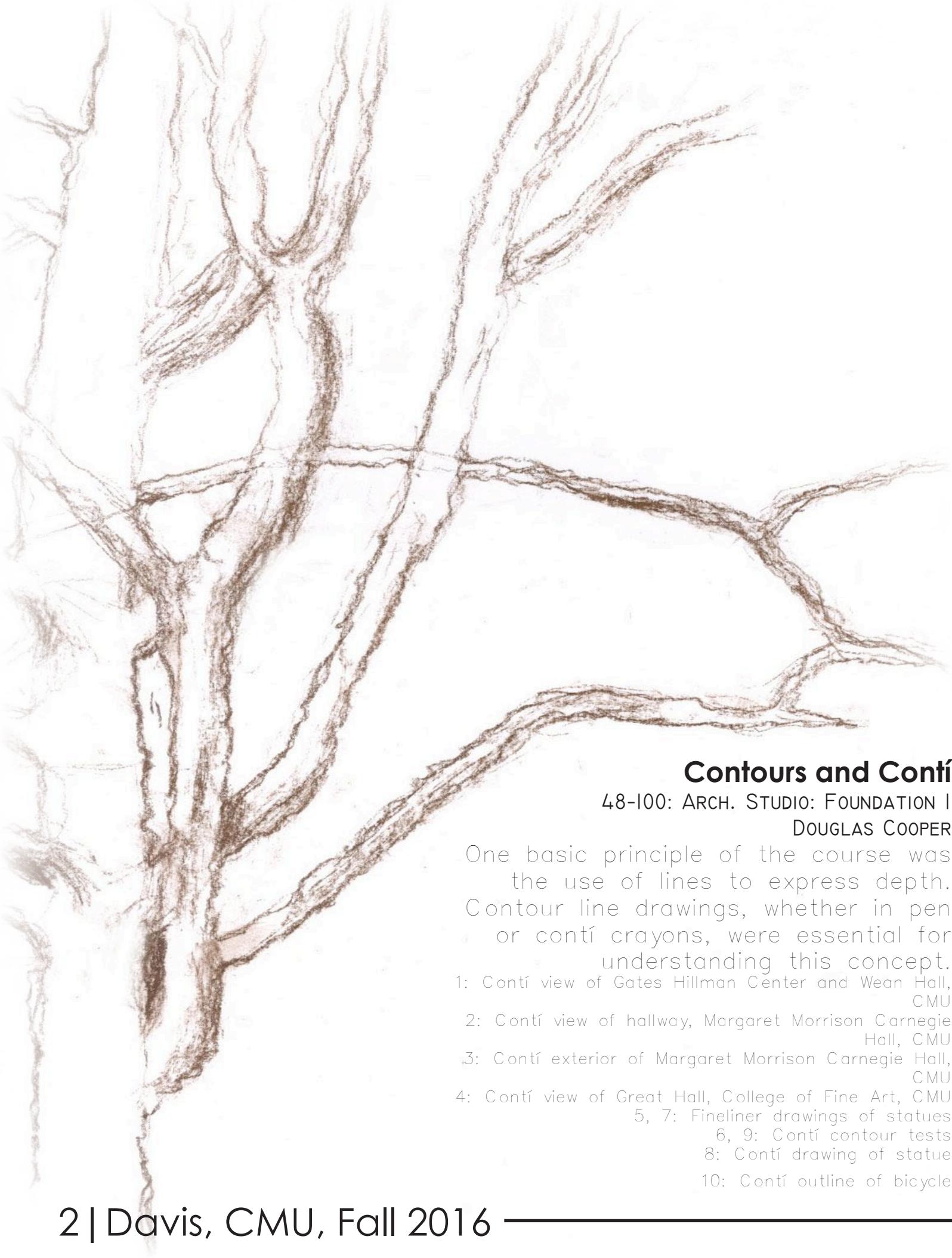


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B. Arch, Class of 2021
Fall 2016

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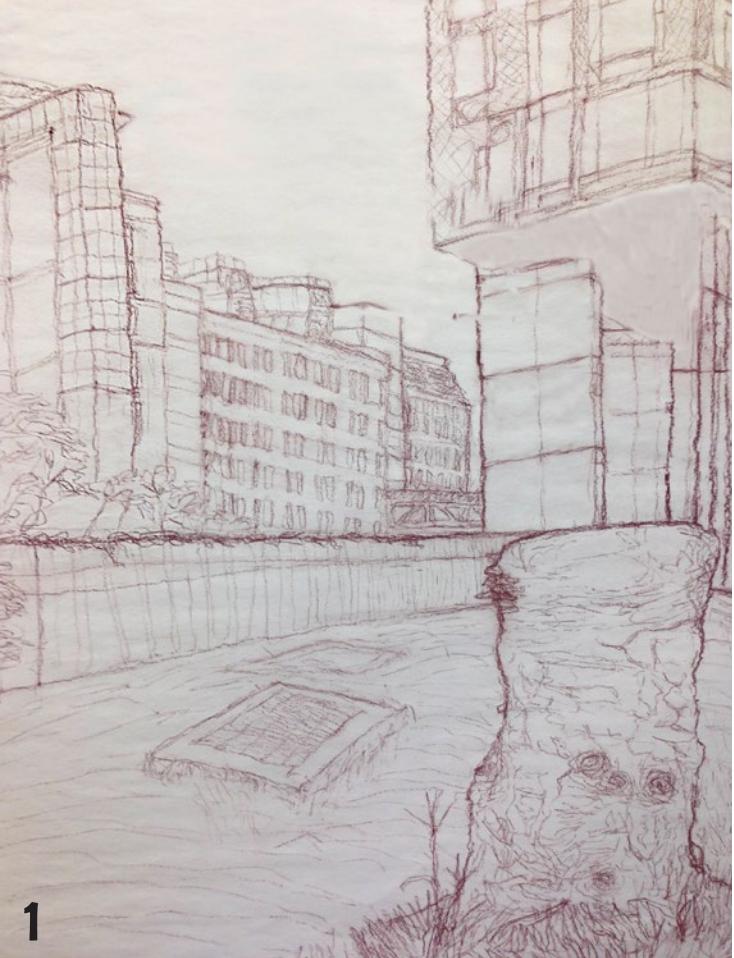


Contours and Contí

48-100: ARCH. STUDIO: FOUNDATION I
DOUGLAS COOPER

One basic principle of the course was the use of lines to express depth. Contour line drawings, whether in pen or contí crayons, were essential for understanding this concept.

- 1: Contí view of Gates Hillman Center and Wean Hall, CMU
- 2: Contí view of hallway, Margaret Morrison Carnegie Hall, CMU
- 3: Contí exterior of Margaret Morrison Carnegie Hall, CMU
- 4: Contí view of Great Hall, College of Fine Art, CMU
- 5, 7: Fineliner drawings of statues
- 6, 9: Contí contour tests
- 8: Contí drawing of statue
- 10: Contí outline of bicycle



1



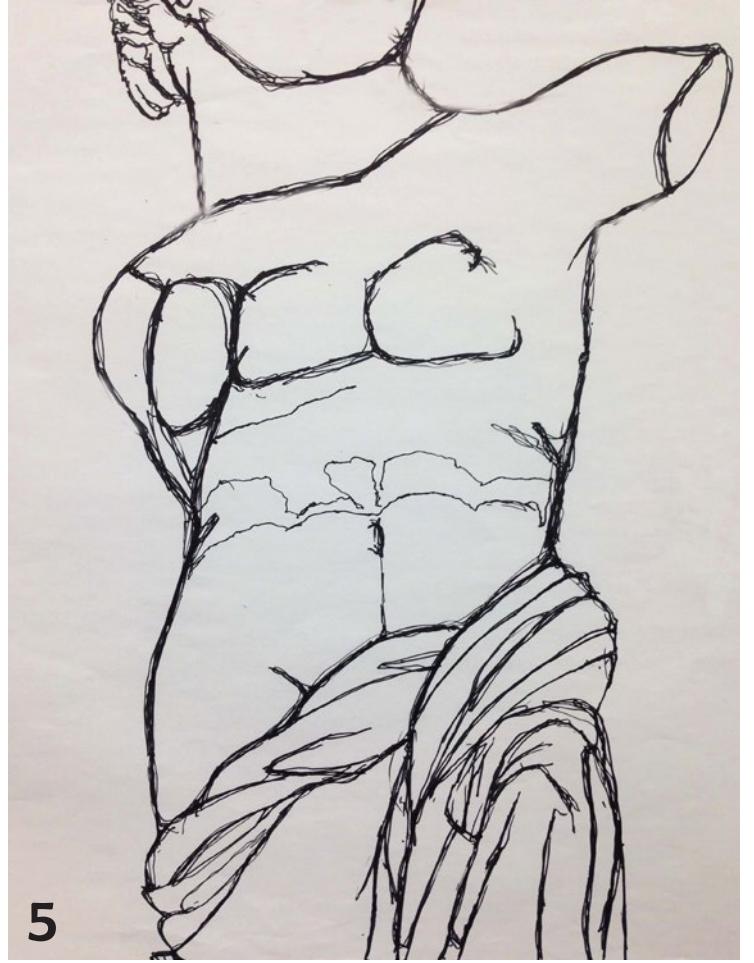
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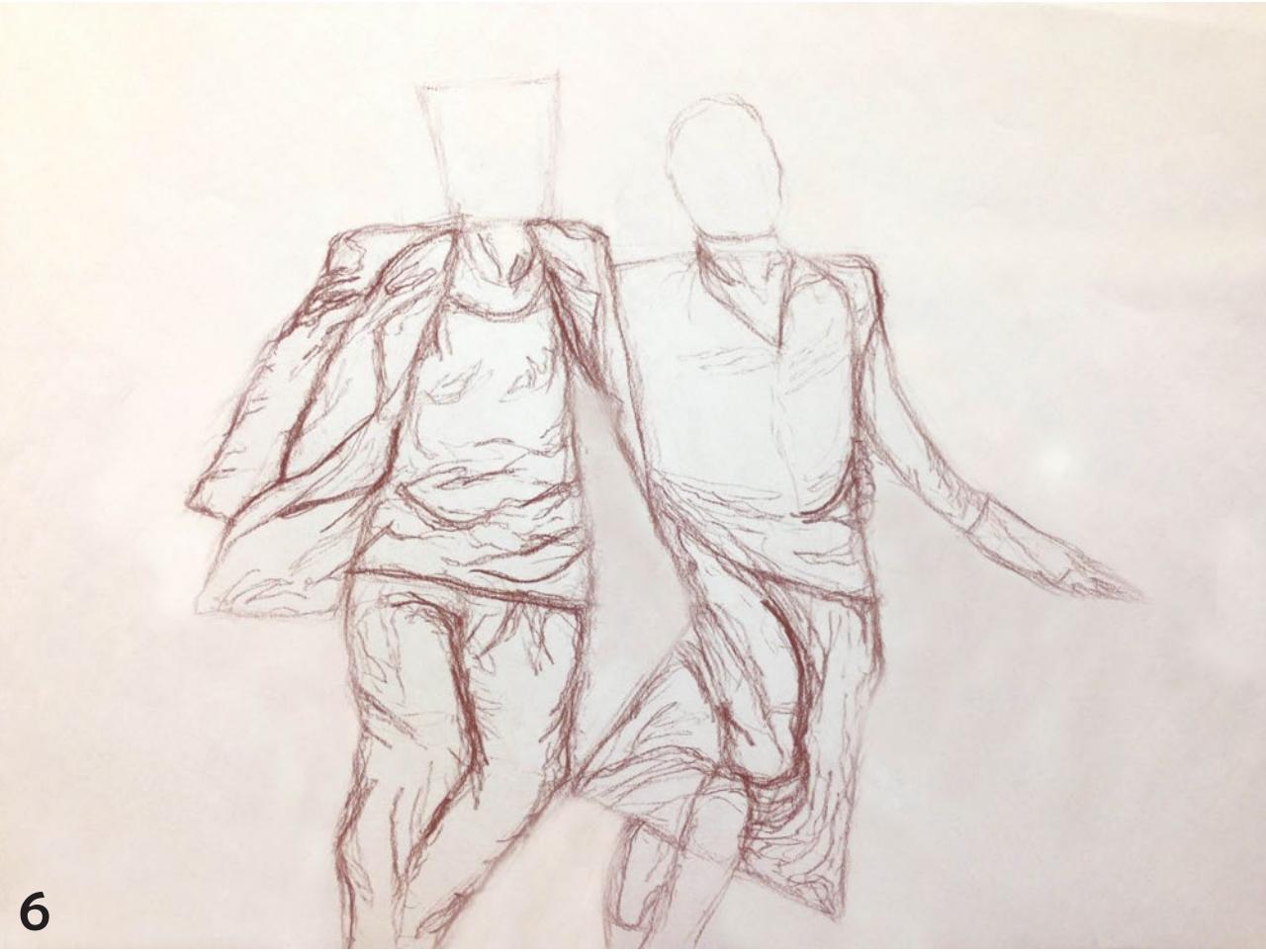
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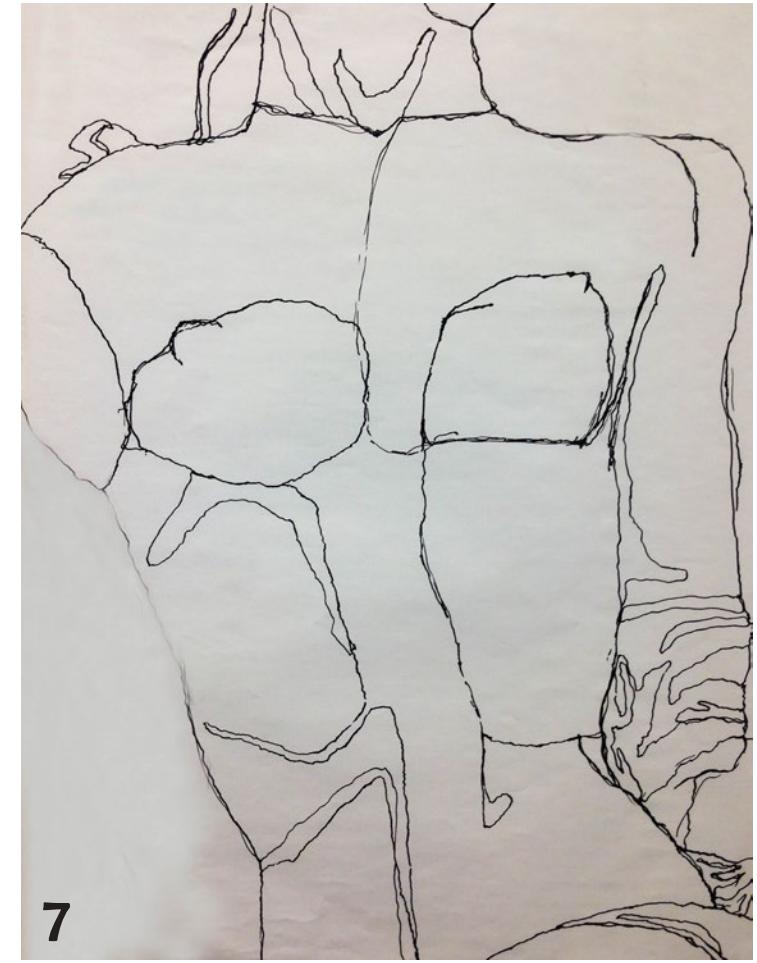
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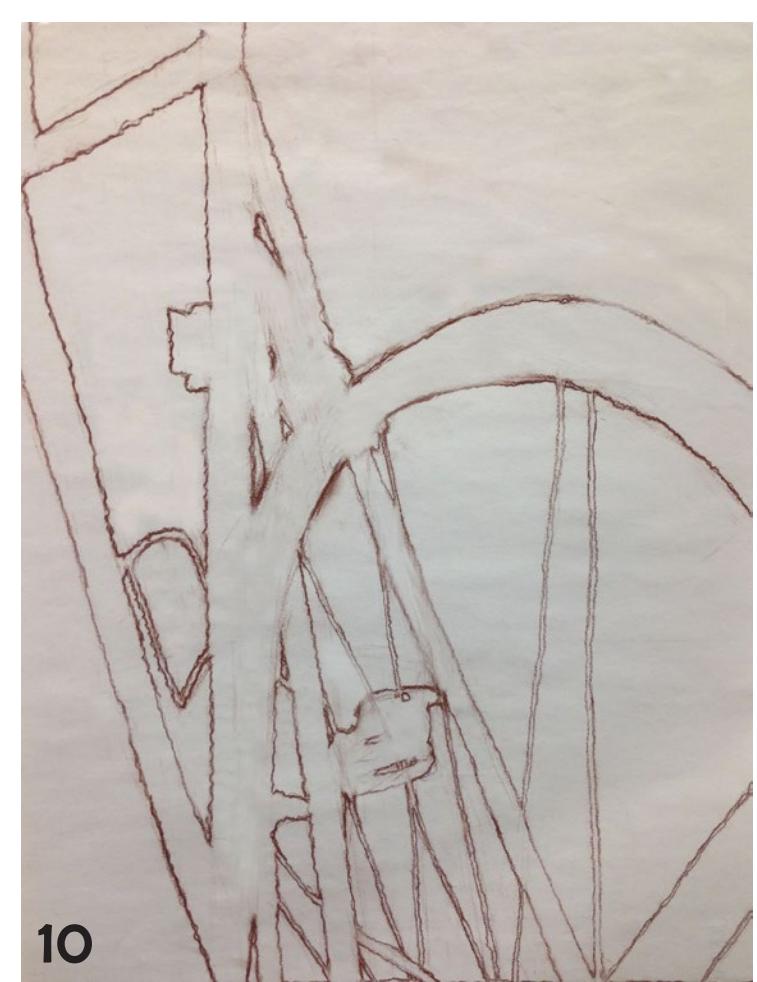
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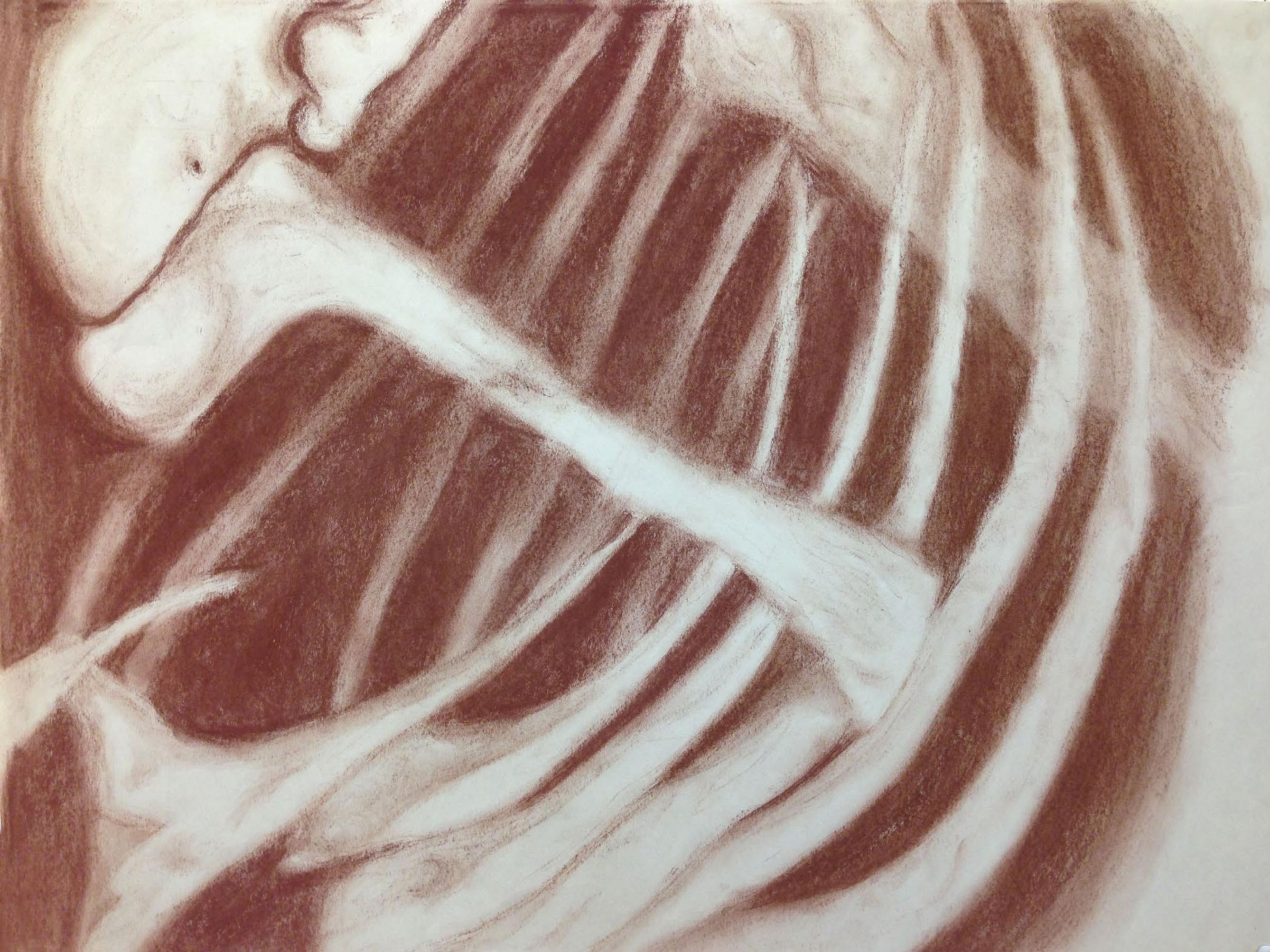
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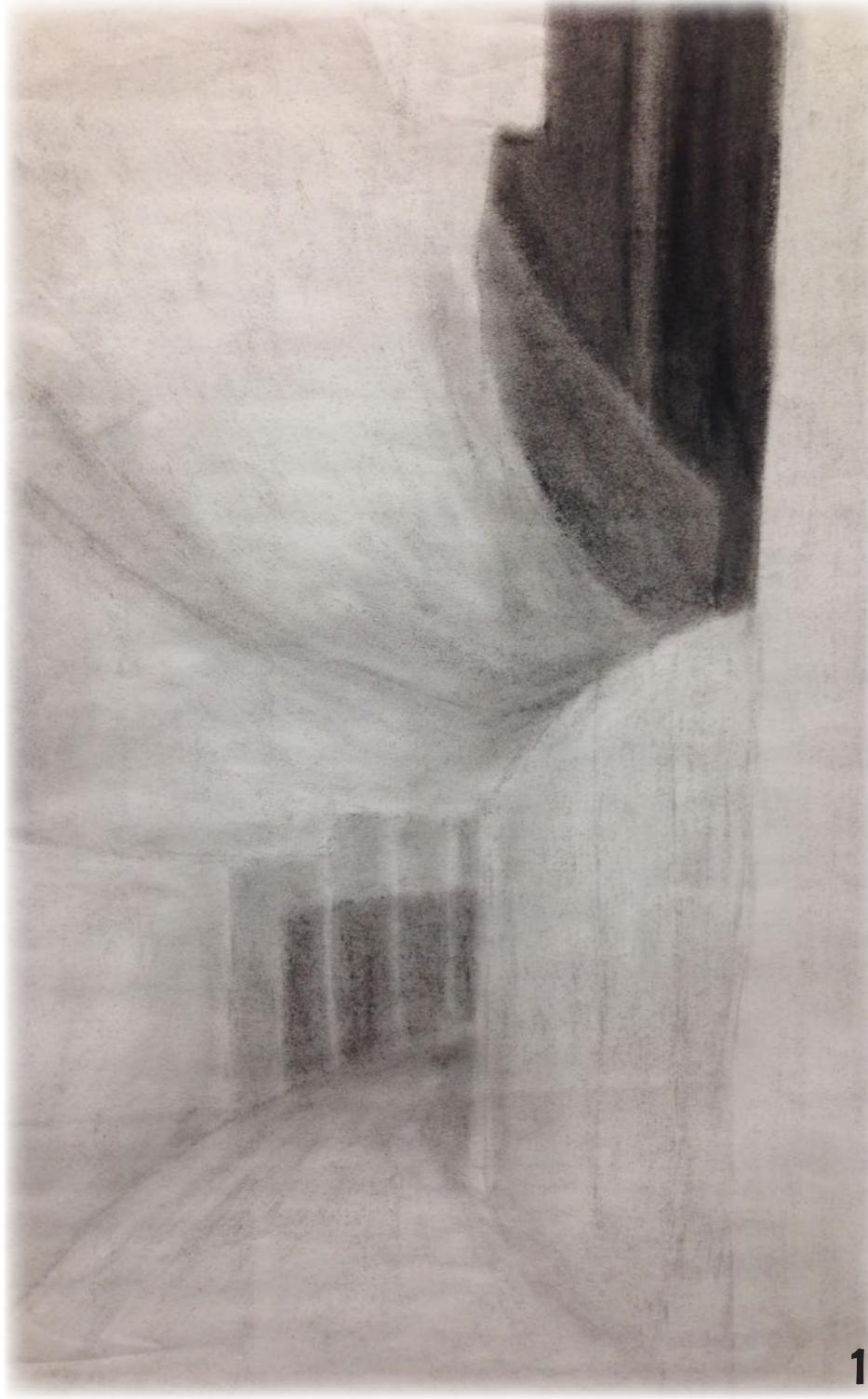
Dinosaur Skeleton

48-100: ARCH. STUDIO:

FOUNDATION I

DOUGLAS COOPER

To understand the concept of depicting space as an entity that takes up volume, I was sent to the Carnegie Museum of Natural History. There, dinosaur skeletons were the subjects to find of depicting this space with contí crayon.



1



2



3

Charcoal Drawings

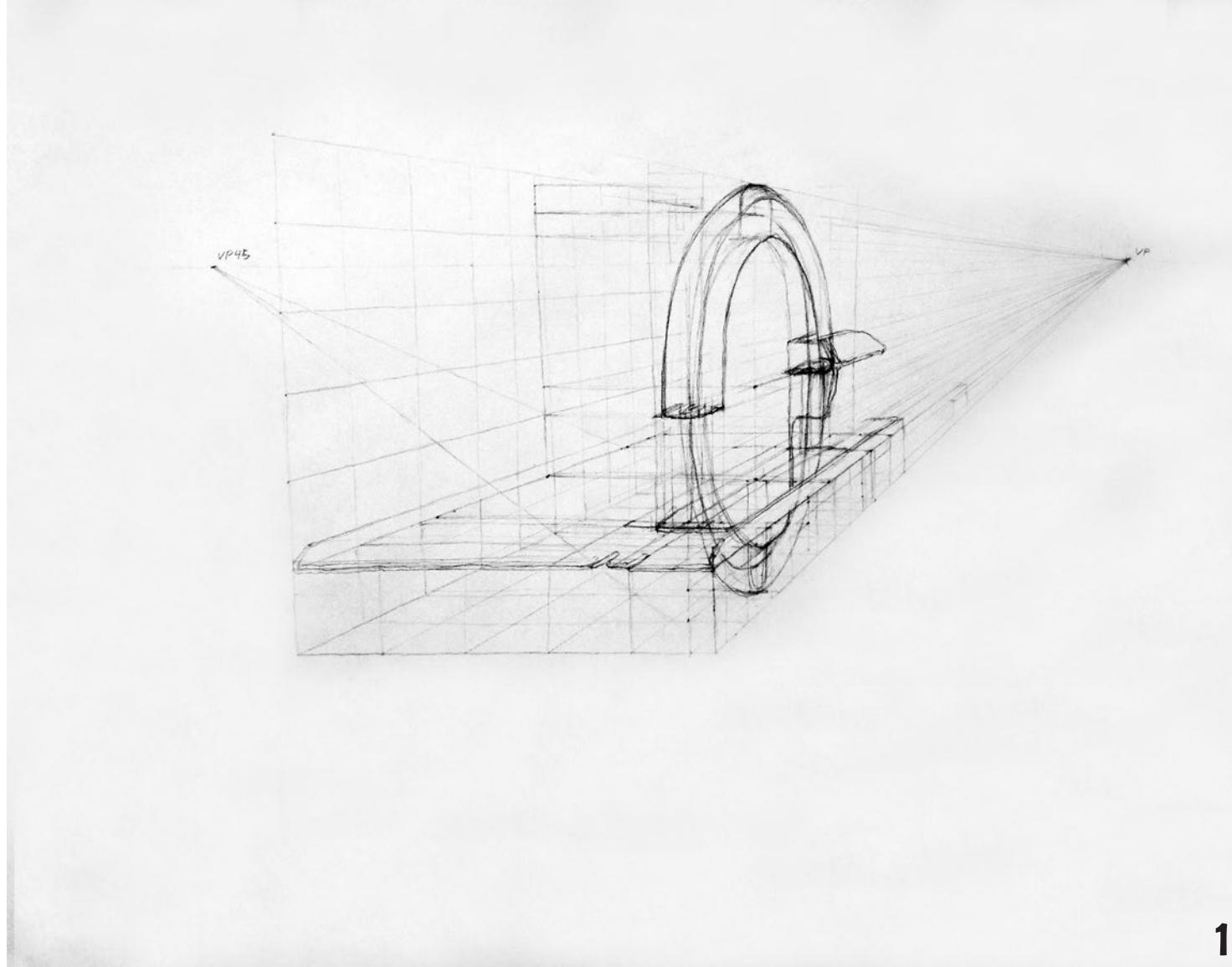
48-100: ARCH. STUDIO: FOUNDATION I

DOUGLAS COOPER

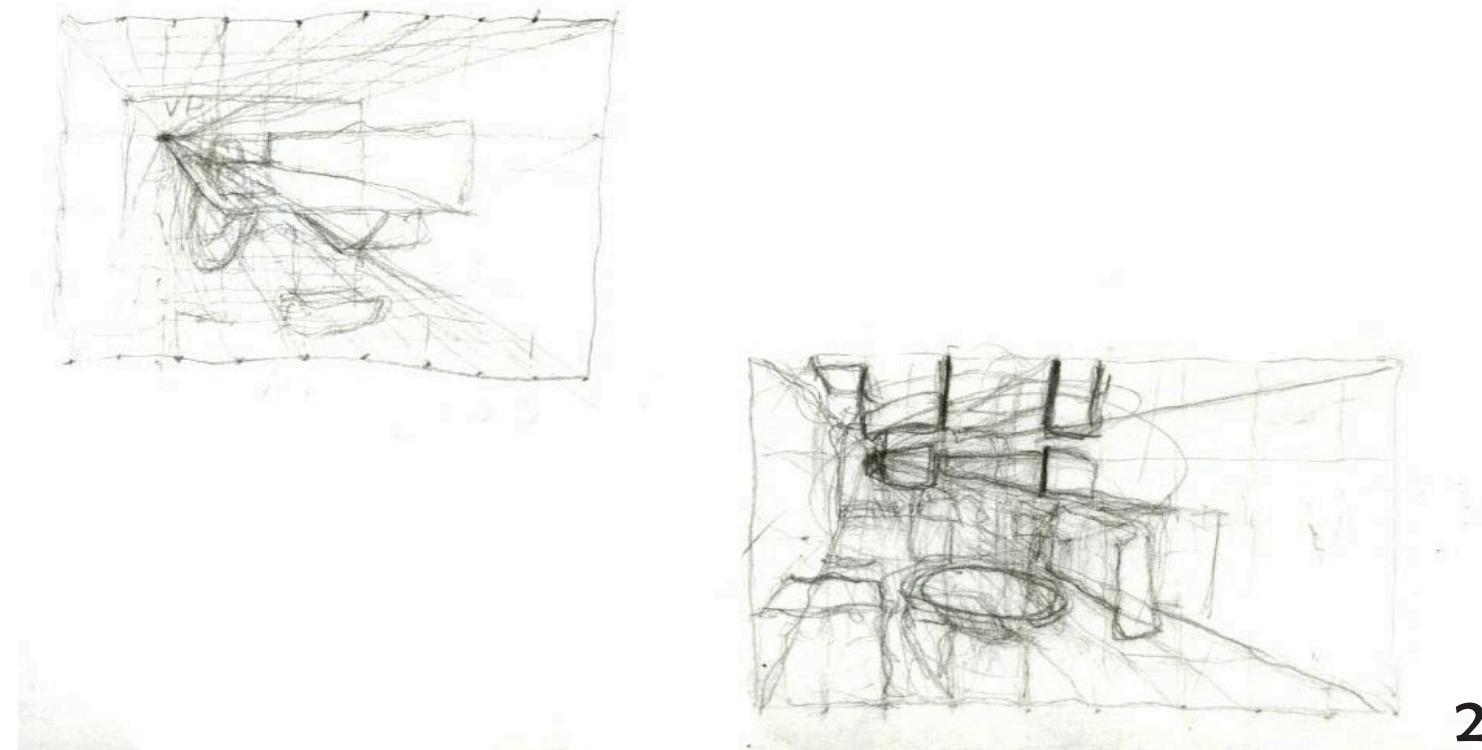
Another exercise of spatial sense, I used charcoal to depict various degrees of depth. In this exercise, views that are meant to play with foreground, middleground, and background are depicted in relation to their distance from the viewer.

1: Gates Hillman Center, CMU

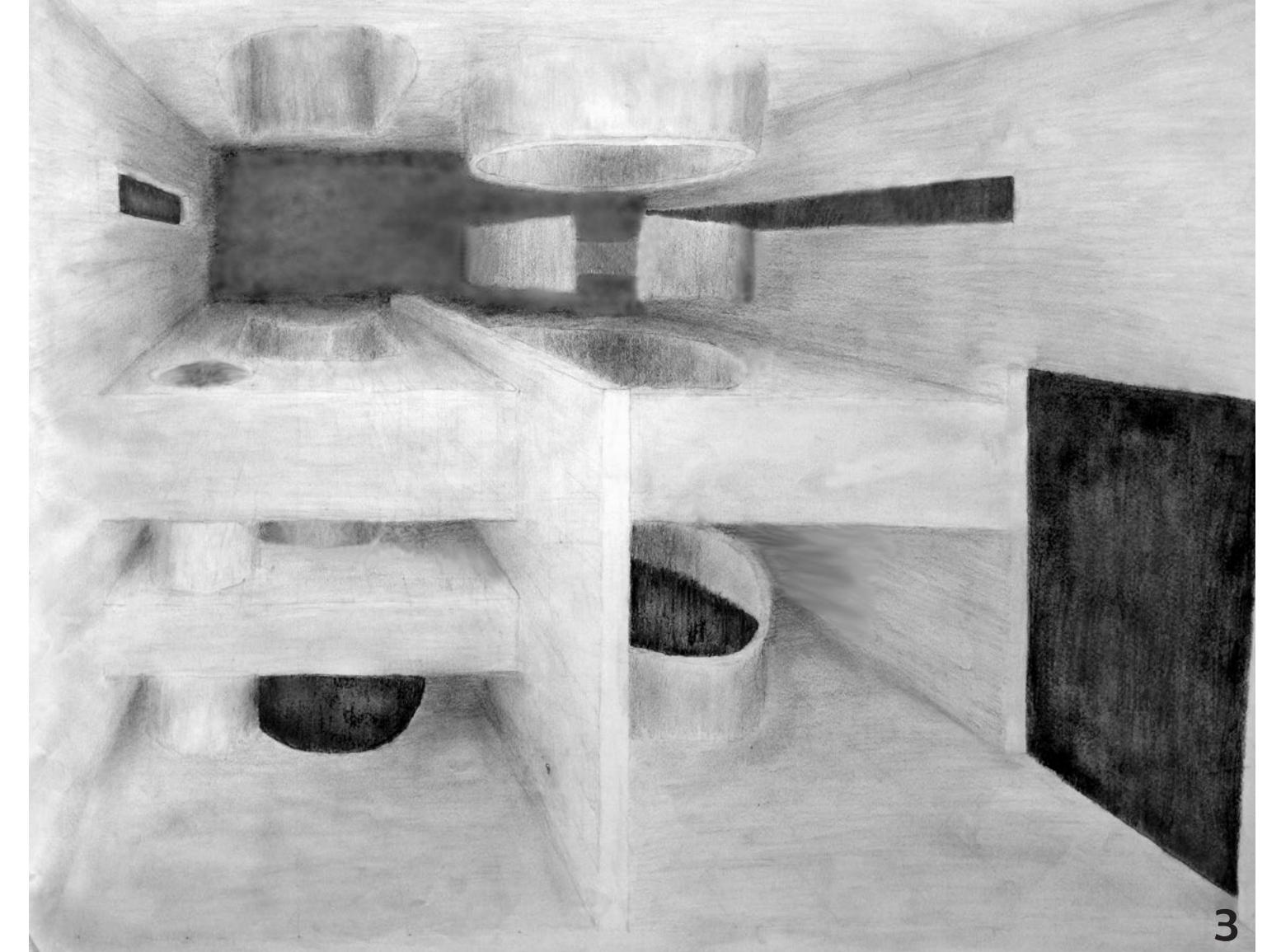
2, 3: Great Hall, College of Fine Arts, CMU



1



2



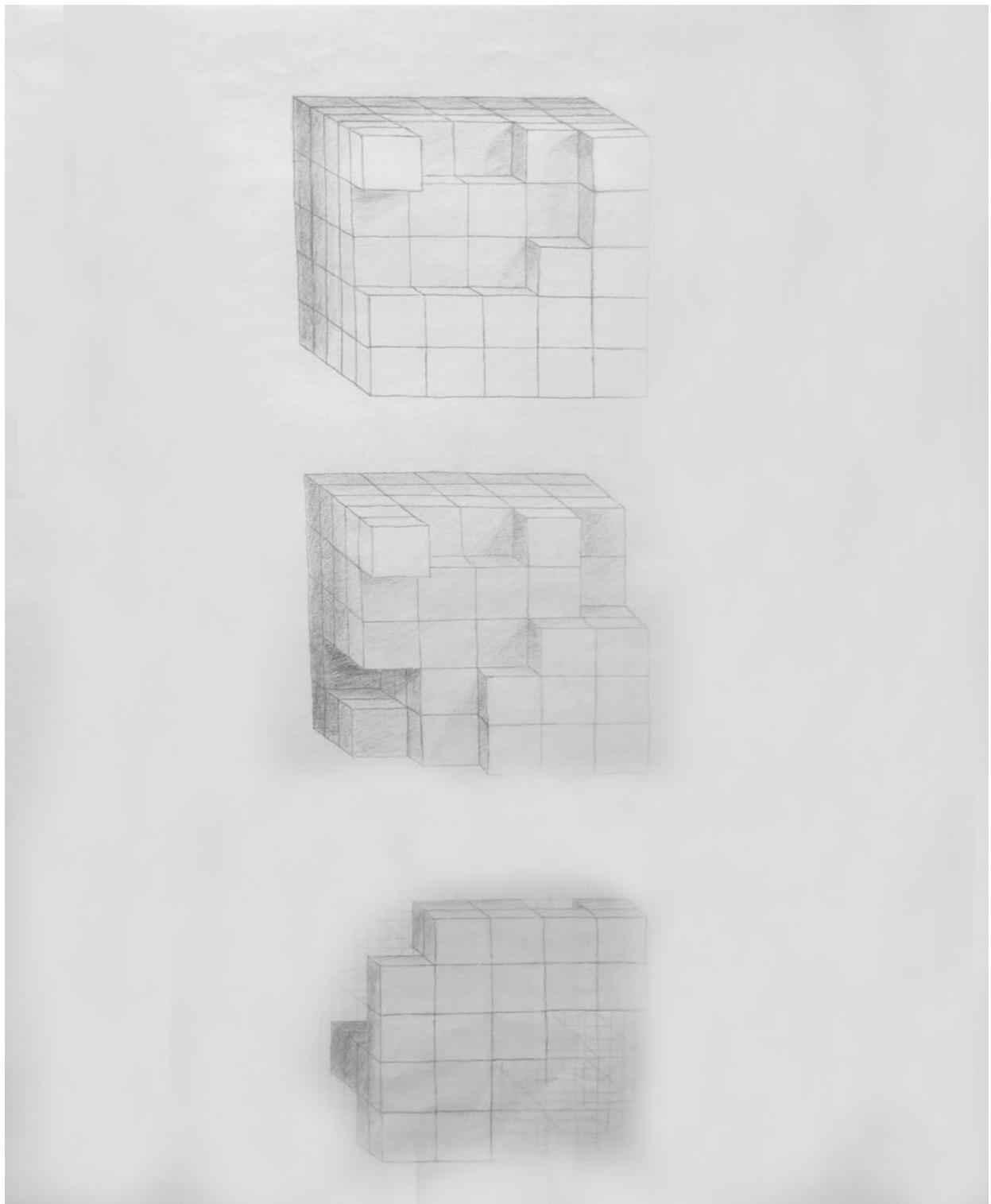
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Saw Drawings

48-100: ARCH. STUDIO: FOUNDATION I
DOUGLAS COOPER

To gain an understanding of perspectival drawing techniques, I was assigned to illustrate an electrical handsaw and a landscape showing the space it fills as a volume. All were drawn using soft pencil and bond paper.

- 1: An initial illustration of an electric handsaw
- 2: Sketched concepts for a spatial landscape based on the saw.
- 3: Final drawing of the saw landscape

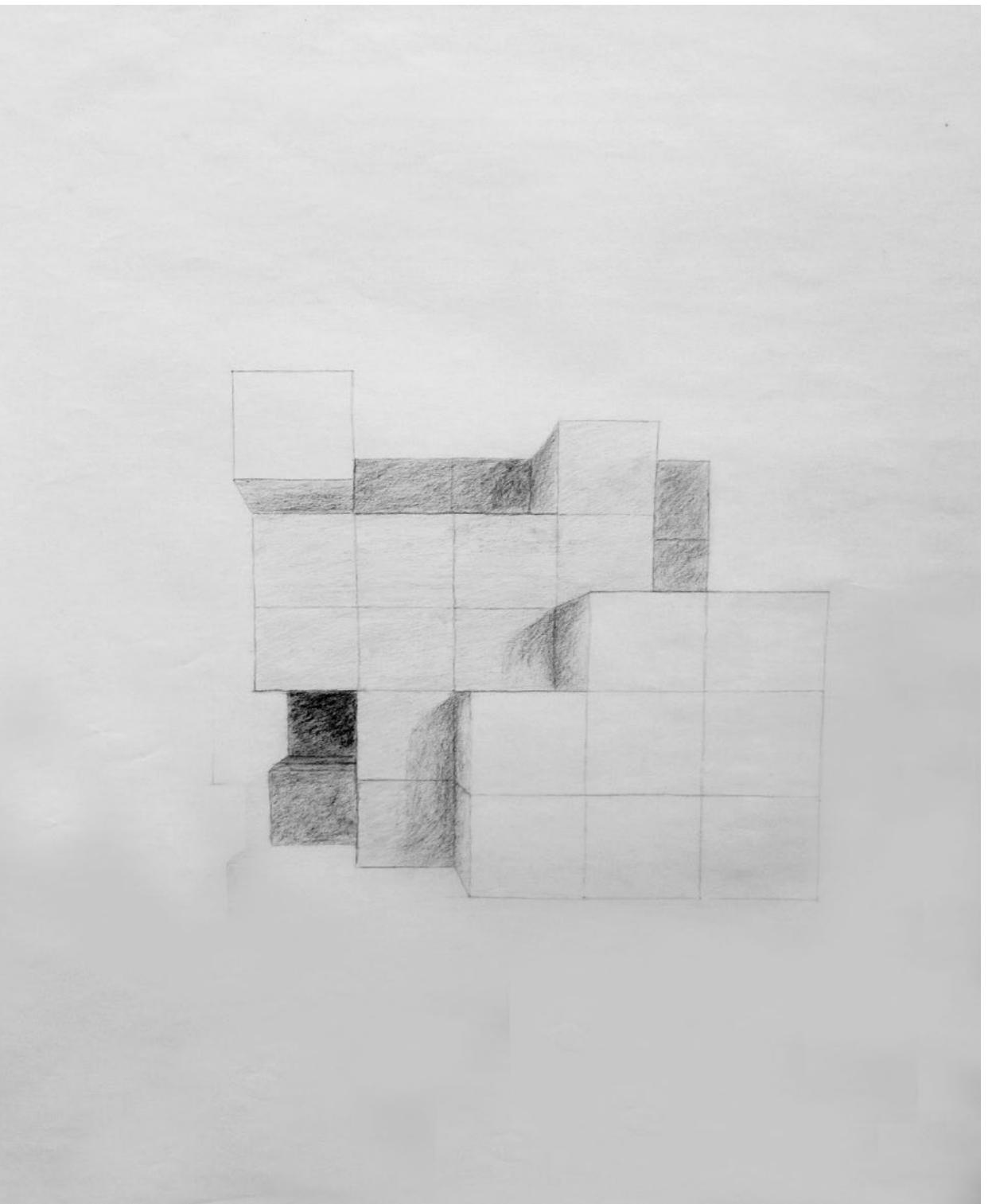


Erosion Cubes

48-100: ARCH. STUDIO:
FOUNDATION I
DOUGLAS COOPER

This exercise was one of axonometric drawing, shading, and spatial sense. At left, a default cube void of 12 parts was set. Then I chose to erode 12 more cubes. Finally, the eroded space from the second cube was drawn as a solid.

At right, the second eroded cube is shown in a one-point perspective view. Both drawings were created with soft pencil and bond paper.



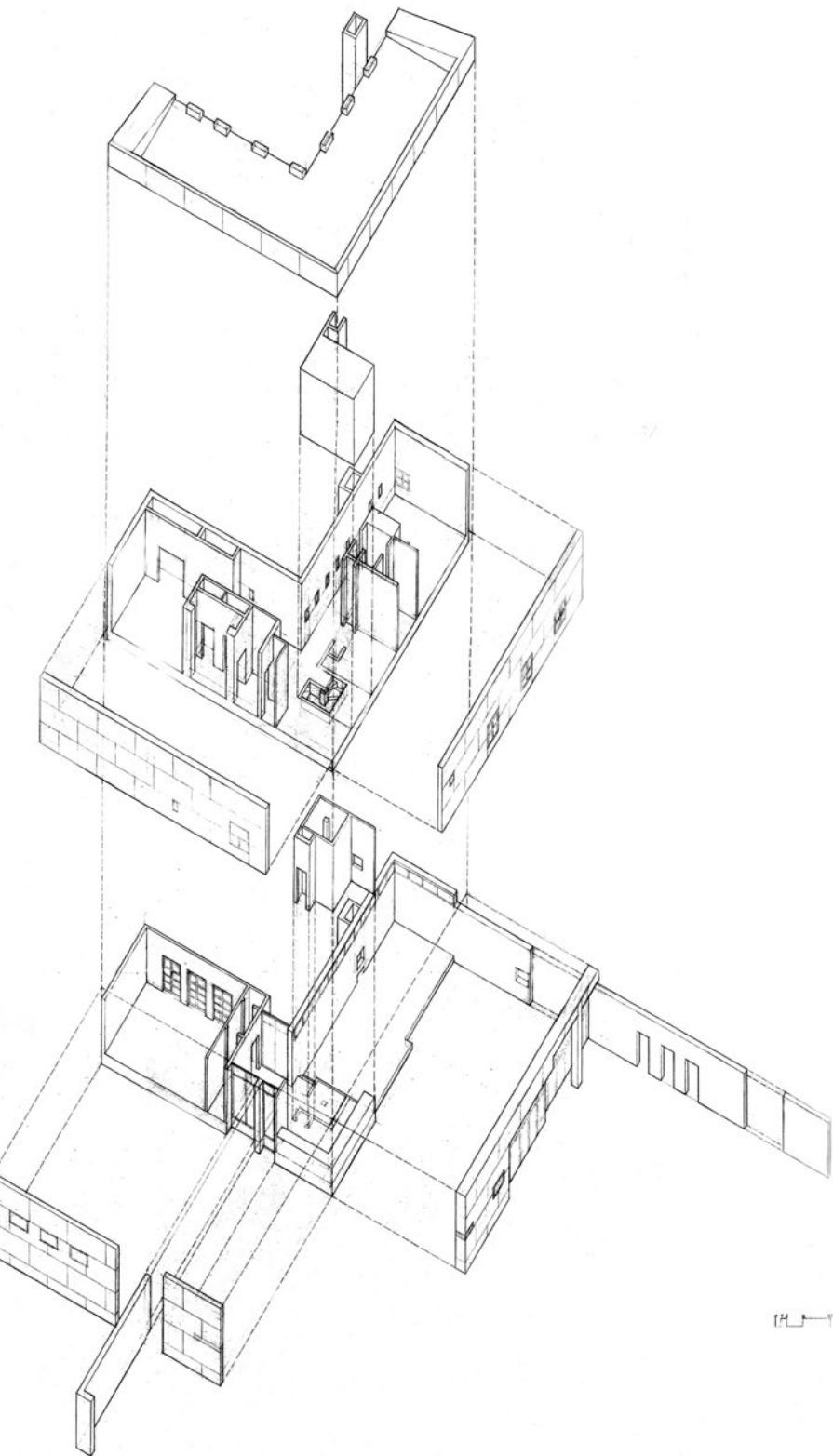
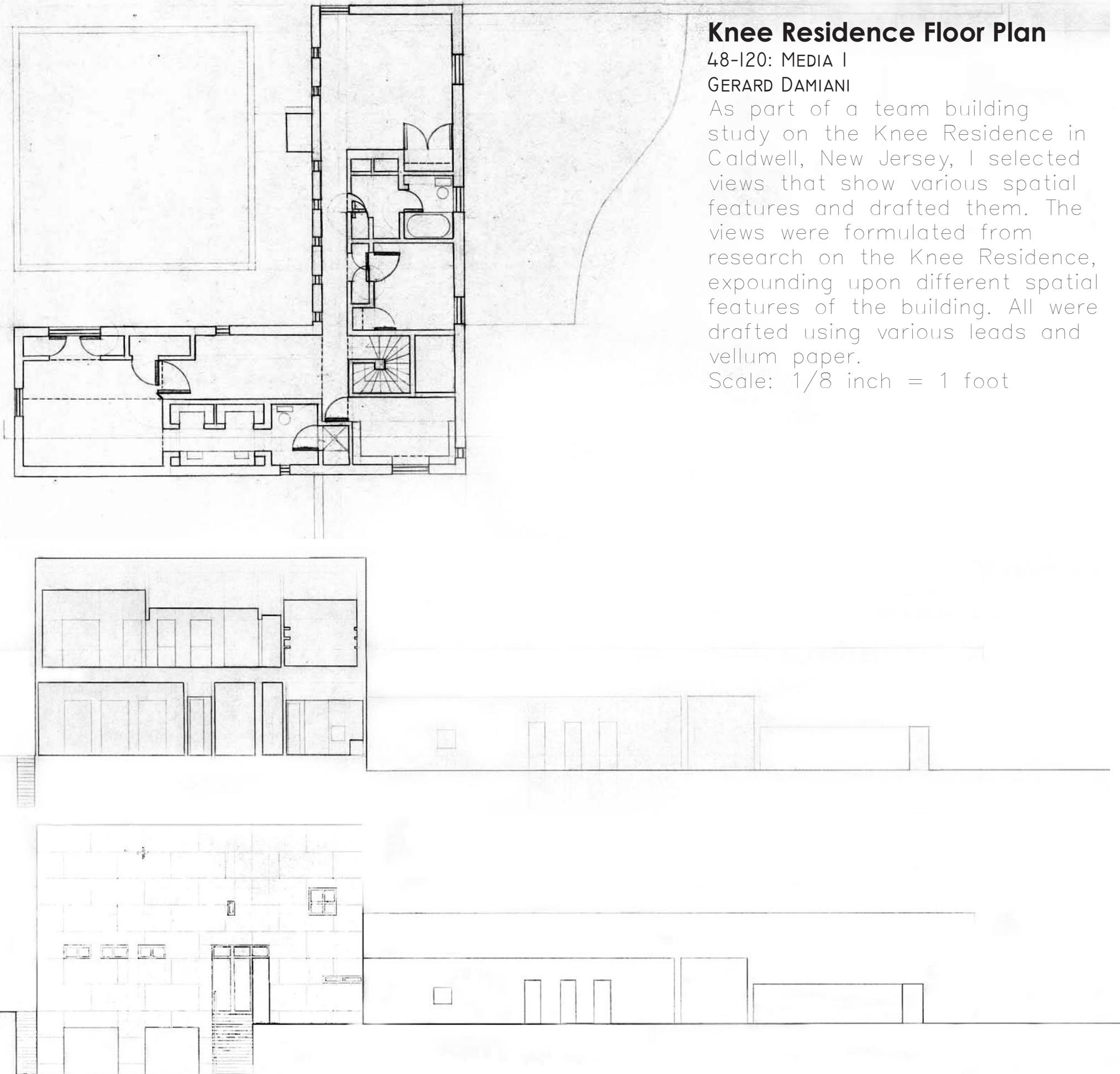
Knee Residence Floor Plan

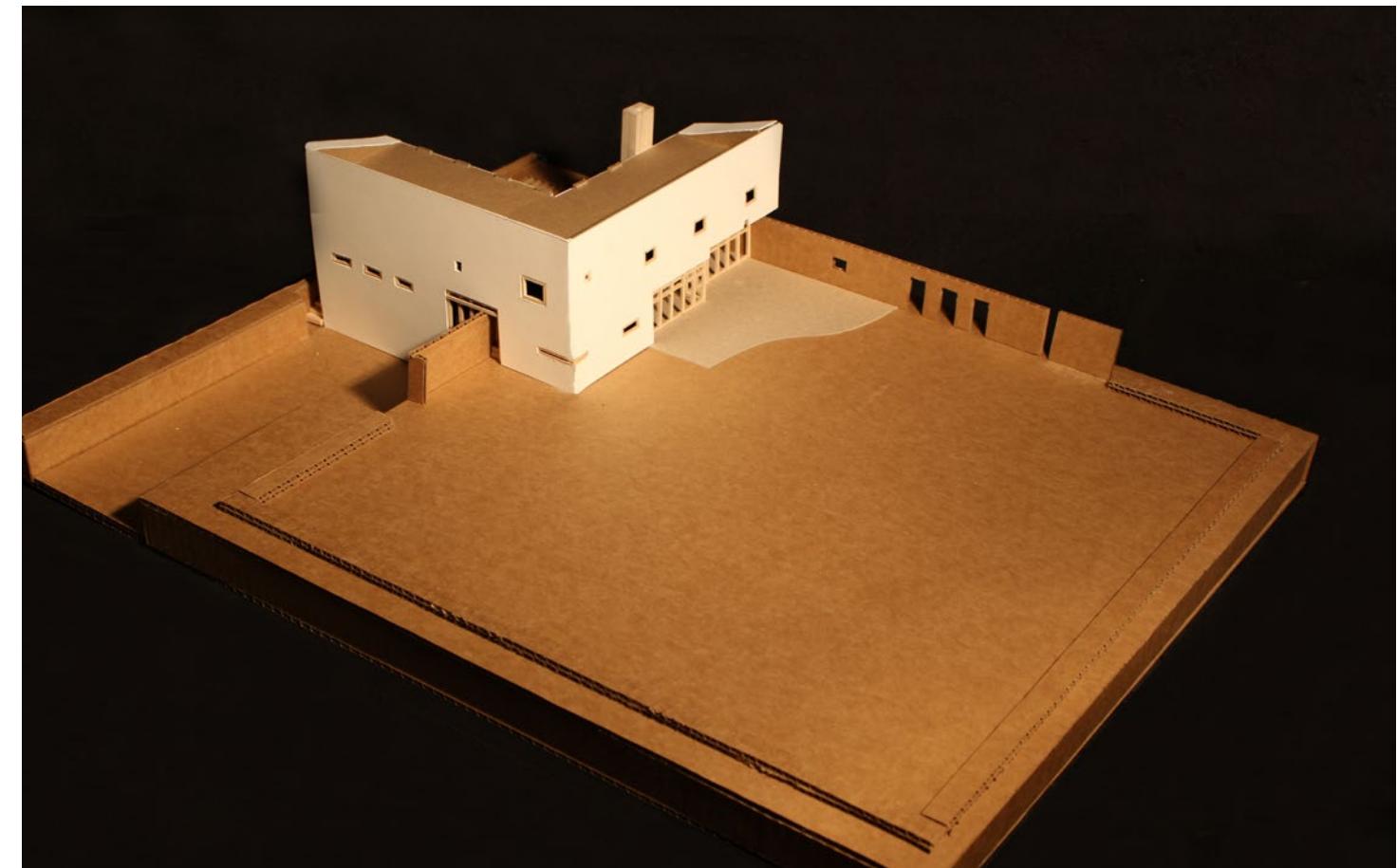
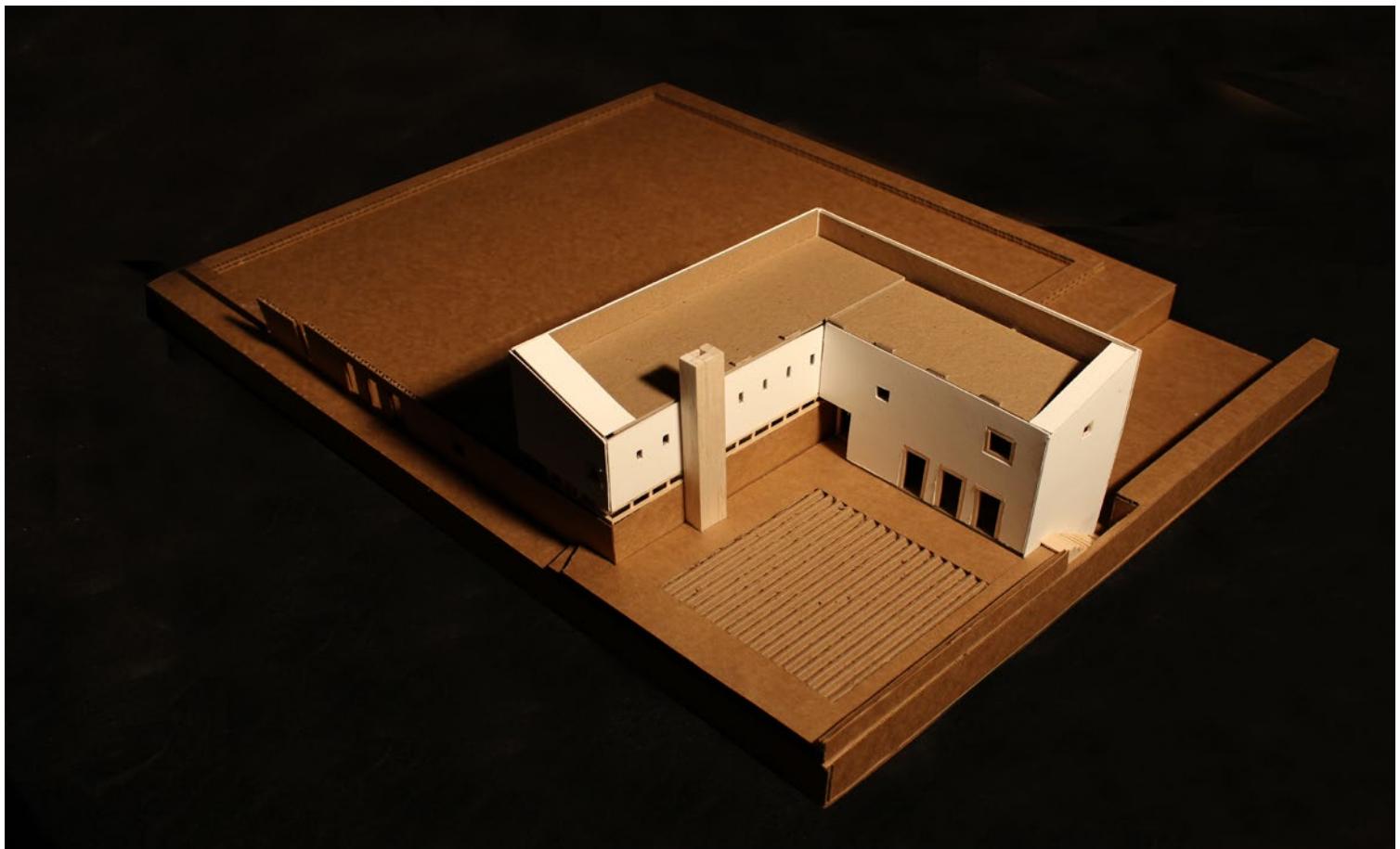
48-I20: MEDIA I

GERARD DAMIANI

As part of a team building study on the Knee Residence in Caldwell, New Jersey, I selected views that show various spatial features and drafted them. The views were formulated from research on the Knee Residence, expounding upon different spatial features of the building. All were drafted using various leads and vellum paper.

Scale: 1/8 inch = 1 foot



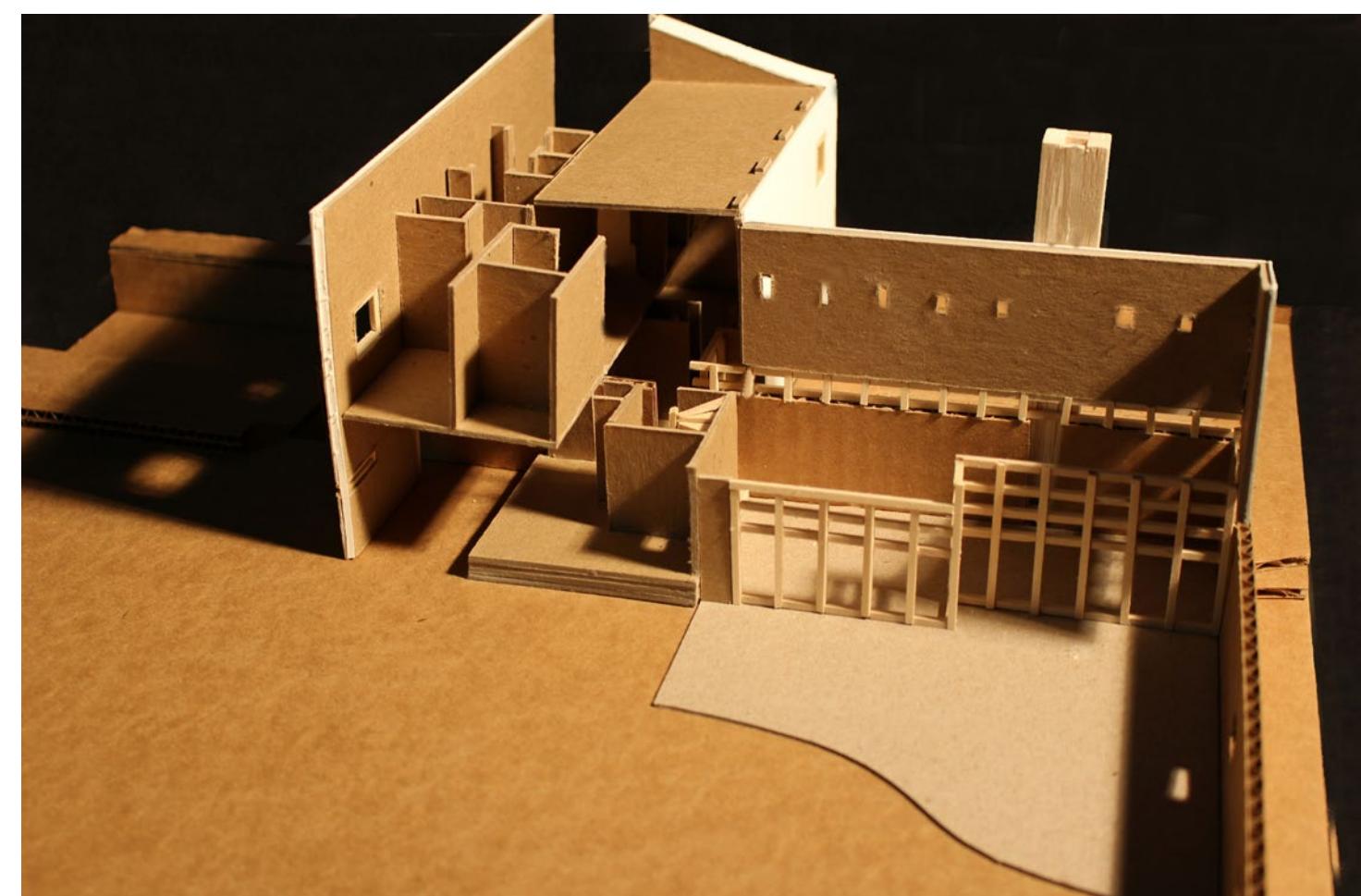


Knee Residence Model

48-I20: MEDIA I
GERARD DAMIANI

PARTNERS: HARRISON BRANCH-SHAW, CHRISTOPH ECKRICK

Expanding on the previous drawings and archived floor plans of the Knee Residence, I collaborated with a team to create this model. Using chipboard, museum board exterior walls, and basswood window frames, we depicted the interior and exterior spaces. I directly contributed to the roof, various windows, and a few of the museum board panels.
Scale: 3/16 inch = 1 foot

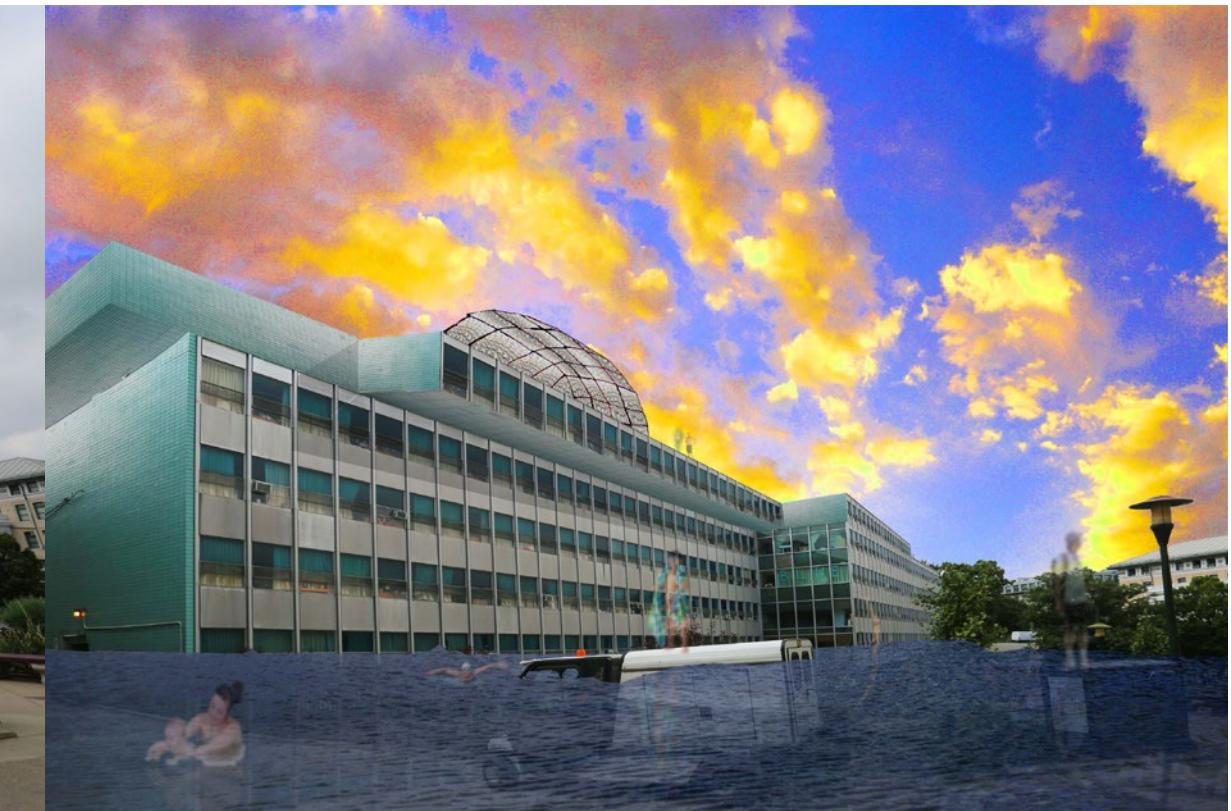


Experiment On Photoshop

48-I20: MEDIA I
EDDY MAN KIM

As an initial study of Photoshop, I was provided a photograph of Donner House at Carnegie Mellon University

to alter in an unrestricted fashion. The piece pays heed to lighting, reflection, gravity, and other natural features. Compare the original image (left) to the final product.



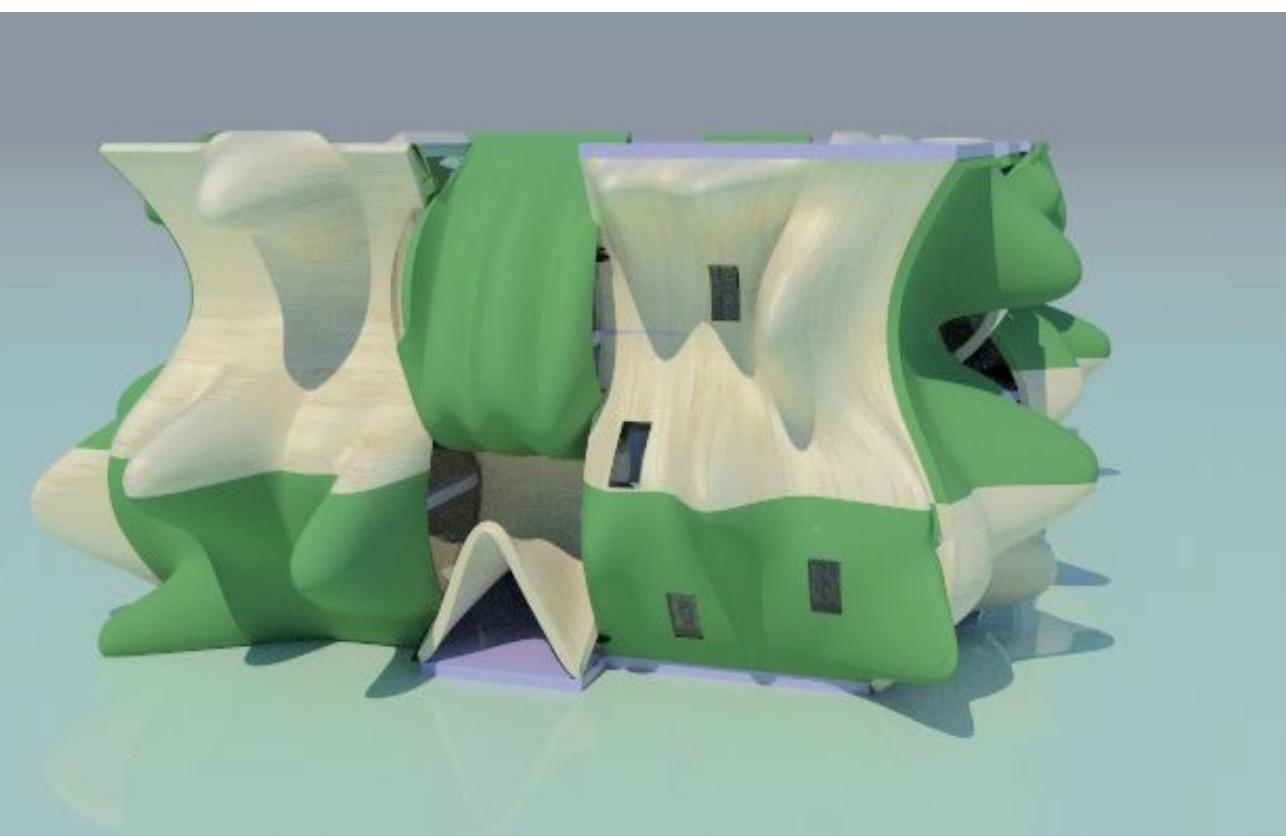
Imagery on Rhino and V-Ray

48-I20: MEDIA I
EDDY MAN KIM

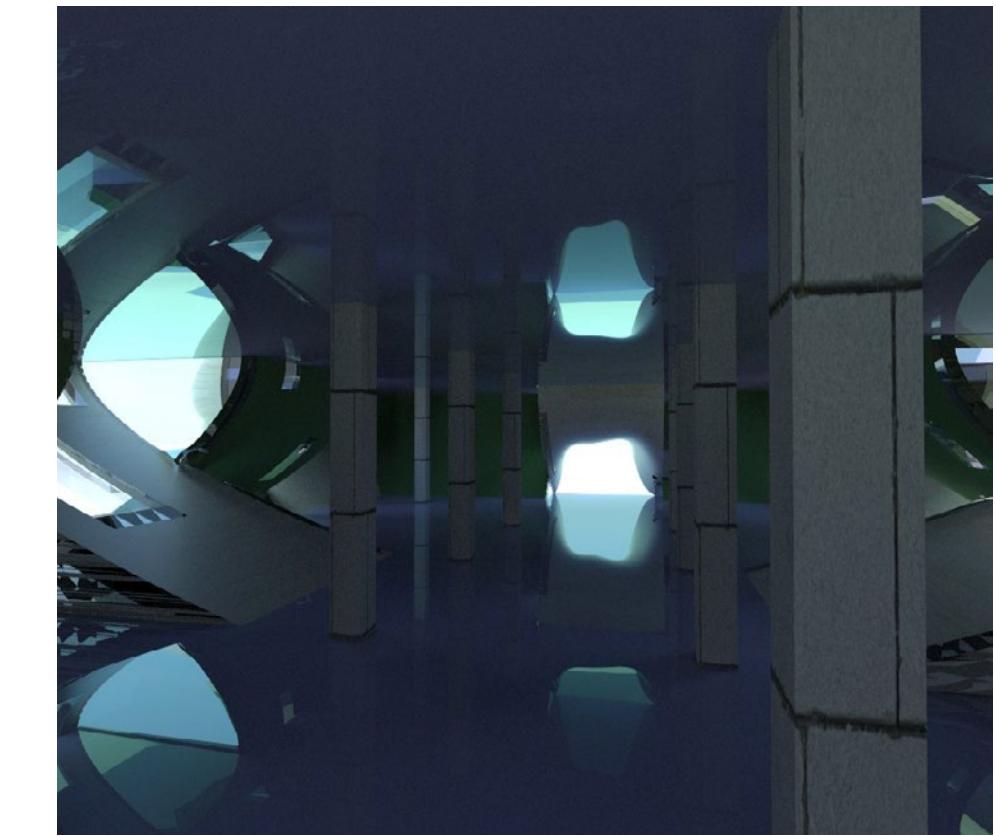
As an introduction to the programs Rhino and VvRay, I was provided three planes to create an abstract building. After applying various texture, I made various test renders to understand how to utilize tools to depict 3D models.

1: Final rendered model (exterior)

2: Final rendered model (interior)



1



2

Inside Out to Knee (Hybrid)

48-I20: MEDIA I

EDDY MAN KIM

I used photographs of the Knee Residence model and Photoshop to emphasize a prominent feature of the building. Using a minimal approach, The piece abstracts the building itself to depict its arms as an expansion into a boundless mass.



Wired In the Meadow (Hybrid)

48-I20: MEDIA I

EDDY MAN KIM

This piece is an experiment of architectural depiction via

Rhino and Photoshop. The central structure is an image from a templated Rhino model renderand is blended into the environment. The Rhino image

references the surrounding environment through lighting elements and interaction with grass and scalars.



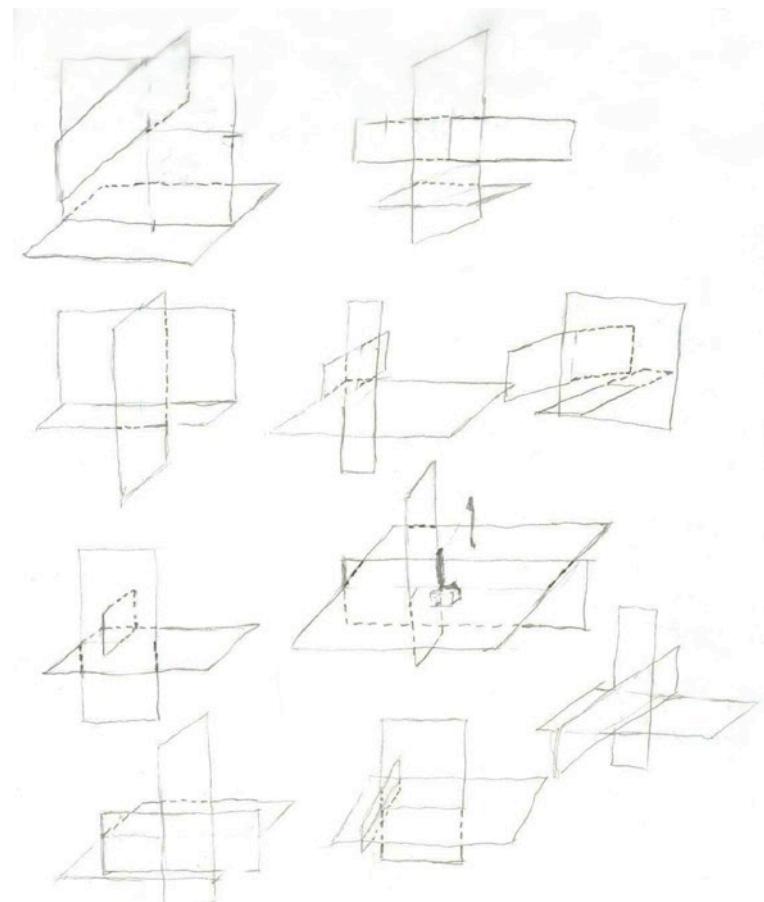


Concept Sketches and Ideas

48-100: ARCH. STUDIO: FOUNDATION I

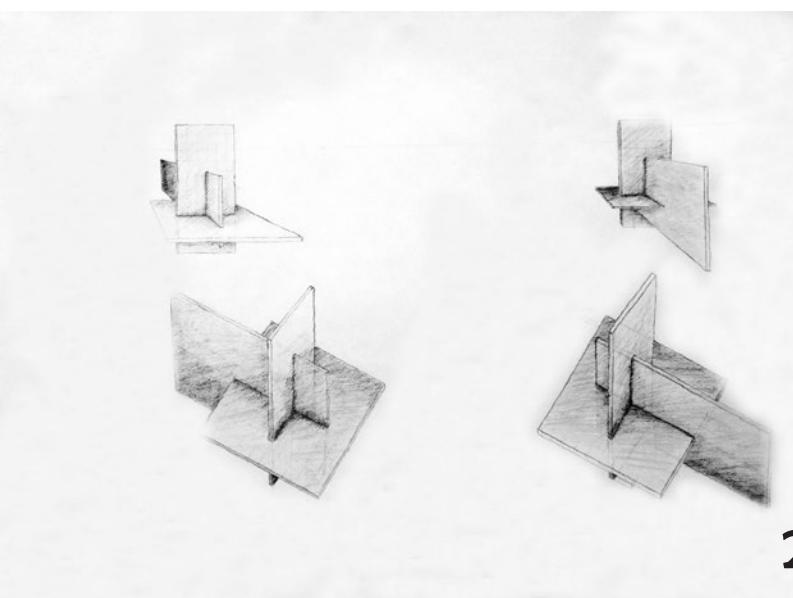
DOUGLAS COOPER

The thought process for this project began in mid-October. Initially, I had to create three planes on which a cube would be based. These simple ideas were later culminated to create a cube-shaped wedding pavilion that responds to a program of 32–40 people and creates spatial relationships. Here, the concept of spatiality via congruency persists, foreshadowing the essence in its final design.

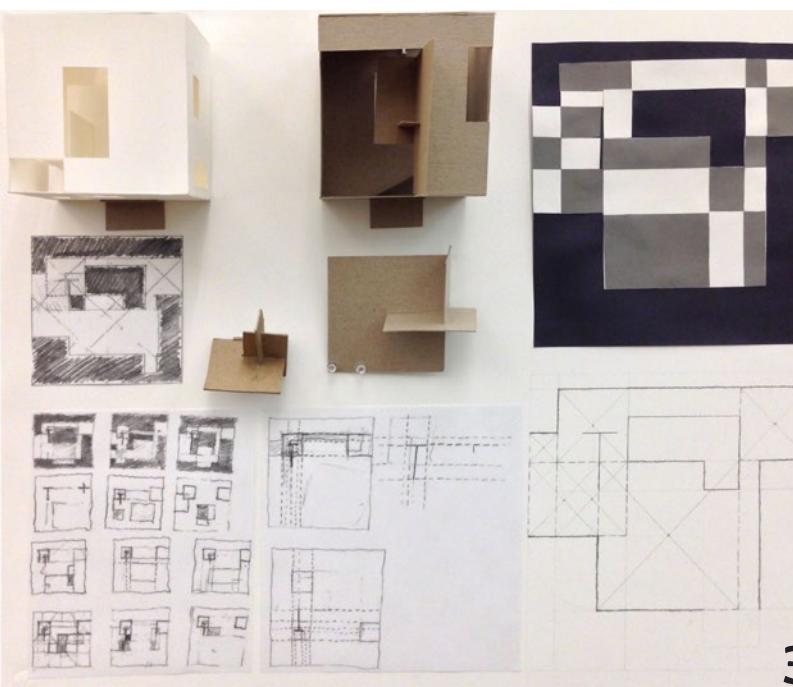


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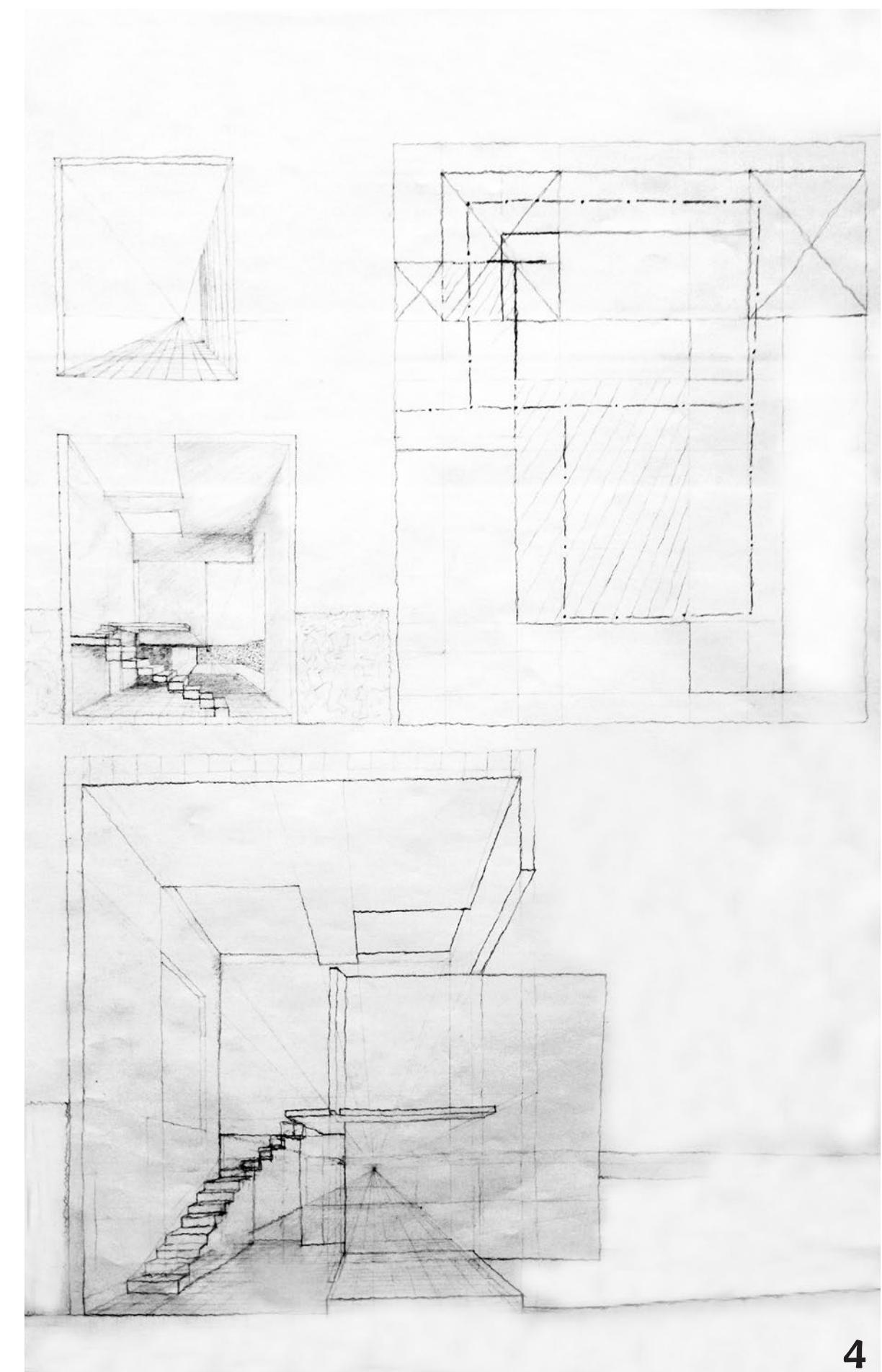
- 1: Concept sketches, soft pencil and bond paper
- 2: Concept renderings, soft pencil and bond paper
- 3: Process board of strathmore and chipboard models, sketches of hard pencil
- 4: Preparatory sketches of soft pencil and bond paper



2



3



4

Final Drawings

48-100: ARCH. STUDIO:
FOUNDATION I
DOUGLAS COOPER

After weeks of revisions and iterations, several drawings were produced to depict the wedding pavilion and its site. This outcome utilizes harmony by square shapes, relationships between the cube and its surroundings, and a dominant reception area akin to the Knee Residence garden.

1: Site plan, drafted with soft pencil and strathmore paper
Scale: $1/4$ inch = 1 foot

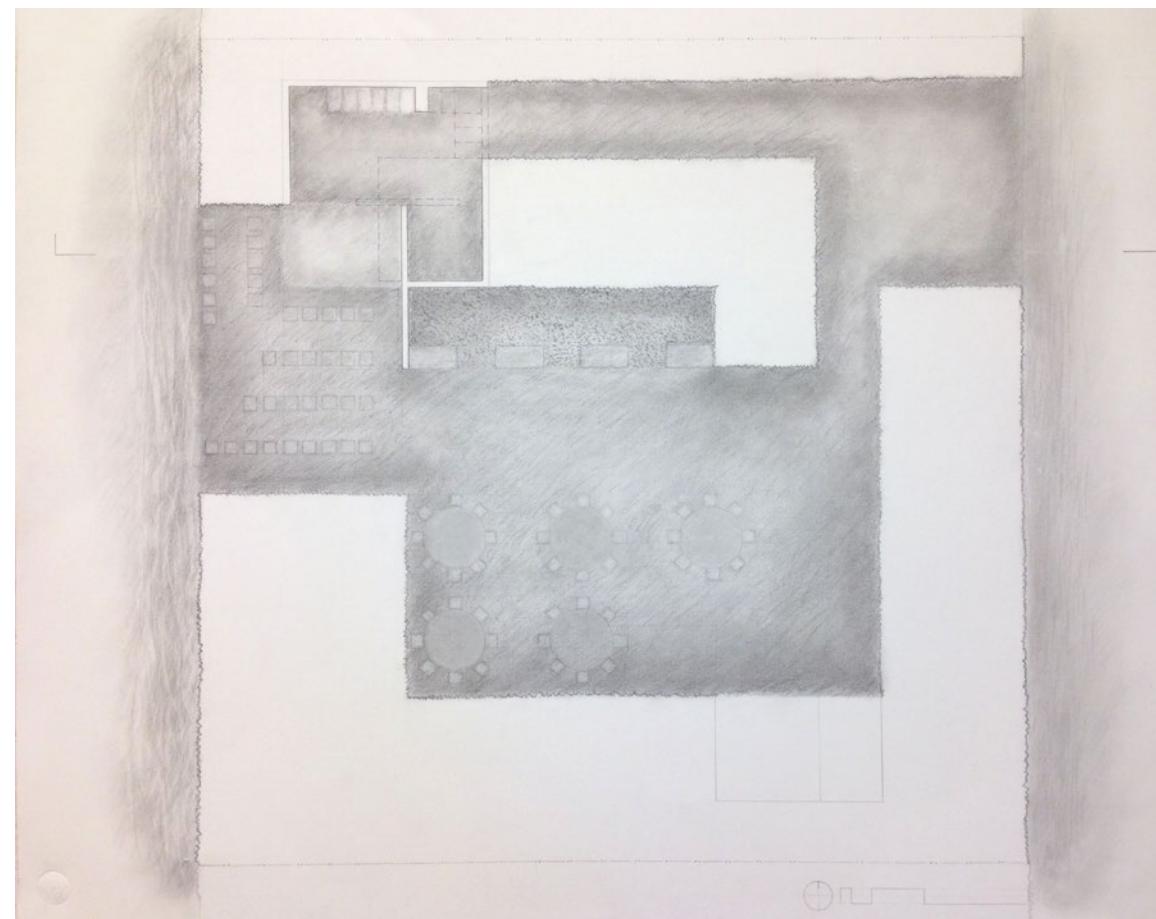
2: Sectional perspective, freehand with soft pencil and strathmore paper

Scale: $3/4$ inch = 1 foot

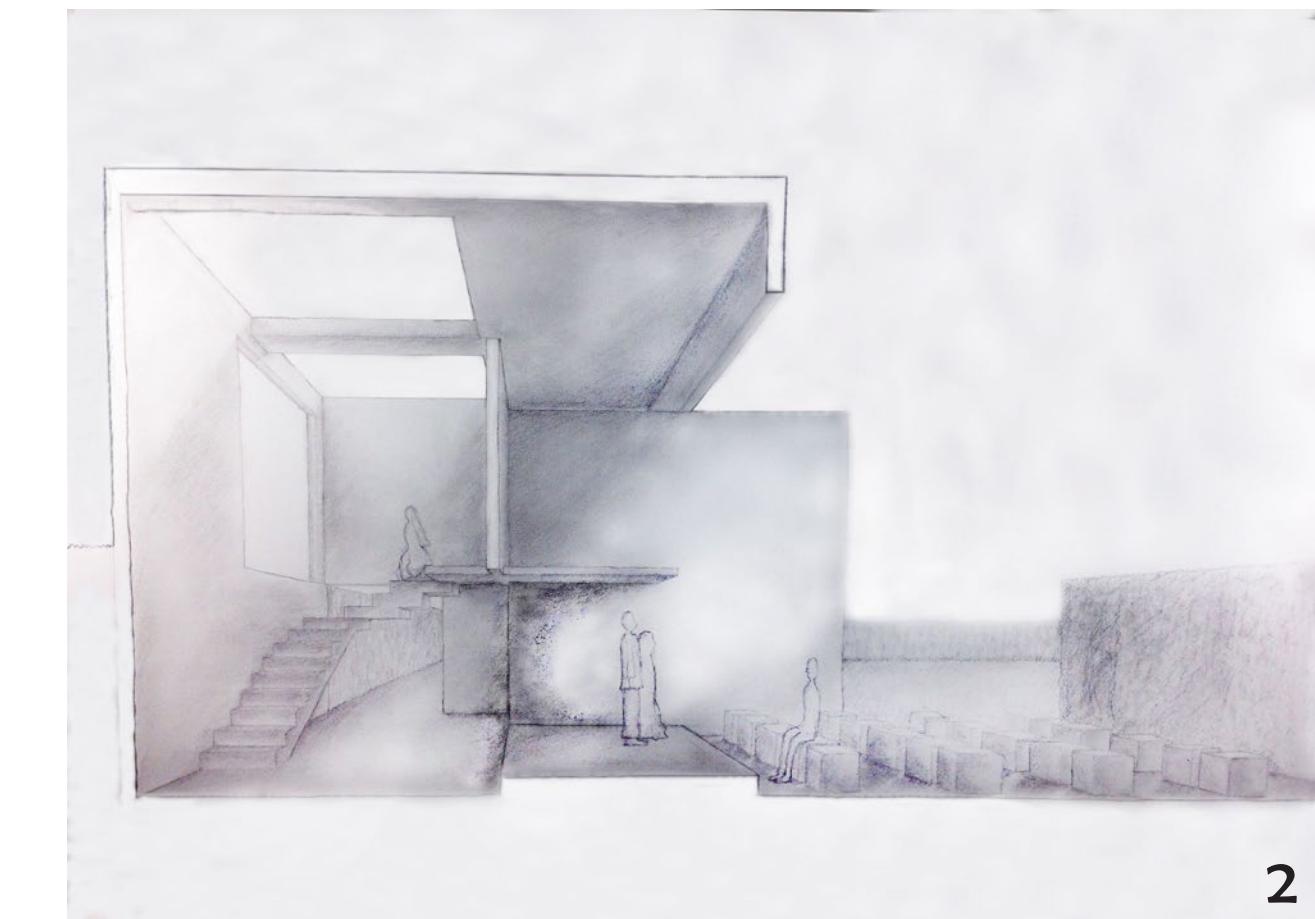
3: Paraline, drafted with hard pencil and strathmore paper; Scale: $1/4$ inch = 1 foot

4: Elevation and section, drafted with hard pencil and strathmore paper

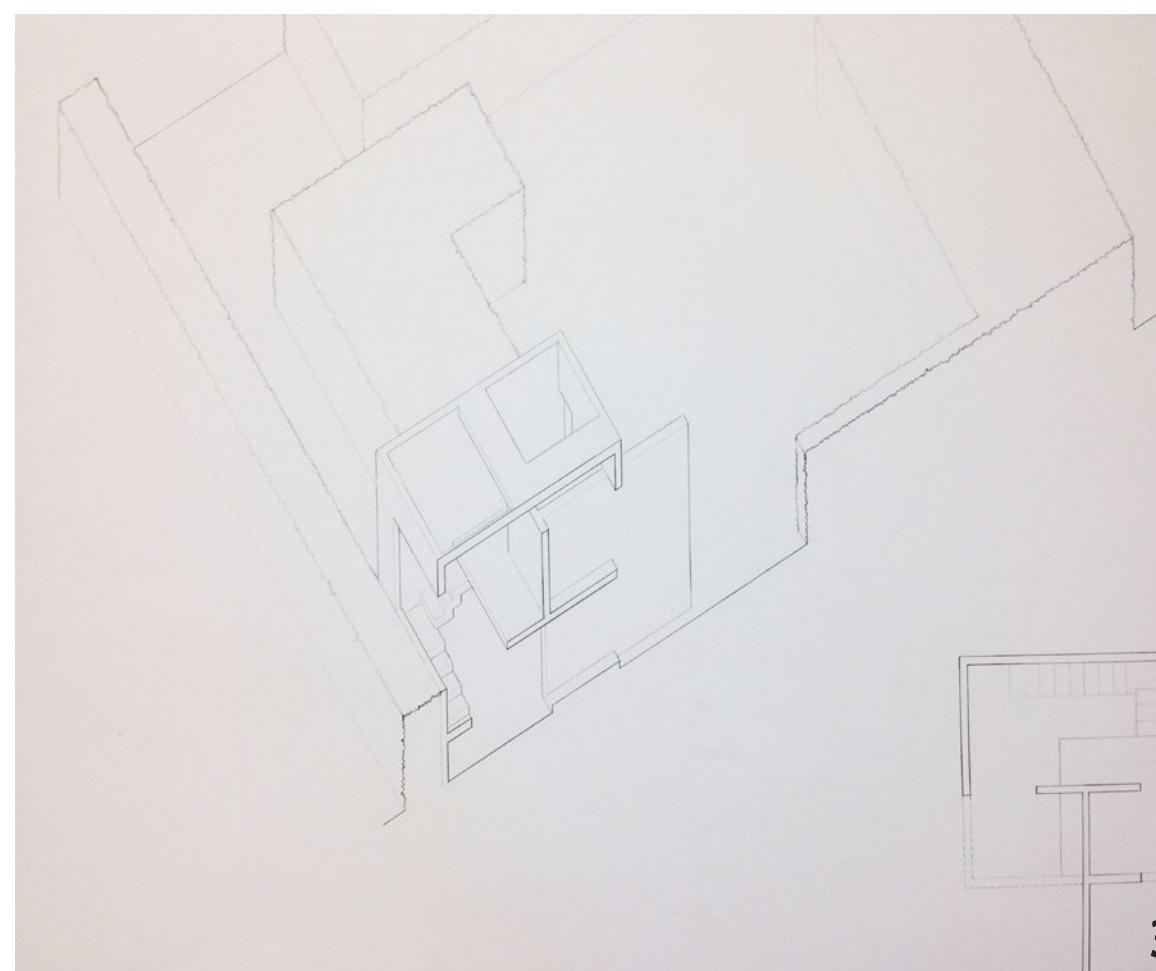
Scale: $1/4$ inch = 1 foot



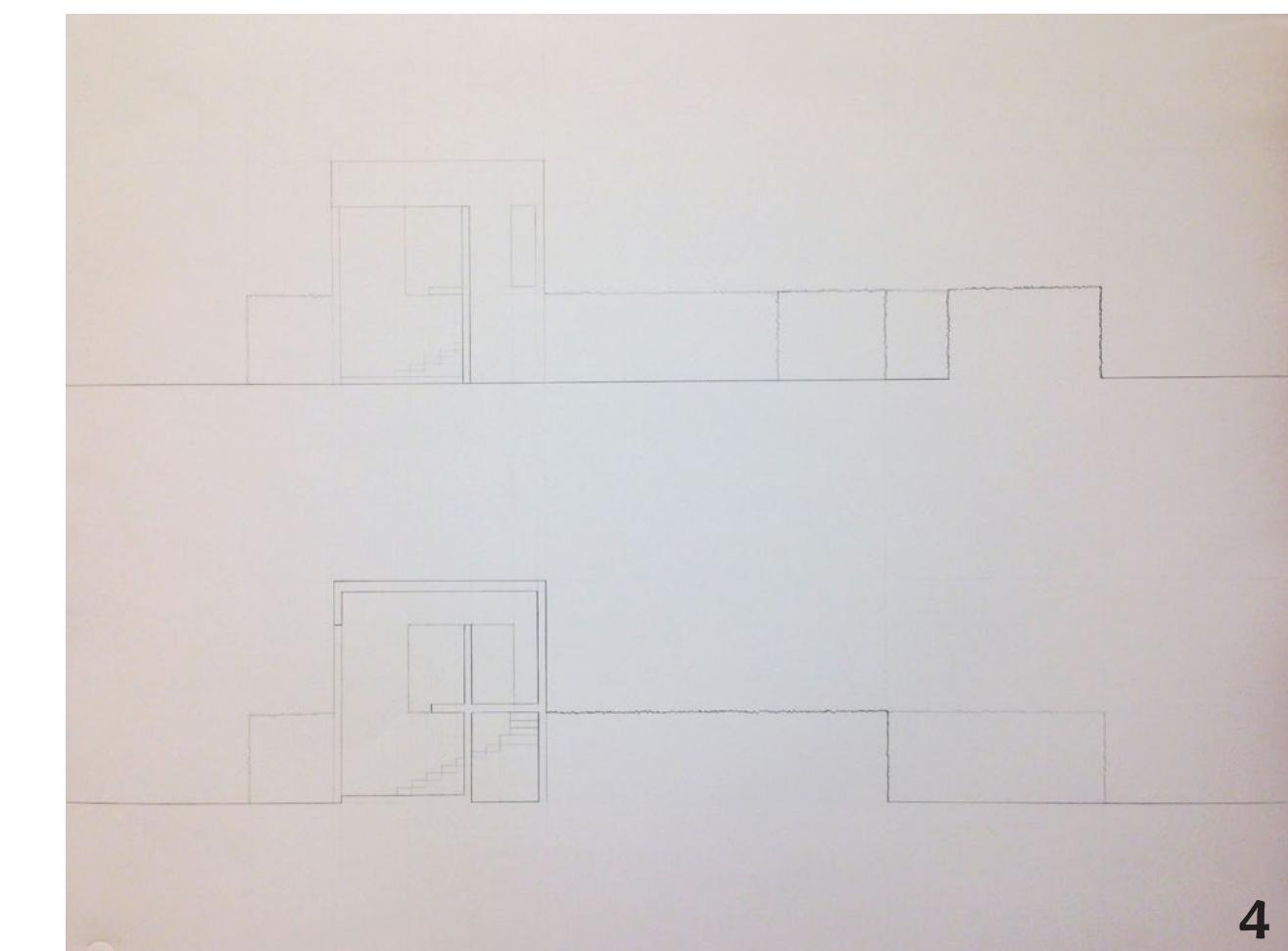
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3



4

Final Model

48-100: ARCH. STUDIO:
FOUNDATION I
DOUGLAS COOPER

*Program: create a 20 ft. x 20 ft. x 20 ft. wedding pavilion on a 80 ft. x 80 ft. plot of land
Regard spatial qualities, alignment, and relationships between the interior and exterior spaces*

This basswood and plywood model depicts the full wedding pavilion site and its general program. On a 1/4 inch = 1 foot scale, the model measures at approximately 20 inches by 20 inches.

