

Conserve and Revitalize Heritage

From 1990 till 2010 towards 2020

David Fung

Registered Architect

AIAB Chairman

HKIBIM, Vice Chairman

COMMUNICATION

80s

90s

00s

10s

20s

Vancouver Manufacturing
9102 NW 99th Street, Vancouver, Washington 98665
(800) 555-1212 – www.example.com

September 25, 2005

Mr. John Taylor
Director of Operations
ABC Corporation
100 E Main Street
Vancouver, WA 98685

Dear Mr. Taylor:

As our new letterhead indicates, we have recently changed the name of our business from Fort Vancouver Manufacturing to Vancouver Manufacturing.

There has been no change in management and we will be providing the same products and fine service on which we have built our reputation in the industry. We would appreciate it if you would bring this announcement to the attention of your accounts payable department and direct them accordingly.

Thank you for being one of our valued customers. We appreciate your cooperation in this matter.

Al Olsen
President, Vancouver Manufacturing

3 – 4 Days

COMMUNICATION

80s

90s

00s

10s

20s



1 Day

COMMUNICATION

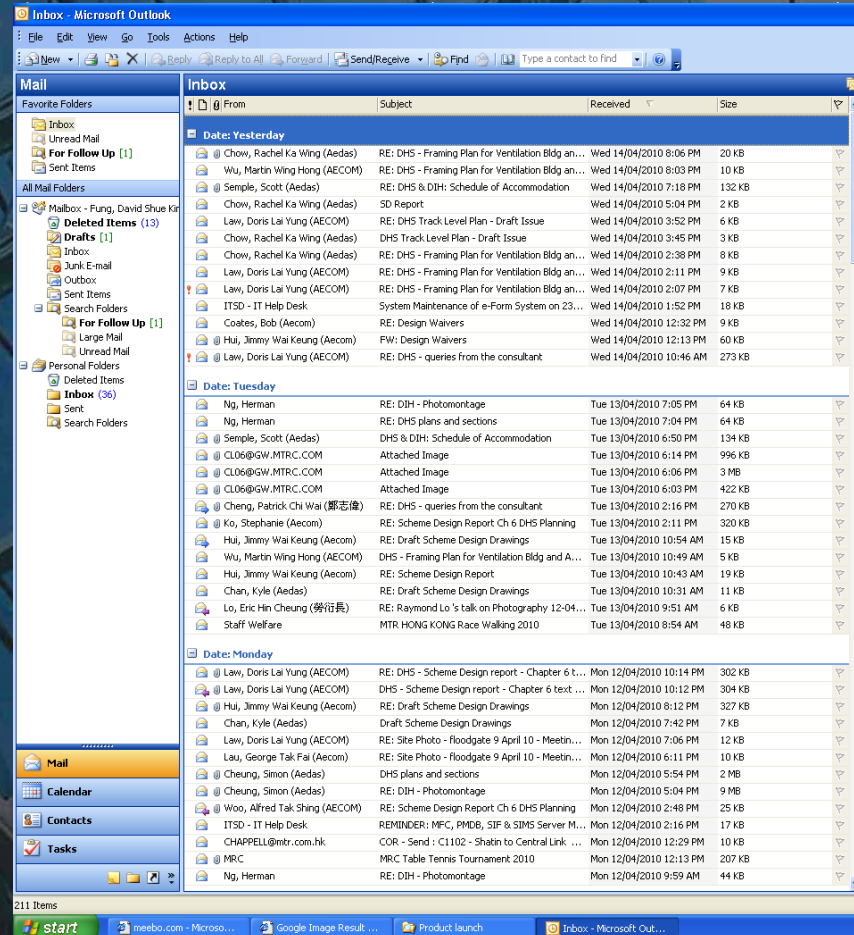
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90s

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Hours

COMMUNICATION

80s

90s

00s

10s

20s



Mins

COMMUNICATION

80s

90s

00s

10s

20s



ENTERTAINMENT

80s

90s

00s

10s

20s



Walkman

ENTERTAINMENT

80s

90s

00s

10s

20s



Disc Man

ENTERTAINMENT

80s

90s

00s

10s

20s



Mini Disc

ENTERTAINMENT

80s

90s

00s

10s

20s



MP3

ENTERTAINMENT

80s

90s

00s

10s

20s



Personal Entertainment Centre

ENTERTAINMENT

80s

90s

00s

10s

20s



HARDWARE

80s

90s

00s

10s

20s



Apple II

HARDWARE

80s

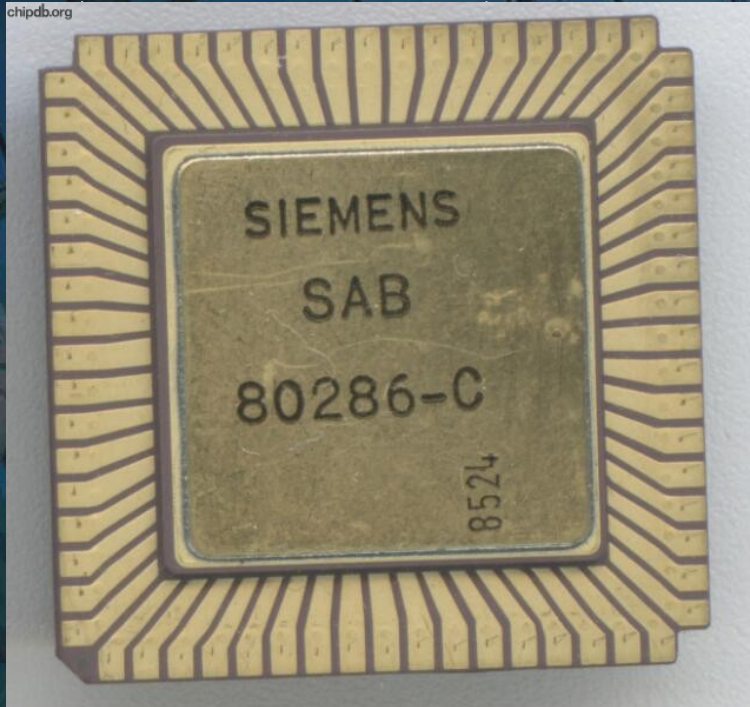
90s

00s

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20s

chipdb.org



8086 XT, 80286 AT

HARDWARE

80s

90s

00s

10s

20s



Apple Macintosh

HARDWARE

80s

90s

00s

10s

20s



Windows 3

HARDWARE

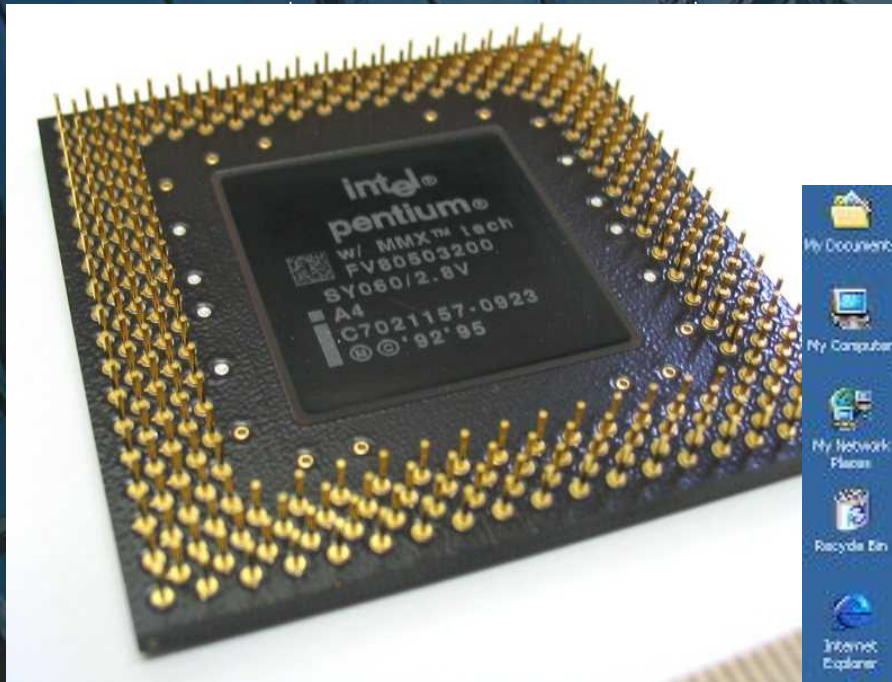
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Pentium, Window 95, 98, ME, 2000

HARDWARE

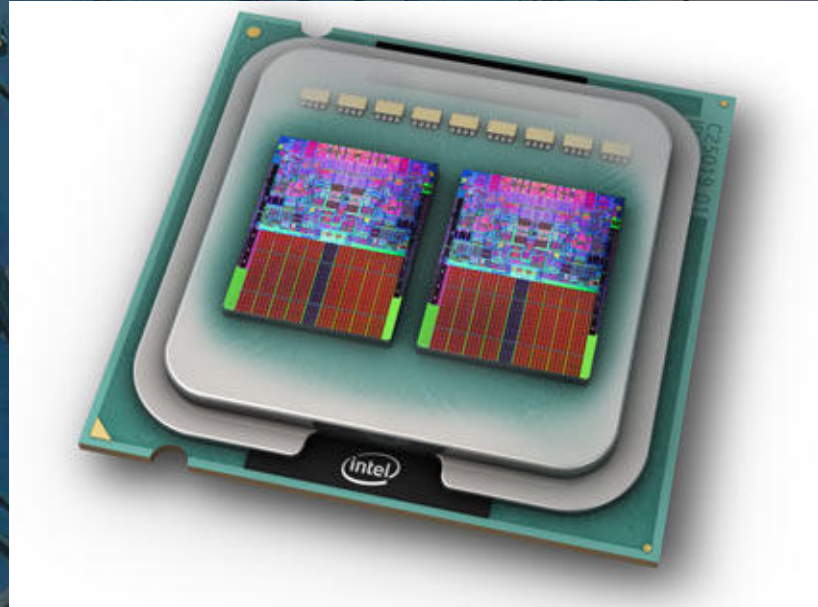
80s

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Multi core

HARDWARE

80s

90s

00s

10s

20s



SOFTWARE

80s

90s

00s

10s

20s



Drafting Machine

SOFTWARE

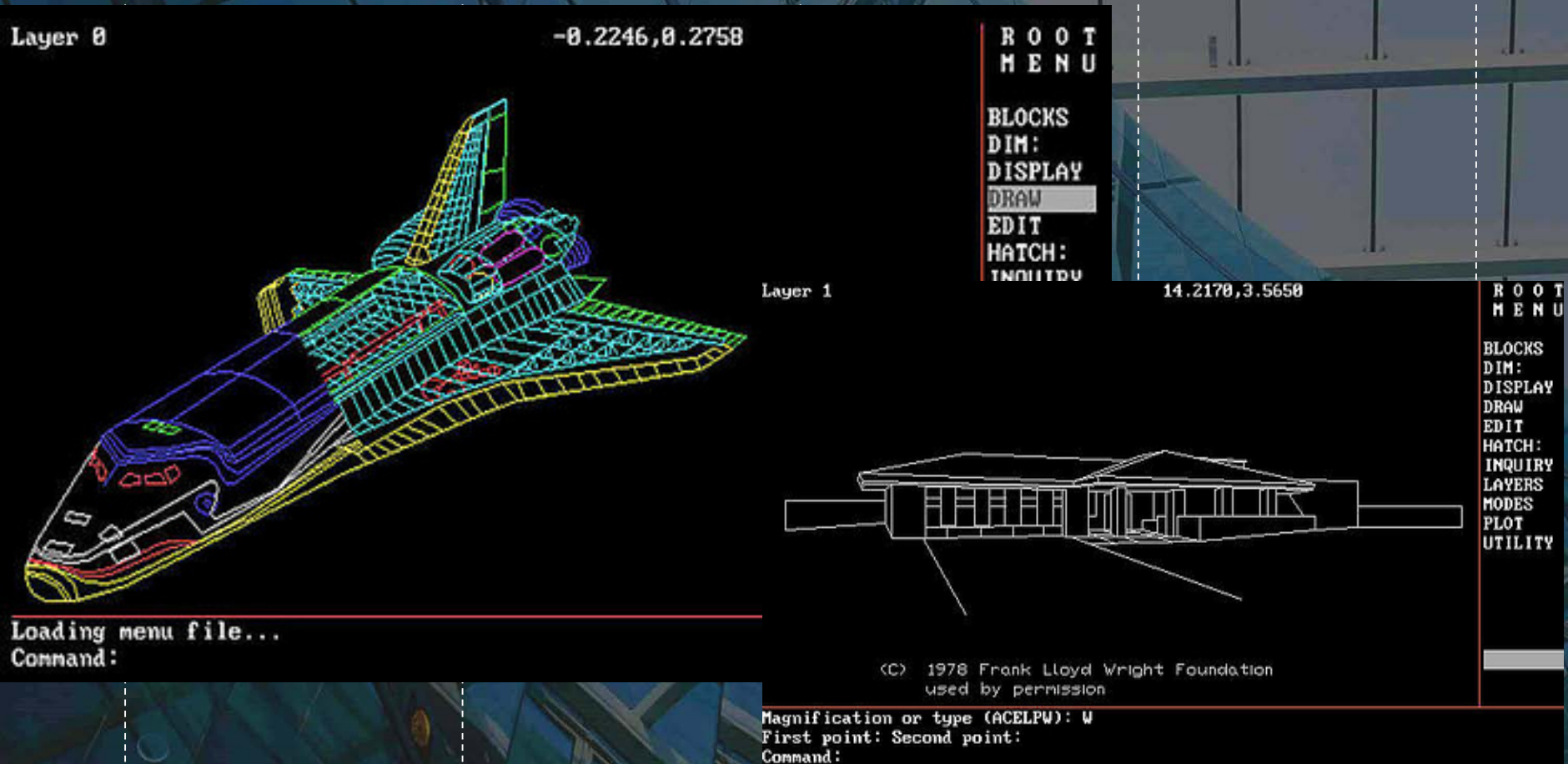
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AutoCAD 2

Most Frequently used command?
COPY, MOVE, ROTATE, DELETE

SOFTWARE

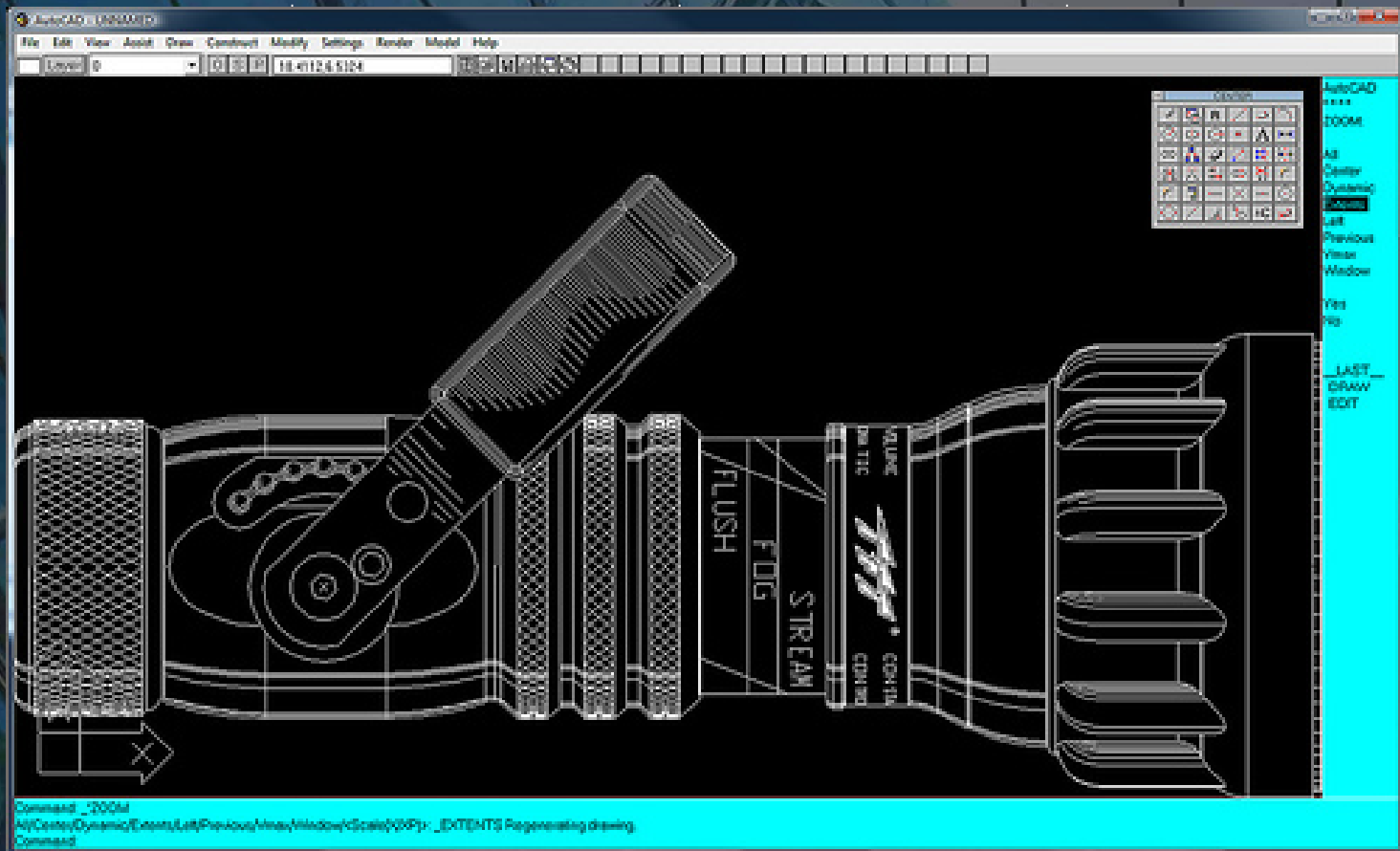
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AutoCAD 14

Most Frequently used command?
COPY, MOVE, ROTATE, DELETE

SOFTWARE

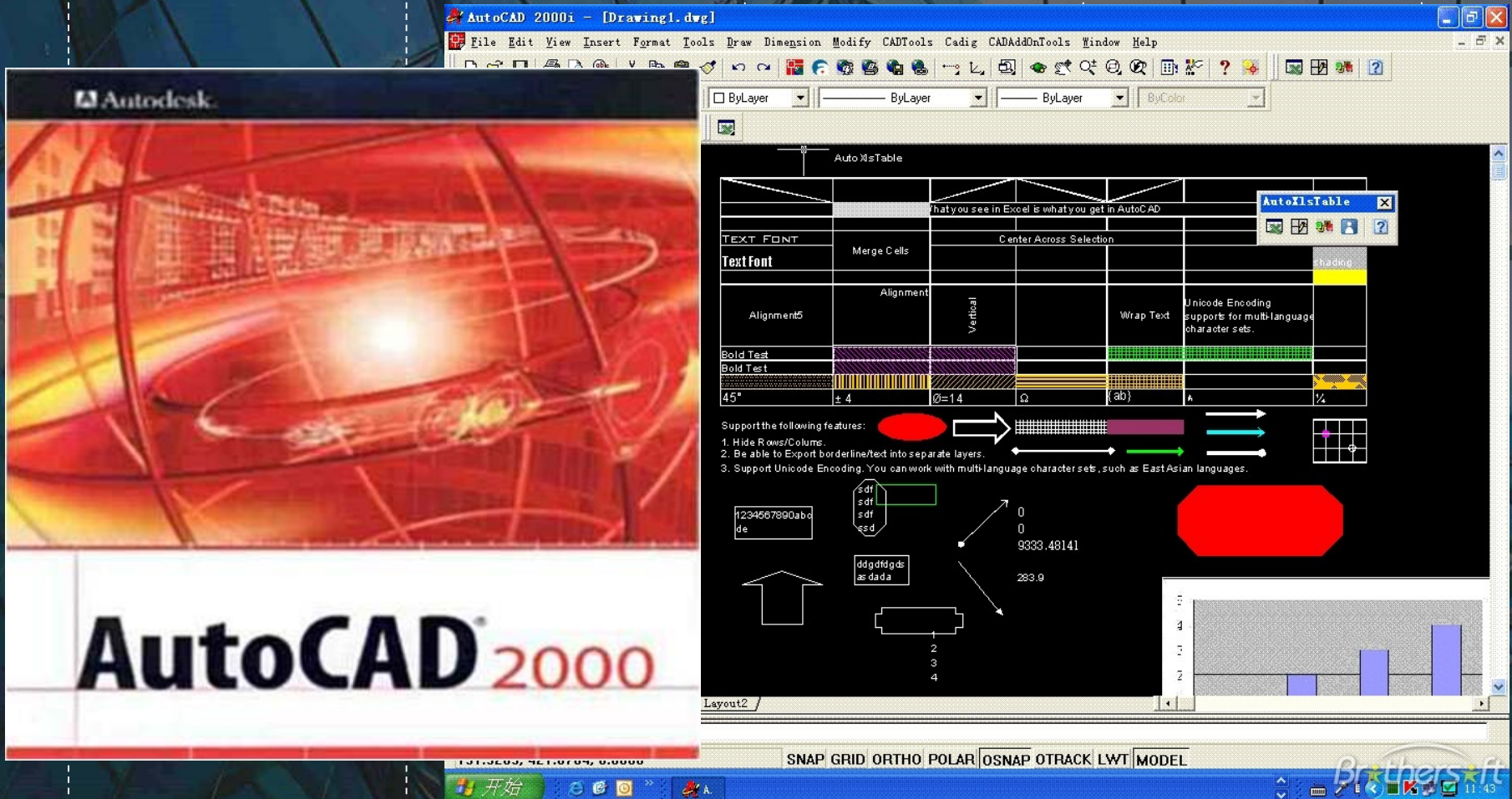
80s

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AutoCAD 2000

Most Frequently used command?
COPY, MOVE, ROTATE, DELETE

SOFTWARE

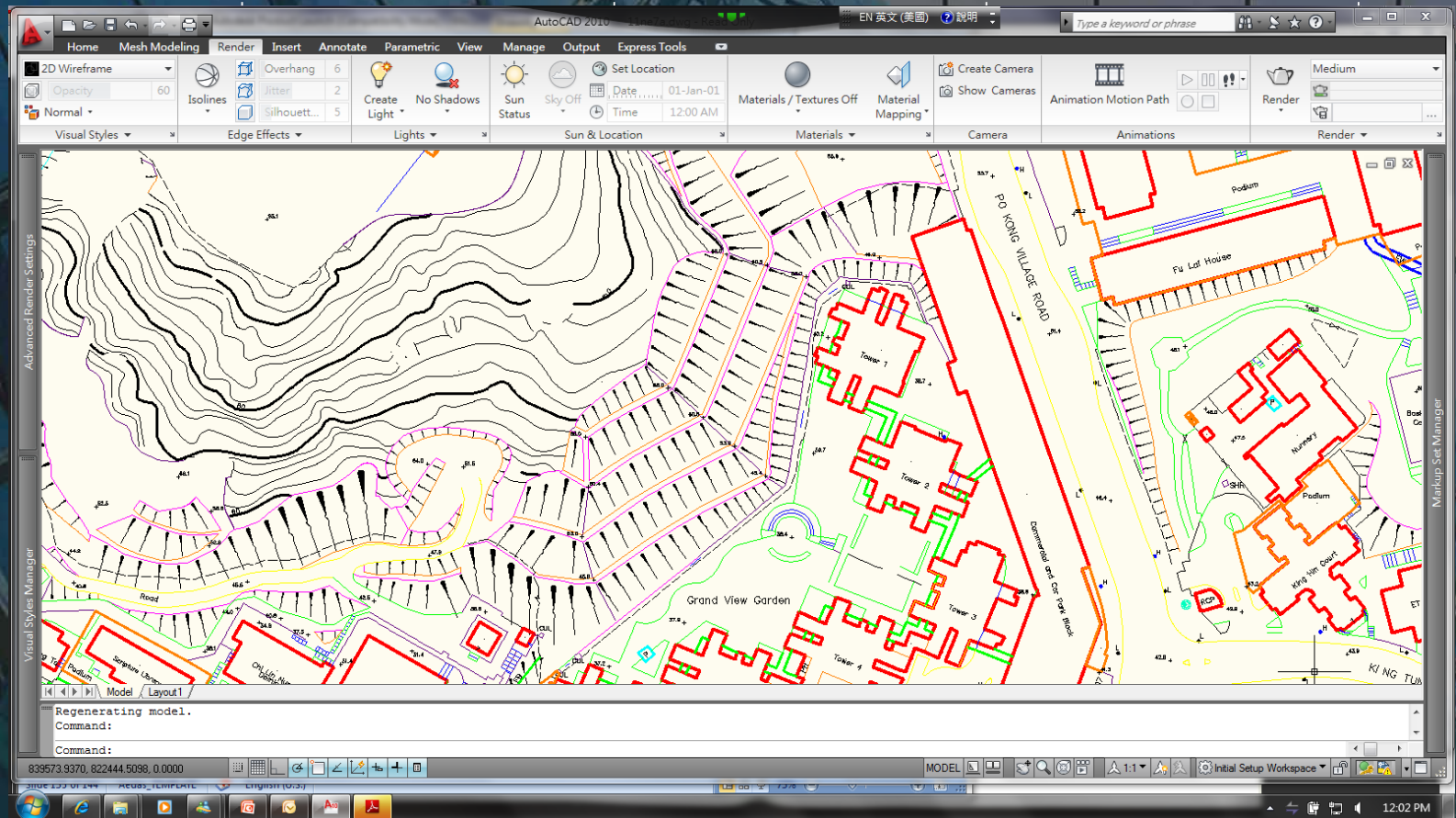
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AutoCAD 2010

Most Frequently used command?
COPY, MOVE, ROTATE, DELETE

VISUALIZATION & PRODUCTION

80s

90s

00s

10s

20s

BIM?

CONSERVATION

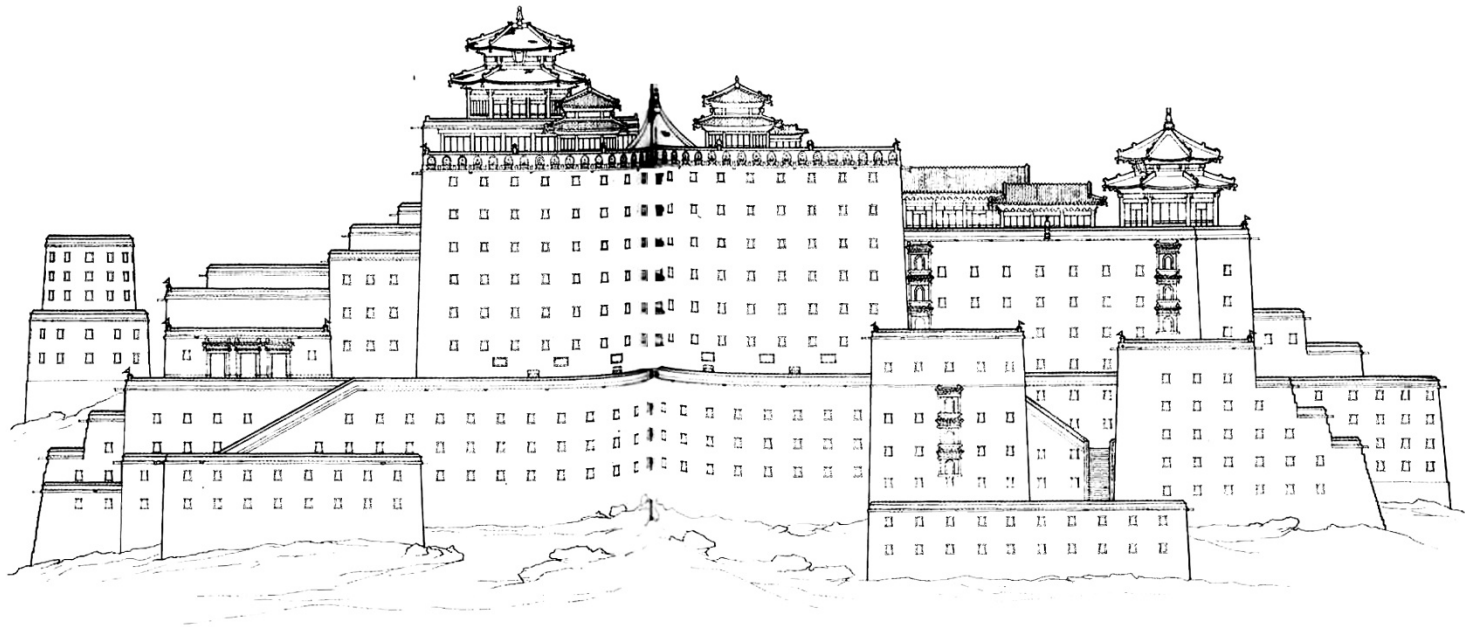
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天津大学古建筑测绘队 1953

承德普陀泉廟大紅台南立面图

比例尺 1:100
1953.12.22

筆墨线, 1954

CONSERVATION

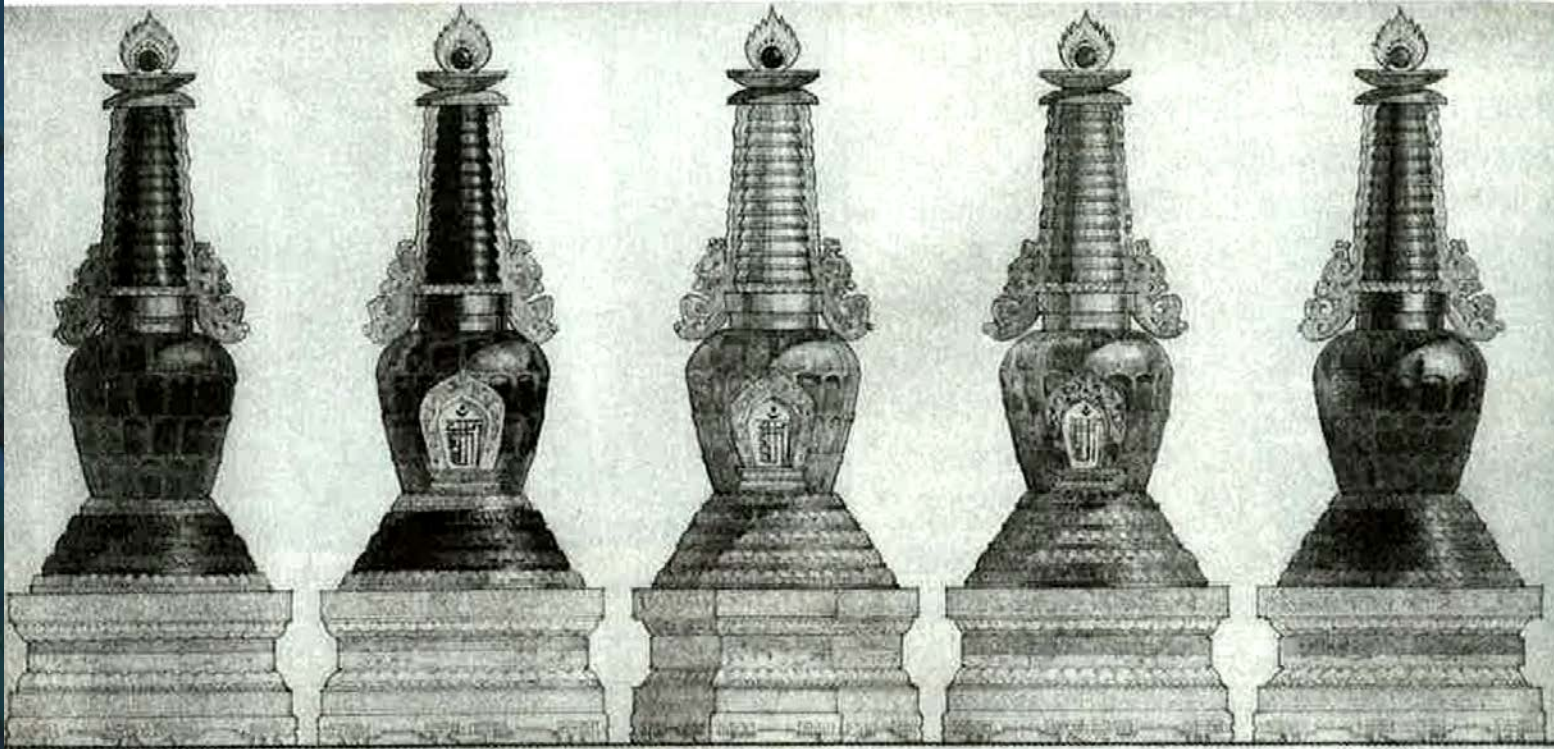
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晋乐寺阁城喇嘛塔，水彩渲染, 1954

CONSERVATION

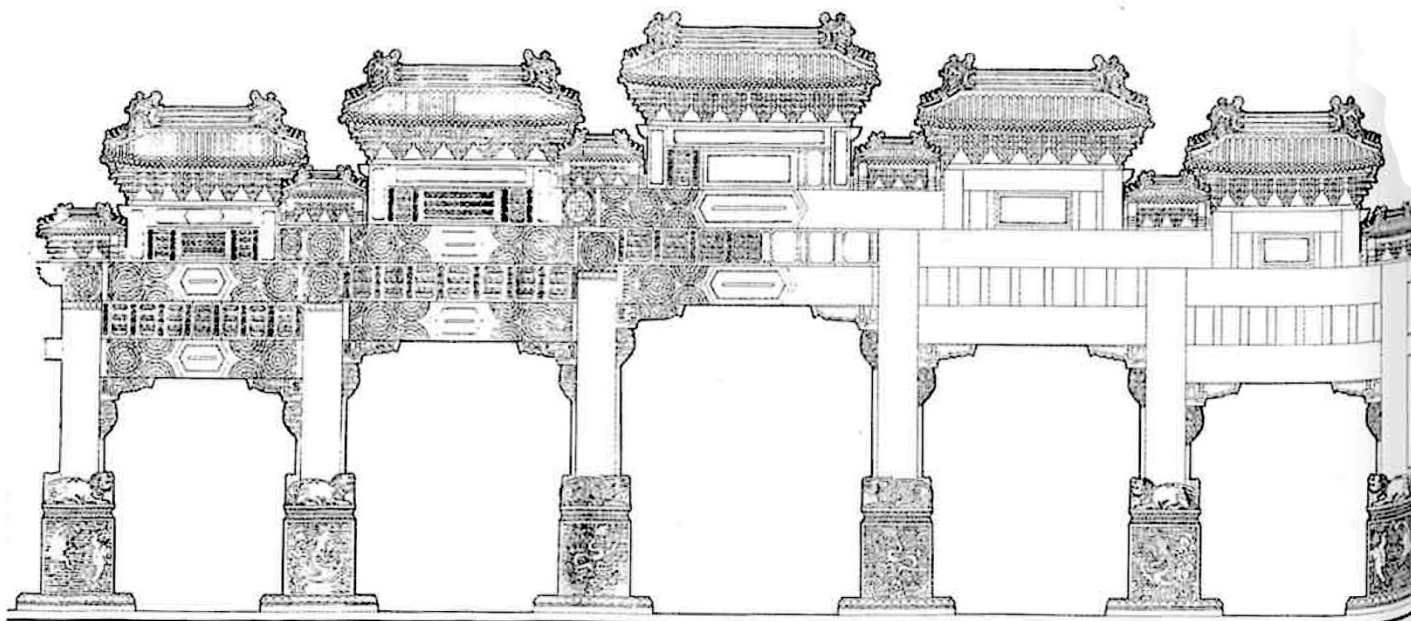
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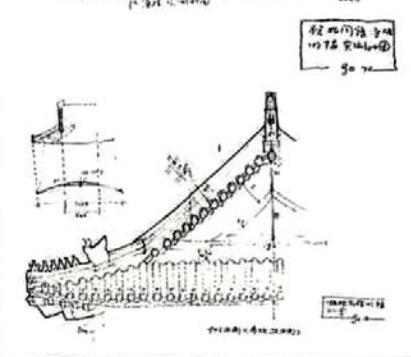
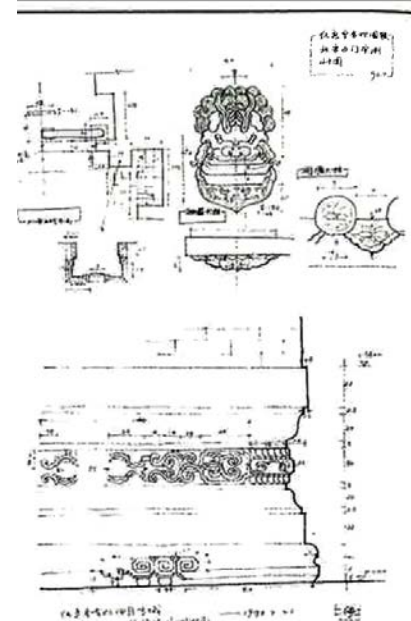
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孝陵石牌坊正立面，钢笔墨线，1990



裕陵妃园寝测稿，铅笔草图，1990

CONSERVATION

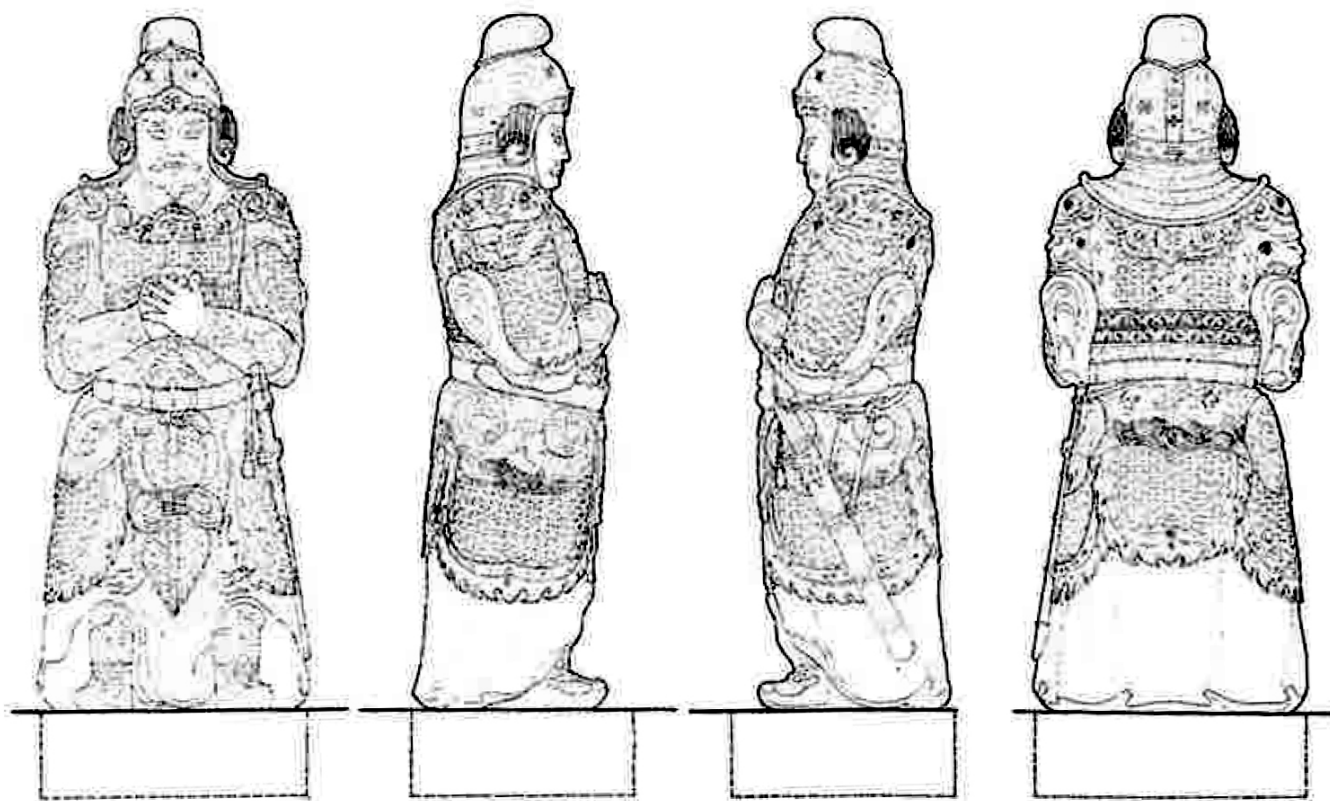
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长陵武士大样，钢笔墨线，1992

CONSERVATION

80s

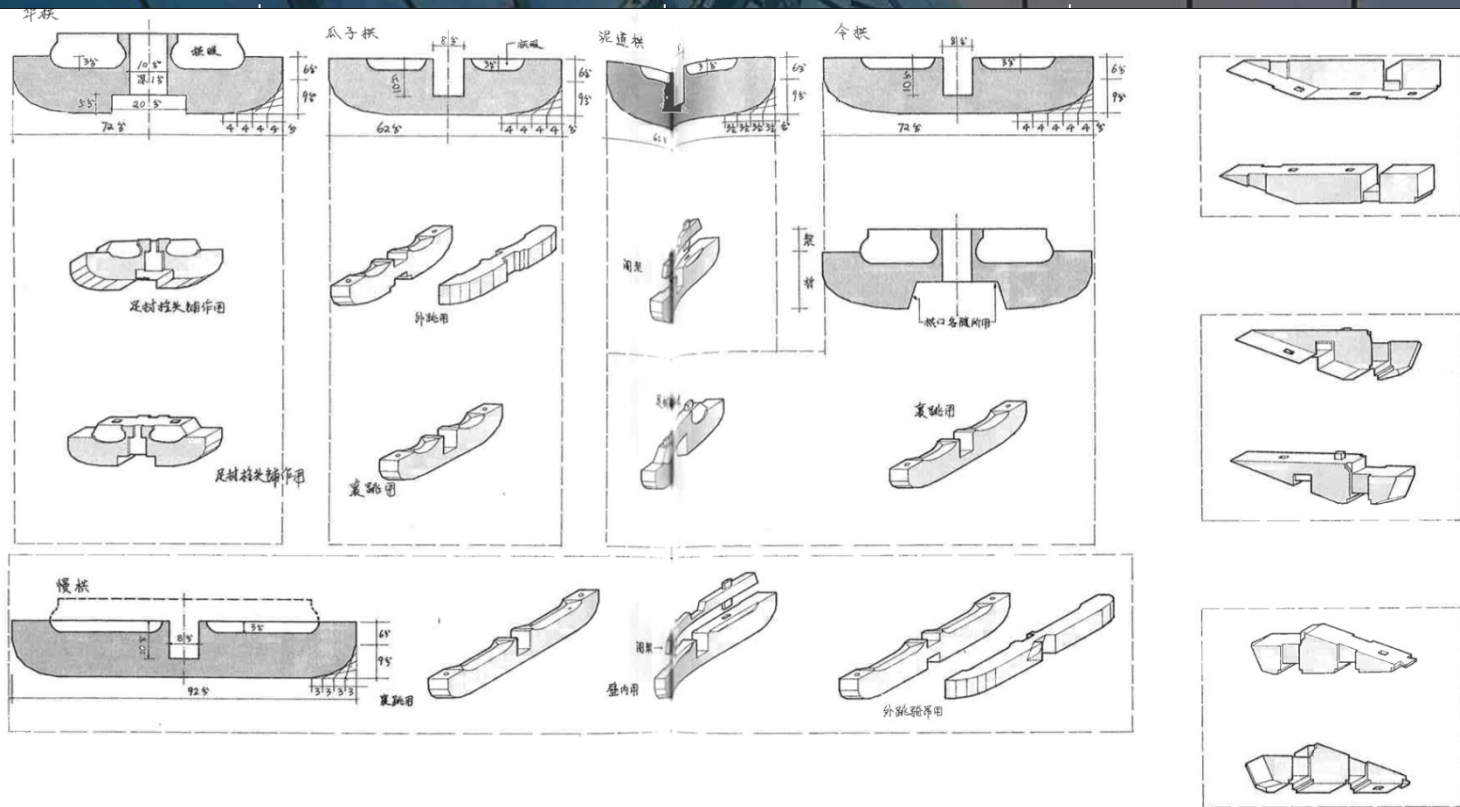
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村落：浙江花坦



CONSERVATION

80s

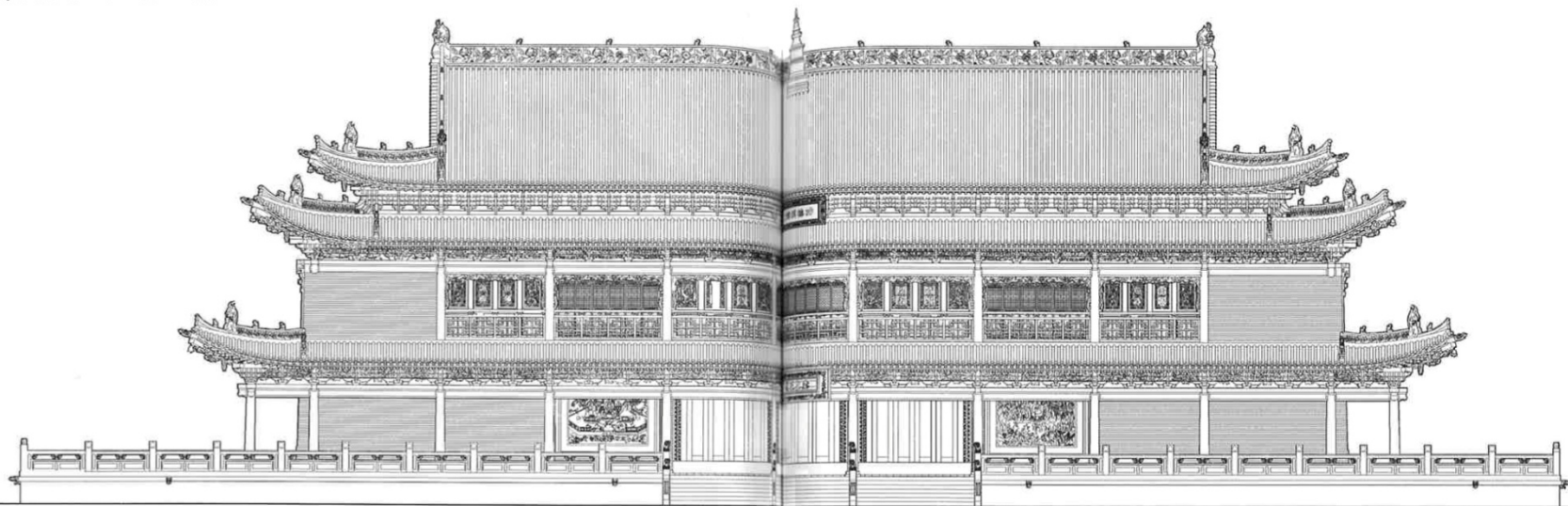
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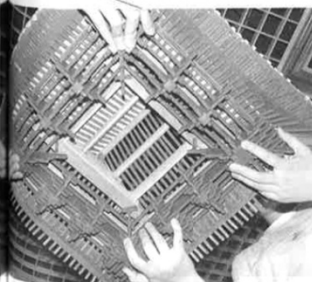
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甘肃张掖大佛寺、永登鲁土司衙门

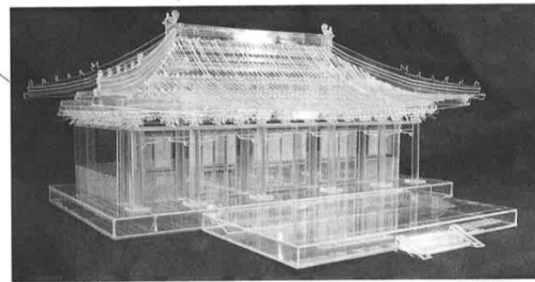


大佛寺大佛殿正立面图，计算机绘图，2000

左起 1、2、3 为 2003 级本科生依据 1999 级孔庙测绘图制作的碑亭模型，照片，2005



2002 级本科生依据 2001 级颜庙测绘图制作的杞国公殿模型，照片，2004



CONSERVATION

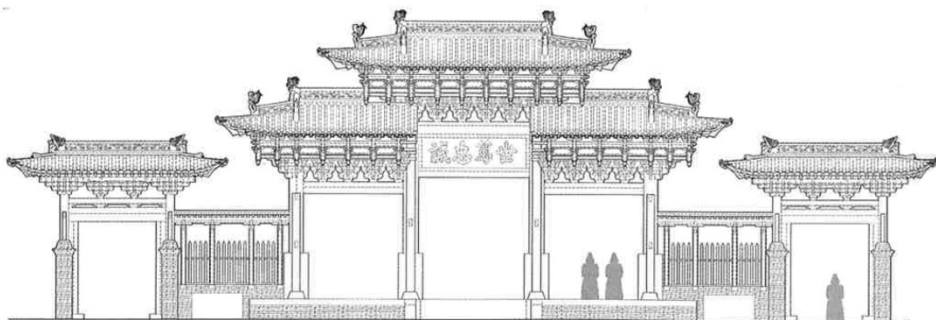
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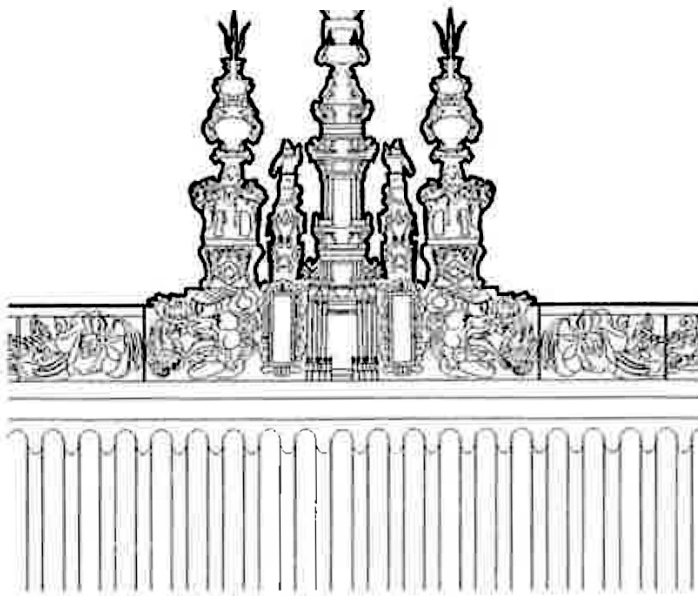
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鲁土司衙门世笃忠诚牌坊正立面图，计算机绘图，1999



屋脊细部，计算机绘图，2004



CONSERVATION

80s

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POINT CLOUD SURVEYING



CONSERVATION

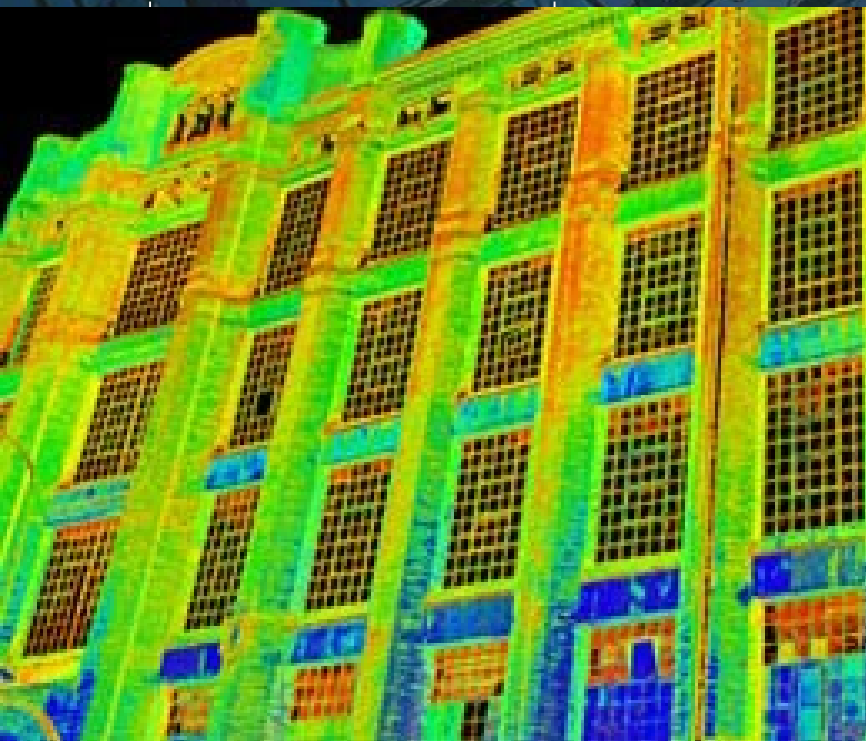
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POINT CLOUD DATA

CONSERVATION

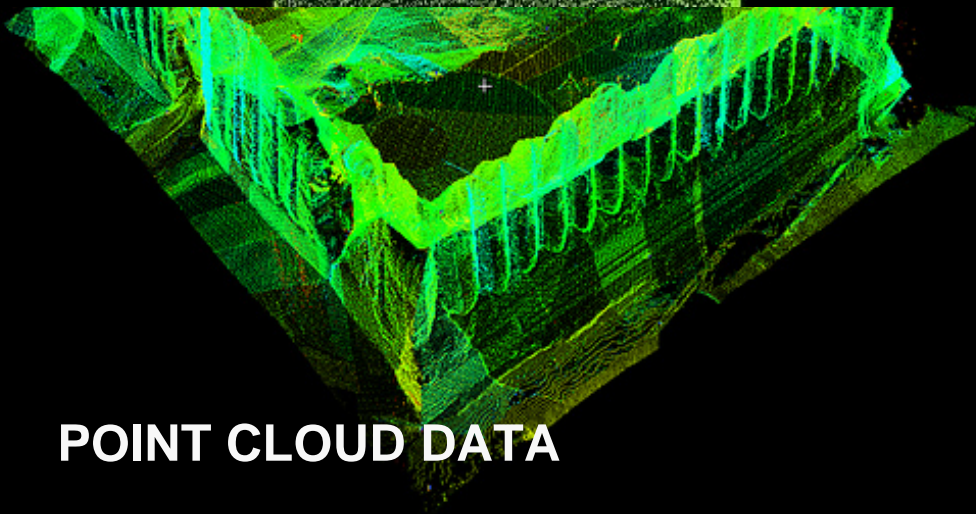
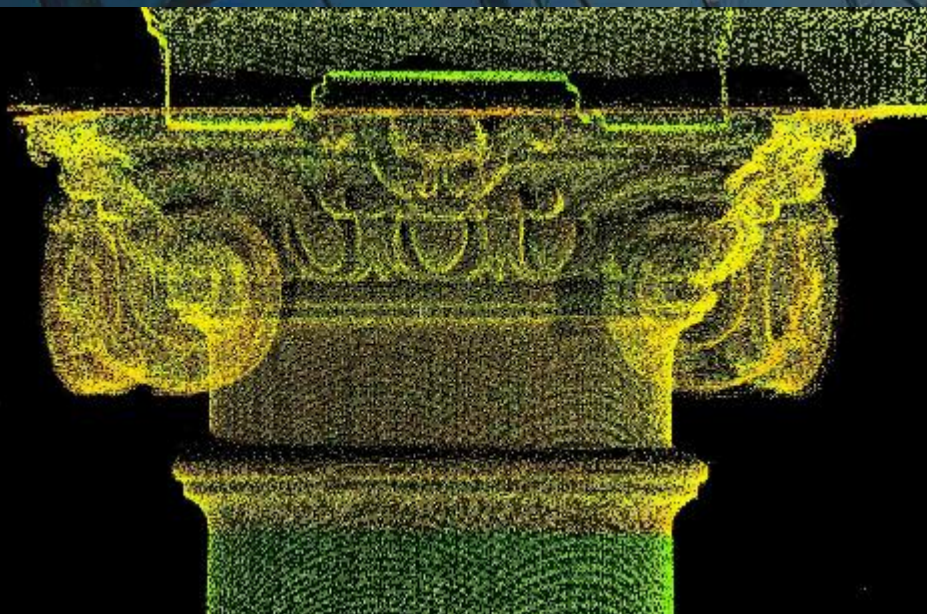
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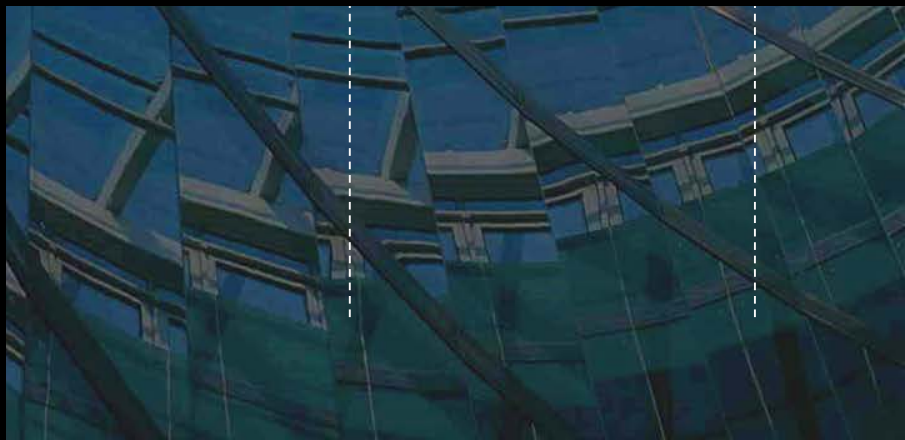
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POINT CLOUD DATA



CONSERVATION

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SURFACE RECONSTRUCTION

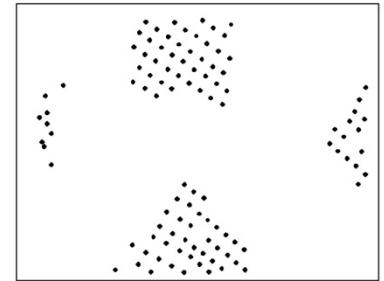


Figure 11: Clusters of points that do not fit the initial model.

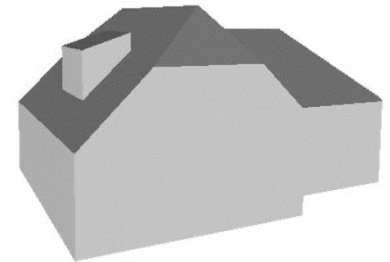


Figure 12: Reconstructed model and a photograph of the building from the same perspective.

CONSERVATION

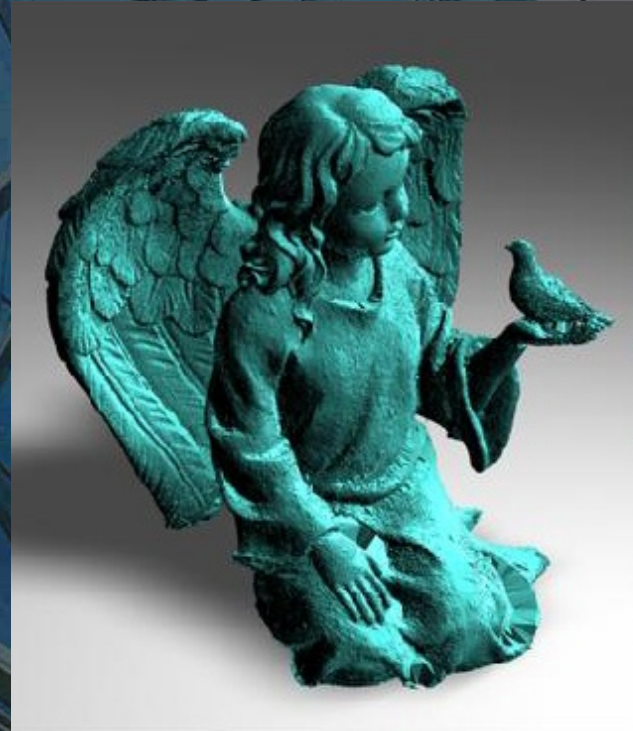
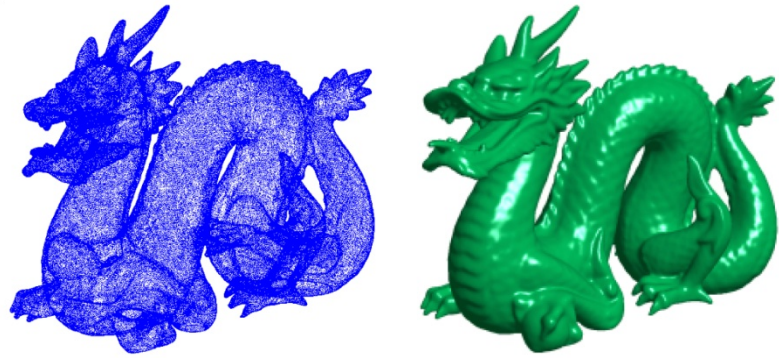
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POINT CLOUD DATA TO SOLID? BIM?

CONSERVATION

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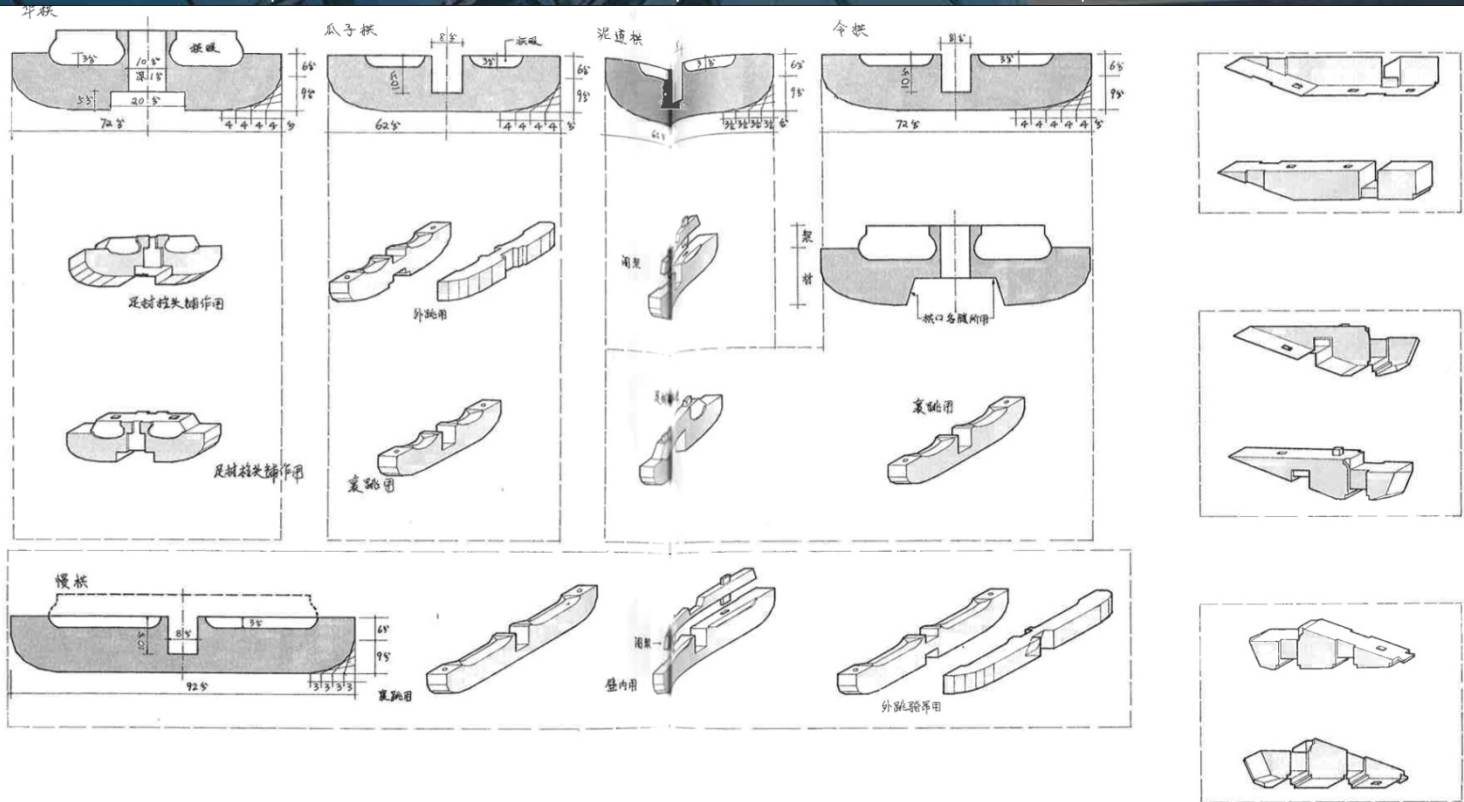
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村落：浙江花坦



POINT CLOUD DATA TO PARAMETRIC BIM?

CONSERVATION

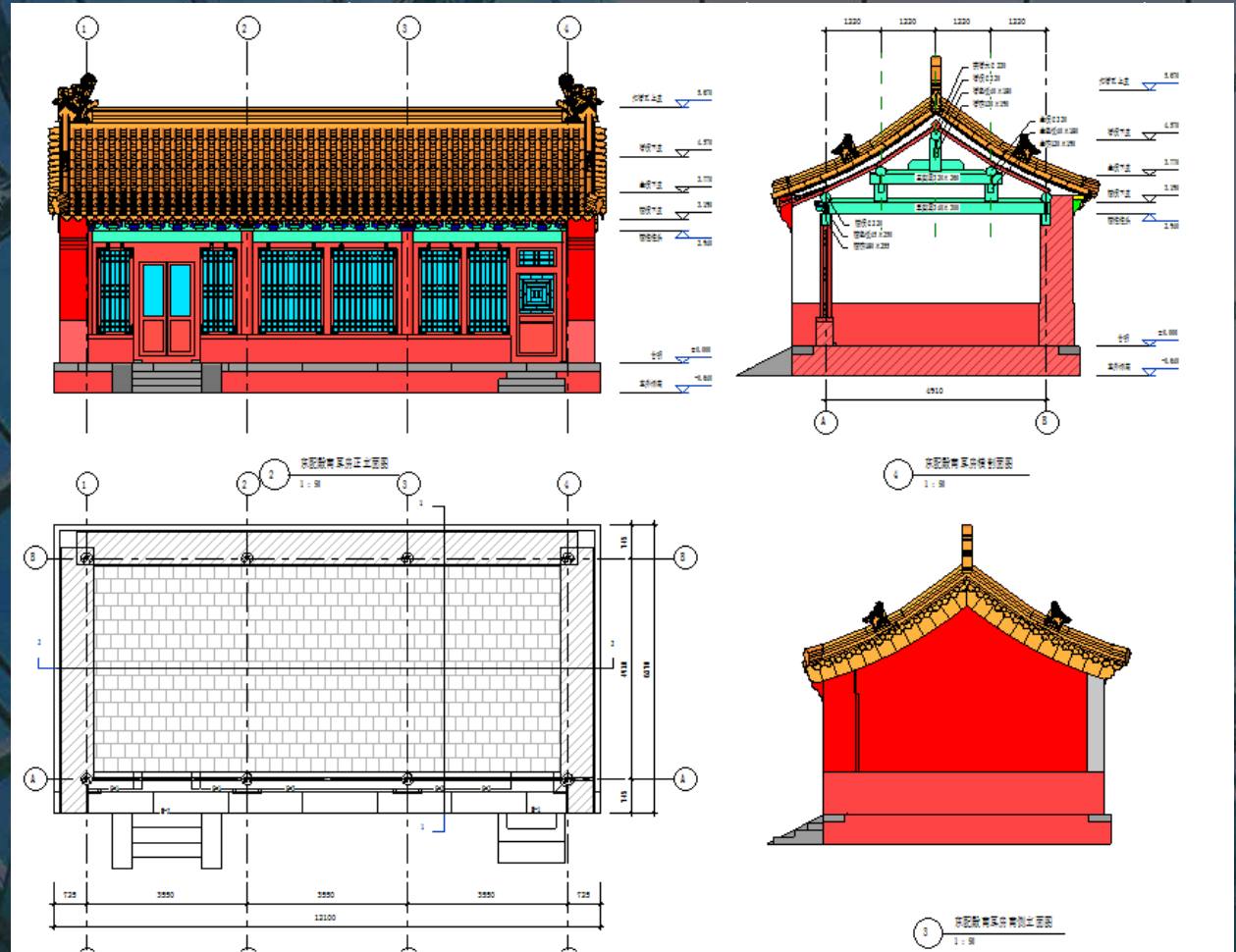
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POINT CLOUD DATA TO PARAMETRIC BIM?

CONSERVATION

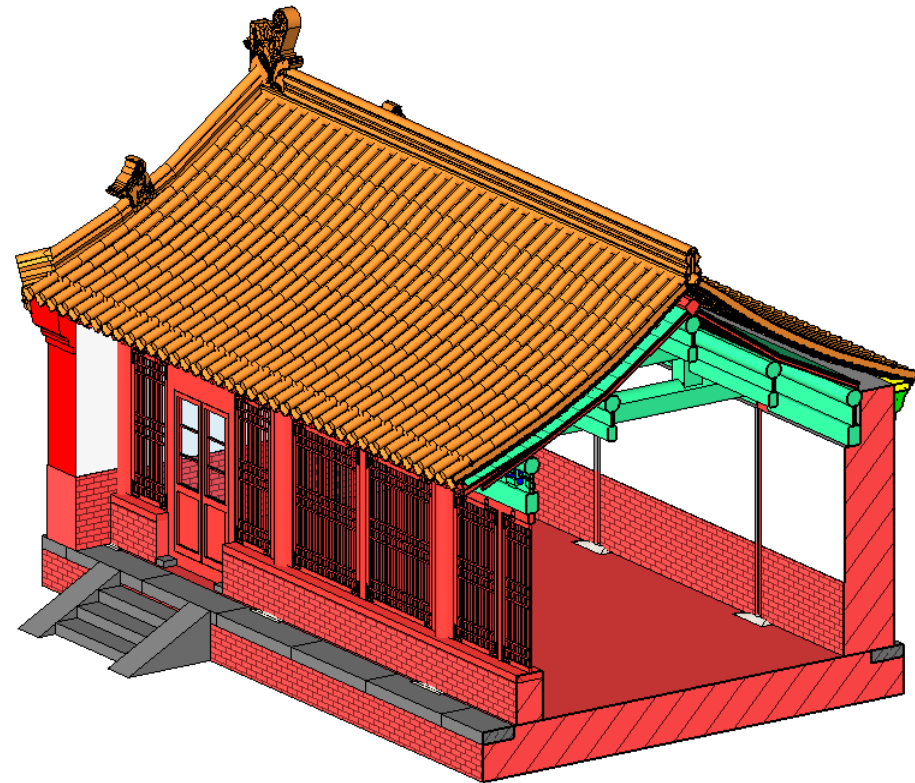
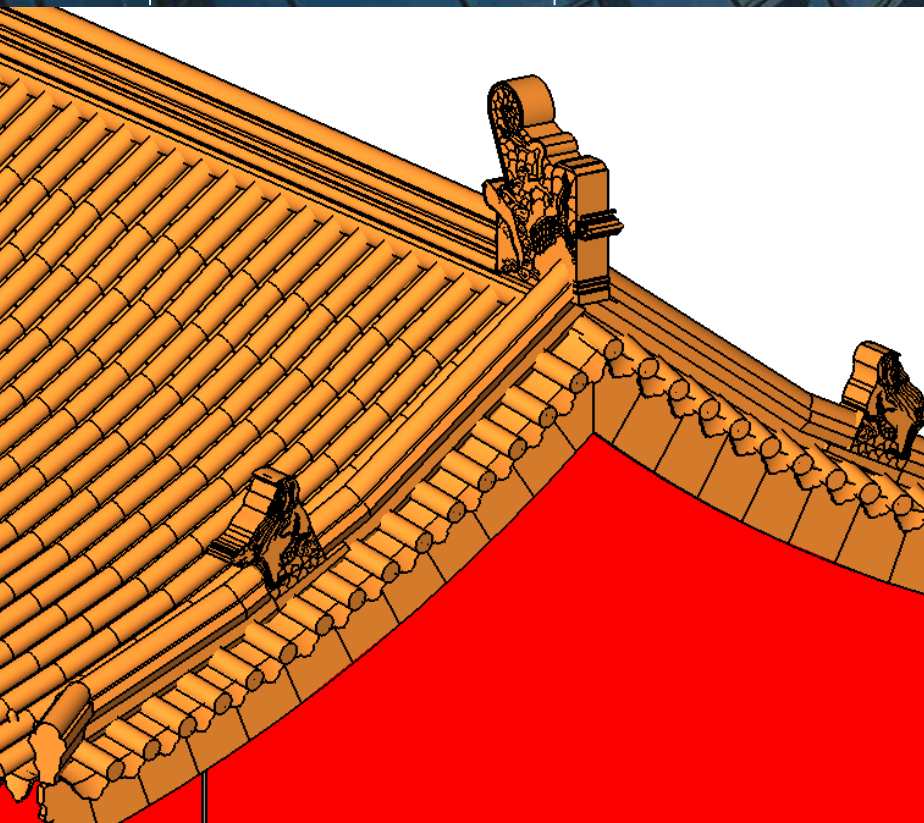
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POINT CLOUD DATA TO PARAMETRIC BIM?

CONSERVATION IN HONG KONG

80s

90s

00s

10s

20s



CONSERVATION IN HONG KONG

80s

90s

00s

10s

20s



CONSERVATION IN HONG KONG

80s

90s

00s

10s

20s

活化 創意中心




蔡家偉攝

特首曾蔭權的故居荷李活道前警察宿舍，當局表示，已吸引了多個團體申請將它活化為創意中心。



CONSERVATION IN HONG KONG

- Scientific Analysis - comparison
- Education – “Information” & “Modelling”
- History – Multi-media, historical value
- Public Exhibition online? Help Tourism?
- Virtual Reality – Google Earth walk through
- Monitoring and Restoration – any change?
- Revitalization – what to keep, what to demolish
- Reconstruction – component re-composition



Thank You...