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professor Montgomery

autumn 2010

SUBJECT

ARCHITECTURAL DRAWING I

course overview

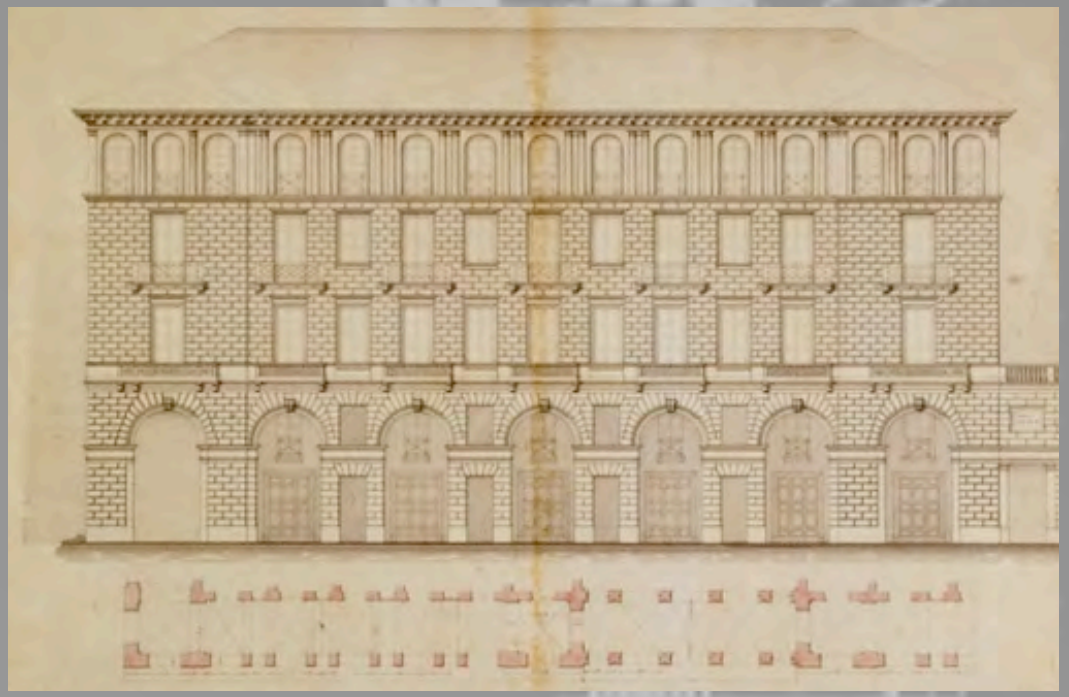
DATE **AUTUMN 2010**

PROFESSOR **MONTGOMERY**

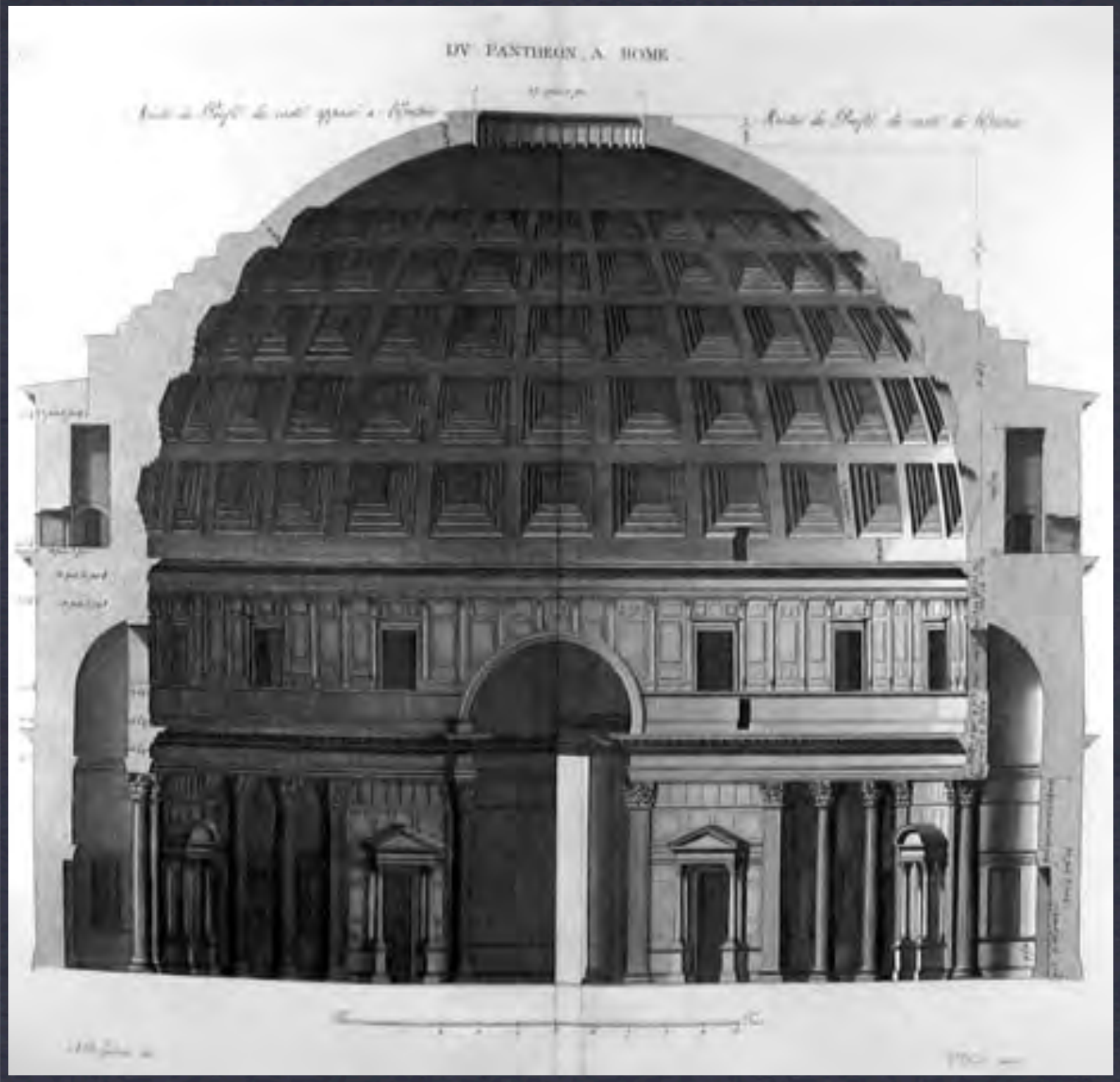
this week

objective:

understand the role of drawing in architectural practice



- stuff of architecture
- the sketchbook
- measuring things
- design + drawing
- communicating design
- building + drawing
- tools



STUFF OF ARCHITECTURE

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sculpting space

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STUFF OF ARCHITECTURE

surface and mass

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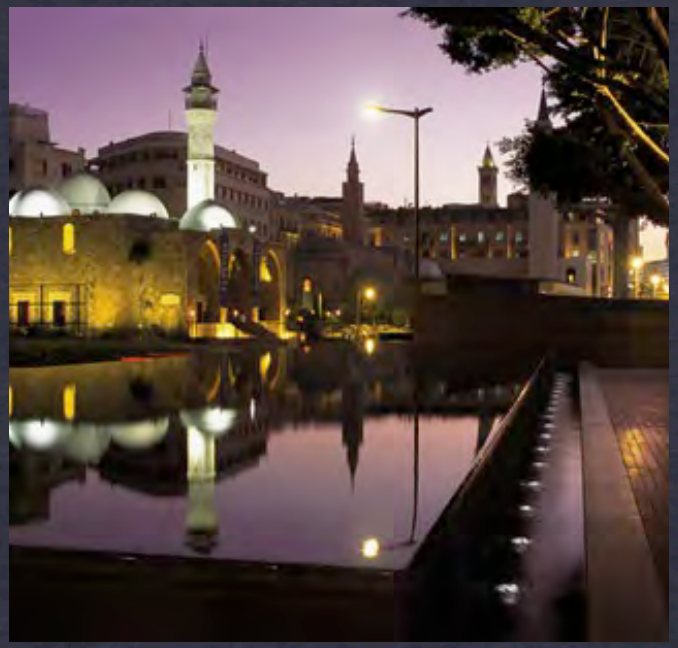

STUFF OF ARCHITECTURE

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public space

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STUFF OF ARCHITECTURE

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stage craft

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STUFF OF ARCHITECTURE

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hierarchy

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STUFF OF ARCHITECTURE

crafted from the land

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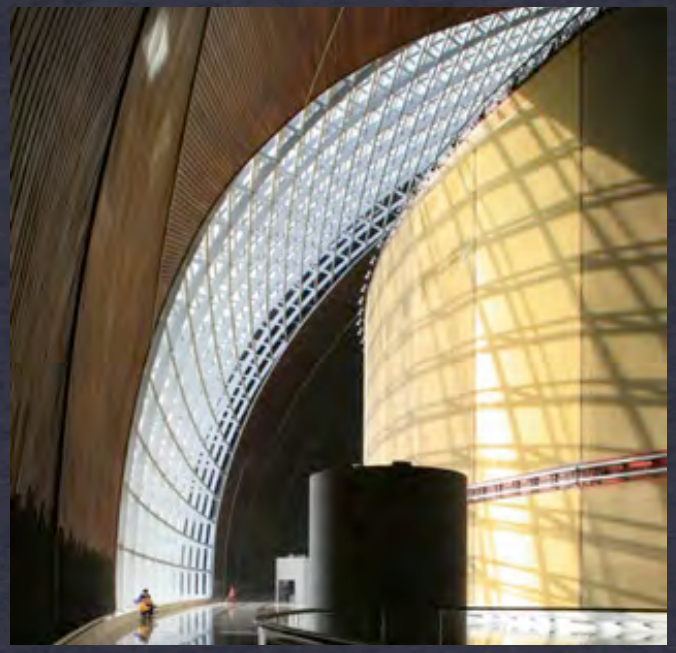

STUFF OF ARCHITECTURE

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light marrying form

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STUFF OF ARCHITECTURE

environmental intelligence

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STUFF OF ARCHITECTURE

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built to last

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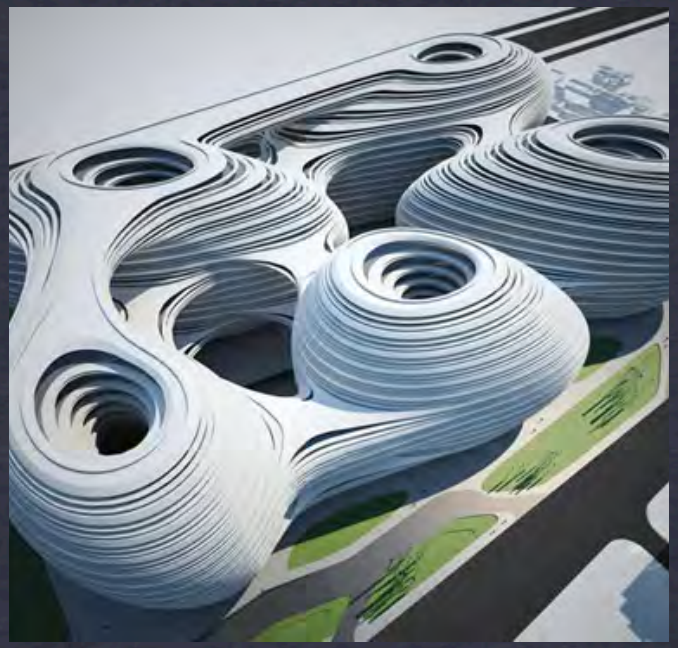

STUFF OF ARCHITECTURE

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vitality

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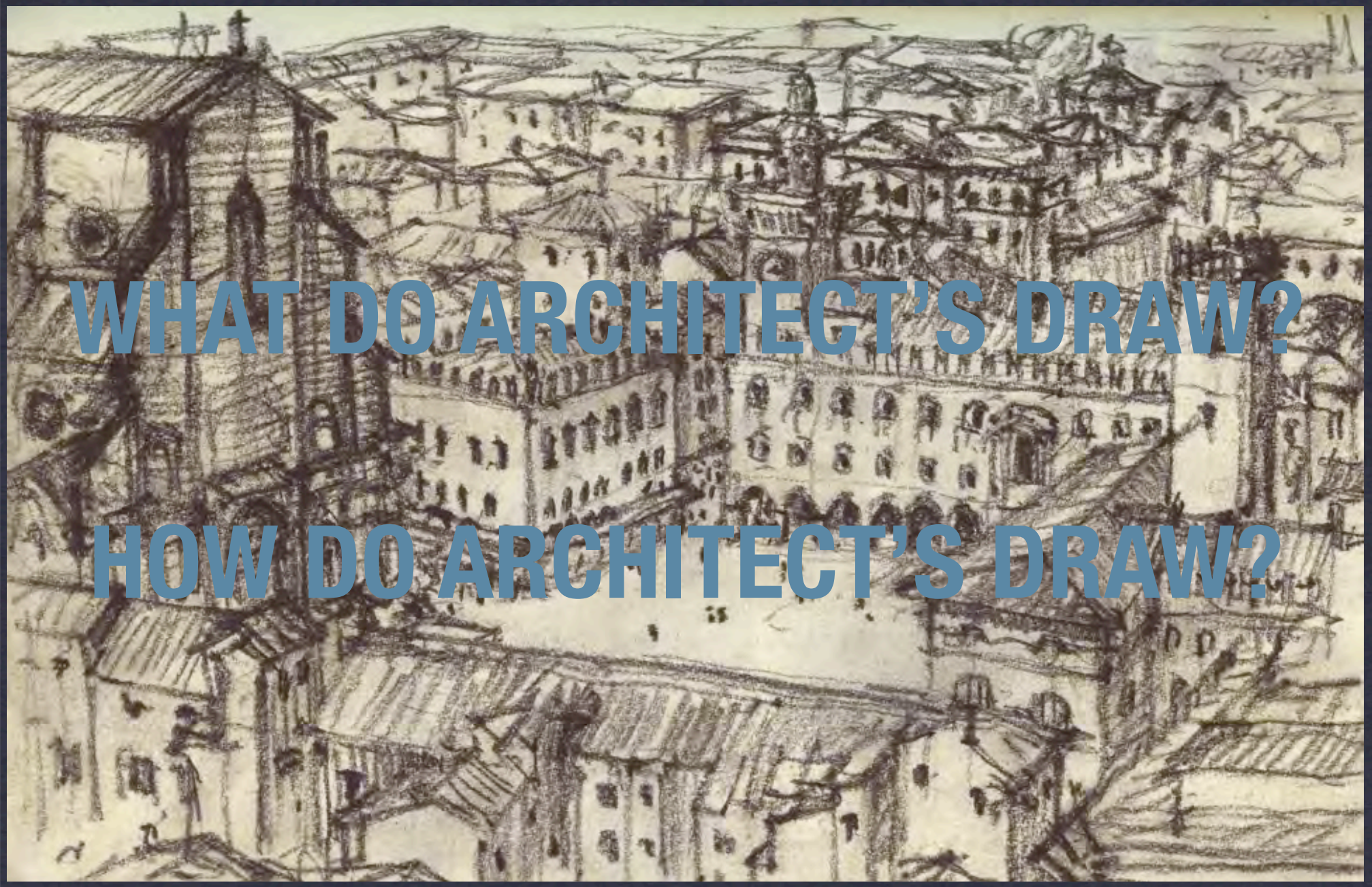

THE SKETCHBOOK

observing the world around us

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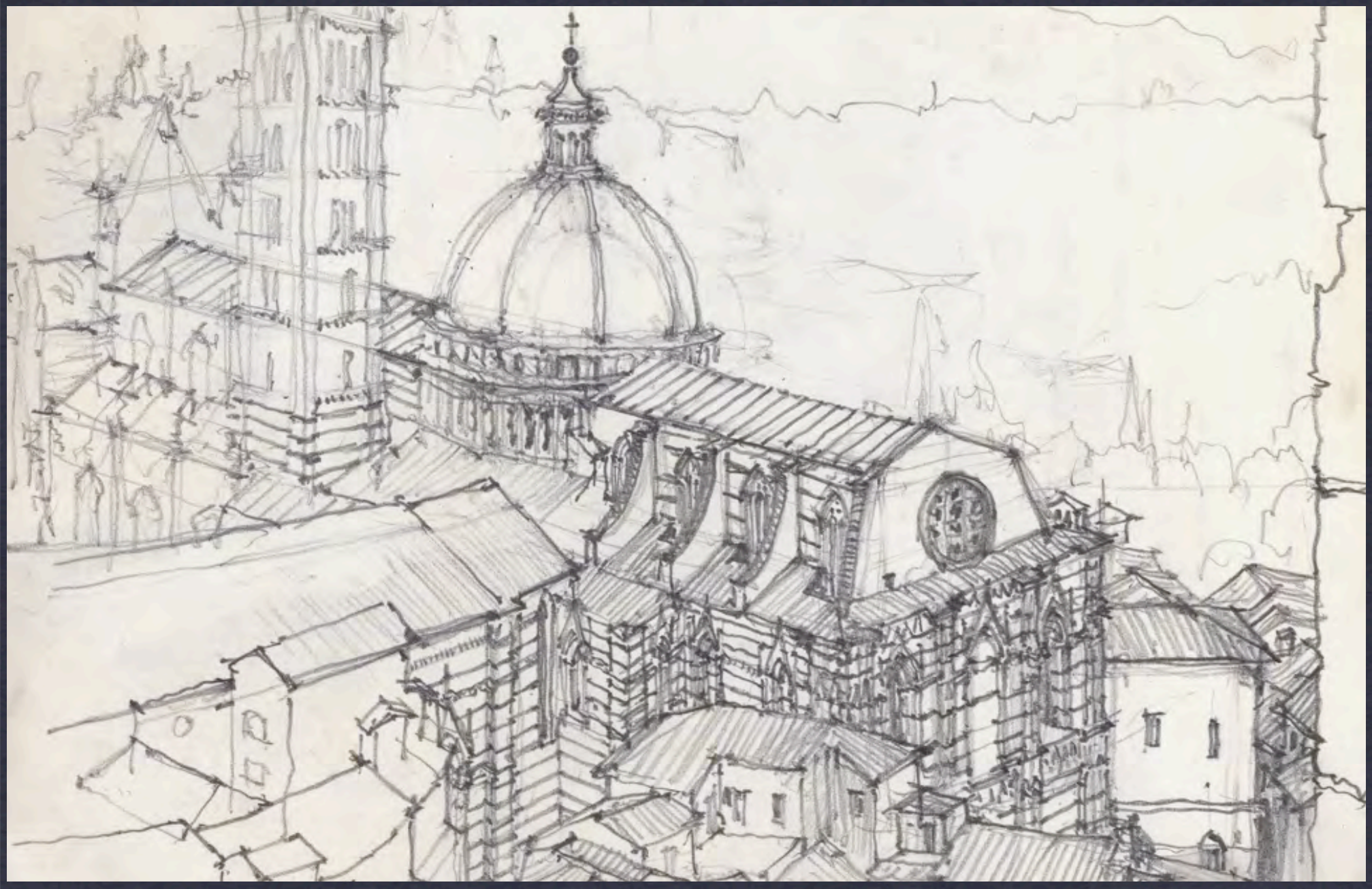

THE SKETCHBOOK

observing the world around us

professor Montgomery

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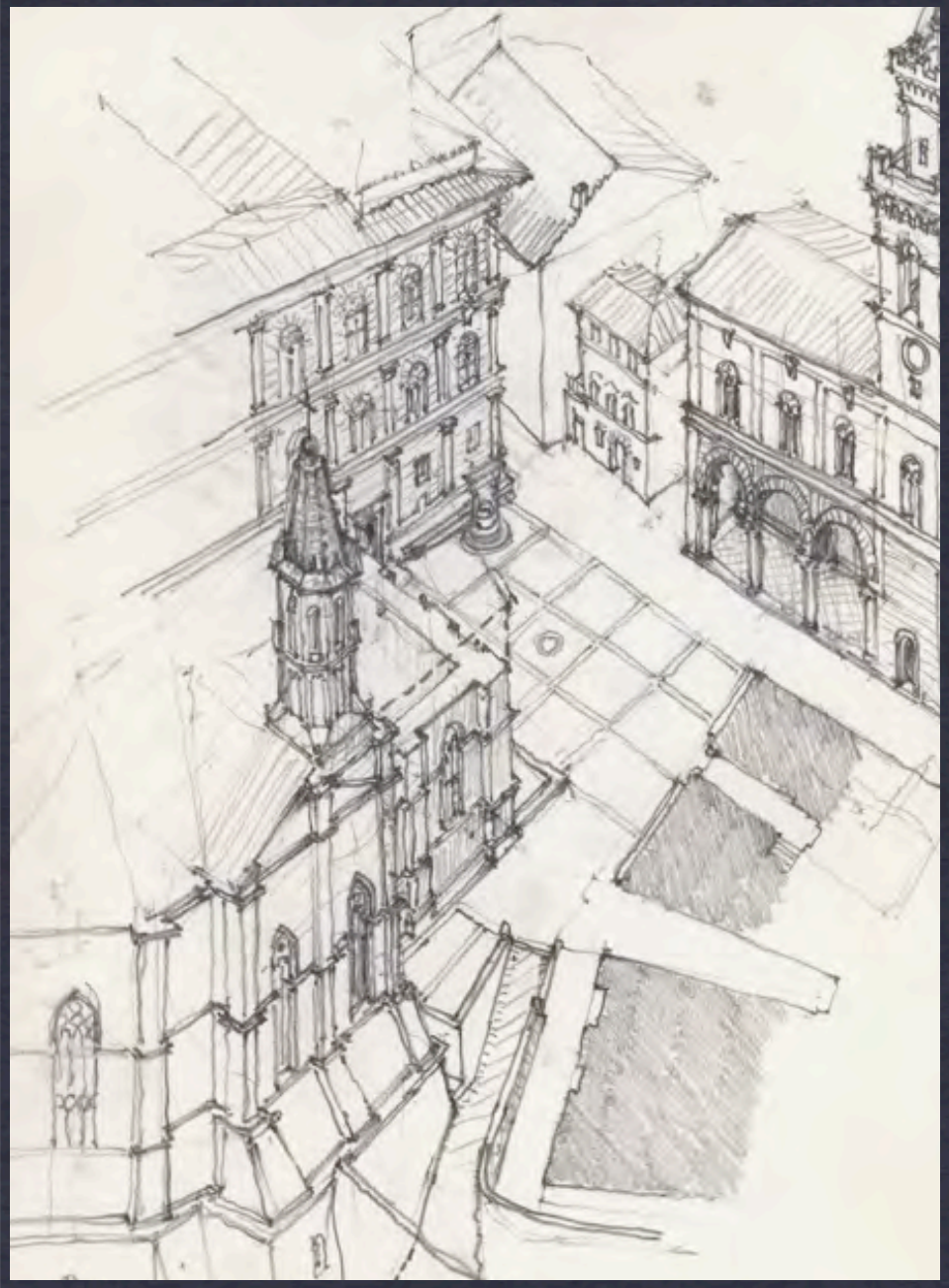

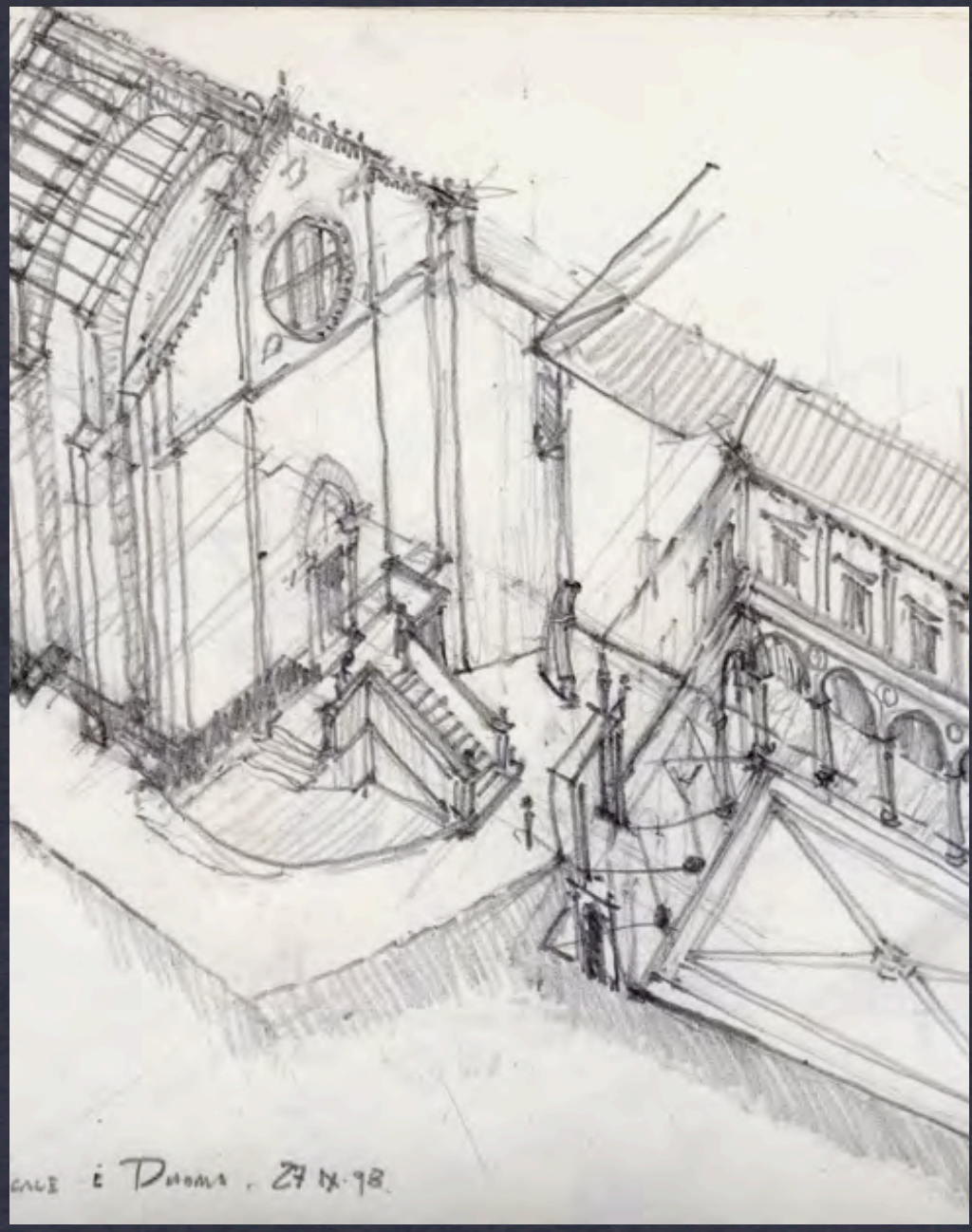

THE SKETCHBOOK

analyzing the world around us

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THE SKETCHBOOK

observing the world around us

professor Montgomery

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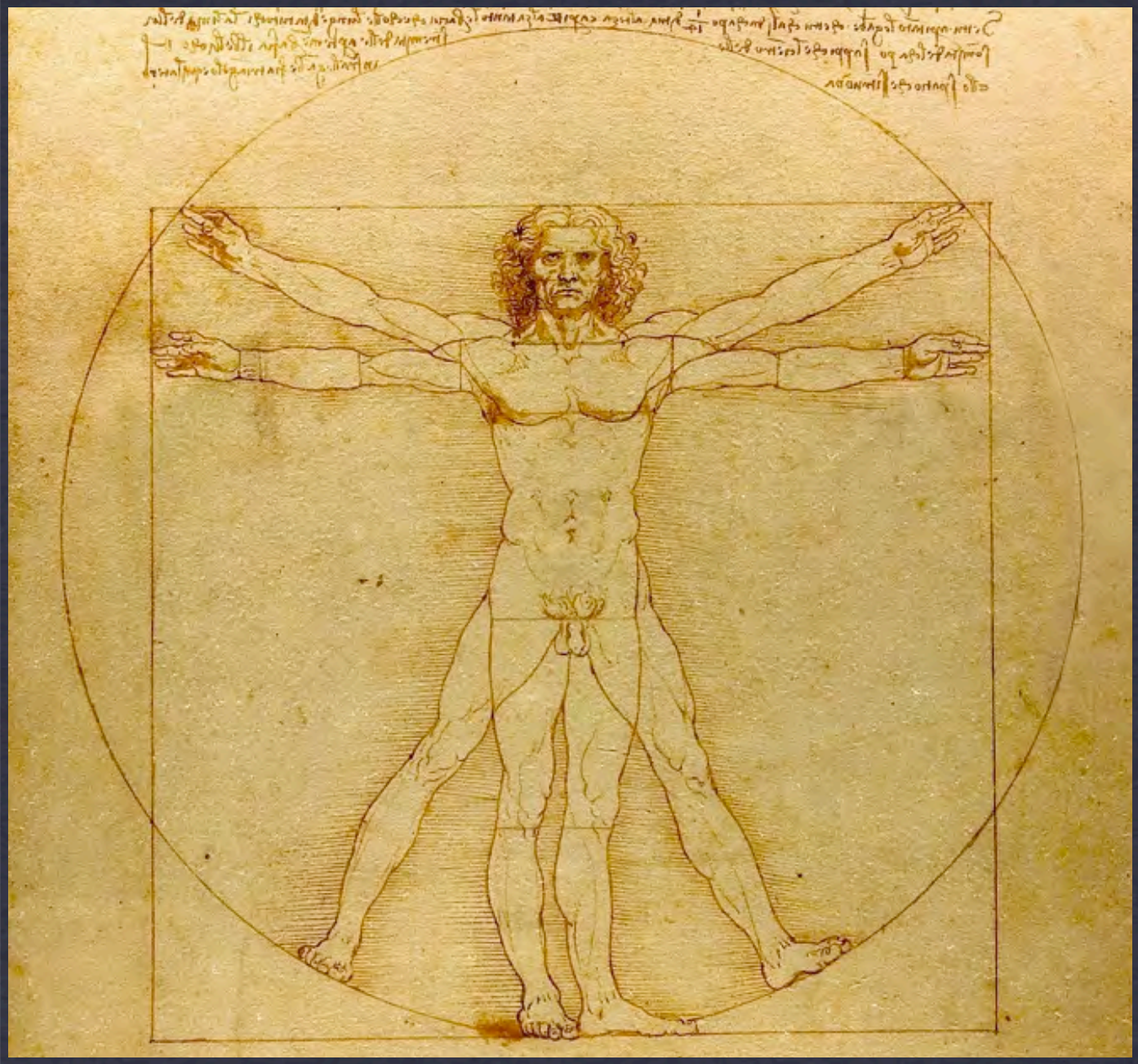

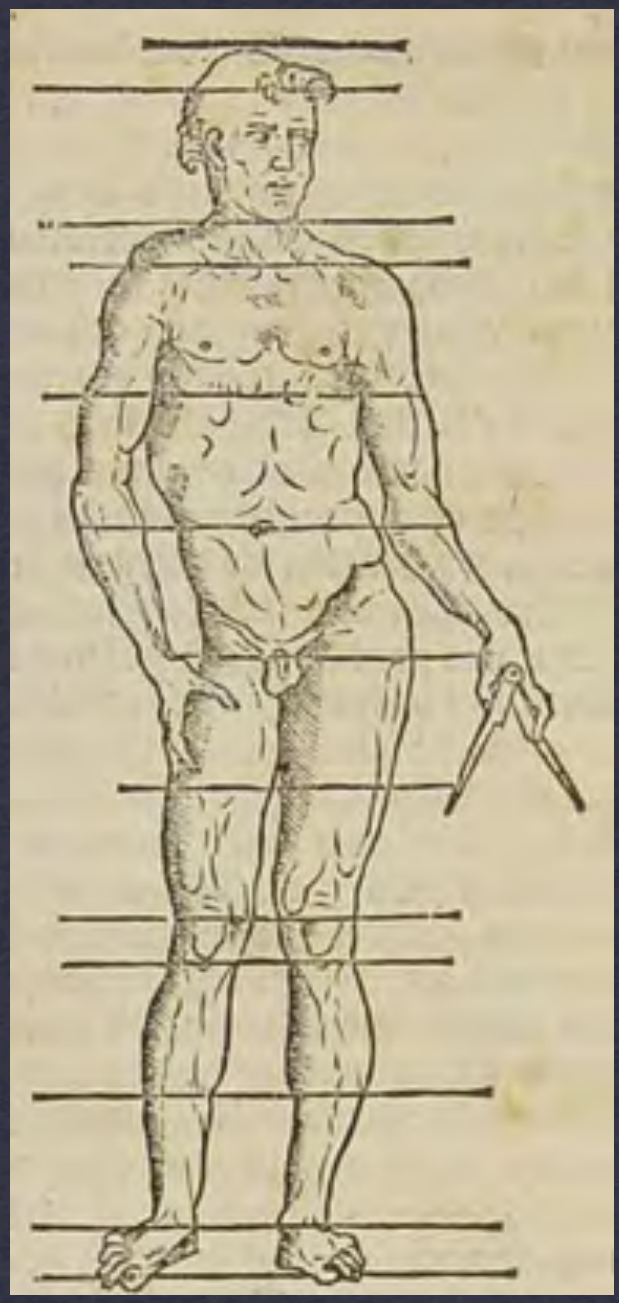

MEASURING THINGS

human dimensions and proportions

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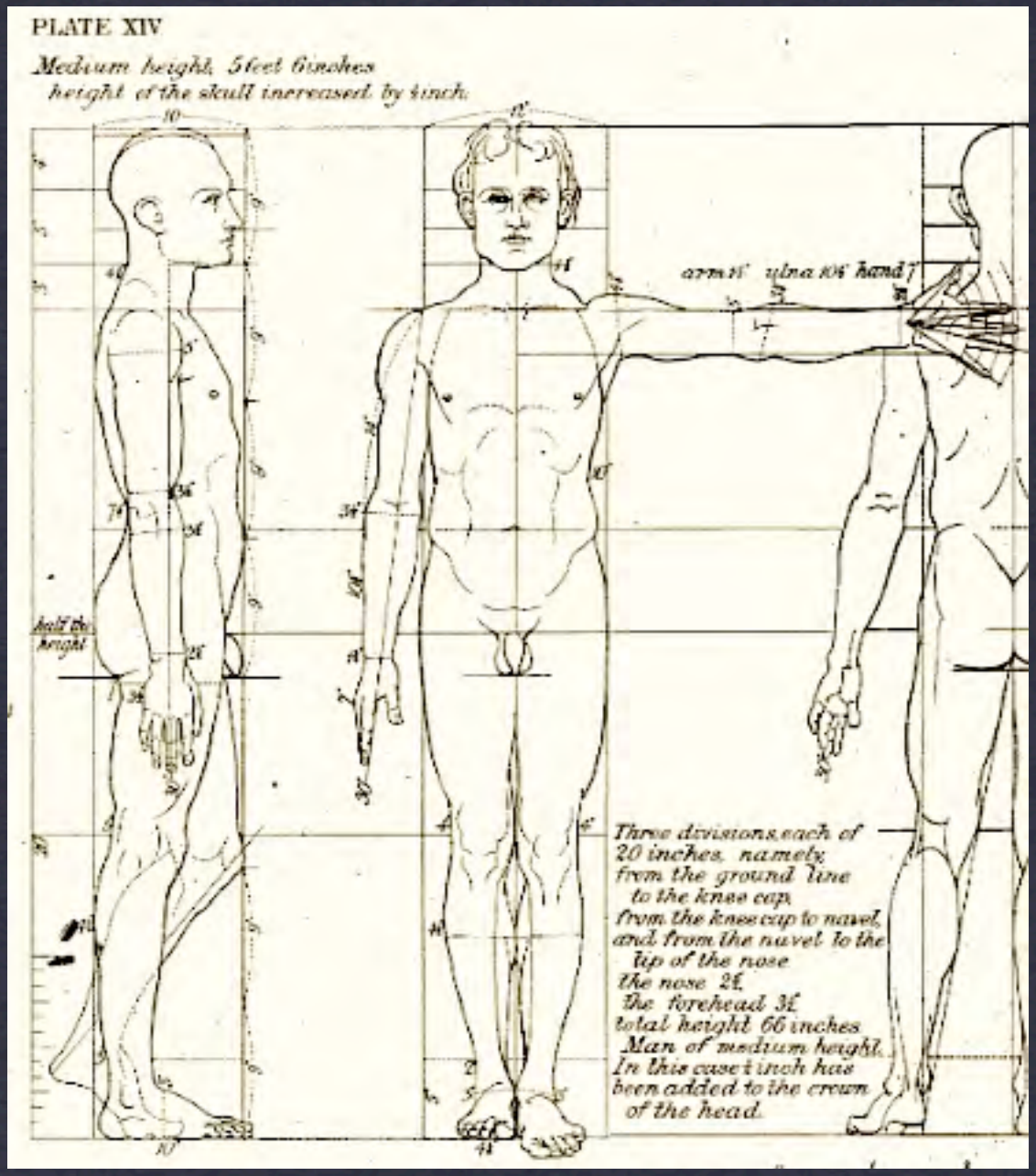

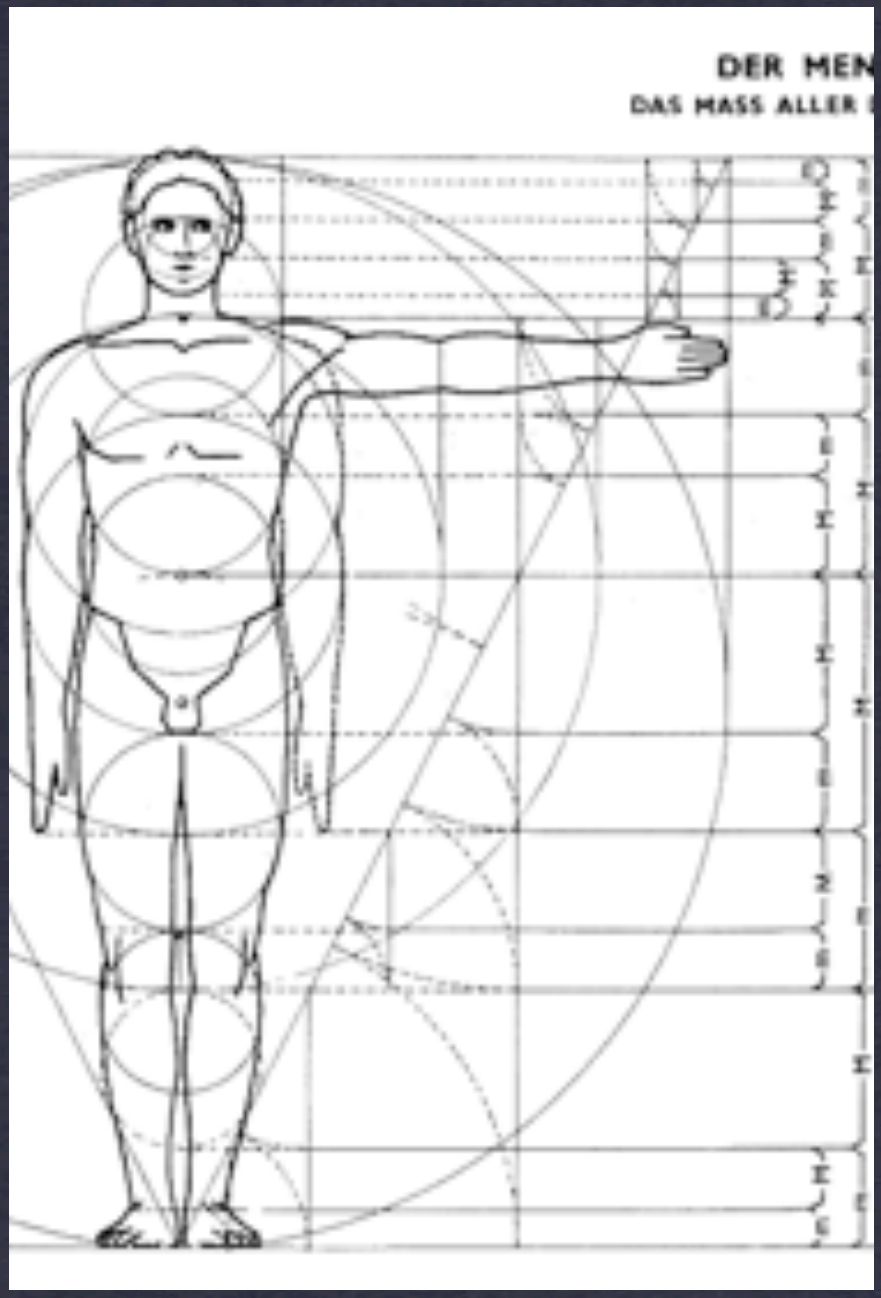

MEASURING THINGS

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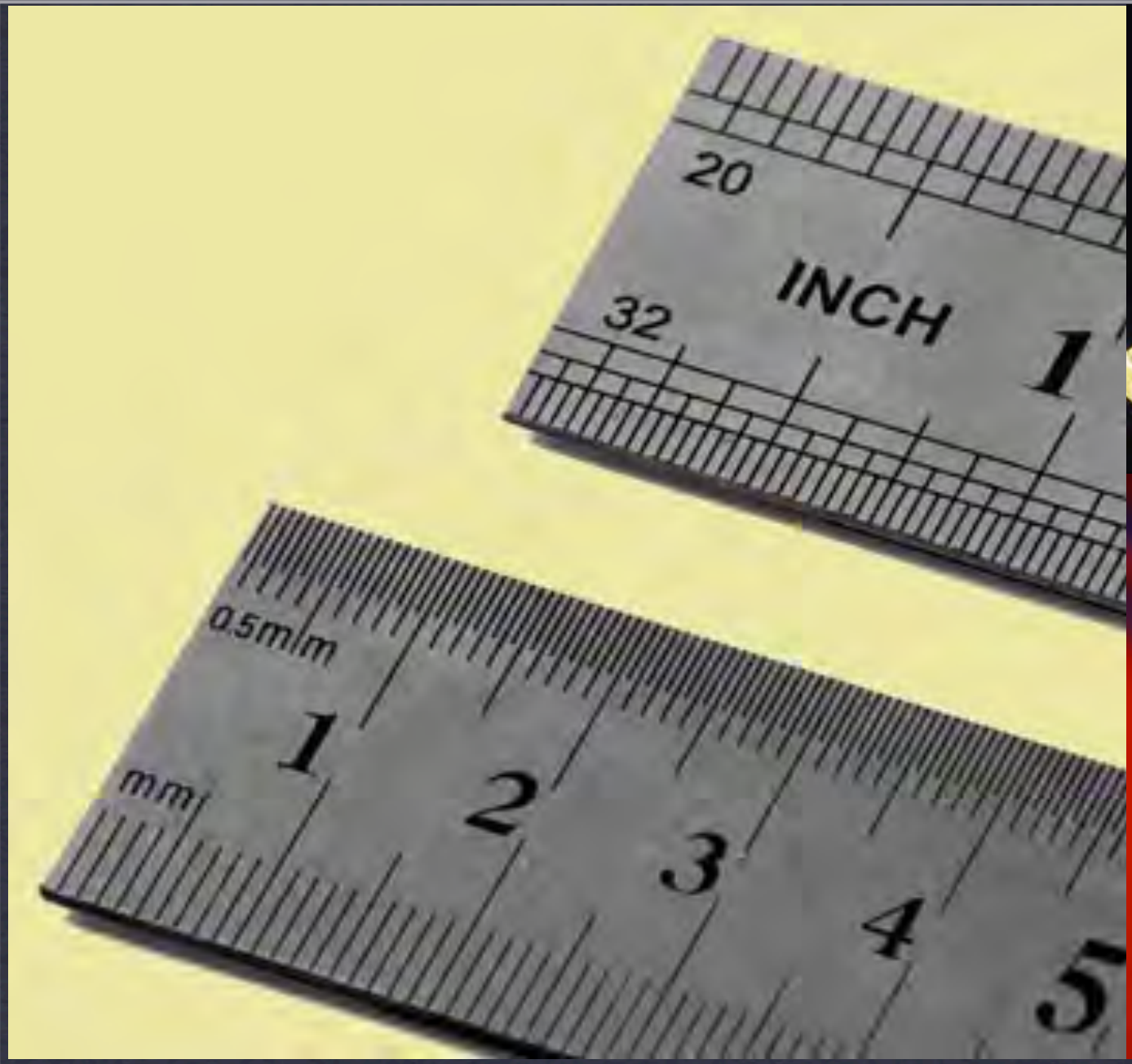

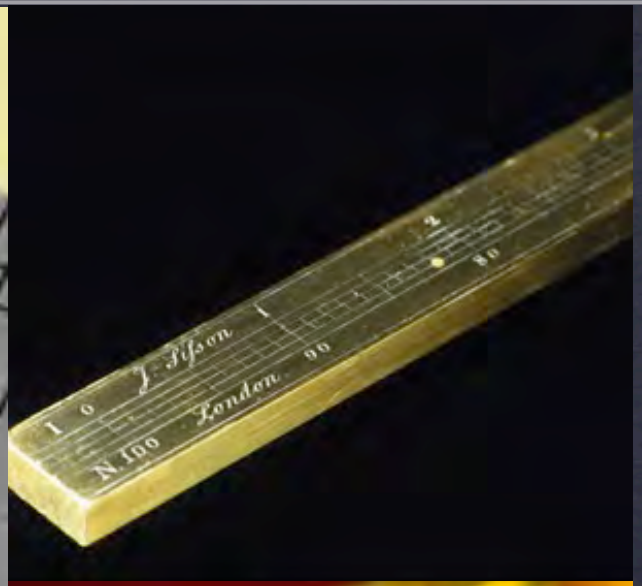

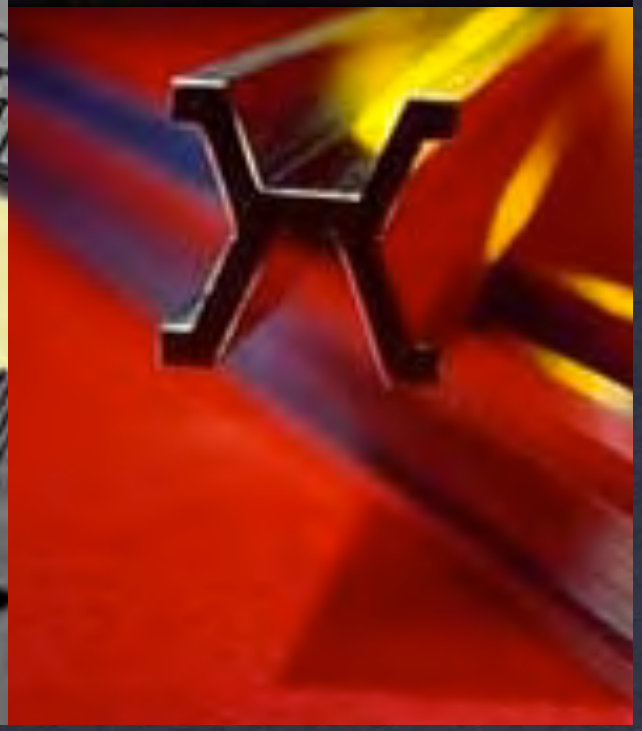

MEASURING THINGS

imperial and metric systems

professor Montgomery

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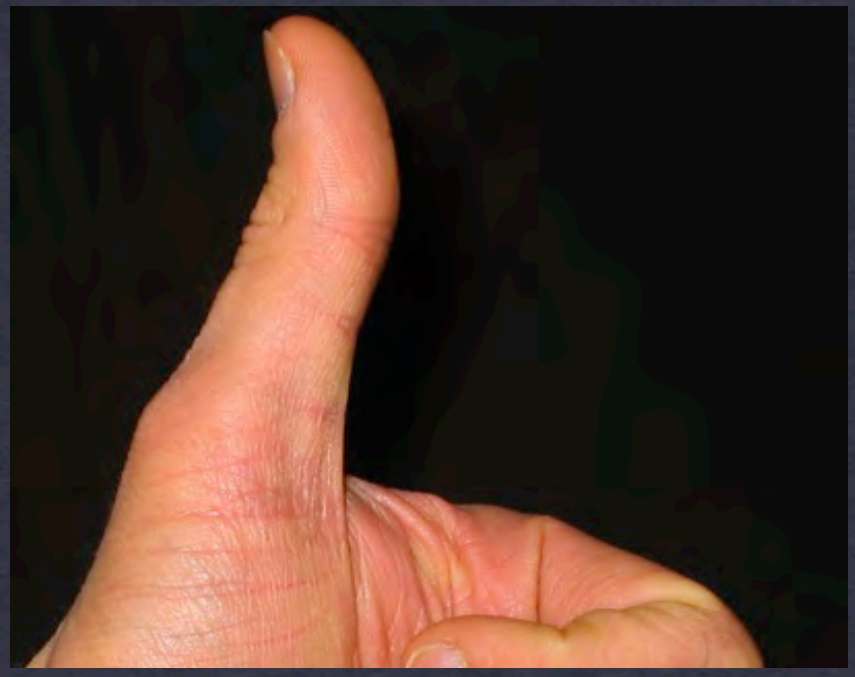

MEASURING THINGS

imperial and metric systems

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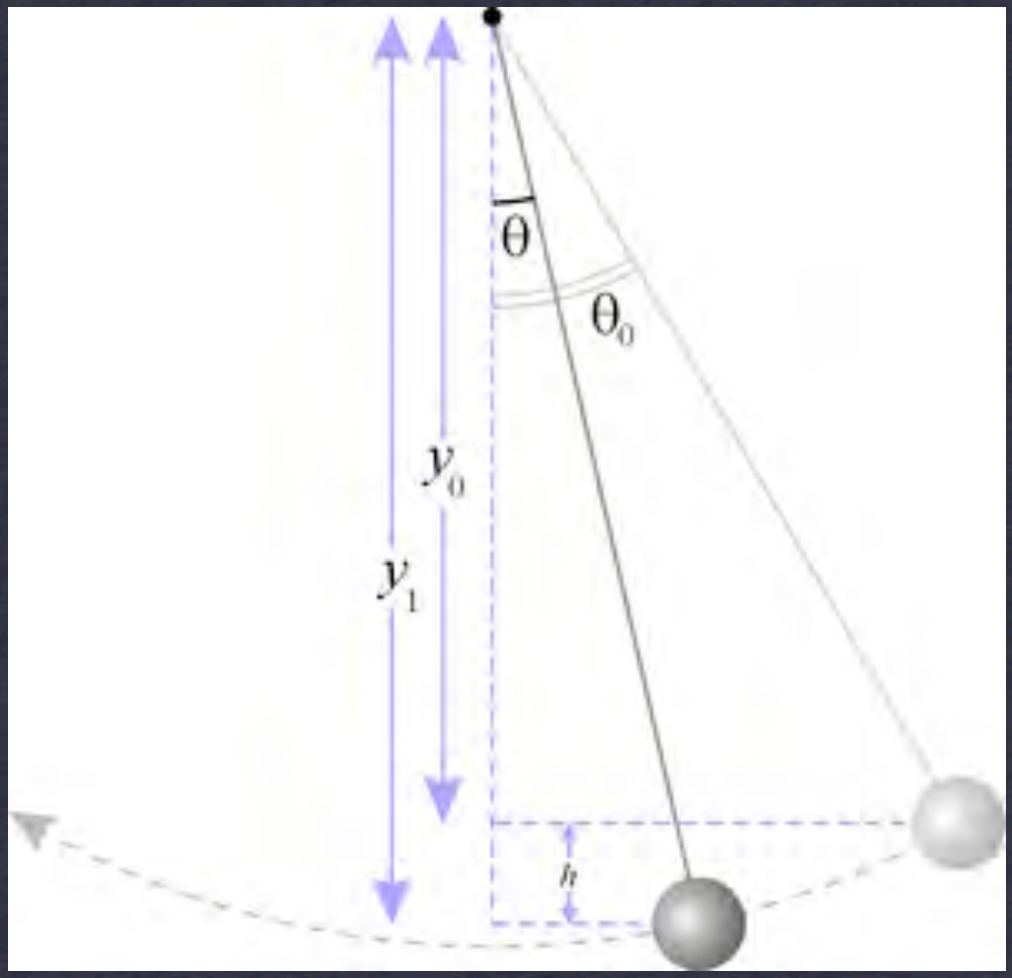

Since 1983, one meter is defined as the distance travelled by light in vacuum in 1/299,792,458 of a second.

MEASURING THINGS

imperial and metric systems

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MEASURING THINGS

imperial and metric systems

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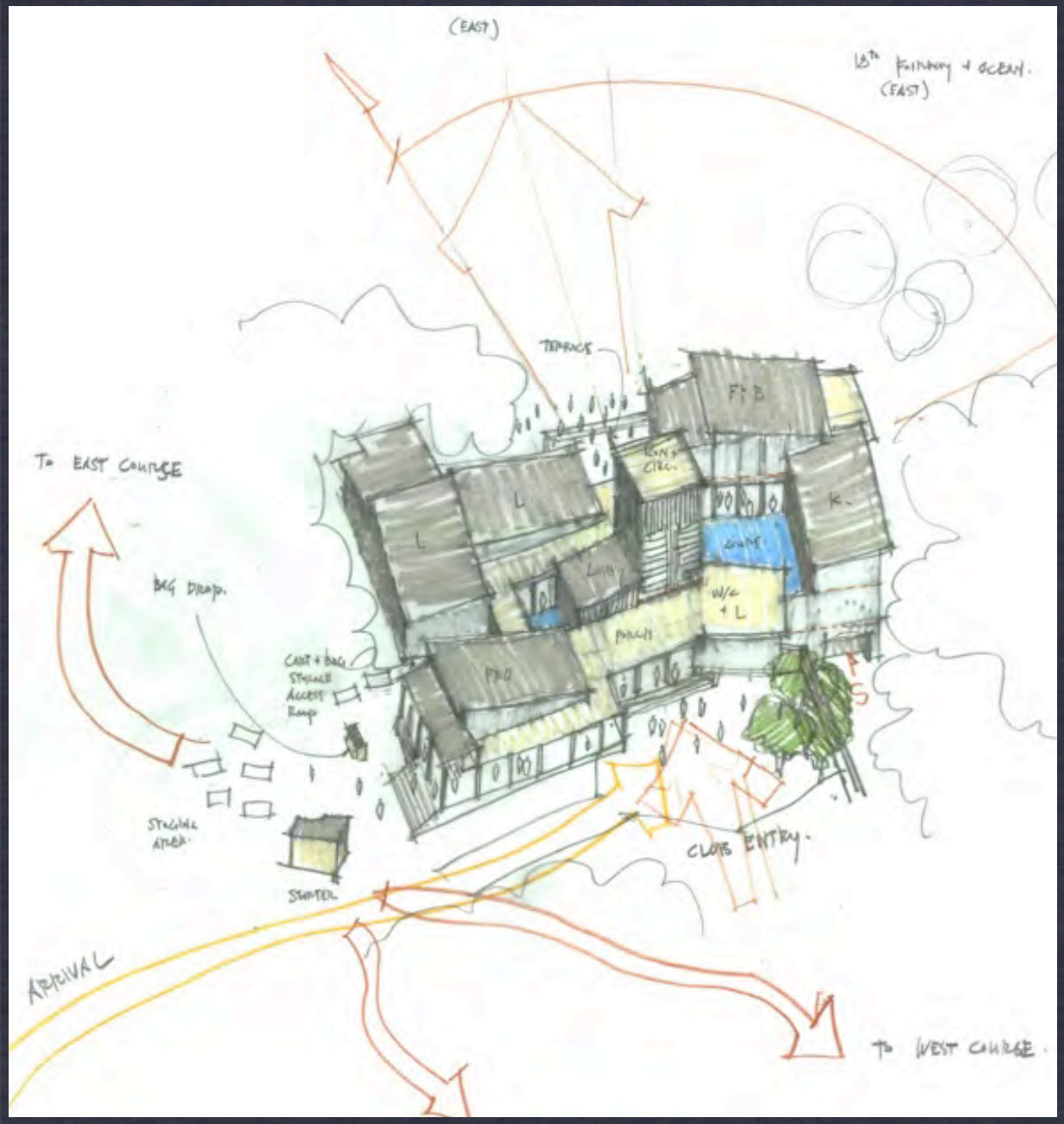

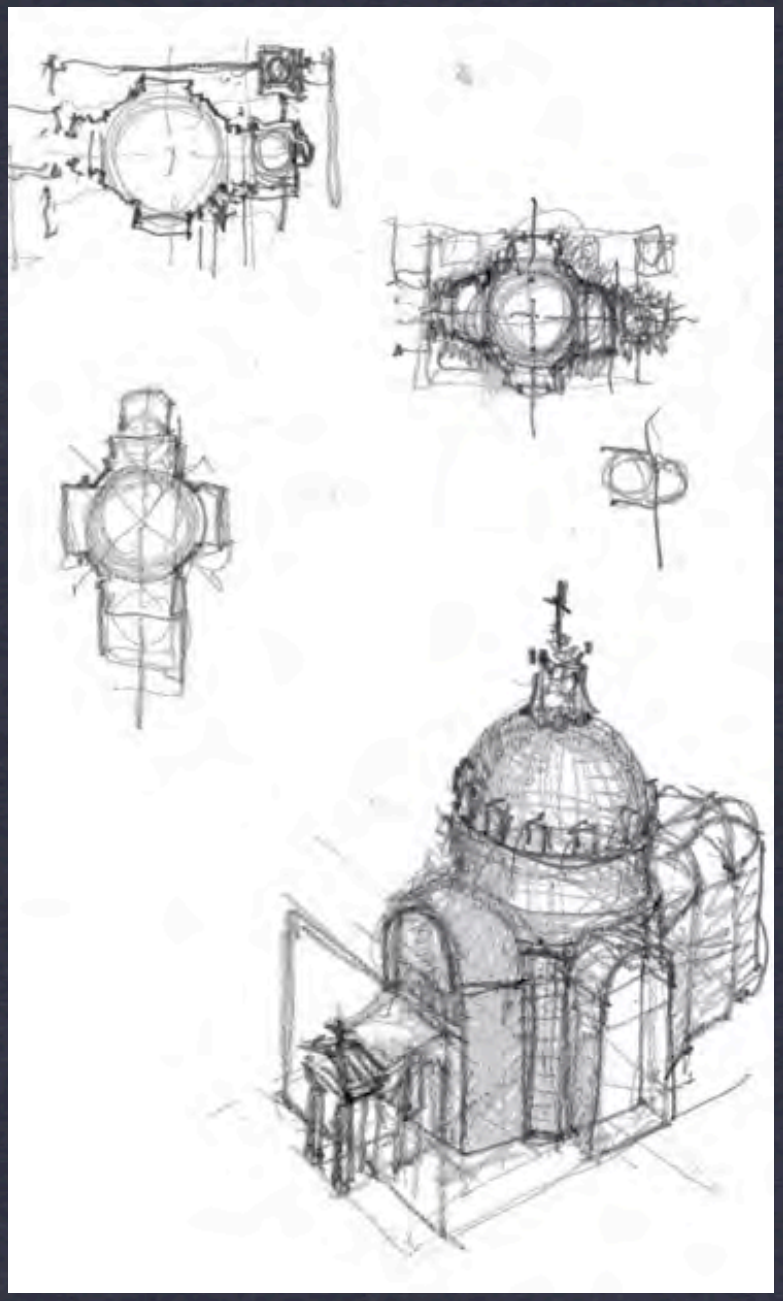

DESIGN AND DRAWING

"idea" sketching - the parti

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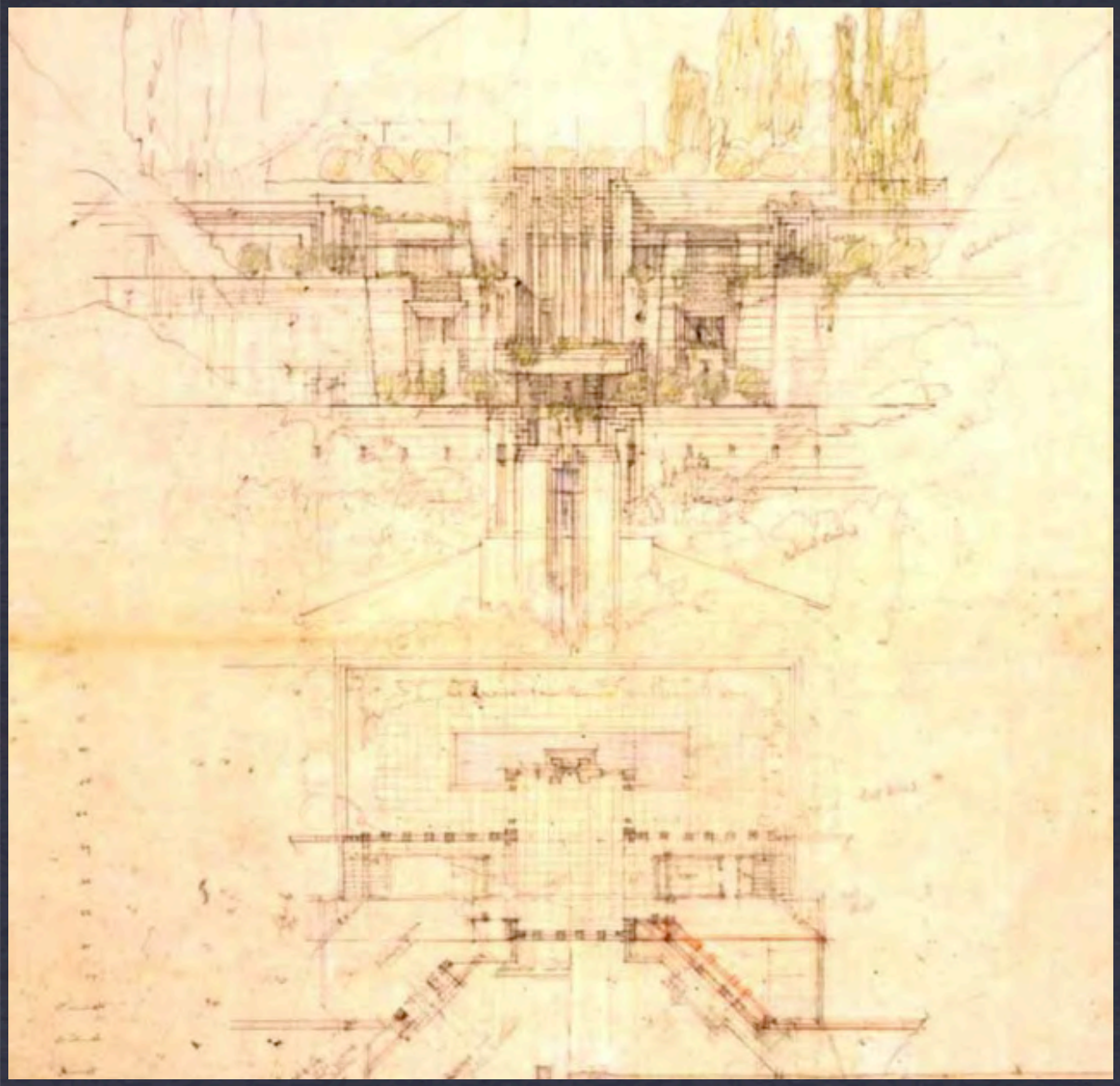

DESIGN AND DRAWING

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crafting ideas

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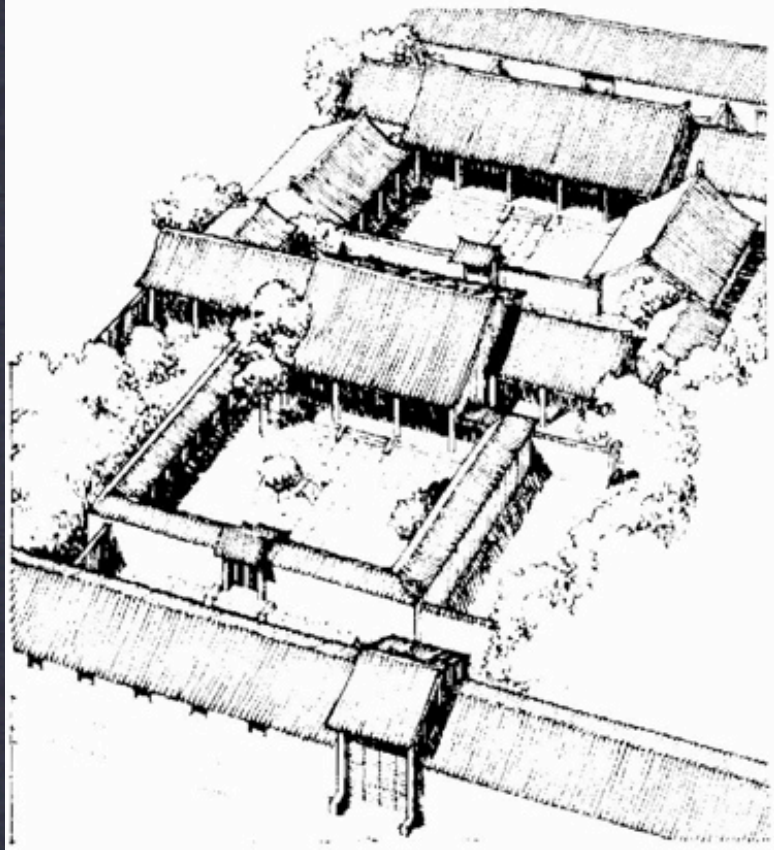
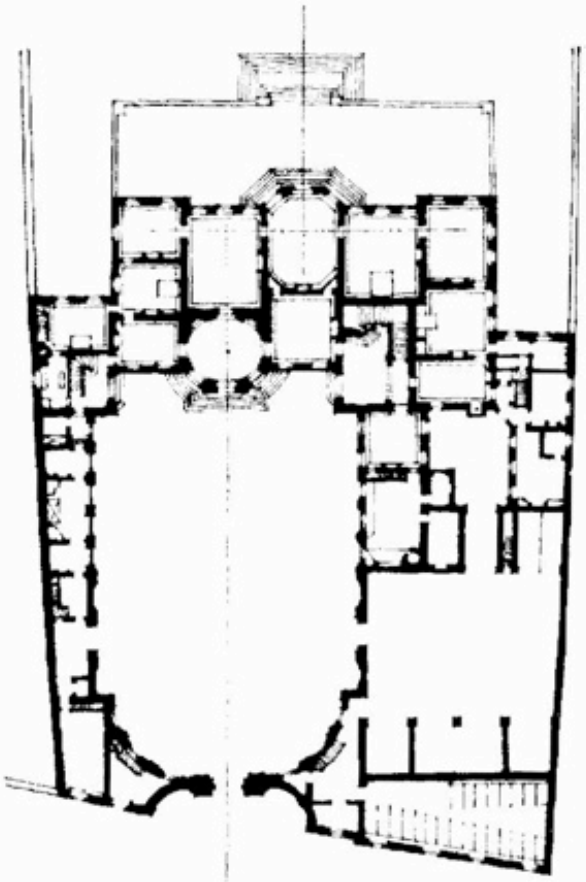
AXIS



CHINESE COURTYARD HOUSE: Peking, China



HOTEL DE MATIGNON: Paris, 1721. J. Courtonne

W.A. GLASNER HOUSE: Glencoe, Illinois, 1905
Frank Lloyd Wright

DESIGN AND DRAWING

plans reveal organization

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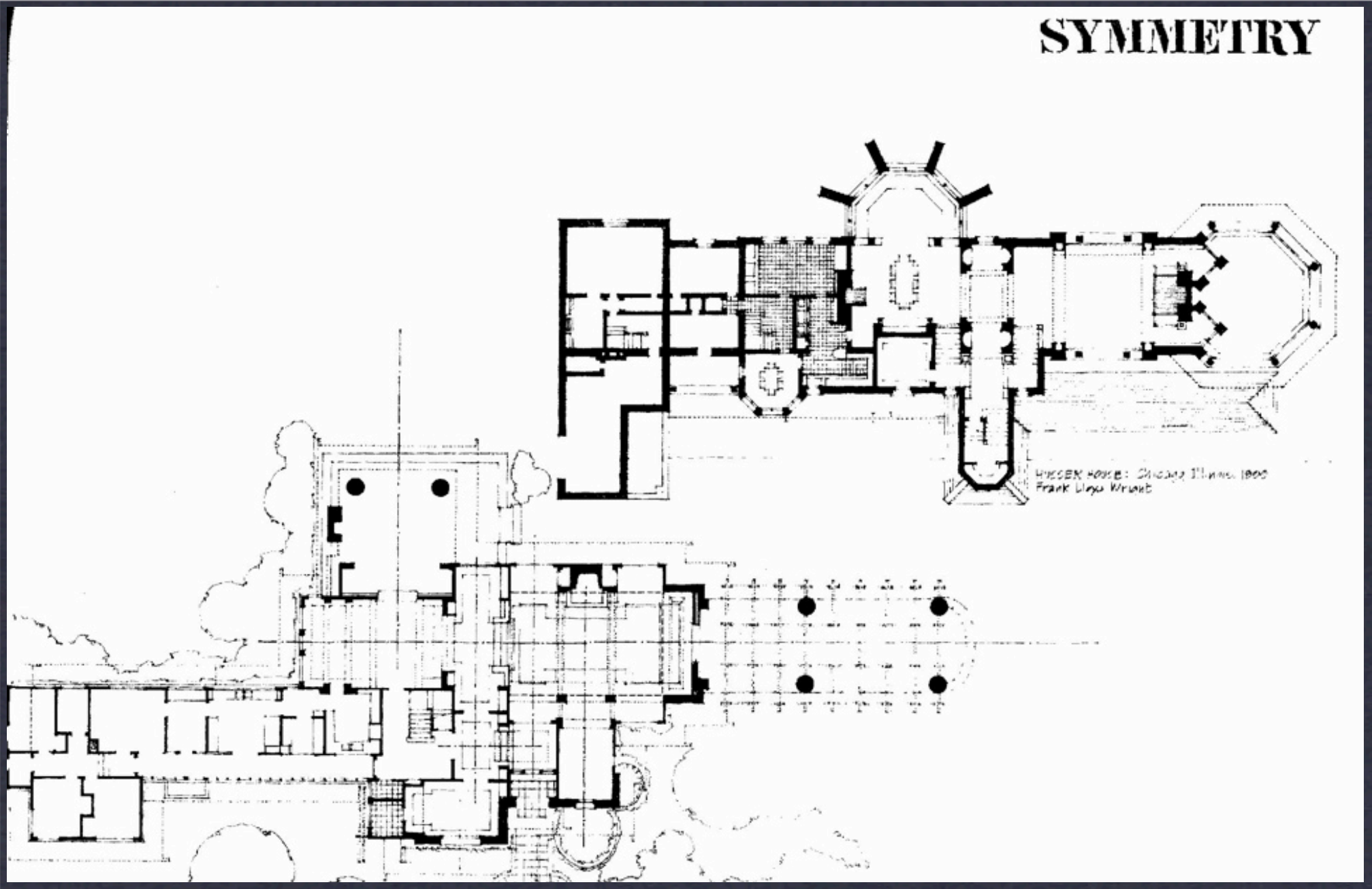

DESIGN AND DRAWING

plans reveal organization

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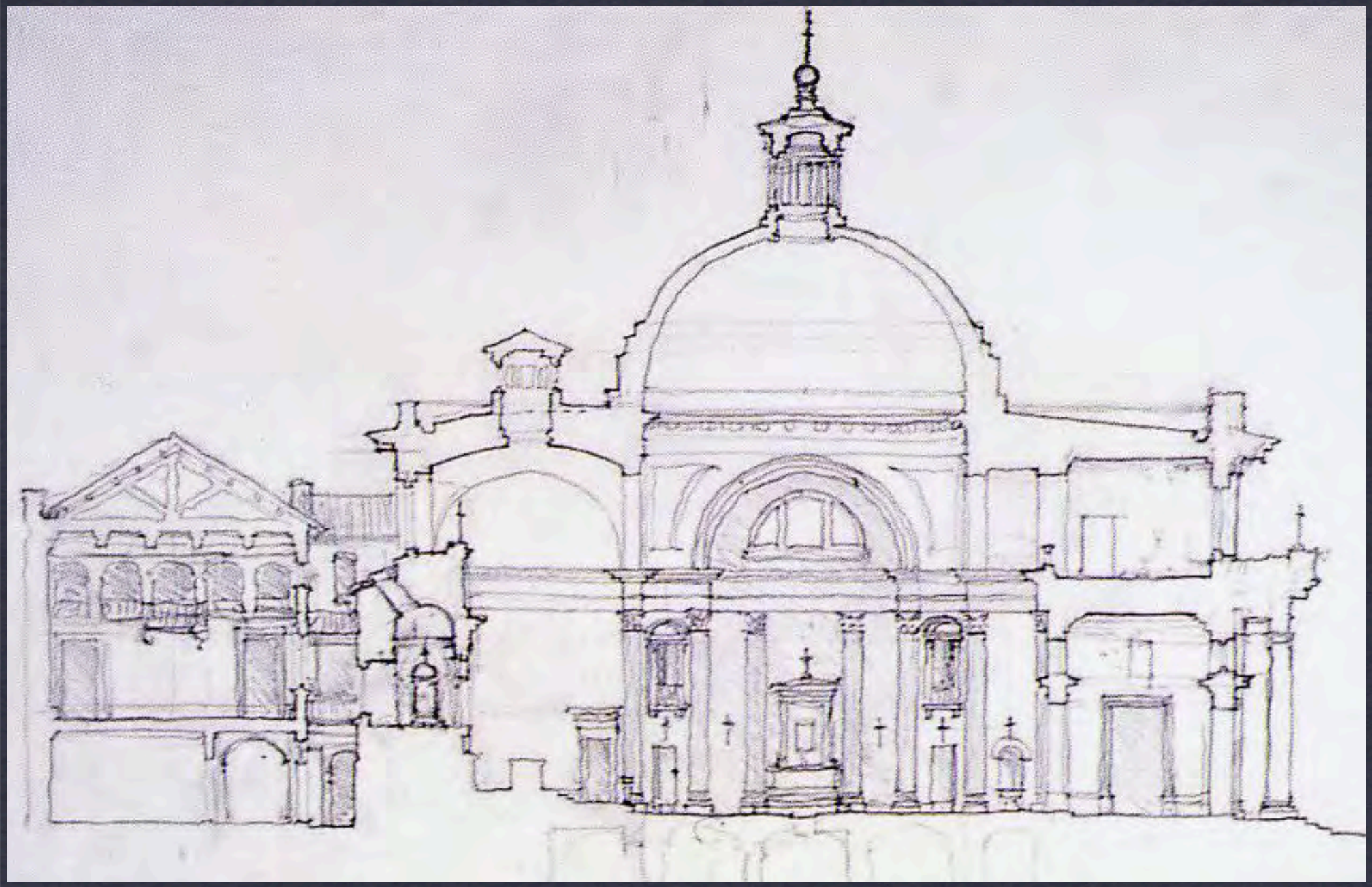

DESIGN AND DRAWING

sections space structure

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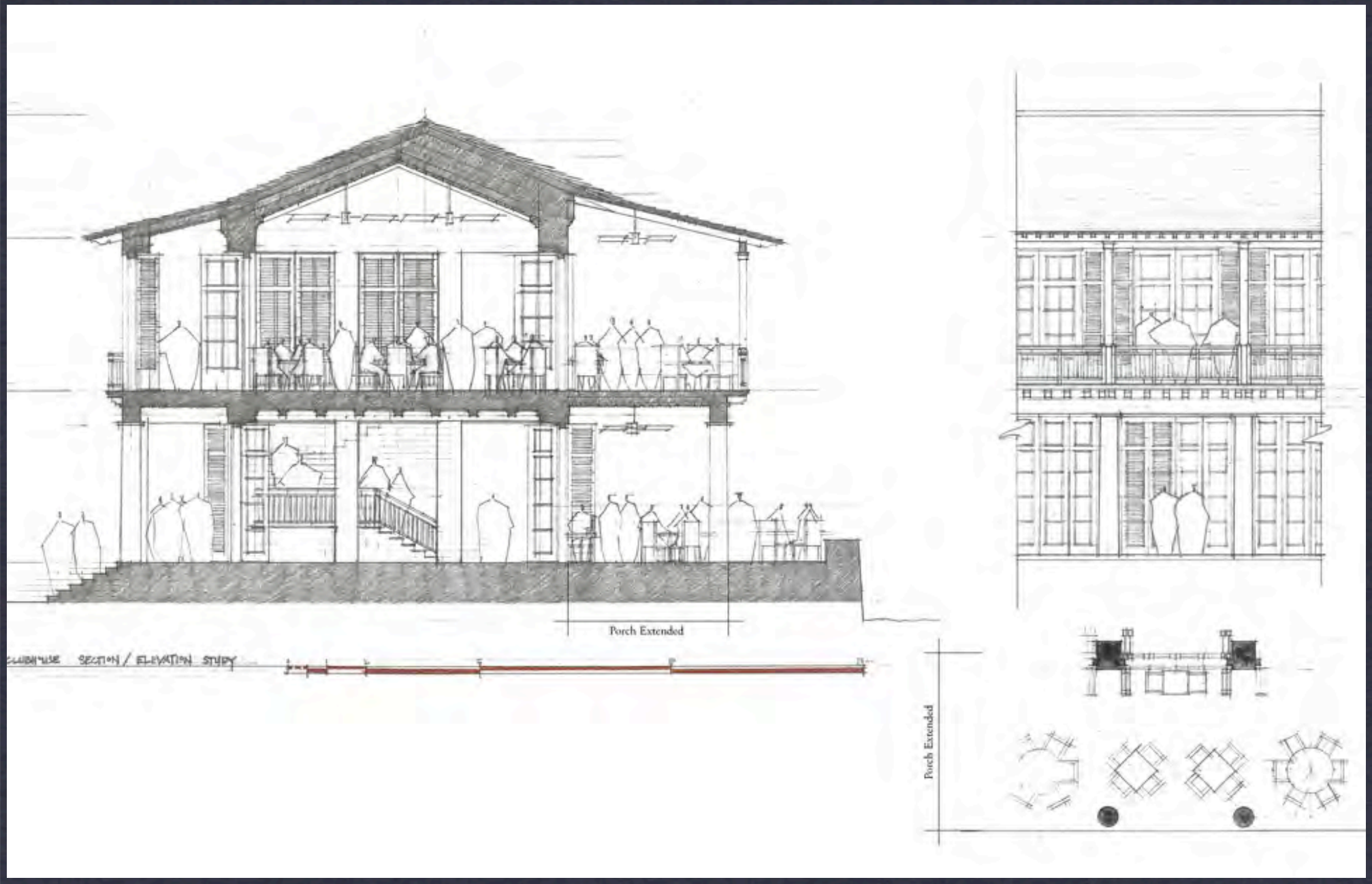

DESIGN AND DRAWING

sections space structure

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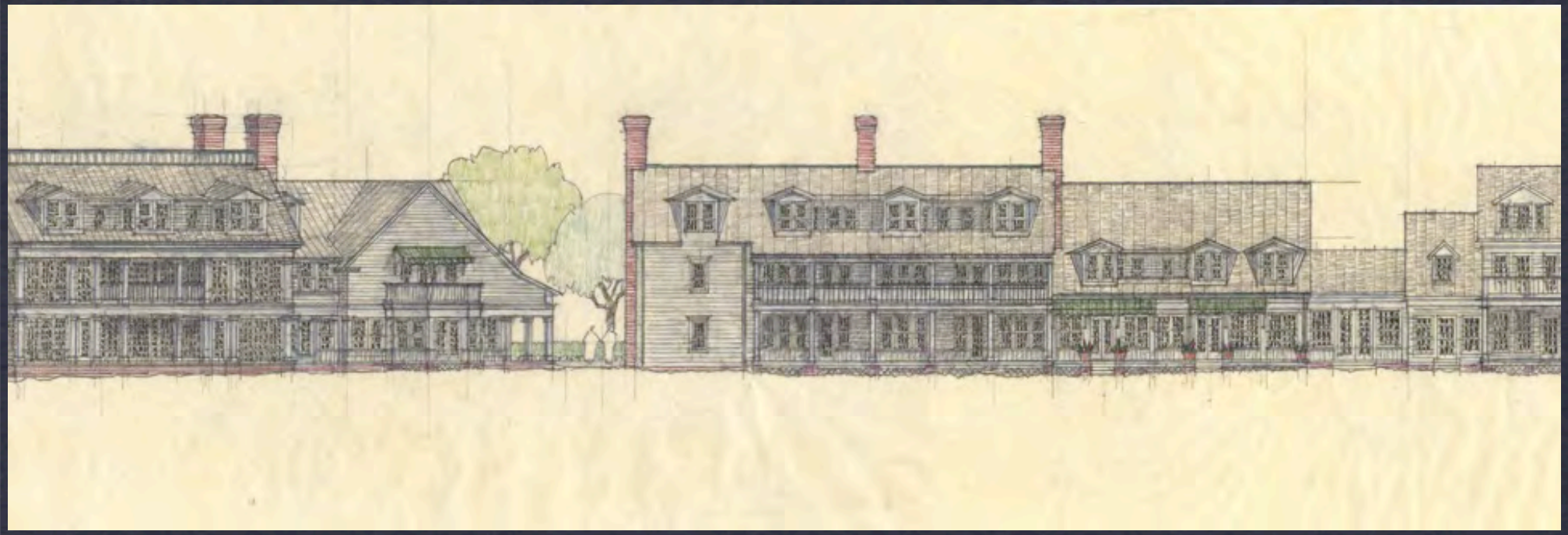

DESIGN AND DRAWING

sketch drafting and modeling

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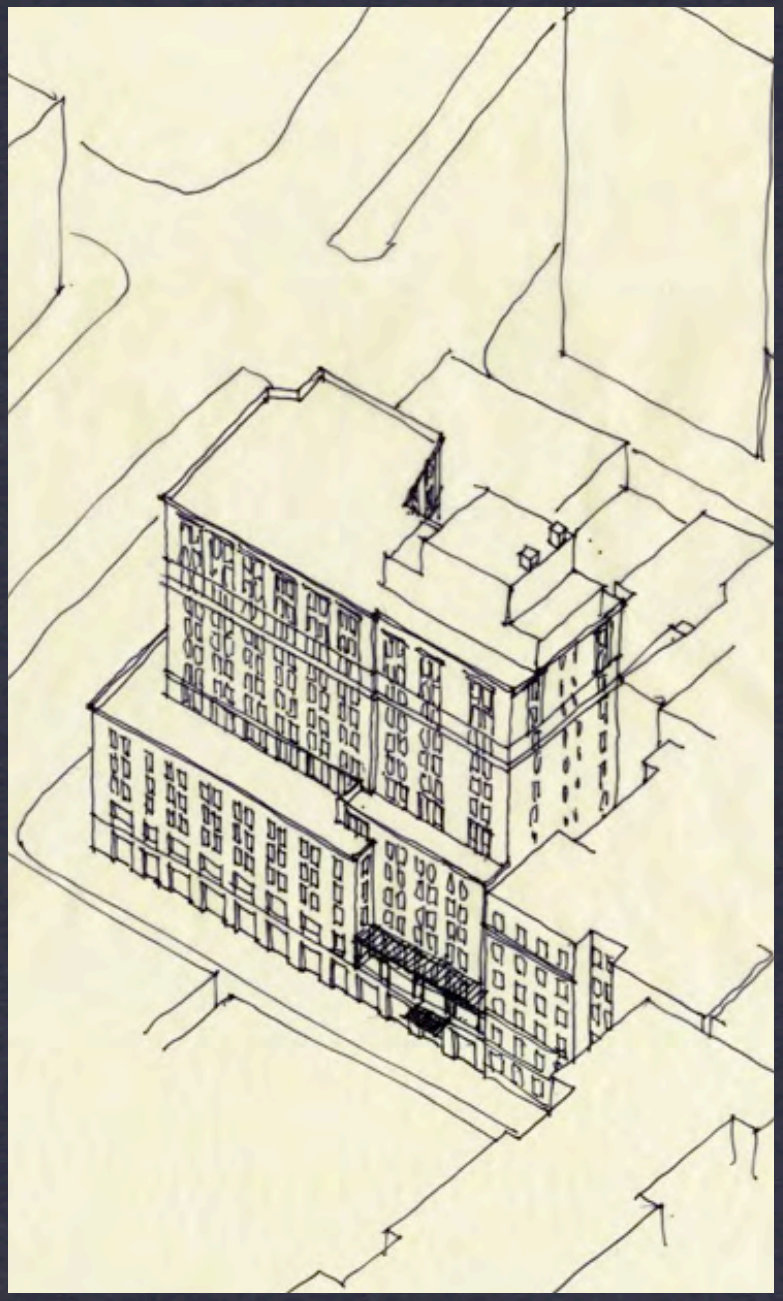

DESIGN AND DRAWING

working in context

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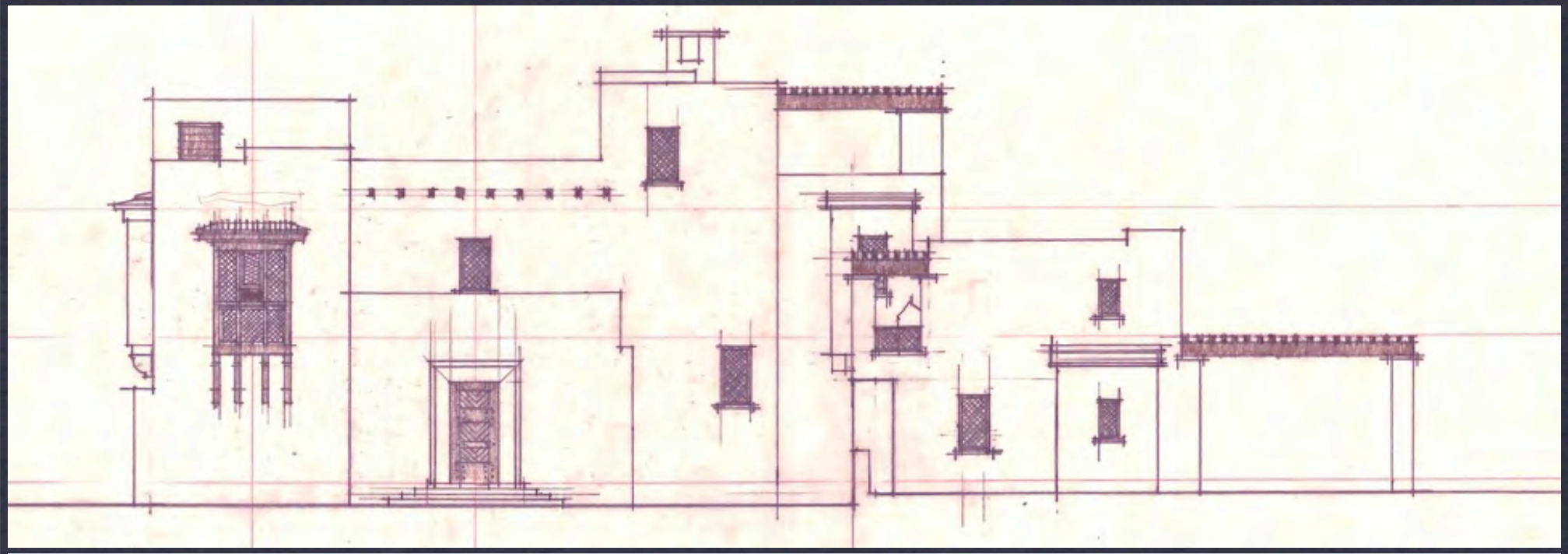

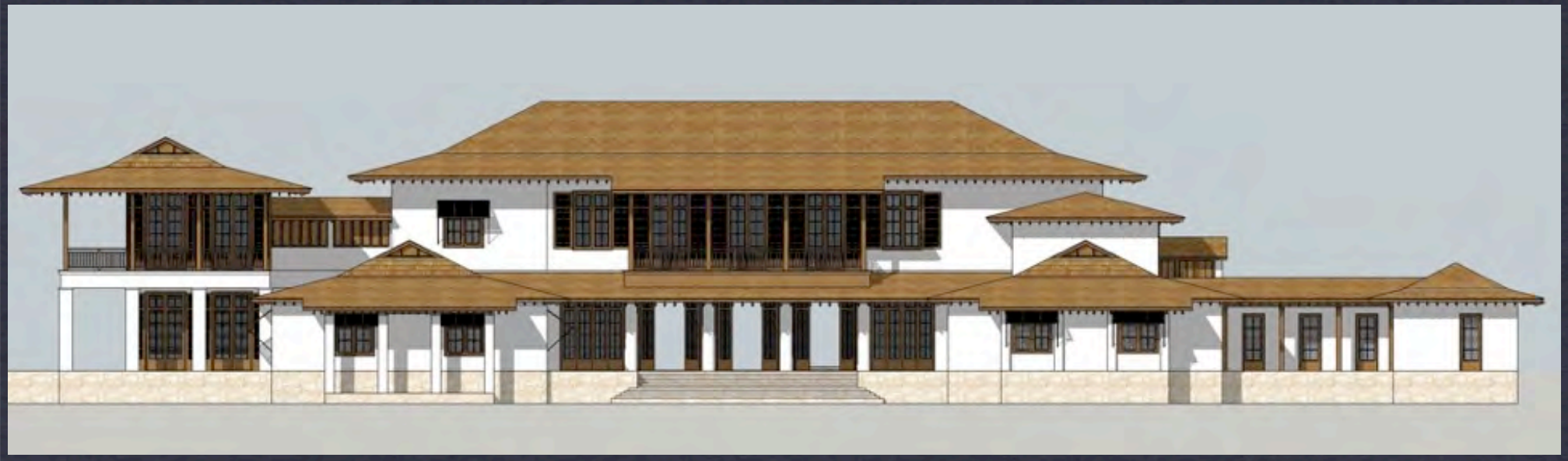

DESIGN AND DRAWING

drafting and modeling

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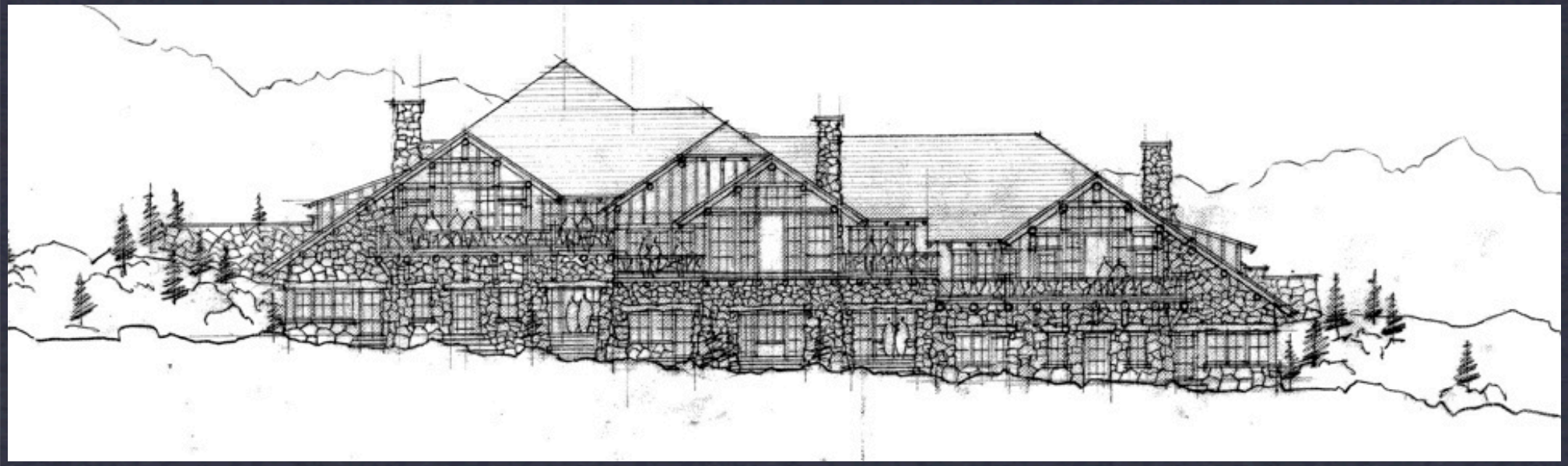

DESIGN AND DRAWING

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site elevations

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DESIGN AND DRAWING

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perspectives

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DESIGN AND DRAWING

site sections

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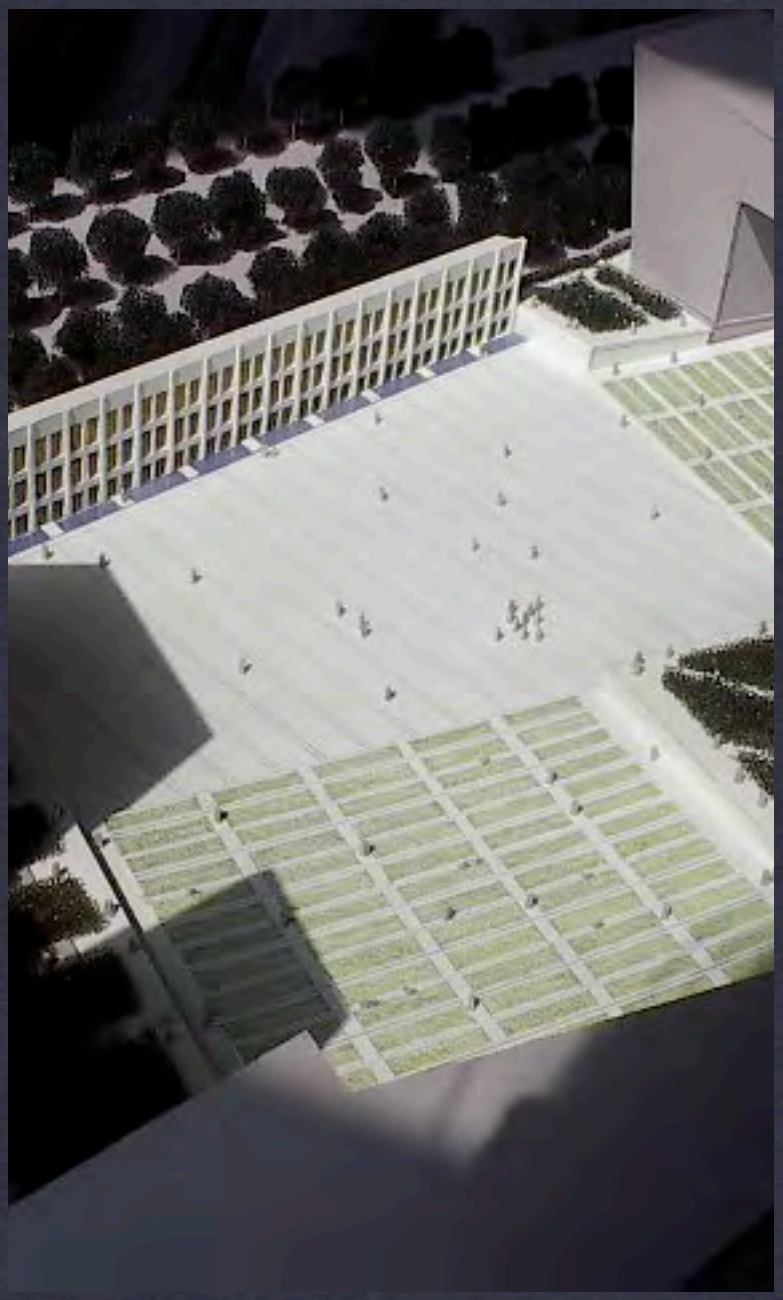

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modeling for success

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DESIGN AND DRAWING

professor Montgomery

modeling for success

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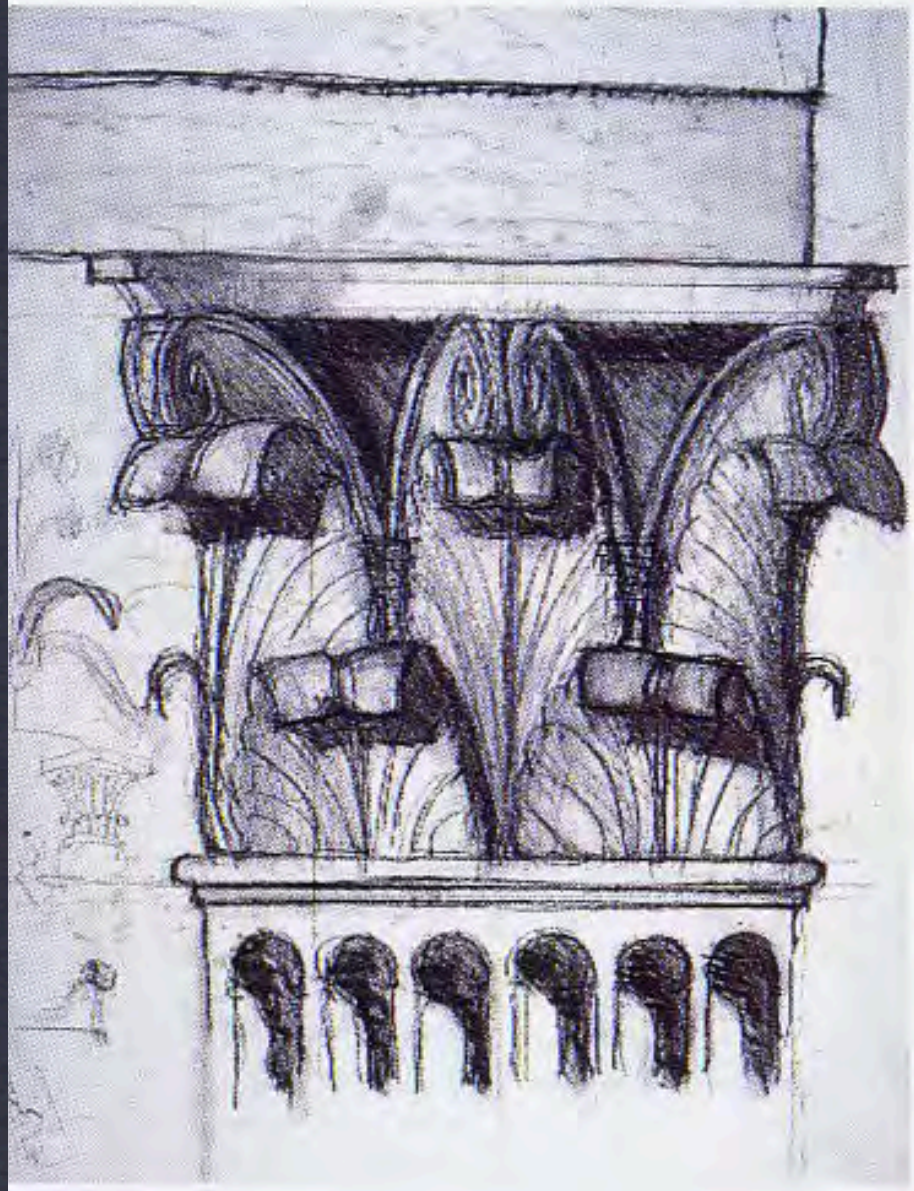

DESIGN AND DRAWING

crafting the details

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DESIGN AND DRAWING

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decisive design

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COMMUNICATING DESIGN

rendering to sell the idea

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COMMUNICATING DESIGN

rendering to sell the idea

professor Montgomery

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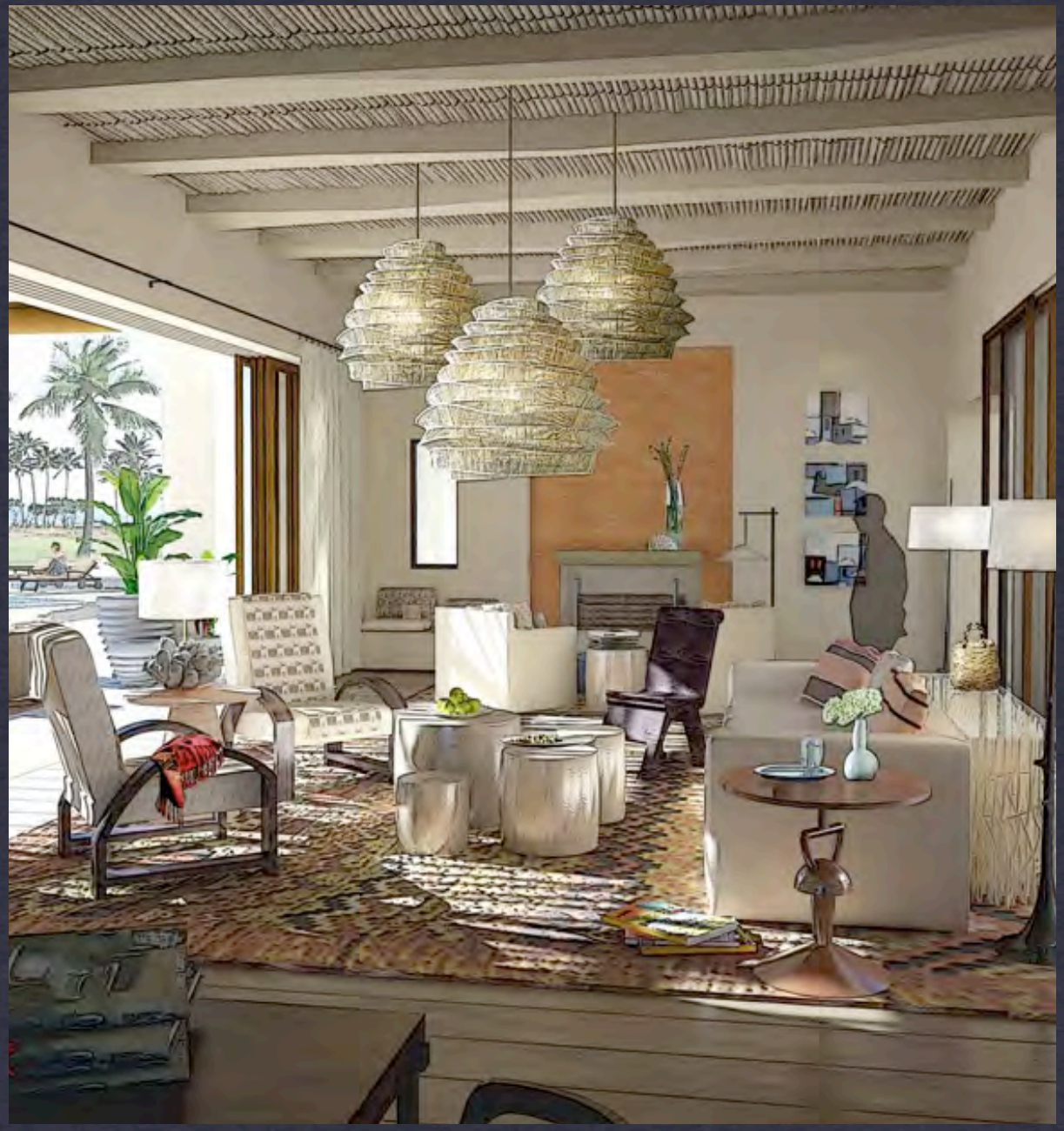

COMMUNICATING DESIGN

rendering to sell the idea

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BUILDING + DRAWING translating concept to construction

professor Montgomery

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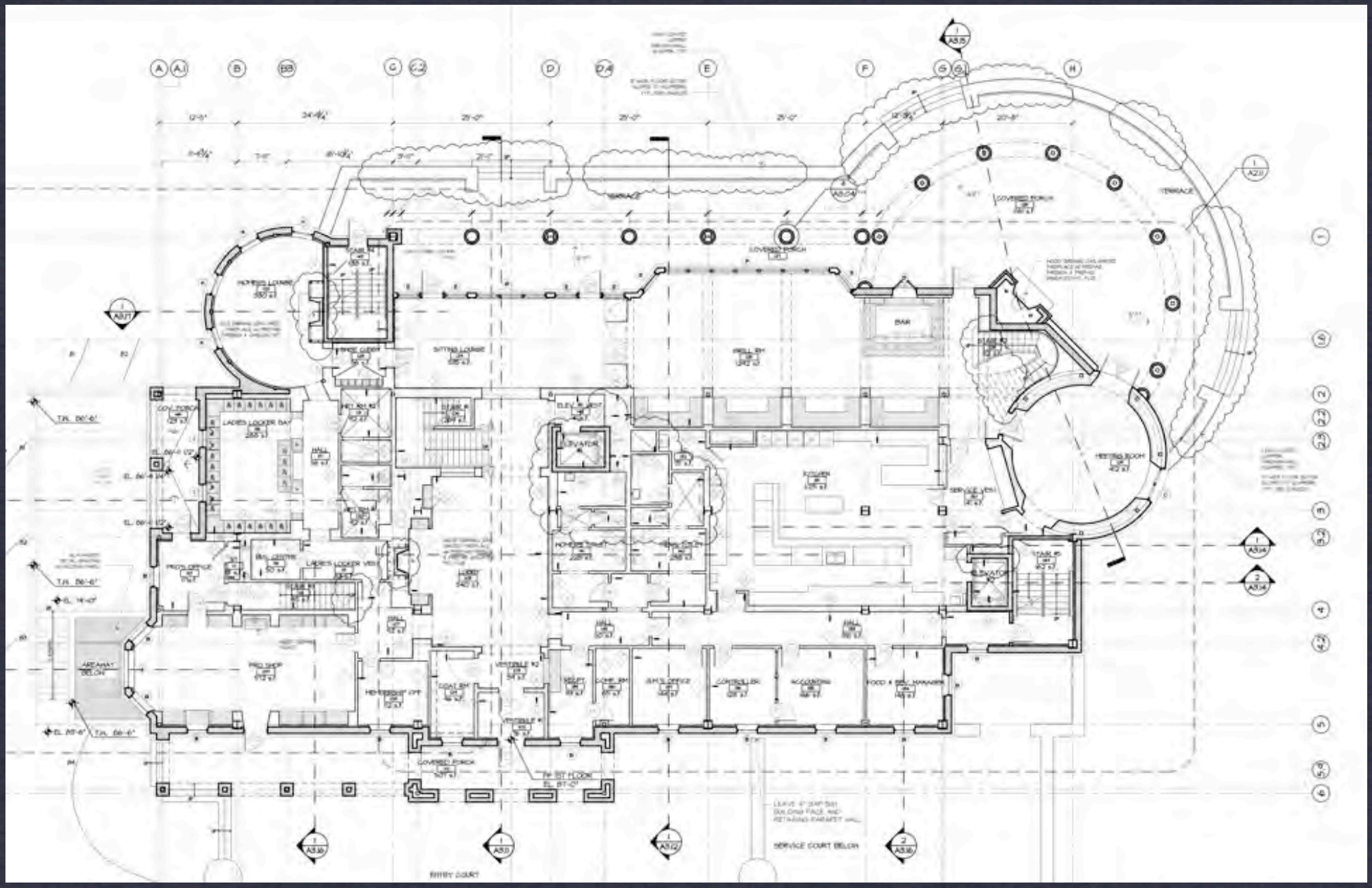

BUILDING + DRAWING

construction documents

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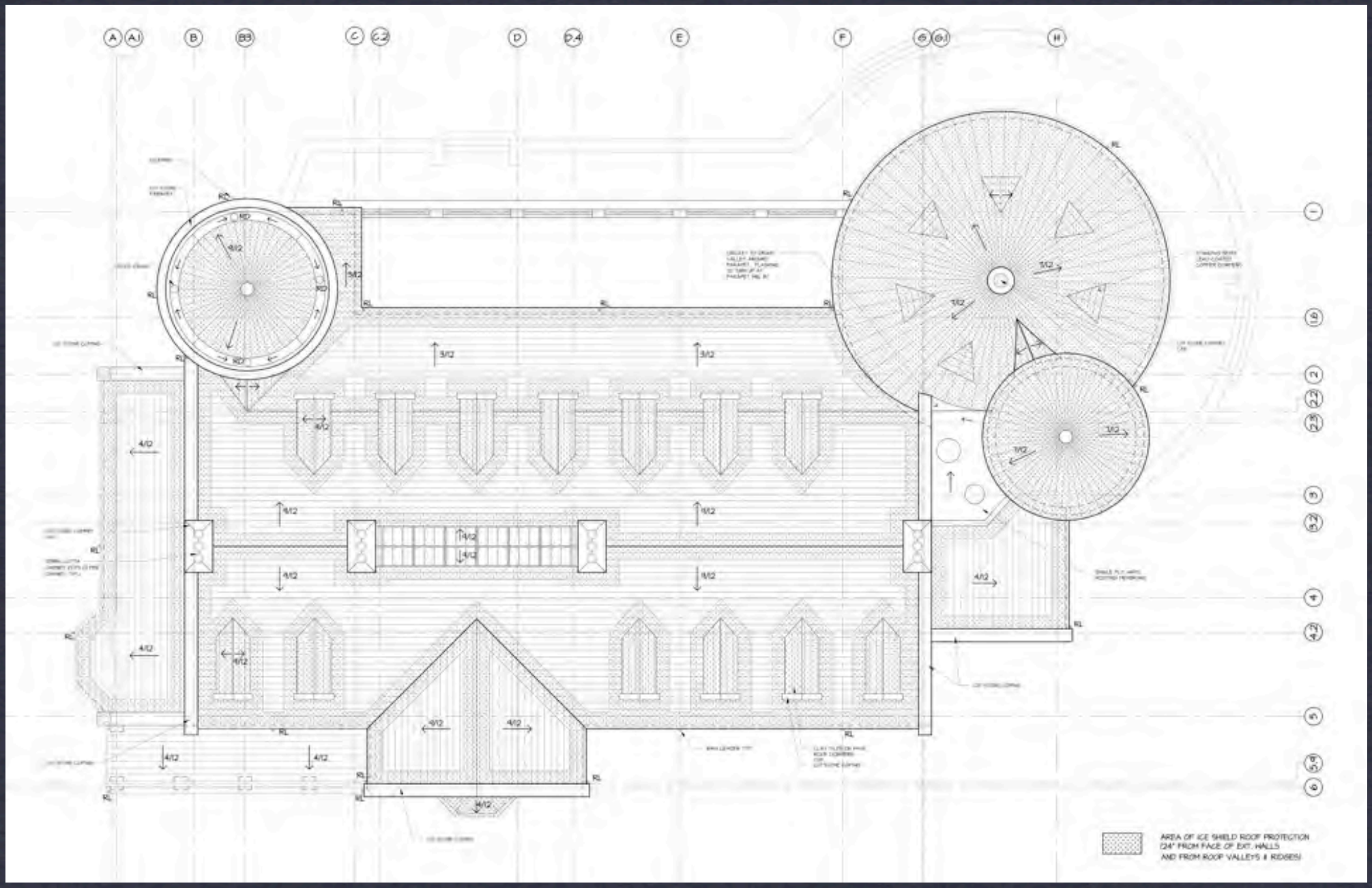

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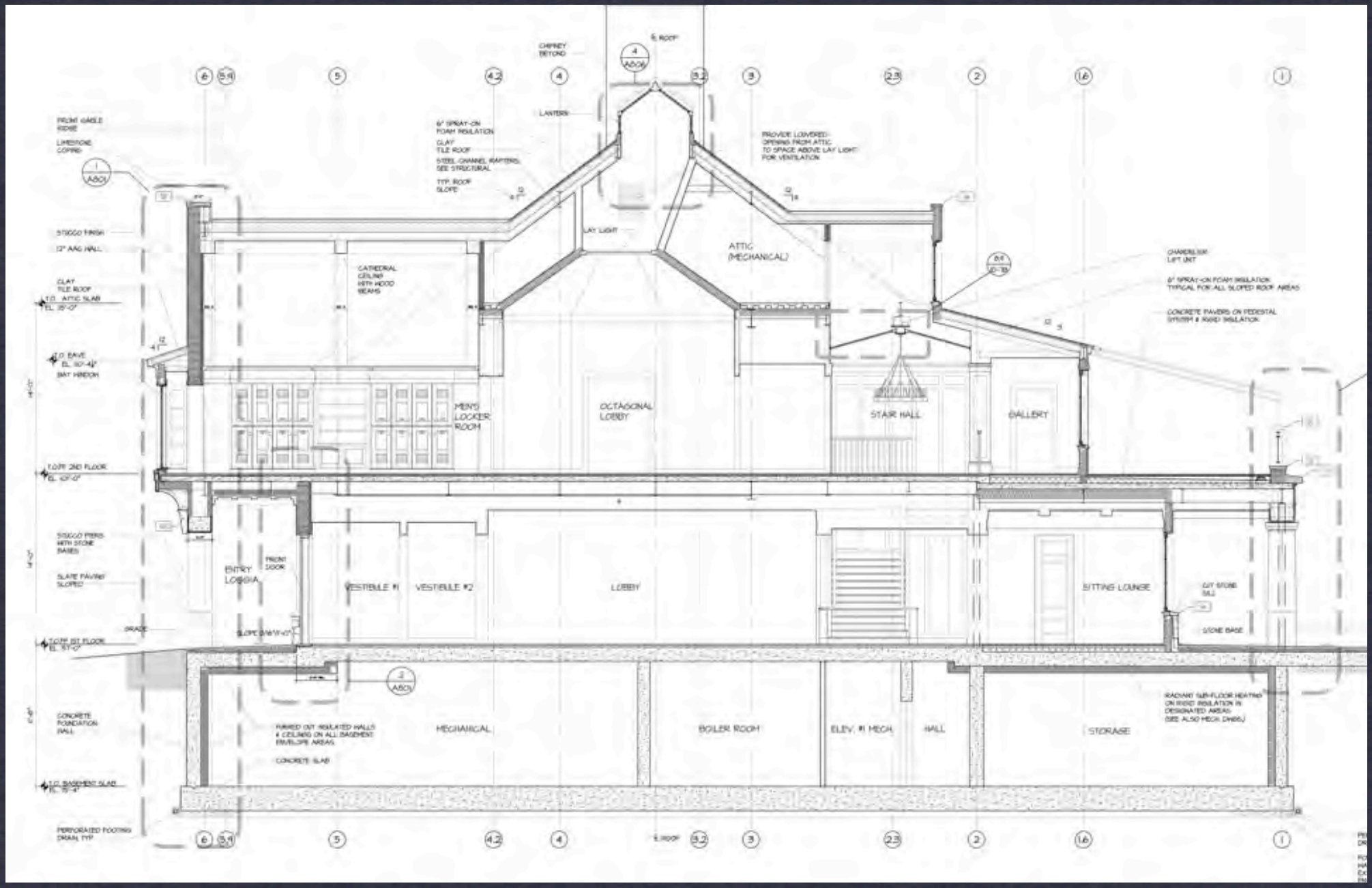

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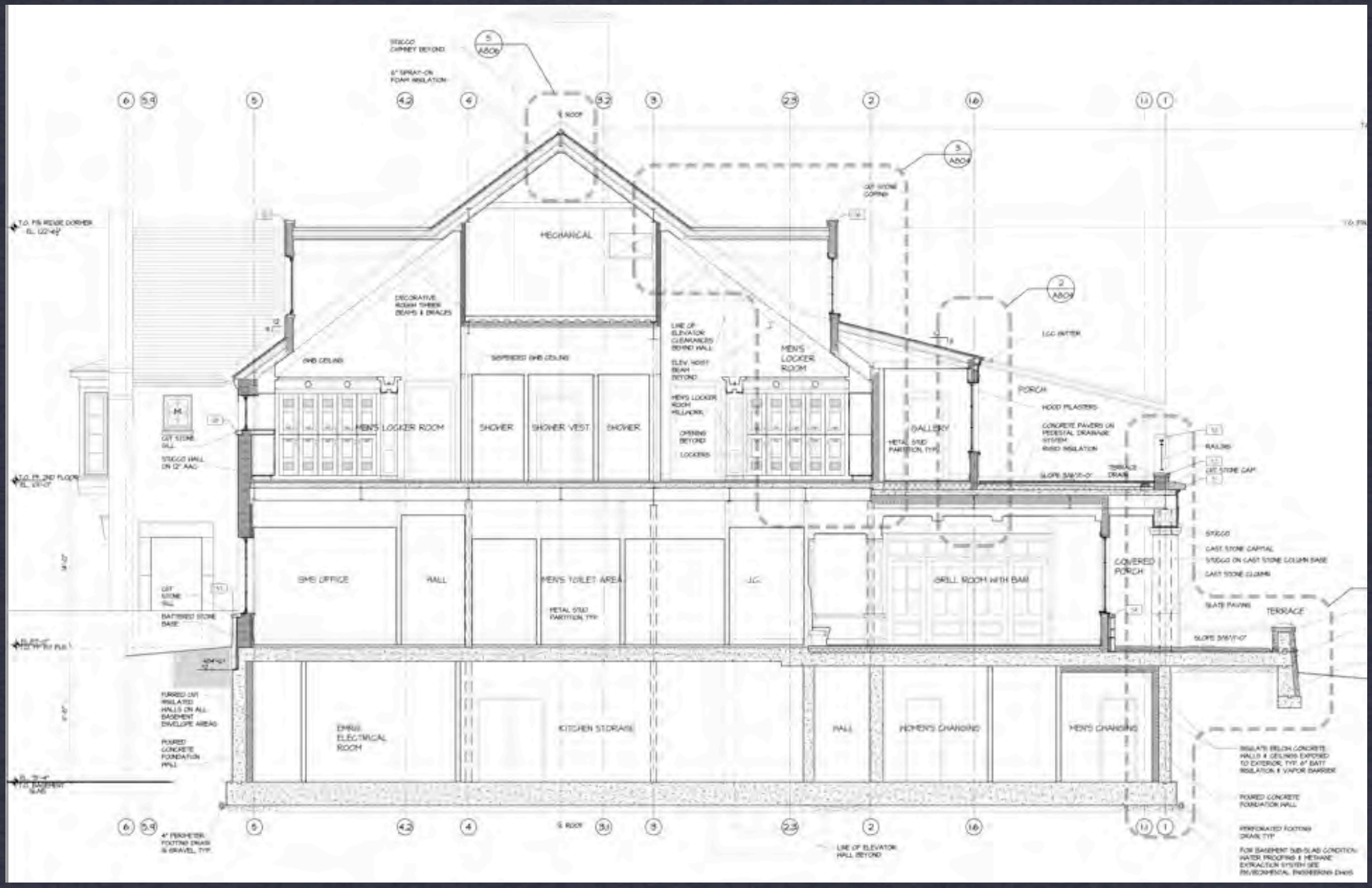

BUILDING + DRAWING

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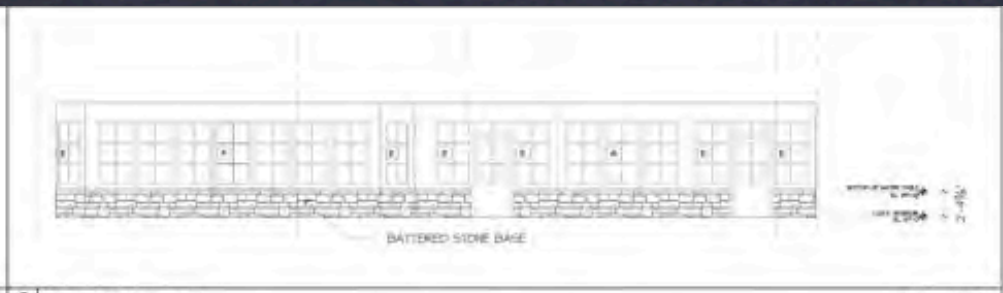
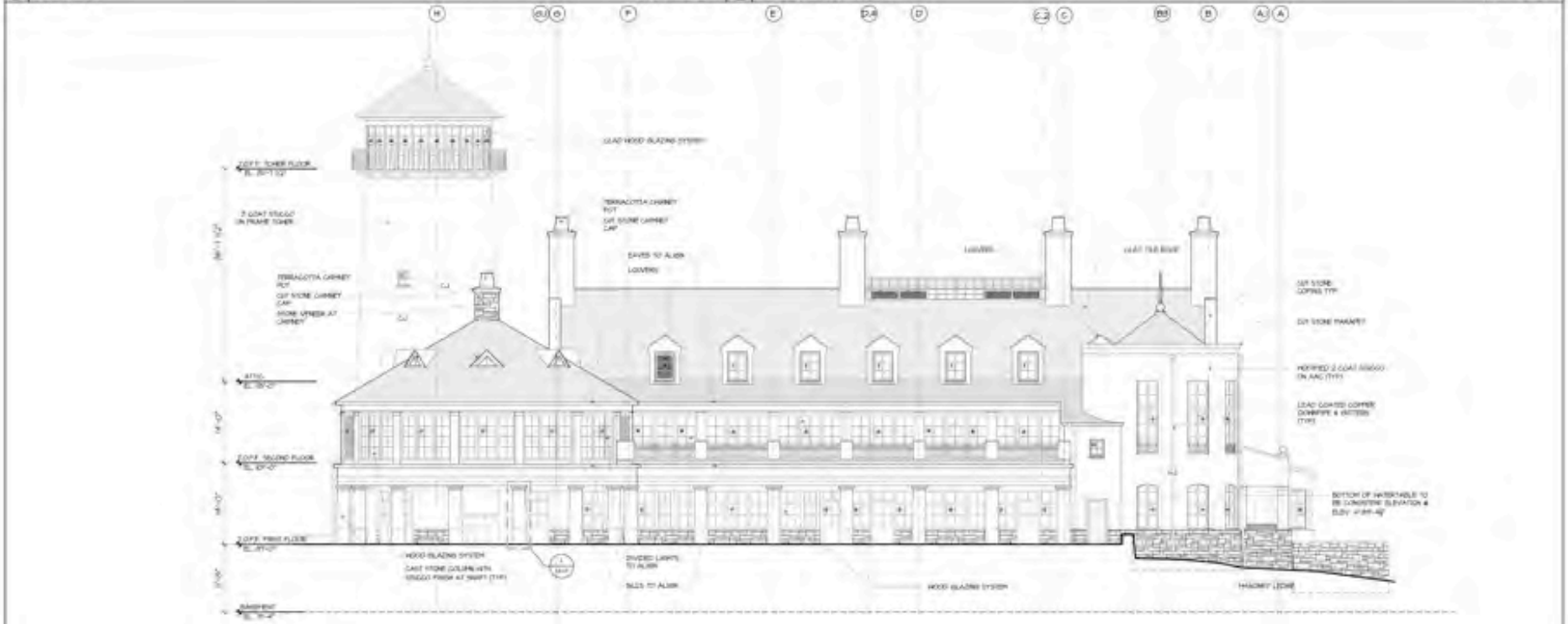
3 FIREPLACE 3/16" = 1'-0"



2 GRILL ROOM WINDOWS 3/16" = 1'-0"



1 REAR ELEVATION 1/4" = 1'-0"

HART HOWERTON | Architecture

BAYONNE GOLF CLUB
GOLF CLUBHOUSE
Bayonne, New Jersey

REVISIONS

DRAWING TITLE: REAR ELEVATION

DRAWING NO. A3.02

BUILDING + DRAWING

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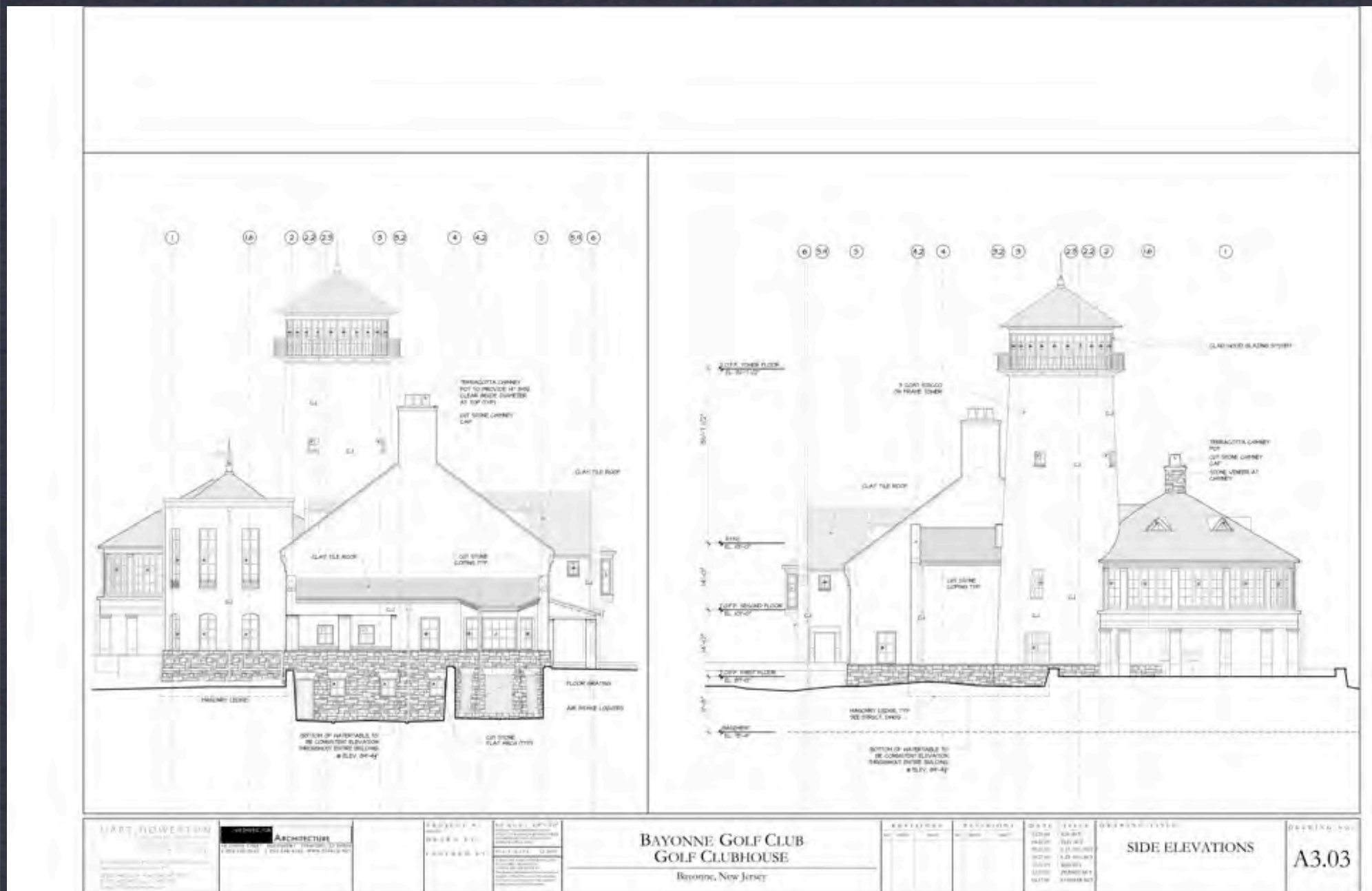

BUILDING + DRAWING

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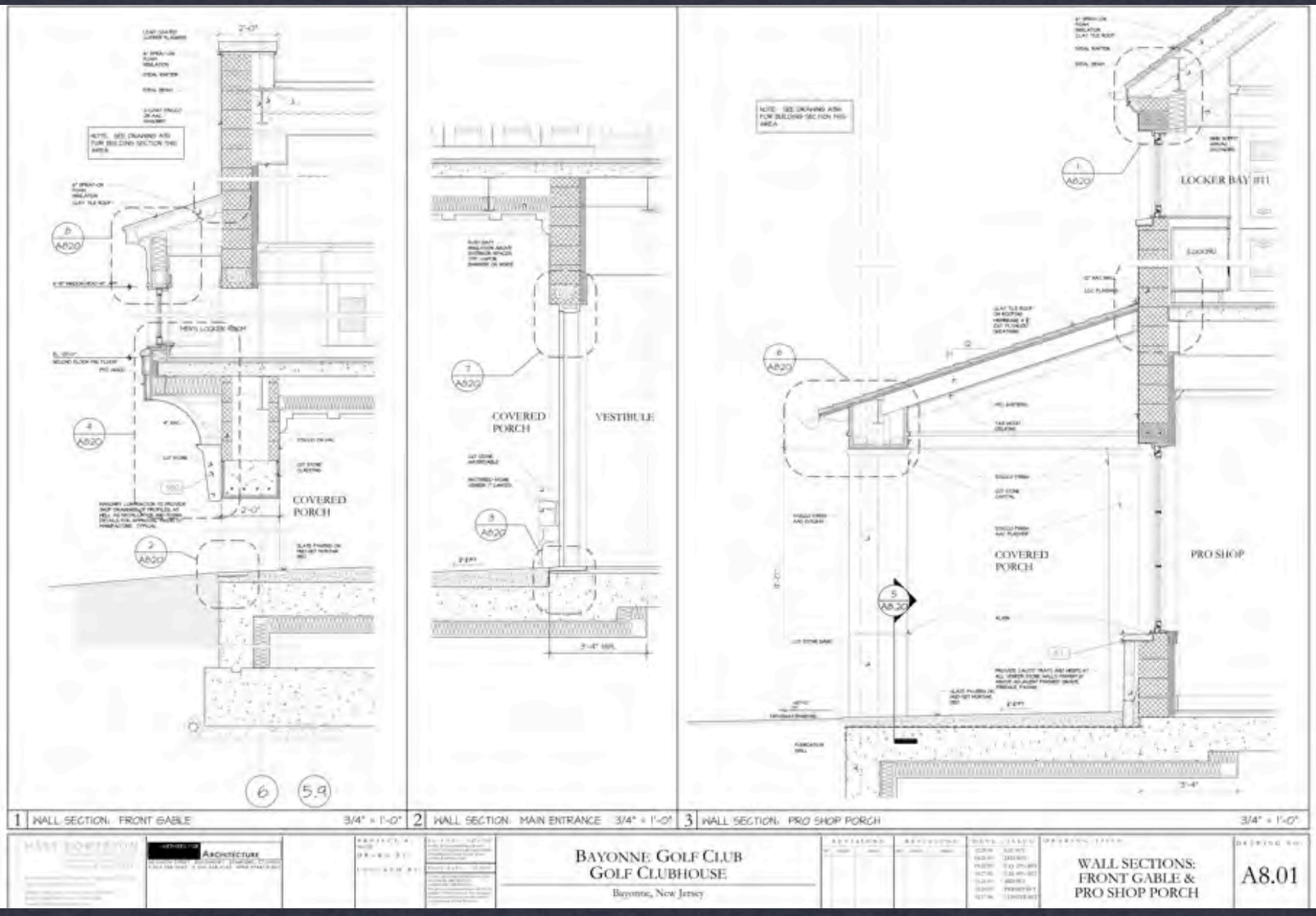

BUILDING + DRAWING

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construction documents

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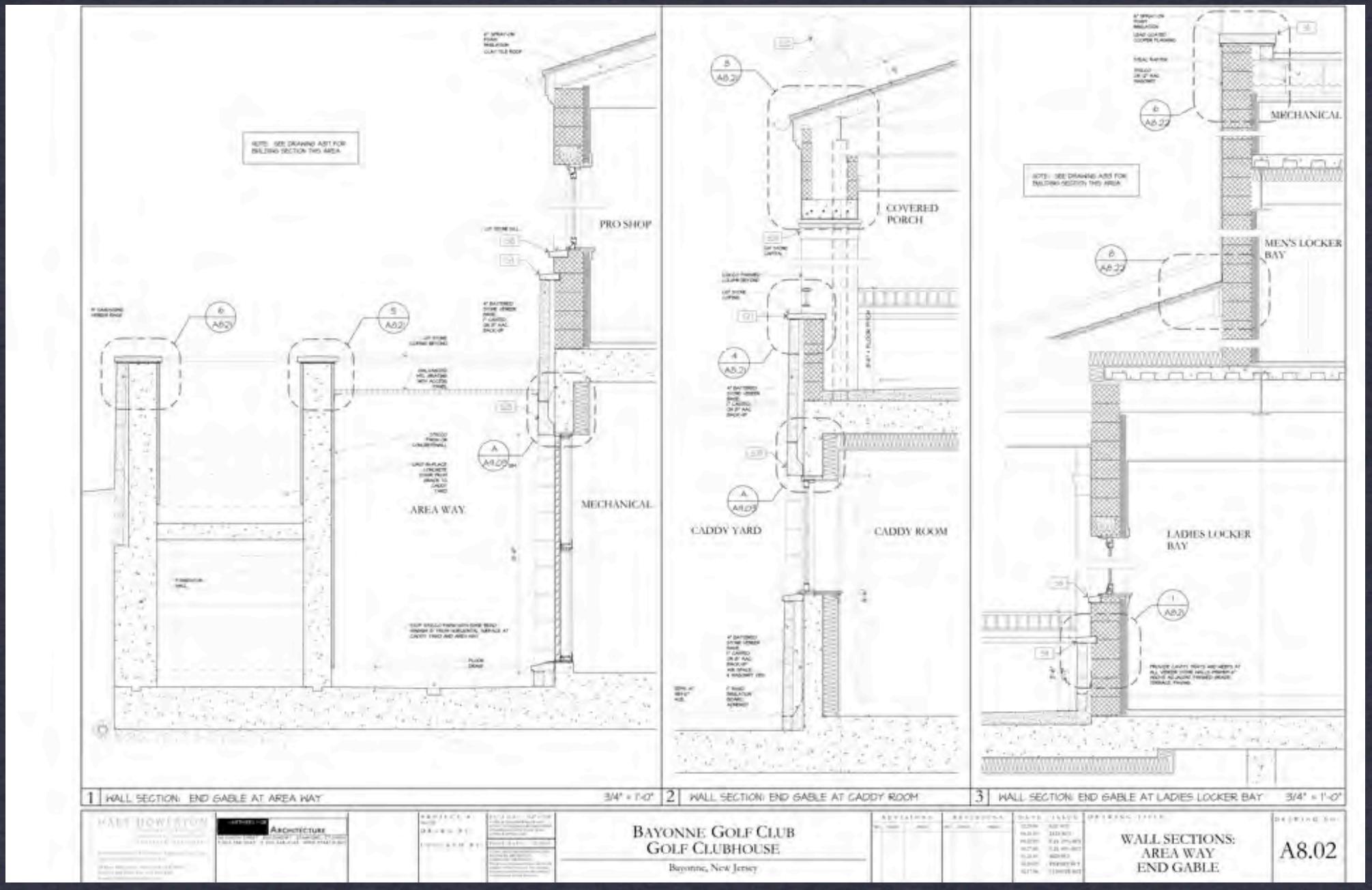

BUILDING + DRAWING

construction documents

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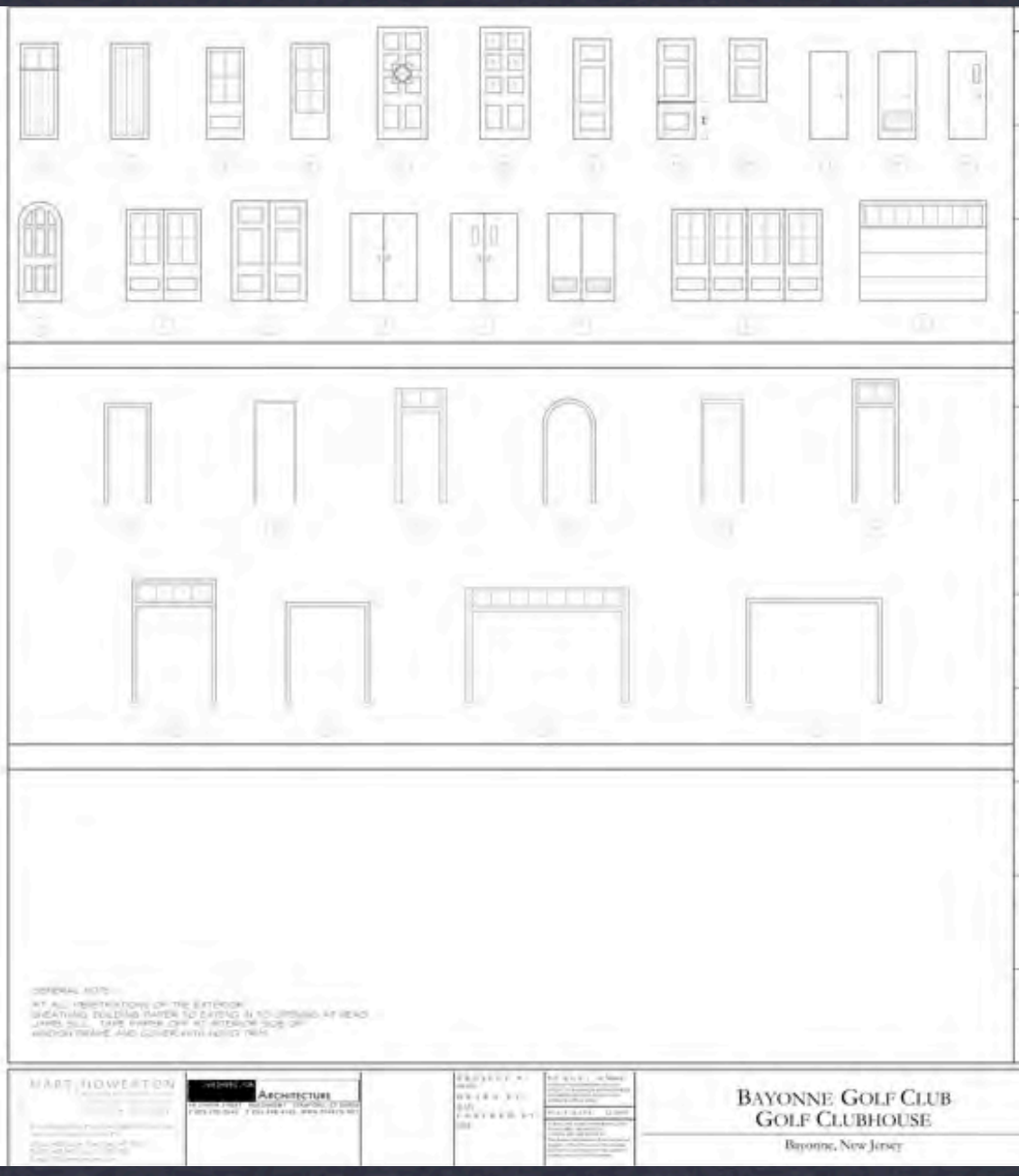

BAYONNE GOLF CLUB
GOLF CLUBHOUSE
Bayonne, New Jersey

Door Elevations &
Hardware Schedule

A9.01

BUILDING + DRAWING

construction documents

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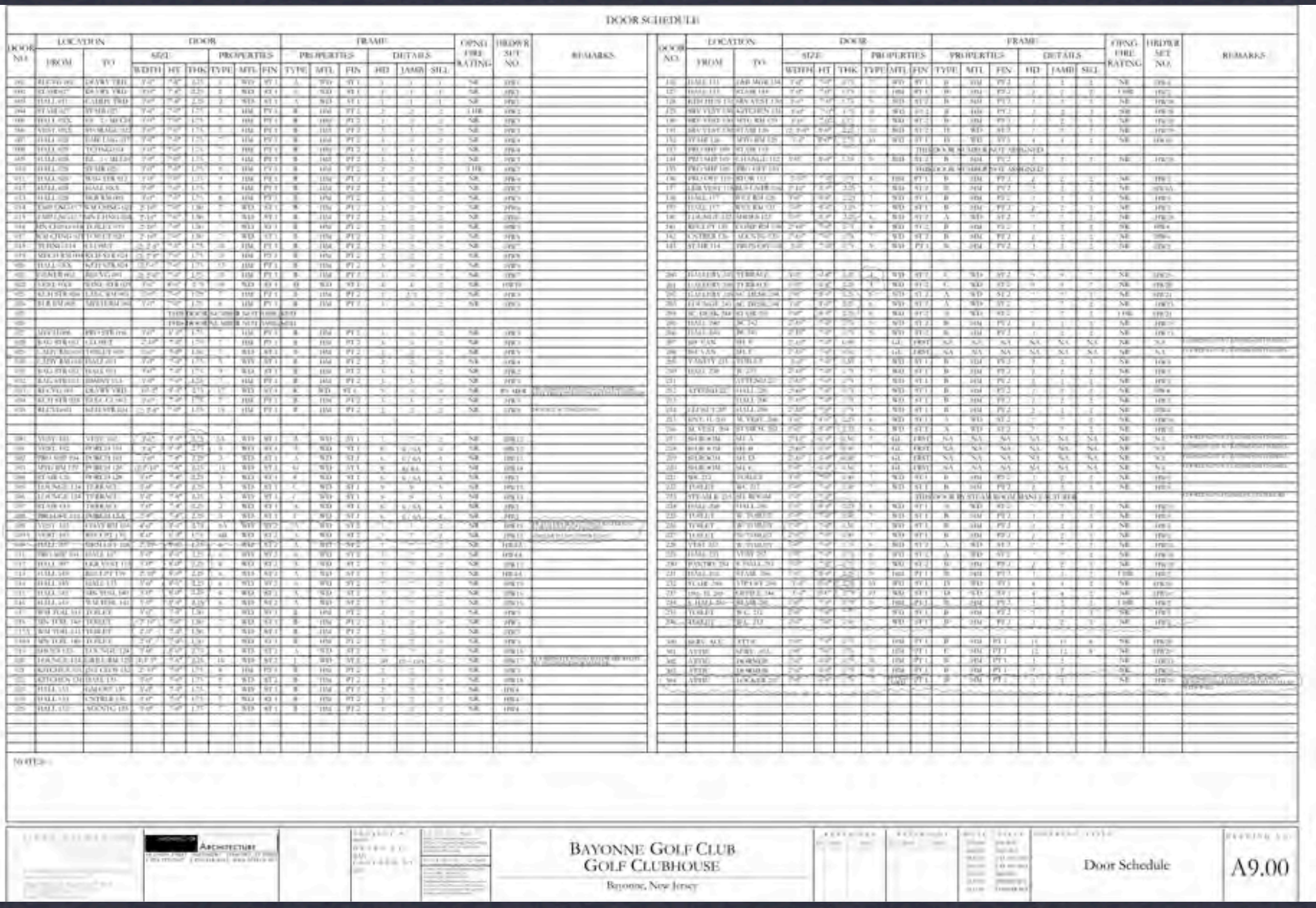

BUILDING + DRAWING

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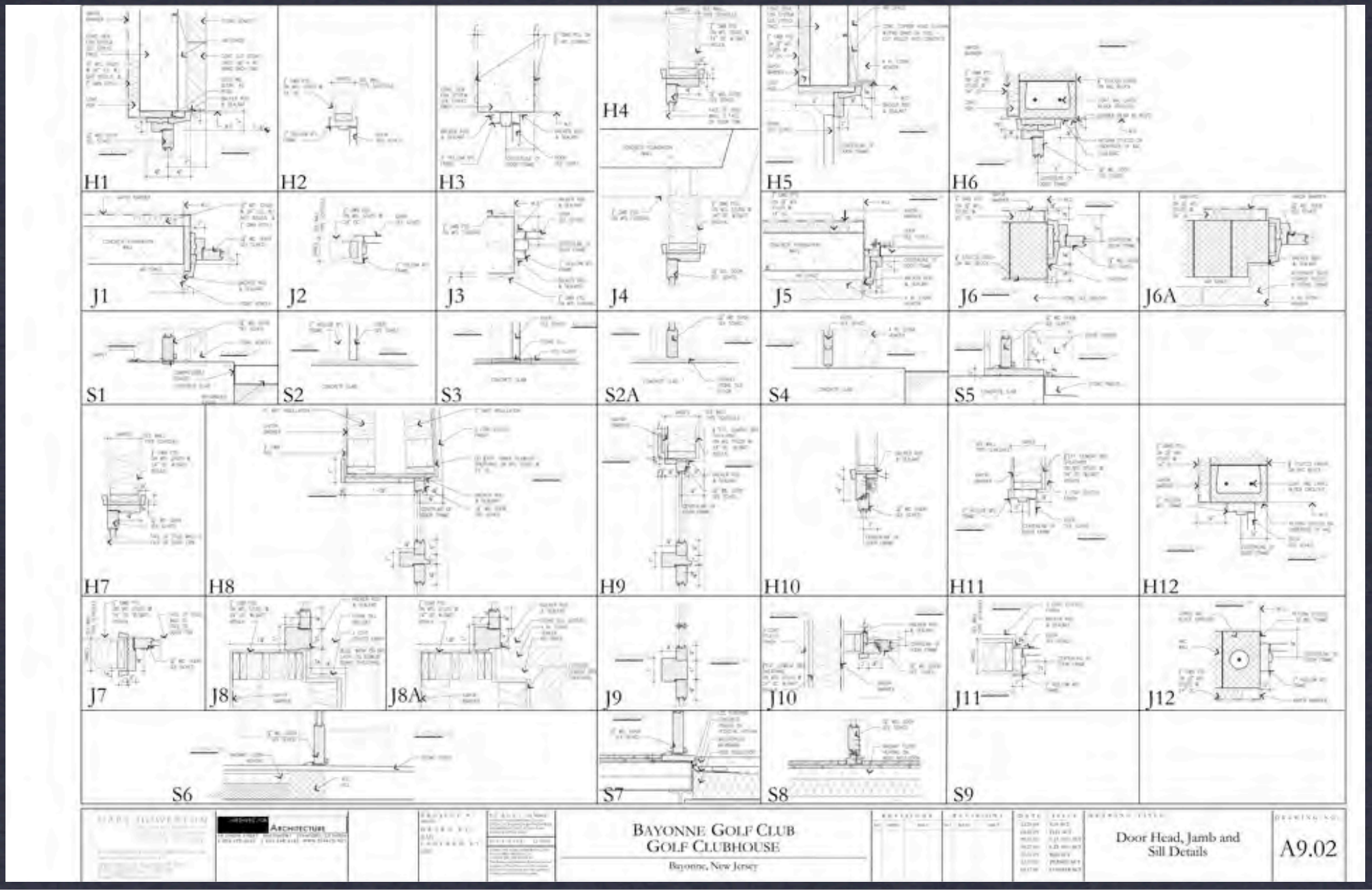

BUILDING + DRAWING

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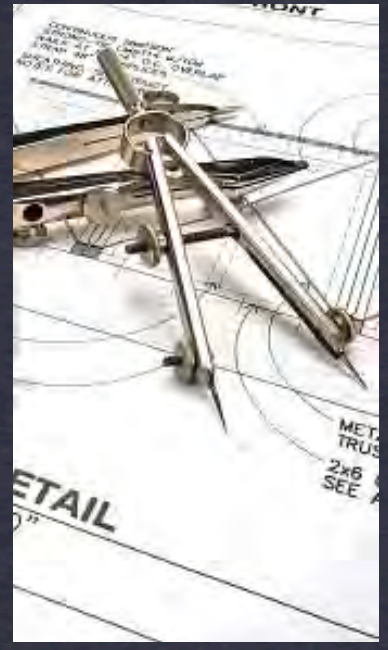


ARCHITECT'S TOOLS

professor Montgomery

drafting by hand

arch 1100 + 1140

ARCHITECT'S TOOLS

drafting by hand

professor Montgomery

arch 1100 + 1140

ARCHITECT'S TOOLS

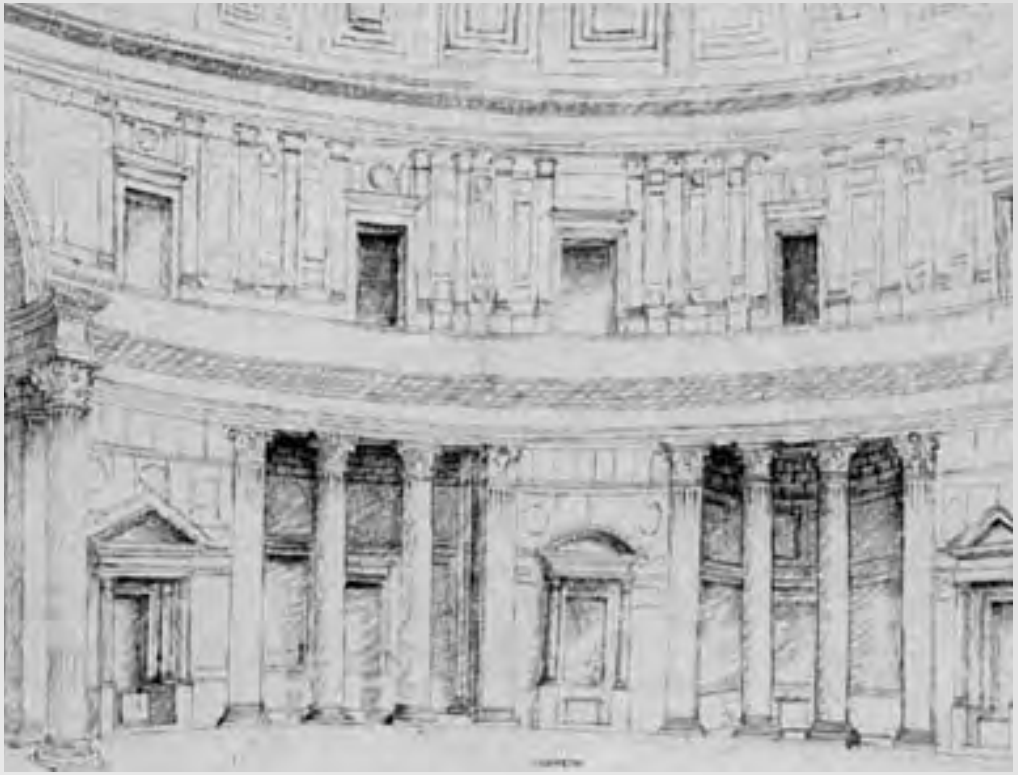
professor Montgomery

digital tools

arch 1100 + 1140

wrap up

DRAWING ALLOWS ARCHITECTS TO TEST IDEAS, TO DEFINE THE SCOPE OF WORK, TO SELL THE IDEA TO THE CLIENT + THE PUBLIC



- drawing + thinking freely - lines are schematic
- precision - when drawings are legal and contractual
- must determine the purpose of the drawing
- good drawings start with careful observation
- artistic versus mechanical