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## REFERENCES



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UNIVERSITY OF PRETORIA  
YUNIBESITHI YA PRETORIA

## References

### Books:

1. DOXIADIS, C.A. 1972. *Architectural Space in Ancient Greece*. Translated by Jacqueline Tyrwitt. Cambridge, London, Massachusetts. MIT Press.
2. KENT, S. 1990. *Domestic Architecture and the use of Space*. Cambridge, London. Cambridge University Press.
3. HILLIER, B. 1996. *Space is the machine: A configurational theory of architecture*. Cambridge University Press.
4. AD DESTINATUM 1960 – Gedenkboek van die Universiteit van Pretoria. Johannesburg. Voortrekkers.
5. DEWAR, D. and UYTENBOGAARDT, R. 1991. *South African cities: A manifesto for change*. Cape Town. Mills Litho (Pty) Ltd.
6. PEARSON, M and RICHARDS, C. 1994. *Architecture and Order: Approaches to Social Space*. London. TJ Press.
7. CHILDE, V. 1956. *Society and Knowledge*. Westport, USA. Greenwood Press.
8. VERGES, M. 2007. *Light in architecture*. New York. Tectum Publications.
9. VAN BEBBER, B, VAN DYK, W, CARROL, L, BOER, L. 2008. *Boogertman and Partners: Past Current Future*. Johannesburg. 4 Images (PTY) Ltd.
10. CHAPMAN, T. 2005. *Architecture 05: The guide to the RIBA awards*. London. Merrel Publishers.
11. PAPANEK. V. 1995. *Green Imperative*. Thomas and Hudson. London
12. CHING, F. 1996. *Architecture: Form, Space and Order*. Van Nostrand Reinhold. New York.
13. CHING, F. 1996. *Building Construction Illustrated*. Van Nostrand Reinhold. New York.
14. NAPIER. A. 2000. *Enviro Friendly methods in small building design for South Africa*. Published by Author.
15. HEIDEGGER, M. 1996. *Building Dwelling Thinking: Martin Heidegger Basic Writings*. Edited by David Farrell Krell. London. Cambridge University Press.
16. ALEXANDER, C. 1964. *Notes on the Synthesis of Form*. Harvard University Press. Massachusetts.
17. WEGELIN, H W. 2006. *The craft of building: Volume 1*. Published by author.
18. WEGELIN, H W. 2006. *The craft of building: Volume 2*. Published by author.

### Articles:

1. STEPHENS, S. 2006. *Pedestrian bridges: Iconic connections*. Architectural Record. Volume 192/6. pp.247-270.
2. HART, S. 2004. *Architectural Technology: Architects discover the bridge*. Architectural Record. Volume 192/6. pp.279-286
3. BROOKES, A. 2002. *Design Review: Bridging disciplines*. Architectural Review. Volume 211/1261. pp.38-39

4. SLESSOR, C. 1996. *Light Curve: Timber connections*. Architectural Review. Volume 199/1189. pp54-61.
5. SLESSOR, C. 1998. *Singular suspension*. Architectural Review. Volume 203/1211. pp74-76.
6. TALARICO, W. *Crossing safely to the other side*. Architectural Review. Volume 188/3. pp149-160

### **Internet References:**

1. Architectural space. 2007. [http://en.wikipedia.org/wiki/space/In\\_Philosophy](http://en.wikipedia.org/wiki/space/In_Philosophy) (03-03-2008)
2. Space. 2008. <http://en.wikipedia.org/wiki/space> (03-03-2008)
3. Rentable studios. 2008. <http://www.aestudios.com> (31-03-2008)
4. Gallery exhibitions. 2008. <http://www.hangargalleries.com> (03-04-2008)
5. Correct art restoration. 2008. <http://www.santamonicaart.com> (28-02-2008)
6. Art storage. 2008. <http://reservevault.com> (26-08-2008)
7. Artist Proof Studio. 2008. <http://www.aps.co.za> (03-04-2008)
8. Art restoration. 2008. <http://www.artforum.au> (03-04-2008)
9. Gallery. 2008. <http://www.greatbuildings.com> (05-08-2008)
10. Traffic noise pollution. 2008. <http://www.highwaysagency.co.uk> (22-09-2008)
11. Noise calculator. 2008. <http://www.engineeringtoolbox> (04-06-2008)
12. Pedestrian bridges. 2008. <http://www.archrecord.com> (28-08-2008)
13. Zaha Hadid bridge pavillion. 2008. <http://www.designmag.co.uk> (22-09-2008)
14. Expanded metal. 2008. <http://www.gsdmaterials.com> (15-10-2008)
15. Fire Protection. 2008. <http://www.wormaldfire.co.uk> (30-09-2008)

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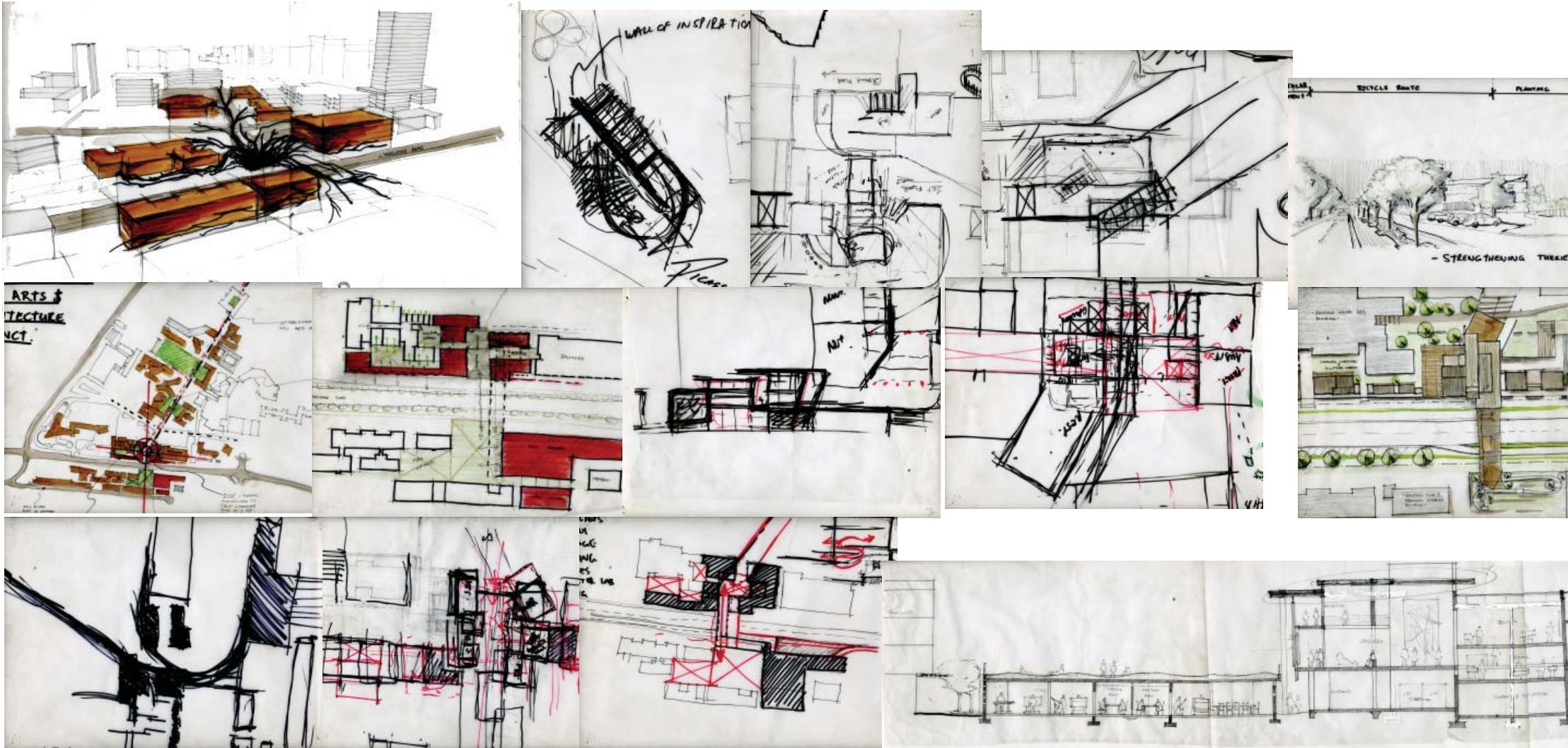


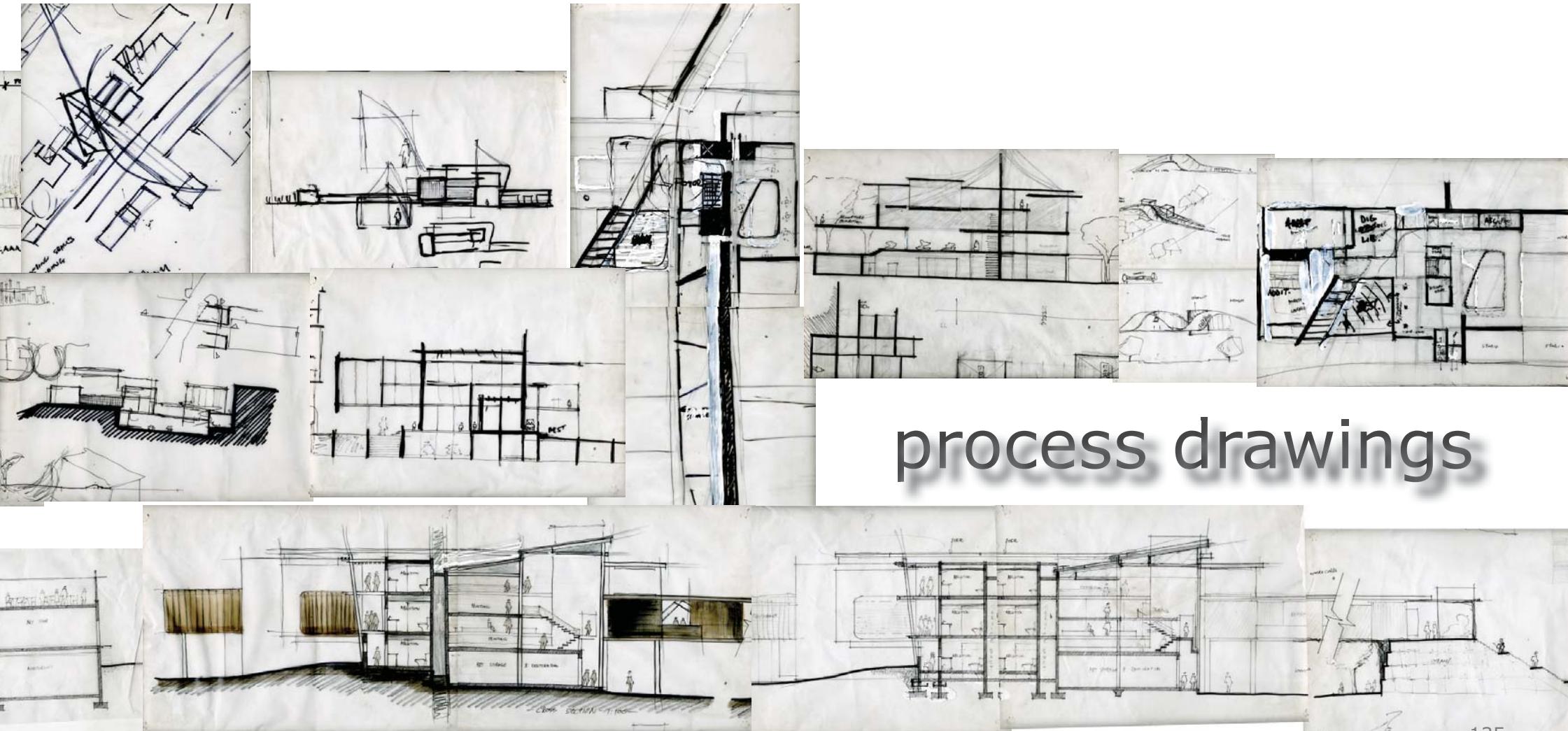
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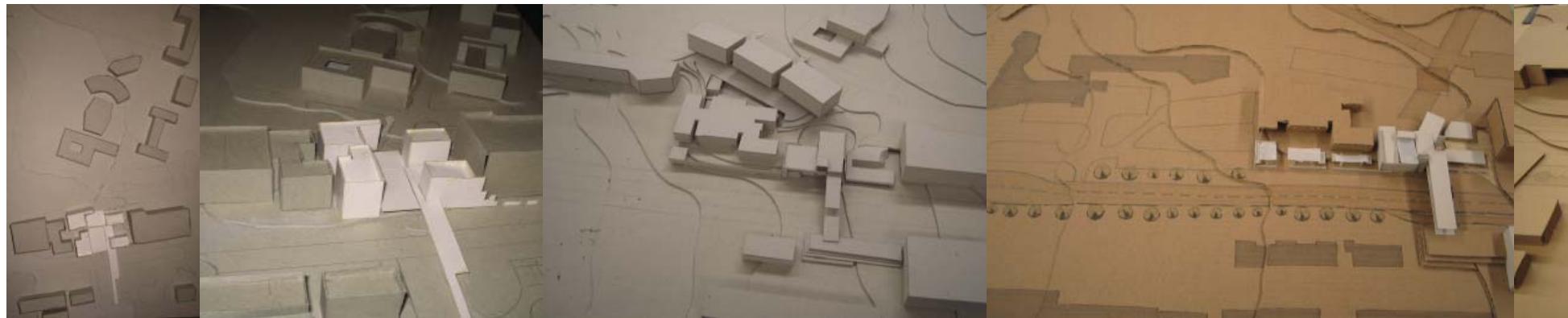


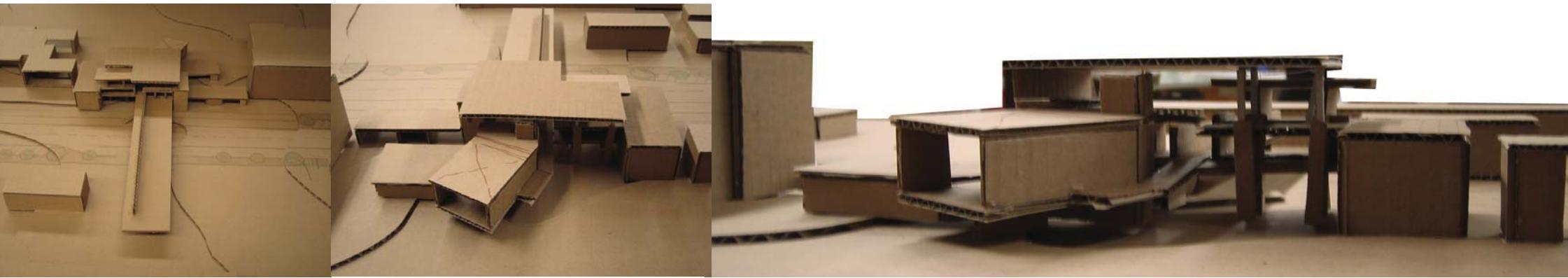
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