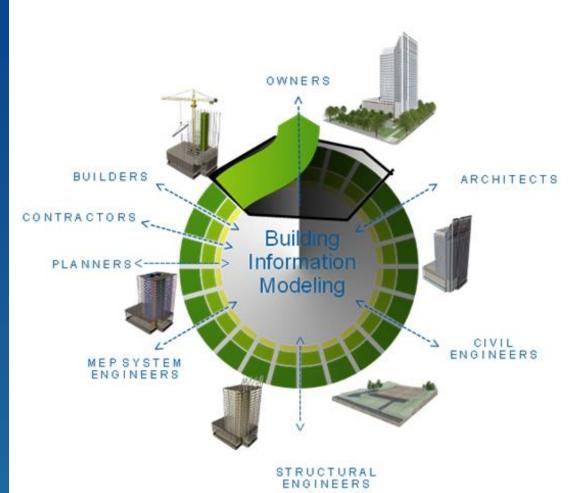


### **Fact Finding**





#### Collaboration







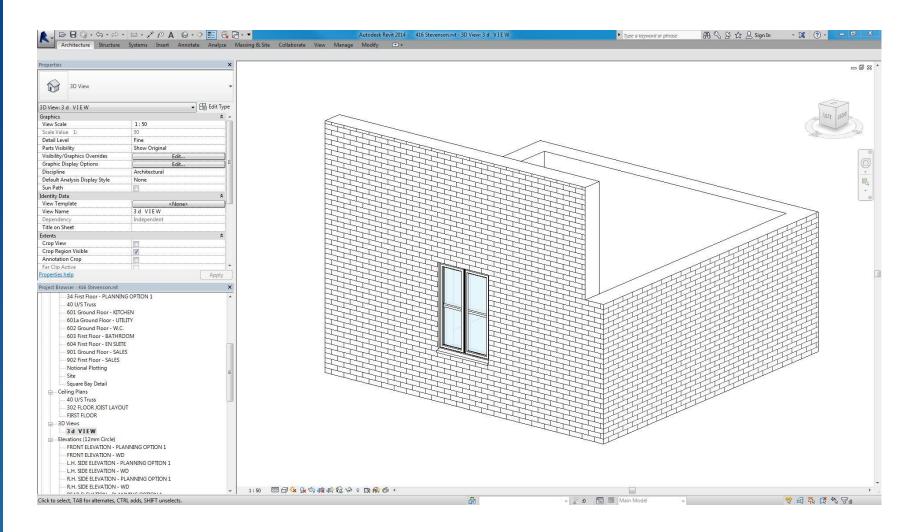


# First impressions





# First impressions





## Building the Business Case

- 4 Main Areas
- Standardisation
- □ Fabric changes
- Procurement support
- Collaboration





# **Updating the Business**





# Setting Out Your Stall





# Costs





#### **Software Costs**

- Revit LT 2014 £1,125 plus £170 1Yr subscription
- ☐ AutoCAD and Revit LT 2014 Suite £1,550 plus £235 1Yr Subscription
- Revit Architecture 2014 £5,100 plus £765 1Yr Subscription
- Building Design Suite (Premium) 2014 £6,200 plus £930 1Yr Subscription
- ☐ Upgrades for existing AutoCAD license's maybe possible

Note that the costs relate to NEW standalone license's and are standard retail prices





# **Training**

- Revit Architecture 2014 Essentials 3 Days £740/person
- □ Revit Architecture 2014 Advanced 1-2 Days £270 £540/person
- ☐ Family Creation 2 Days £540/person
- □ Consultancy Project set up on suite 1 Day £675
- BIM overview session 1-2 hours incl. CPD No Charge







#### Websites



World's Largest How-to Video Site









#### Hardware

the new 5100 Portable Computer

**Key Components** 

- Dedicated graphics cards
- □ Core i7 or Xeon processors
- □ Plenty of RAM
- Good display devices





### Hardware



File size increase from 1.3mb to 60mb



# Myth Busting





# **Terminology**



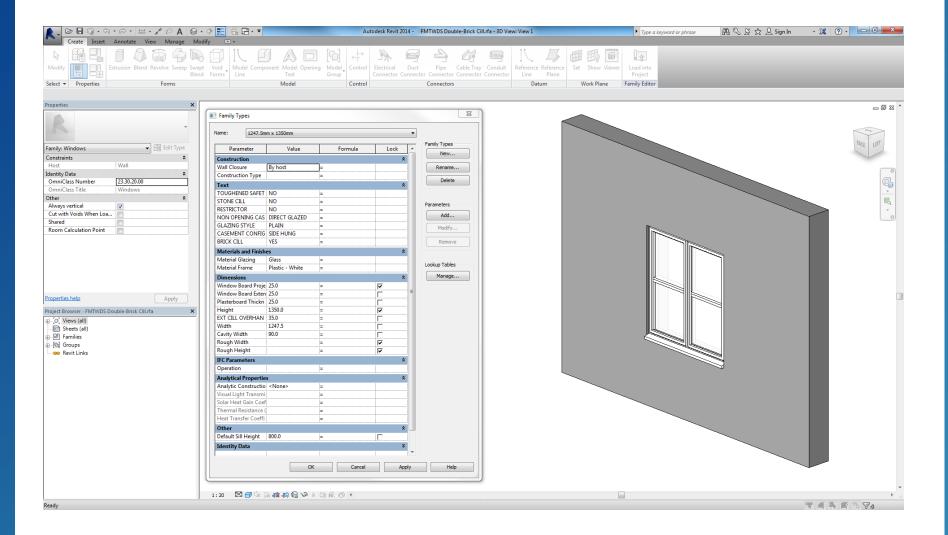


**Blocks** 

Family

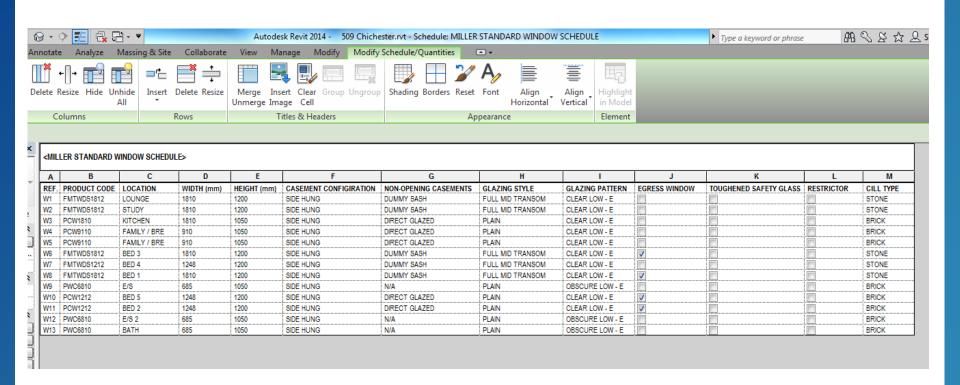


# **Family Creation**



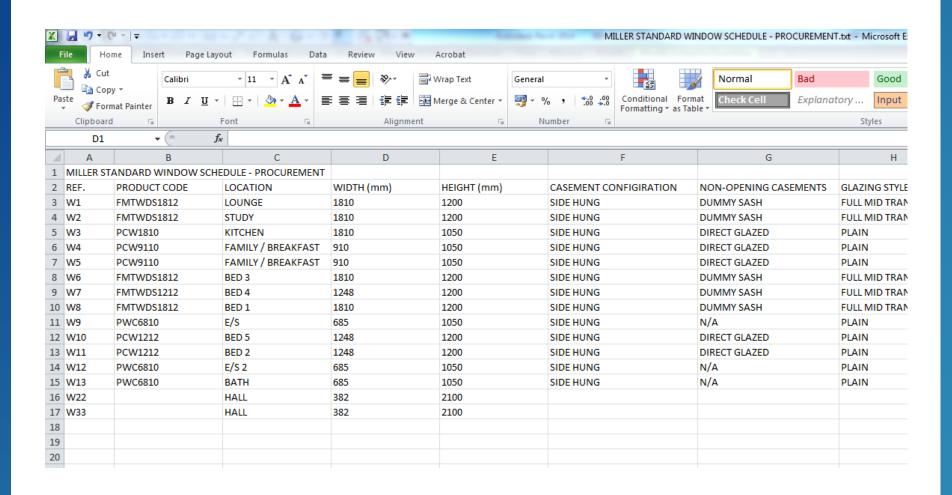


## Scheduling





### Scheduling



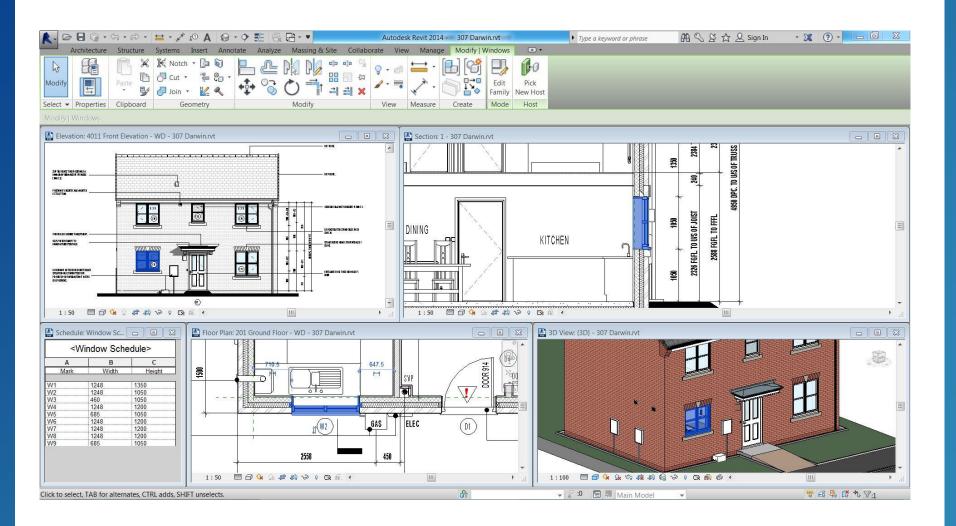


### Think!



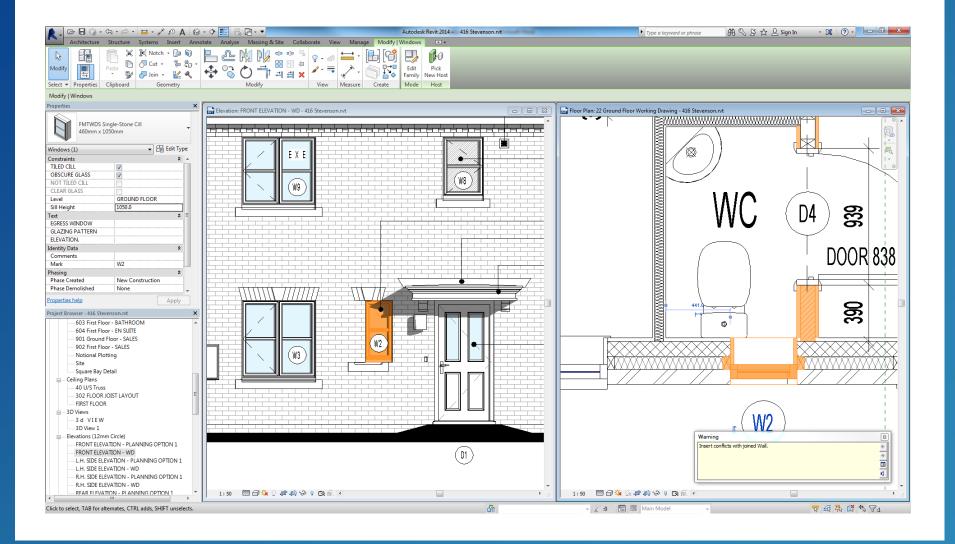


#### Live Views



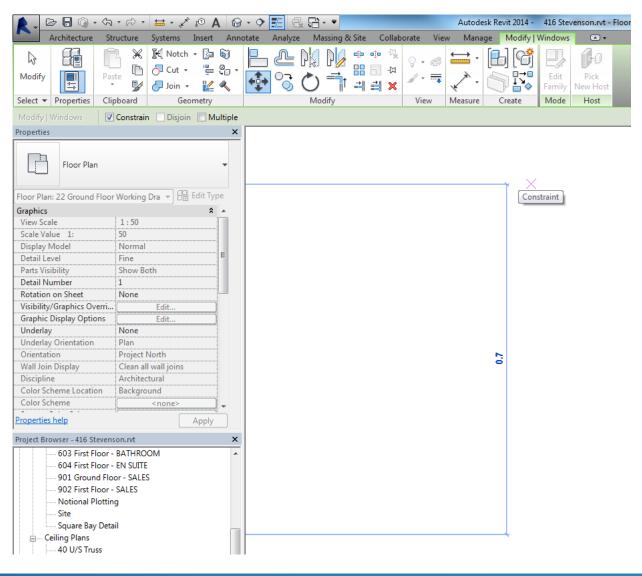


#### Conflicts





#### Constraints



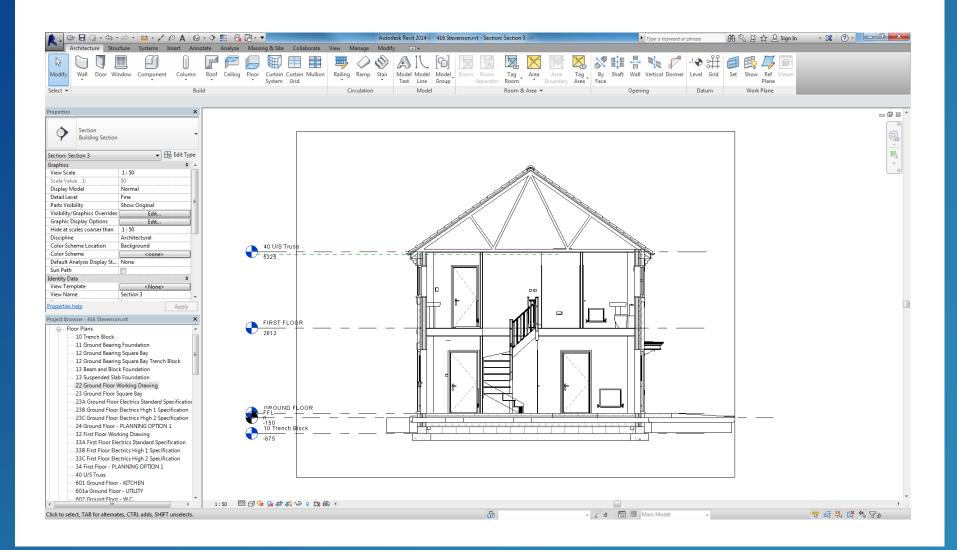


### Constraints



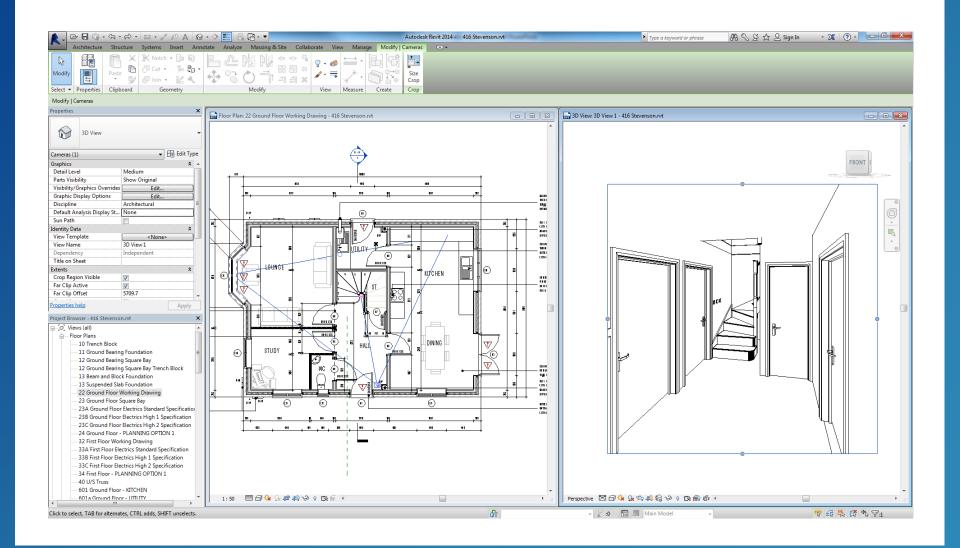


#### Sections



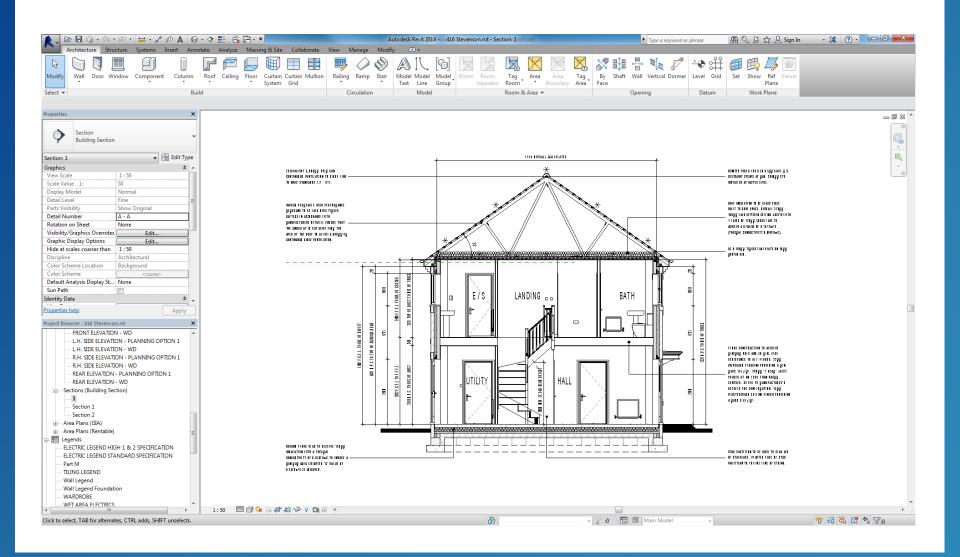


#### Camera Views



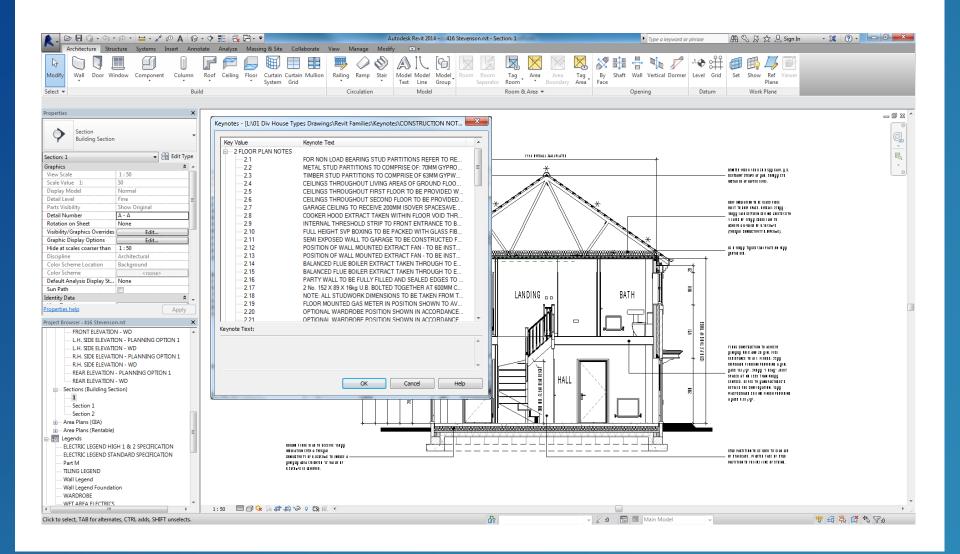


#### **Annotation**



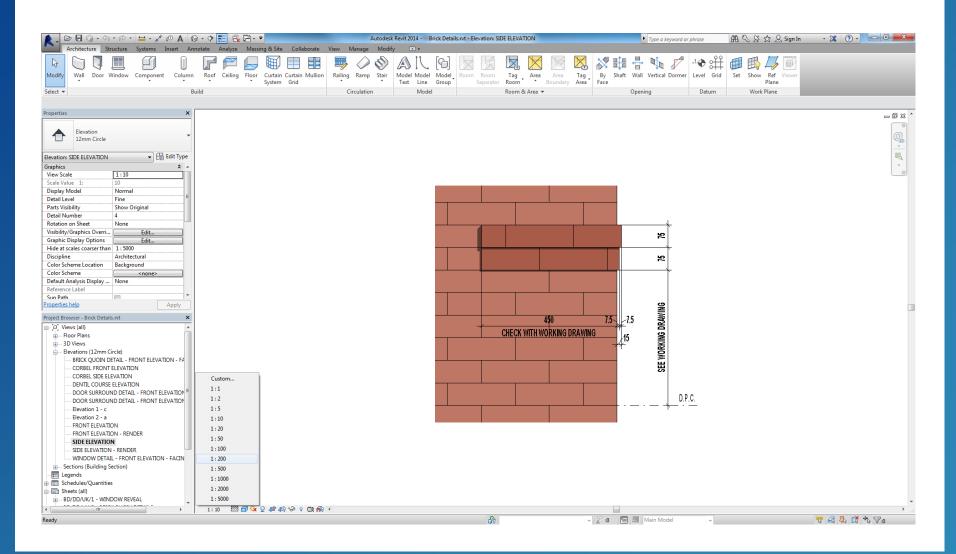


#### **Annotation**



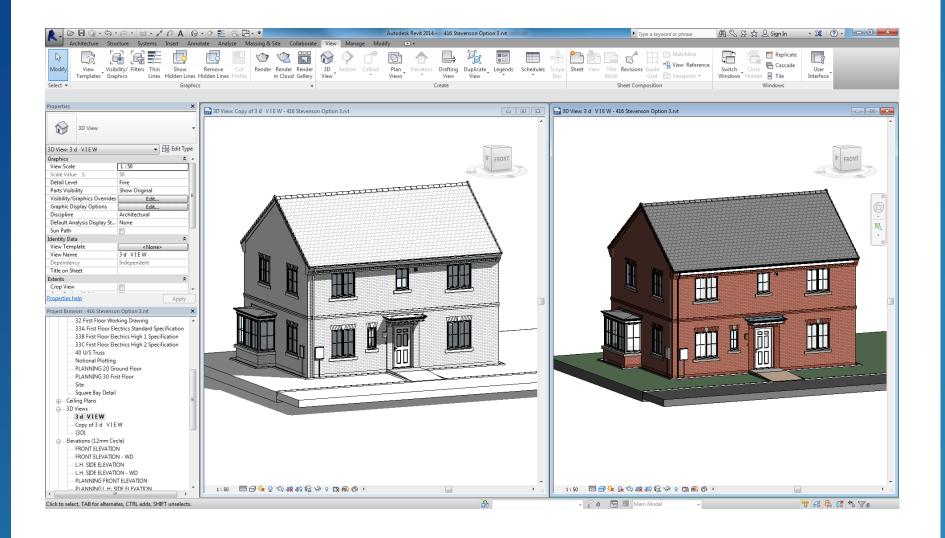


# Scaling





#### CGI's



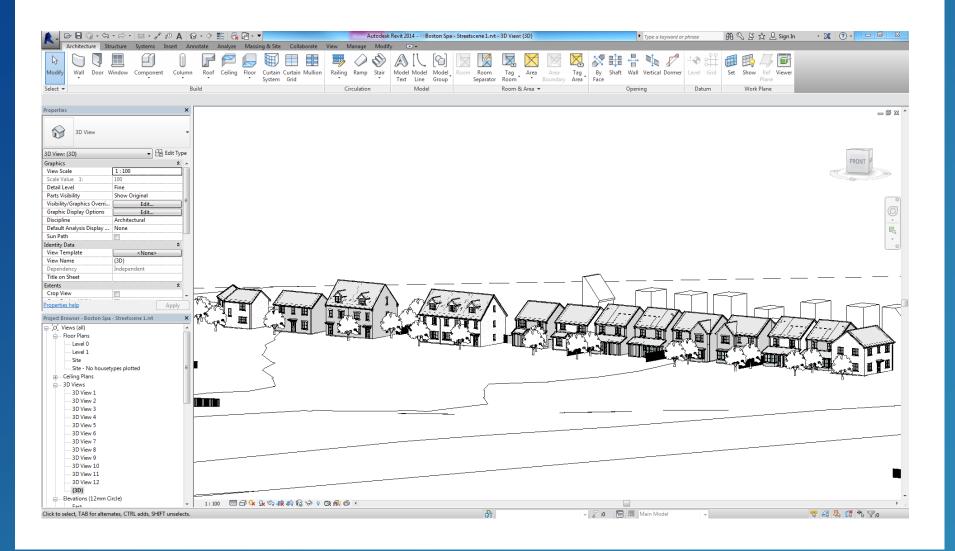


# CGI's





### Site Layouts





#### Street Scenes







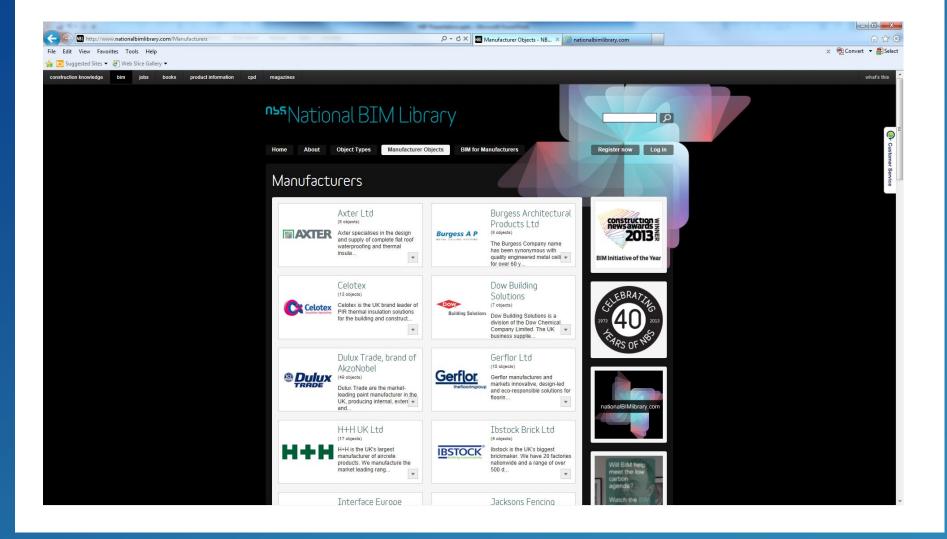


# Supply Chain Involvement



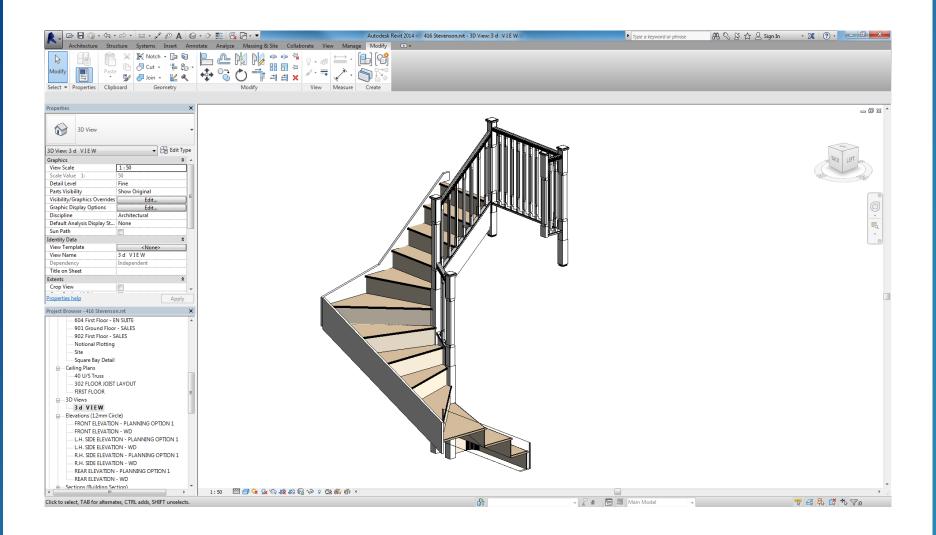


### nbs National BIM Library





### Stair Design





#### Wider Debate

- Initial set up cost
- Reducing error
- Supply chain ready?
- Drawing time reduced
- Training process
- Excellent design tool
- Recruiting Staff
- Consistency
- Collaboration
- Not a one stop shop
- Return to Sender?





# **Helping Charity**







#### Perseverance





### Questions

