

Landscapes of Transformation

by
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B.A. Design in Architecture
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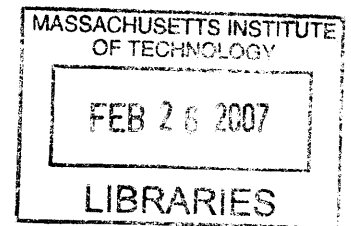
SUBMITTED TO THE DEPARTMENT OF ARCHITECTURE
IN PARTIAL FULFILLMENT OF THE REQUIREMENTS FOR THE DEGREE OF

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Submitted To The Department of Architecture
on January 18, 2007 In Partial Fulfillment of The Requirements
For The Degree of Master of Architecture

ABSTRACT

This thesis aims to examine the cultural effect of transformation through the lens of procedural techniques applied to the human body and architecture. The body and architecture both operate as landscapes of transformation. Technological advancement has increasingly enabled cosmetic surgery and contemporary architectural techniques to encourage a cultural aesthetic of transformation. In both the human body and architecture, transformation offers a physical and psychological effect.

As a cultural enterprise, how can architecture both benefit and contribute by engaging the cultural caprice of transformation?

How can architectural procedural techniques define an urban project which engages the consumption of transformation?

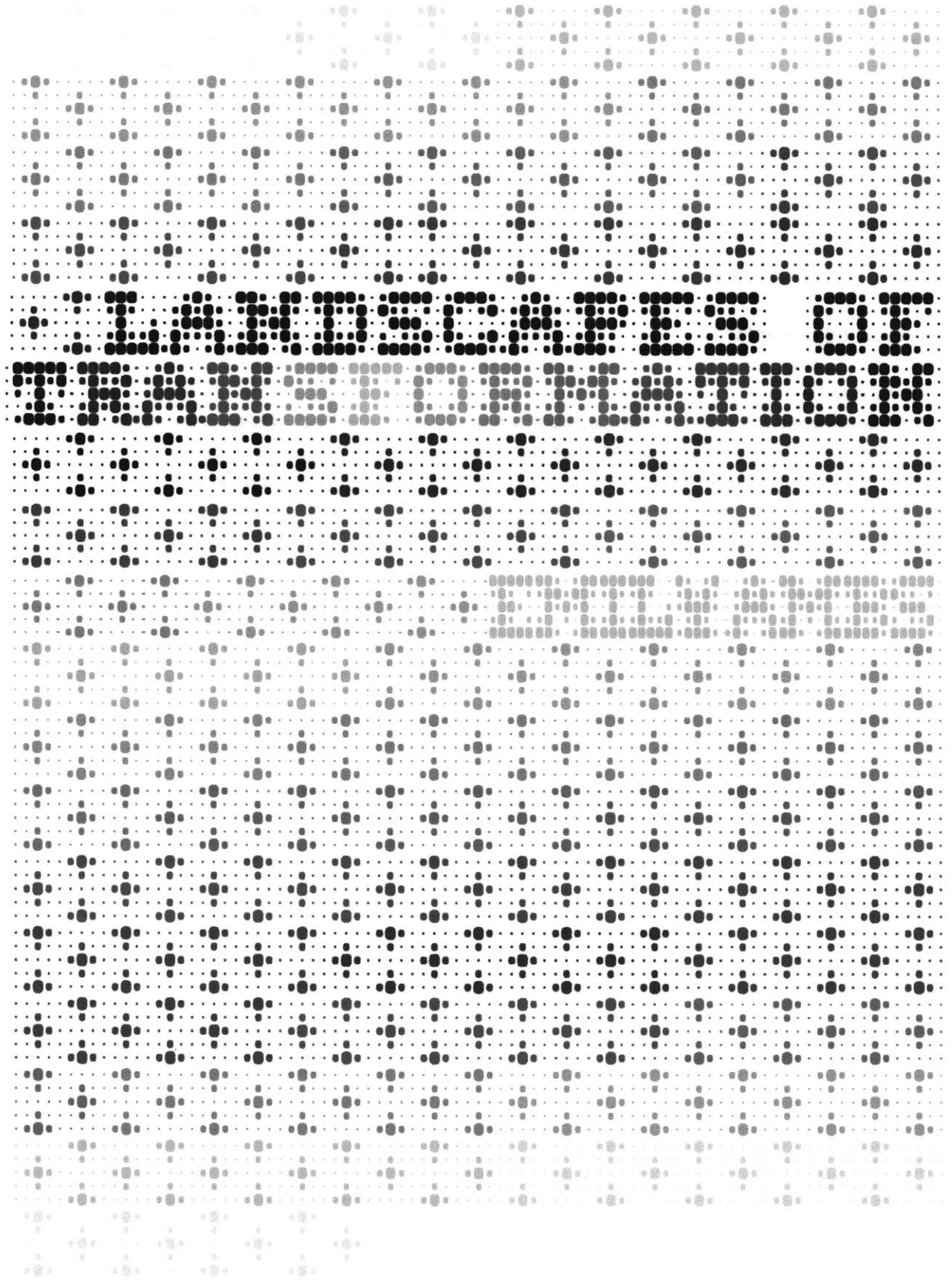
This thesis proposes a response to the cultural effect of transformation and is developed through the architectural process of testing procedural techniques. The thesis also responds to the notion of gradient as a residual witness of transformation, revealing the techniques by which the transformation was brought about. The first part of this thesis engages the idea that the human body is a landscape of transformation as cosmetic procedures continue to redefine the operation of its interiority. The second part of the thesis presents Central Park as a mechanical artifice and an operative site for the procedural techniques of transformation.

Thesis Supervisor: Mark Goulthorpe
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2. FINDING TECHNIQUE

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Background: Transformation as Commodity

Consumerist society and the evolution of the city seem to have emerged hand-in-hand sometime around the 16th century: the city and consumer ethic acting as catalysts for each other. As the 18th century world of goods expanded, social competition increased and generated a hierarchical society structured upon the power to consume. Consumers became targets and commodities were positioned to influence their desires and define their preferences. Consequent products of this period such as new building forms and home furnishings began to transform social interaction, resulting in a new sense of privacy. By the mid-19th century new material goods, technology, and mass production further increased the proliferation of objects. At the Paris Exposition of 1900 merchandising sought to appeal to the fantasies of the consumer. Modernity saw the shift in commodity consumption from use value to exchange value.

Modes of commodity consumption are implicitly infrastructural components of desire and of the city. Glamorization of capitalism in the city celebrates and encourages consumer culture in its space and surfaces. Architecture has become a device for considering the glamorization of consumption, as a means of satisfying desire. Cities encourage the buying of an ideology of consumption not just commodities themselves, arguing for consumption as something refined and fashionable.

New spaces of consumerism, arcades, boulevards, and department stores defined the urban condition of consumer culture. People are now able to physically, literally embody the commodity by the transformation of themselves through cosmetic procedures.

Catering to the culture of the commodity should not necessitate abandoning the greater values of architectural practice, namely invention, innovation, space-making and material use. Optimization and development in the practice of architecture mandates a hyper-abundance of new ideas. This relies on individual, original contribution. When an architectural fad emerges, a certain popular image is established. The consequent burden on architects is to produce more dazzling spectacles to evade inferiority. Invention is forsaken for the contrivance of similitude, to be more comparable to something to compete with it. This inferiority complex is what stimulates the popularity of images. The consequence is a more universal, objective culture. Transformation allows conformity.

By offering the human body as an example, the thesis aims to deconstruct the cultural effect of transformation.



Flayed Man Holding a Dagger and His Skin
Jaun Valverde de Amusco, Anatomia del corpo Humano, 1560

Revealing the Act of the Artifice

This thesis aims to examine the cultural effect of transformation through the lens of procedural techniques applied to the human body and architecture. The body and architecture both operate as landscapes of transformation. Technological advancement has increasingly enabled cosmetic surgery and contemporary architectural techniques to encourage a cultural aesthetic of transformation. In both the human body and architecture, transformation offers a physical and psychological effect.

Taking inspiration from Jaun Valverde's Flayed Man, the thesis asks:

How can architecture reveal its skin and dagger? How can the artifice be experienced while revealing itself?

The cultural enterprise of architecture is undergoing a transformation as it is increasingly called upon to be a social intensifier. Architecture and the human body are called upon to perform differently as developing digital and surgical techniques permit. This is the cultural aesthetic of seduction enabled by transformation. There is a perversity in the degree to which new technique enables capriciousness.

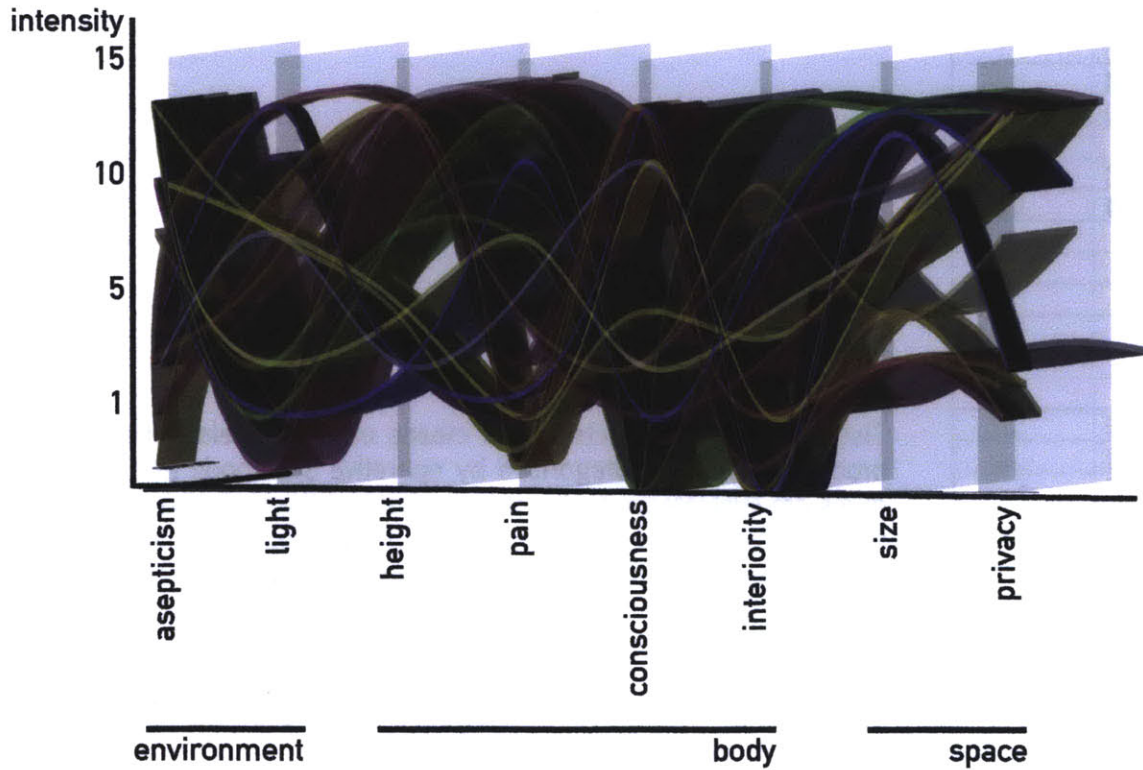
The thesis attempts to analyze strategies of transformation and develop procedural effects to generate an architecture which reveal its artifice. While a surgeon is given a condition to reconstruct, the architect is responsible for construction through his own process.

procedure type

	invasiveness	procedure	duration		result	cost	treatment(s)	undesired	gender	anesthesia	aesthetic risks	pain
			healing	price								
face	rhinoplasty	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	reshape nose	♀♂	sedation: local	red spots, incompleteness	low
	botox injection	plastic [re-forming]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	paralyzes muscles, reduces lines	♀♂	sedation: local		low
	cheek implants	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single		♀♂	sedation: local	imprecise shifting of implant	low
	chemical peel	exclusion [removal]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single		♀♂	sedation: local	scarring, blisters, color changes	low
	chin augmentation	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	receding chin	♀♂	sedation: local		low
	dermabrasion	implantation [inserting / embedding]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	wrinkles, sun damage, acne	♀♂	sedation: local	scarring, blisters, color changes	low
	ear surgery	superficial [non-invasive]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	protruding / disproportionate	♀♂	sedation: local	scarring, mismatched / artificial looking ears	low
	eyelid surgery	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	drooping skin	♀♂	sedation: local	asymmetry	low
	face lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	loose skin	♀♂	sedation: local		low
	forehead lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	loose skin low eyebrows	♀♂	sedation: local		low
	laser skin resurfacing	exclusion [removal]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	damaged skin, wrinkles	♀♂	sedation: local		low
	lip augmentation	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	thin lips	♀♂	sedation: local		low
	microdermabrasion	superficial [non-invasive]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	fine lines, age spots	♀♂	sedation: local		low
	soft tissue fillers : group 01: autologous fat, calcium hydrox	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	fills, lips, recontouring	♀♂	sedation: local	contour irregularities	low
soft tissue fillers : group 02: collagen, hyaluronic acid	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	lines, nasolabial folds	♀♂	sedation: local	allergic reaction contour irregularities	low	
hair transplantation	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	healthy hair from donor area	♀♂	sedation: local		low	
torso	gynecomastia	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	extra glands, fat	♂	sedation: local	baggy skin, asymmetry, pigment, scarring	low
	breast reduction	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	large, heavy, disproportionate	♀	sedation: local		low
	abdominoplasty	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	excess fat, skin	♀♂	sedation: local	scarring, skin loss	low
	breast augmentation	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	larger, more proportionate	♀♂	sedation: local	deflation, scar tissue	low
	breast lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	sagging, poor shape	♀♂	sedation: local	asymmetrical nipples, permanent scars	low
	lipoplasty	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	isolated fatty areas	♀♂	sedation: local		low
leg	upper arm lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	excess skin, fat	♀♂	sedation: local		low
	sclerotherapy	exclusion [removal]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	spider veins	♀♂	sedation: local		low
	lower body lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	skin laxity	♀♂	sedation: local		low
	buttock lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	sag, excess	♀♂	sedation: local		low
	cellulite massage treatment	superficial [non-invasive]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	cellulite	♀♂	sedation: local		low
	laser treatment: veins	exclusion [removal]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	spider veins	♀♂	sedation: local		low
	laser hair removal	exclusion [removal]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	unwanted hair	♀♂	sedation: local		low
thigh lift	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	loose, excess skin	♀♂	sedation: local		low	
dental	laser whitening	superficial [non-invasive]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	whitening	♀♂	sedation: local		low
	veneers	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	discolored, mismatched	♀♂	sedation: local		low
	implant	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	missing teeth	♀♂	sedation: local		low
	bonding	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	discoloration, chipped teeth	♀♂	sedation: local		low
	bridges	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	missing tooth	♀♂	sedation: local		low
	contouring / reshaping	implantation [inserting / embedding]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single	chipped, cracked, mismatched	♀♂	sedation: local		low
	gum surgery	superficial [non-invasive]	hours: 1	weeks: 1	temporary: 1	\$1,000 - \$10,000	single	too much / little gum	♀♂	sedation: local		low
genital	vaginoplasty	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single		♀	sedation: local		low
	labiaplasty	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single		♀	sedation: local		low
	phalloplasty	plastic [re-forming]	hours: 1-2	weeks: 1-2	temporary: 1	\$1,000 - \$10,000	single		♂	sedation: local		low

taxonomy of transformations

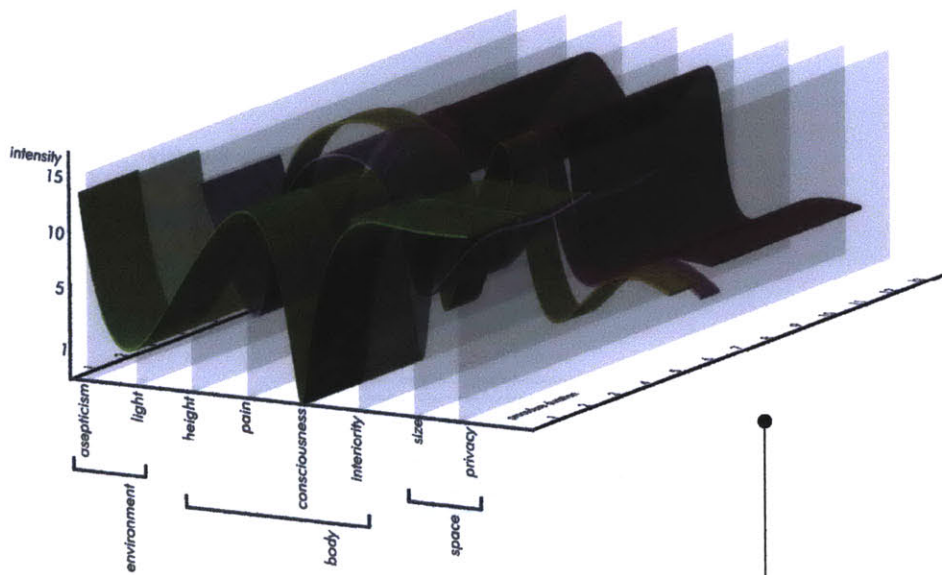
parameters



The Matrix Mapped as Experience

Also catalogued by the matrix are procedure duration, anesthesia type, pain intensity, asepticism level, and room type. These are mapped out over time (above) to understand the intensity of the conditions of each procedure. Relationships between conditions begin to emerge. For example, procedures requiring more asepticism tend to be longer in duration and more painful. These relationships begin to suggest the codependencies between the experiential conditions of a procedure and the degree with which it violates the interiority of the body. Programmatic components can be defined by the intensity of interiority of the procedure.

The intention of the program is to offer physical transformation as a series of procedures. The diagram on the right suggests hypothetical clients and a sample procedure series mapped over time.



experiential conditions through the duration of multiple procedures

04: hair color
hr: 2
03: botox injection
hr: 1
02: chemical peel
hr: 1
01: lip augmentation
hr: 1

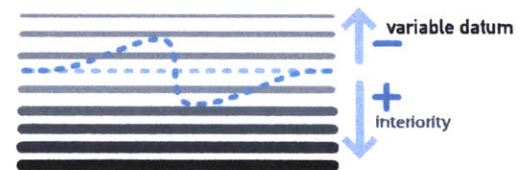
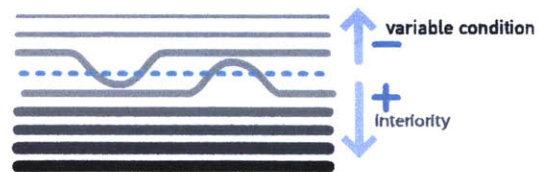
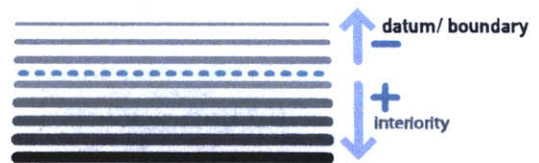
02: chemical peel
hr: 1
01: 3 dental veneers
hr: 1

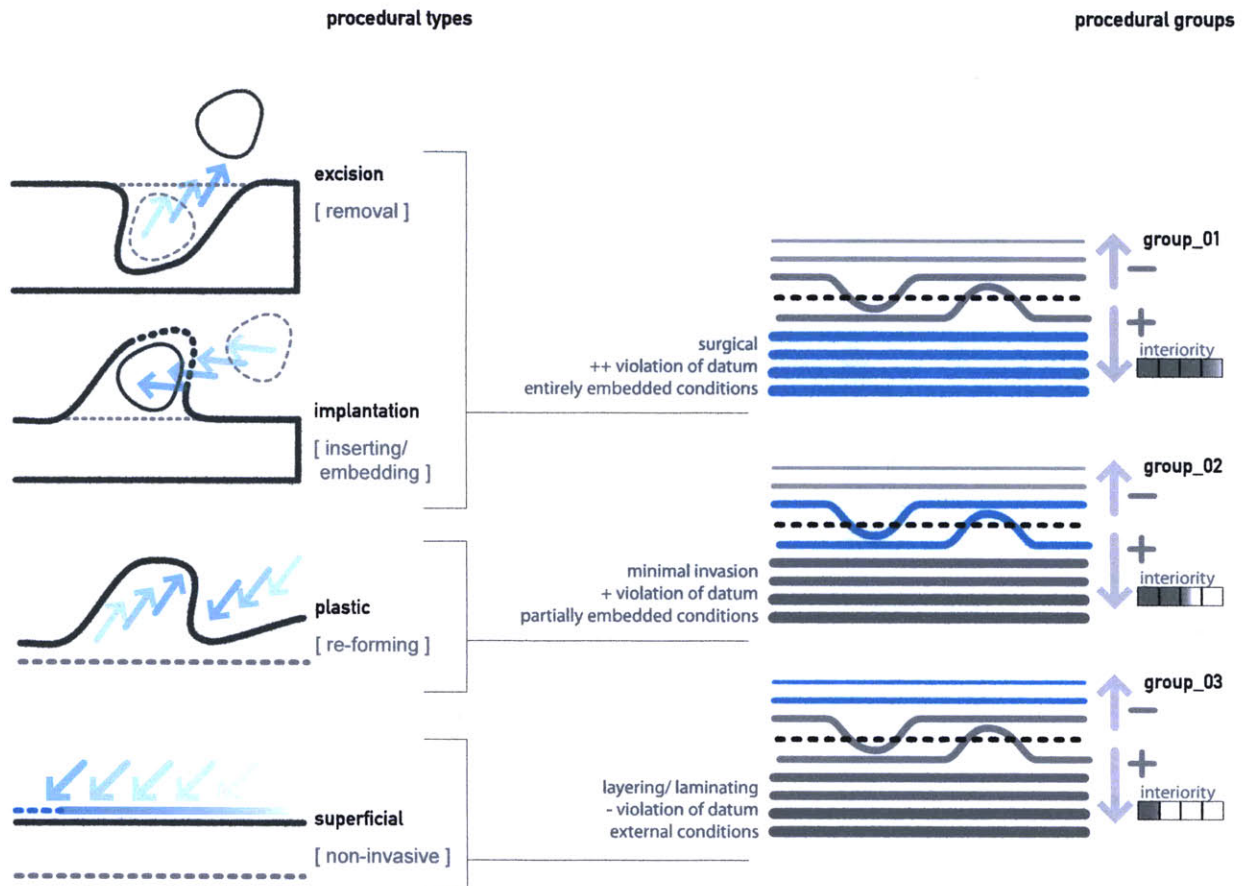
03: sclerotherapy
hr: 1
02: lipoplasty
hr: 3
01: lip augmentation
hr: 2

08: hair transplant
hr: 4
08: botox injection
hr: .5
04: laser whitening
hr: 1
03: face lift
hr: 3
02: abdominoplasty
hr: 3
01: lipoplasty thigh
hr: 2

03: 2 dental implants
hr: 3
02: rhinoplasty
hr: 3
01: breast implants
hr: 3

redefinition of interior / exterior





Reorganizing Interiority

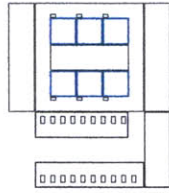
The nature of the cosmetic procedures suggests that the skin is a landscape of transformation. Rather than operating simply as a container for the interior of the body, the skin is a transformable datum that can continually redefine interiority. The diagram (above) groups the four types of procedures according to their interiority. In effect, these groups define three types of programmatic elements, the procedural spaces.

interiority:
type_1: surgical/ small to maximum violation of the datum/ manipulation of entirely embed conditions

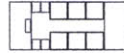
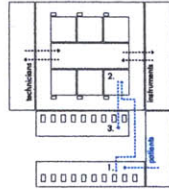
interiority:
type_2: conditions of partial interiority/ degree 1 externalities

interiority:
type_4: layering/ delaminating/ retexturizing degree 2 externalities

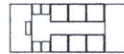
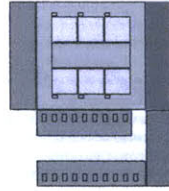
treatment
ancillary
typology



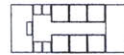
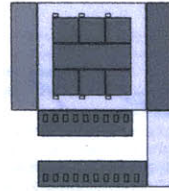
circulation



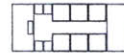
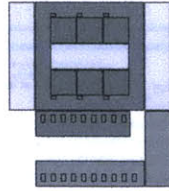
asepticism



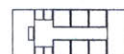
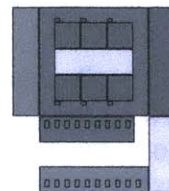
light



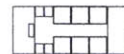
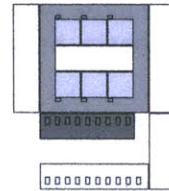
privacy



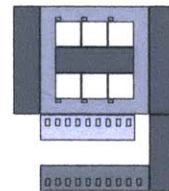
nudity



path

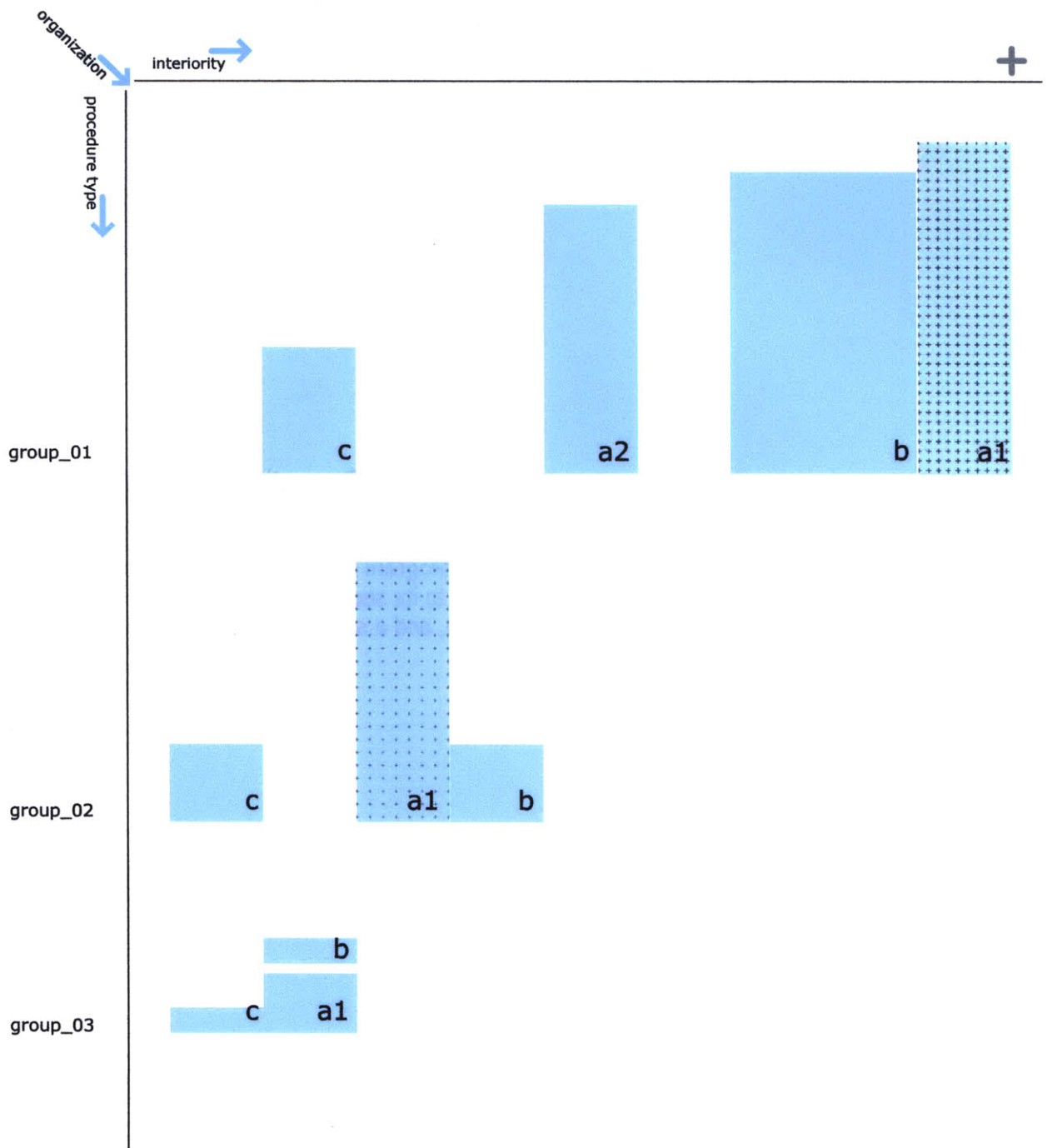


consciousness



Conventional Rules of Interiority

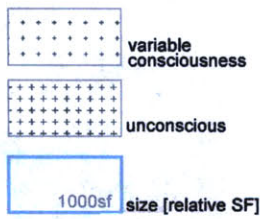
Cosmetic procedures can be conventionally distinguished as either invasive, non-invasive, or topical. The diagram on the left examines 3 types of conventional program organization to determine the spacial interiority of the procedure rooms with relationship to its support space. The plan diagrams (from left) refer to a surgery department, a physician office, and a salon. The more invasive procedures require more space and more support function.



organization of the 3 types of procedural spaces and their relative scale.

PROGRAM ORGANIZATION: conditions of interiority

consciousness / size



sub-groups

treatment a
procedure
prep / recpvery

support b
staff
instruments

reception c
waiting
consultation



site: location denoted on map (right)



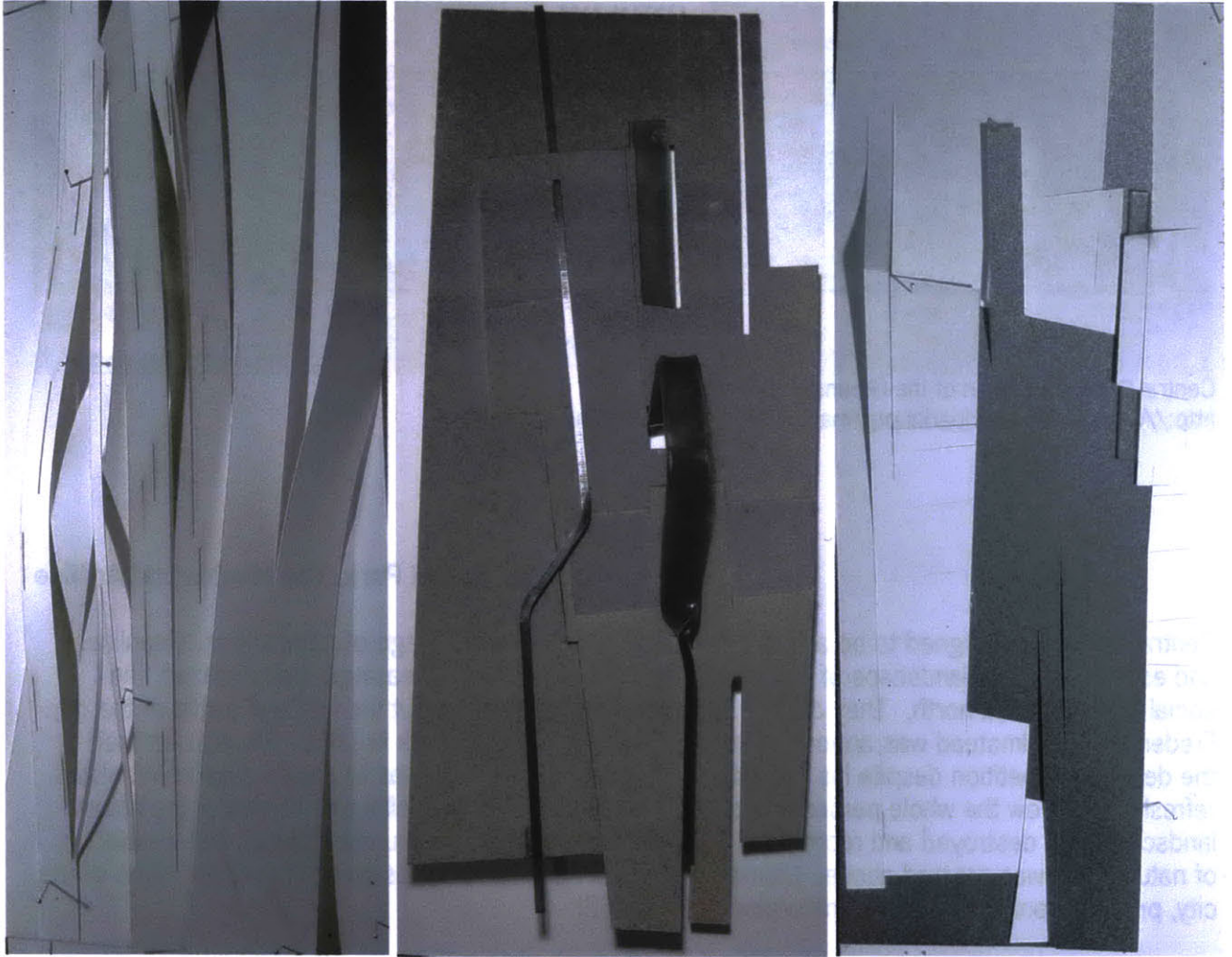
Central Park: Illustration of the Greensward Plan, 1858
<http://www.greenswardparks.org/maps/centralparknew.html>

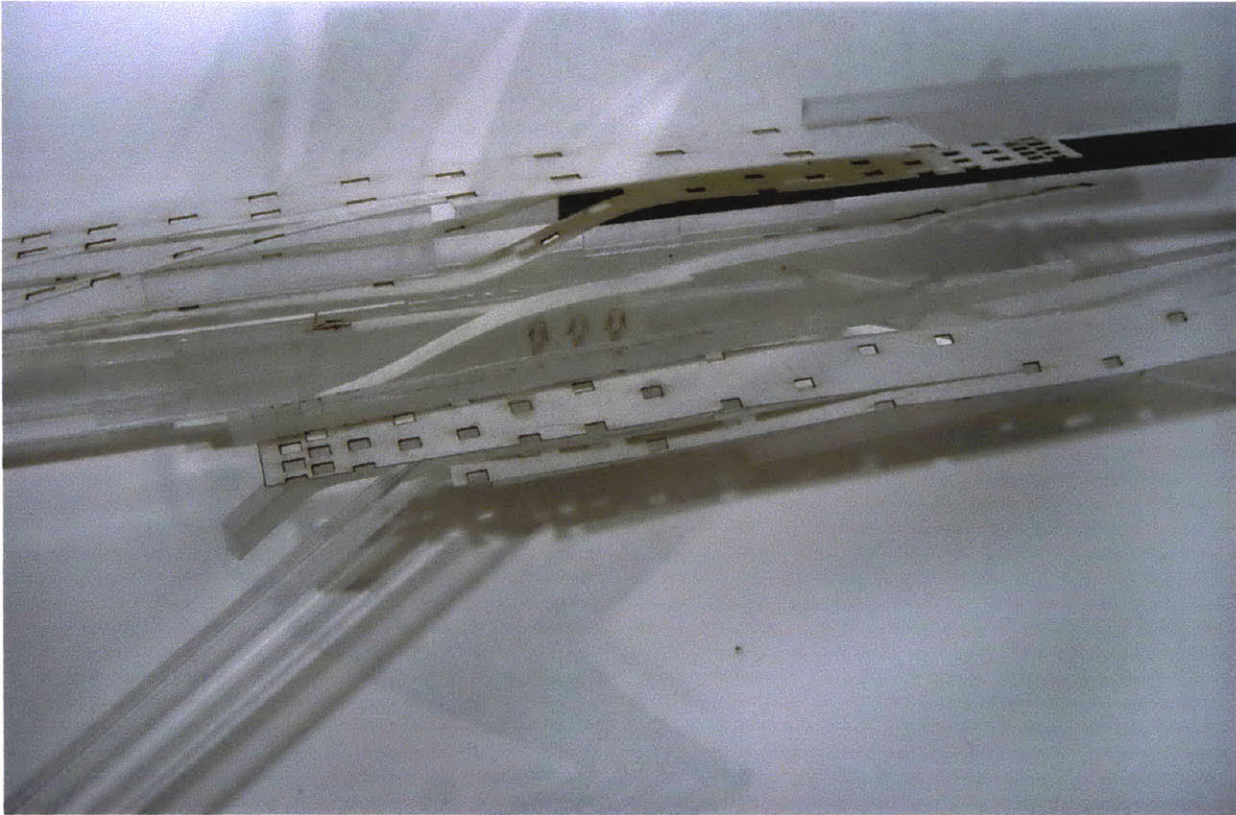
Central Park: The Mechanical Artifice

Central Park was designed to be a landscape of desire, selling an image of naturalness, cleanliness, and escape. As the landscape of downtown Manhattan became increasingly industrialized, the social elite migrated north. They desired the society of city life without the filth and traffic of the city. Frederick Law Olmstead was appointed superintendent of Central Park in 1850. He also entered the design competition despite his lack of experience. His intention was to create a park that would refresh and renew the whole person: mind, body and soul. Over the following 17 years, the natural landscape was destroyed and recreated. Drainage systems were laid underground. The simulation of naturalness was created above. Ultimately, Central Park operates as an artifice in the fabric of the city, providing only the image of naturalness (Reed, 63).

Central Park has come about through the implementation of false naturalness. In this zone of artifice, mechanisms of exposure and concealment are constantly at play. Much of the park's landscape is under the cover of trees, producing a disorientation that the grid does not. Central Park's boundary is a harsh score between itself and the less contrived body of the city. This thesis proposes a revisiting of the implantation of artifice and the procedures that enable it.

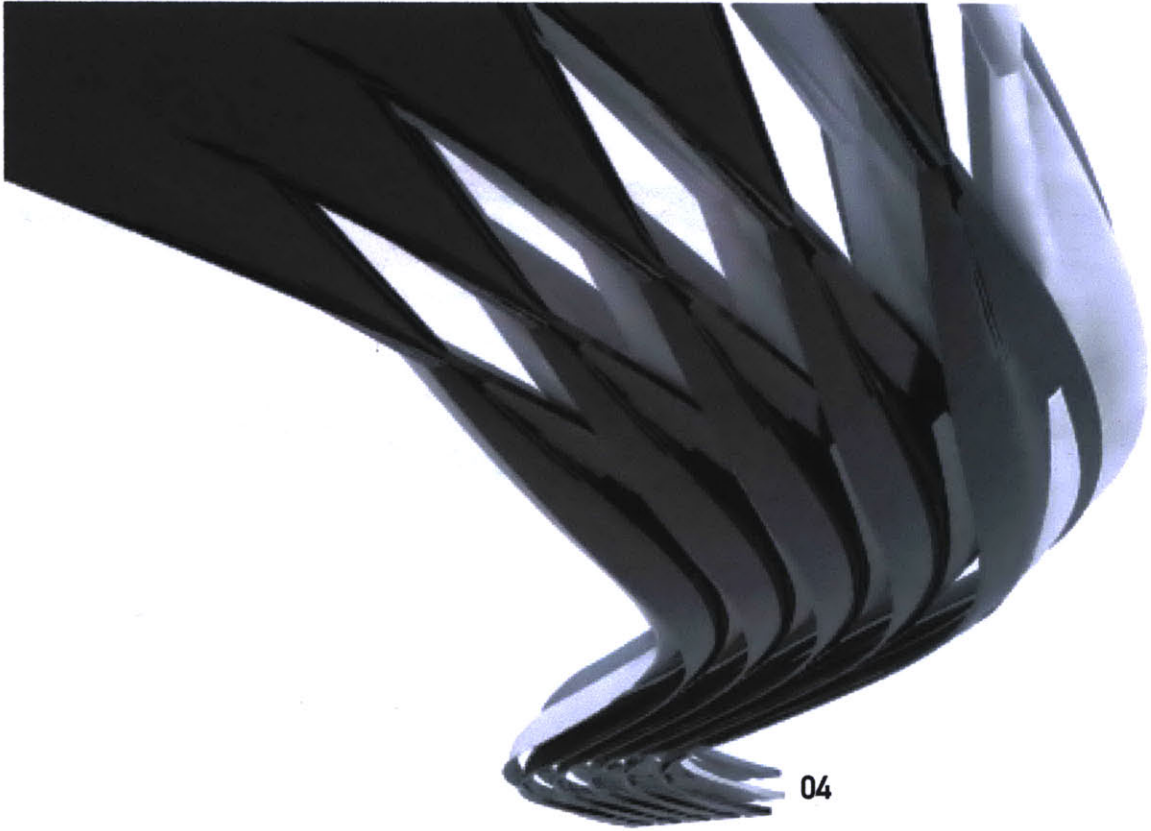
By layering effects on the site, the thesis aims to achieve a series of experiences in the landscape, allowing circulation and the spaces of transformation to coexist.





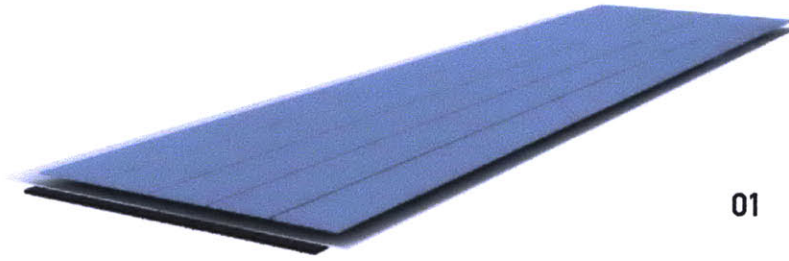
Lacerations in the Landscape

The study series (left) demonstrate the idea of layered interiorities. Circulation and programmatic volumes are woven through the site suggesting both interaction and autonomy. Study model (above) suggests transparency as a device to generate layered interiority. Perforated opaque material operates as a field of absorption, defining degrees of penetration of light, movement, and views.



Lacerations in the Landscape: 2

In an attempt to more rigorously test techniques of transformation, this digital study demonstrates a set of procedural techniques applied uniformly to multiple components. The layered plane is divided into uniform components (top right). A combination of techniques is systematically applied and spatial conditions emerge.



01



02

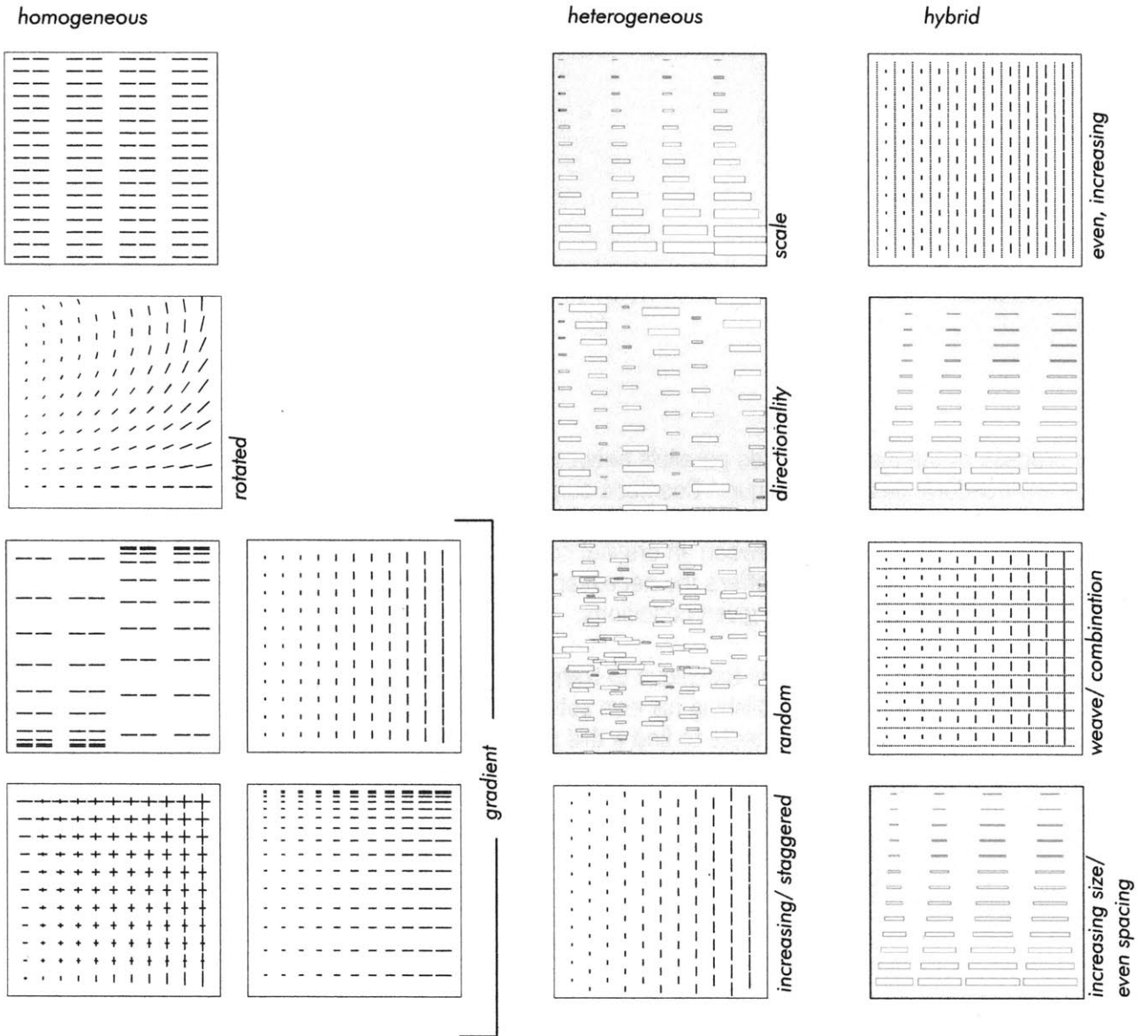


03

Finding Technique

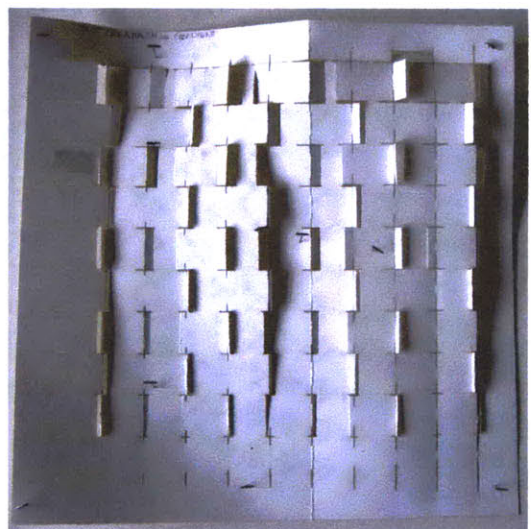
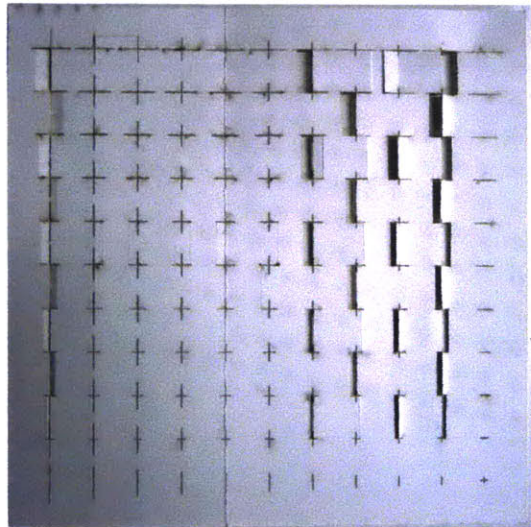
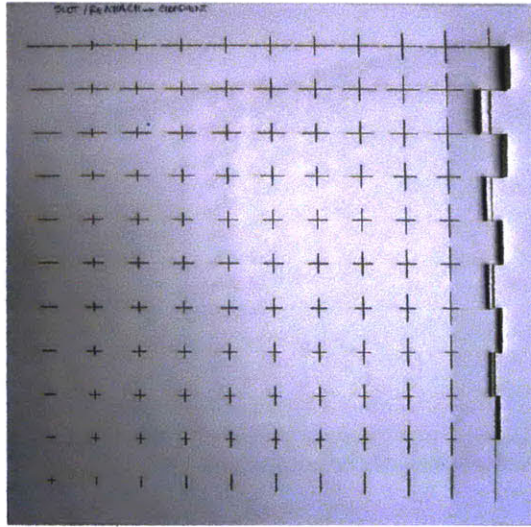
The process of the thesis engages parallels between architecture and surgical transformation to propose a procedural design technique. Cosmetic surgical procedures rely upon the subtle transformation of sameness. The process here presented examines the idea of gradient as this accumulation of relentlessness. The gradient between an original condition and its manipulation reveals this process of layered effect. Computation offers the necessary medium to exploit this gradient as the infinite number of subsets between two given conditions.

Whereas the surgeon employs his technique to transform the existing landscape of the body, the architect is responsible for establishing his own set of techniques to be deployed on a site. The following proposal is a series of tests to find a this set of techniques. The aim is a series of architectural experiences that bear witness to their own process.

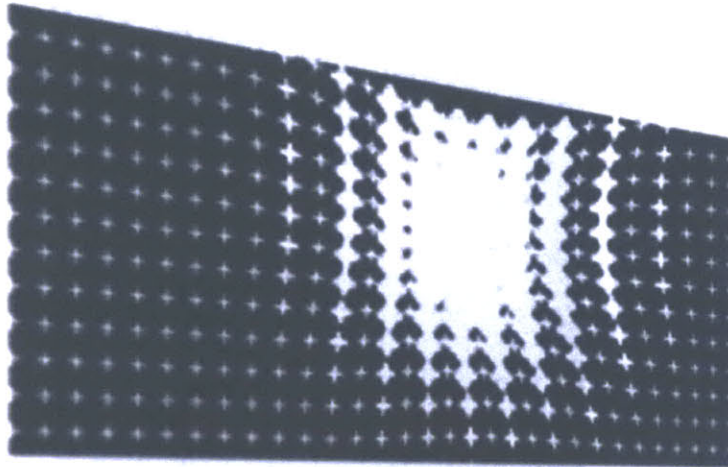


Procedural Effects Study 01: Patterning

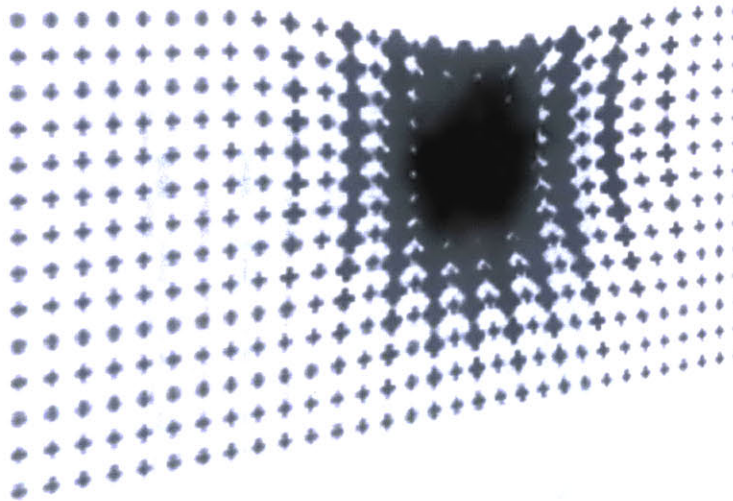
A variety of incision patterns (above) employ the effect of gradient on a surface. As fields of absorption for light, view, etc; the surface can then be manipulated to test the gradient of effects (right).



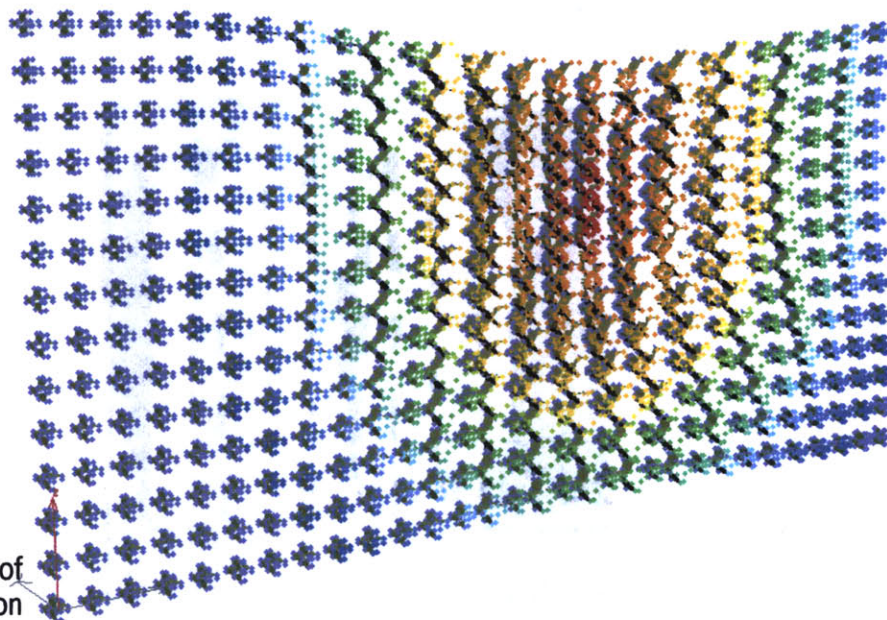
opening generated
from the field

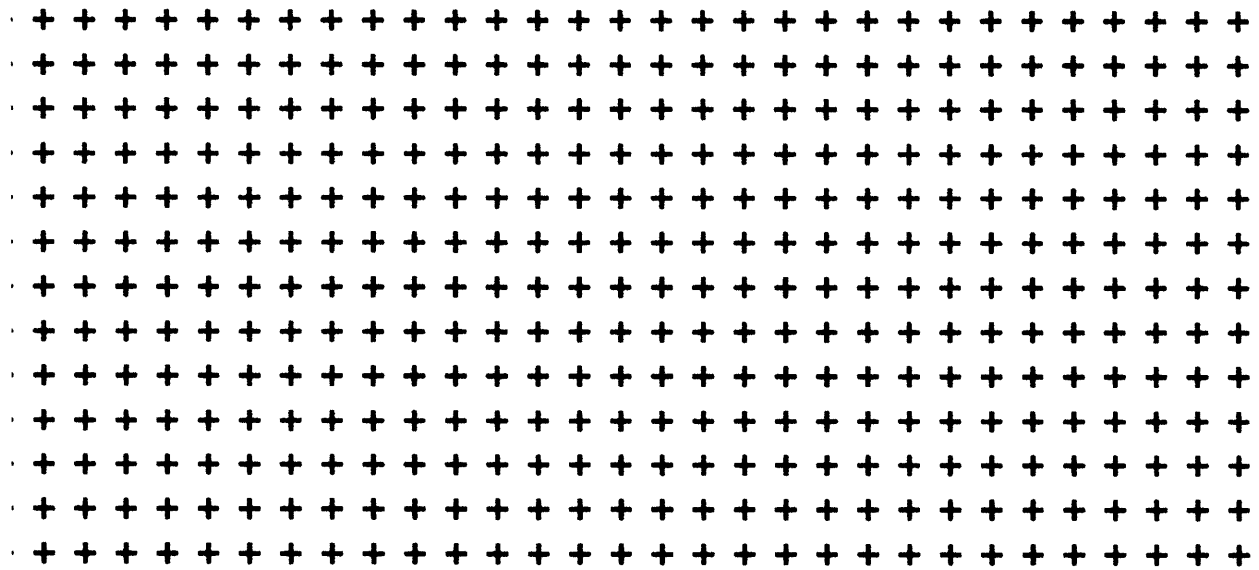


field of units



localized intensity of
transformation

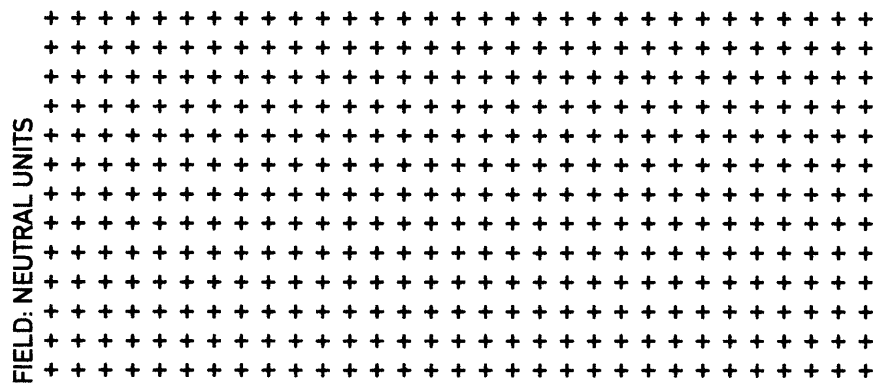
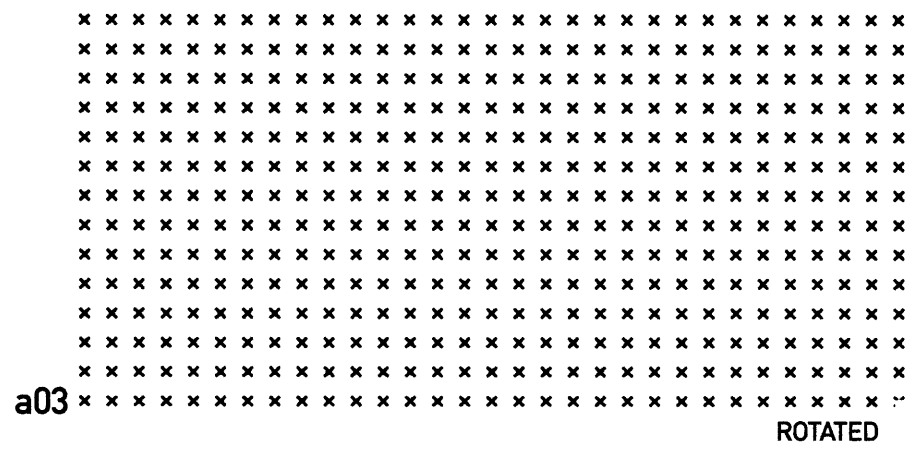
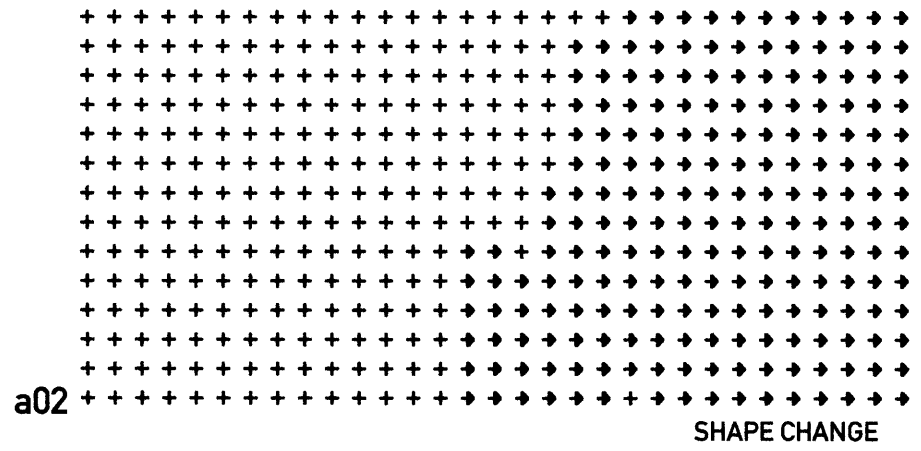
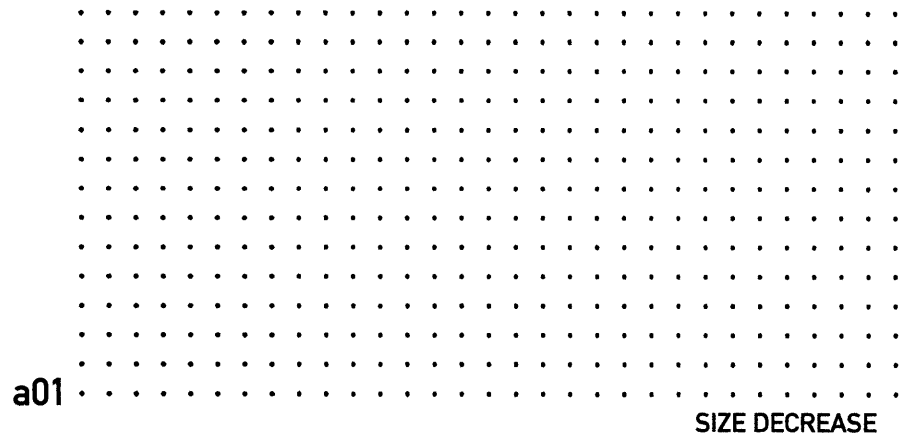




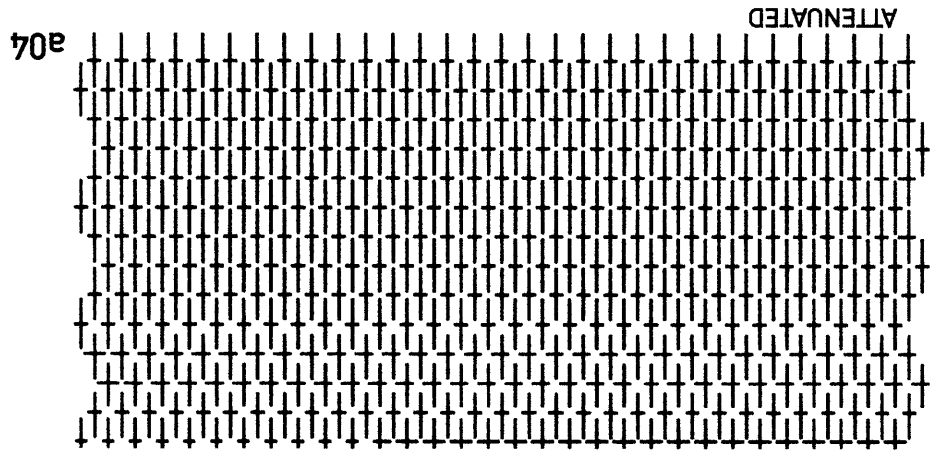
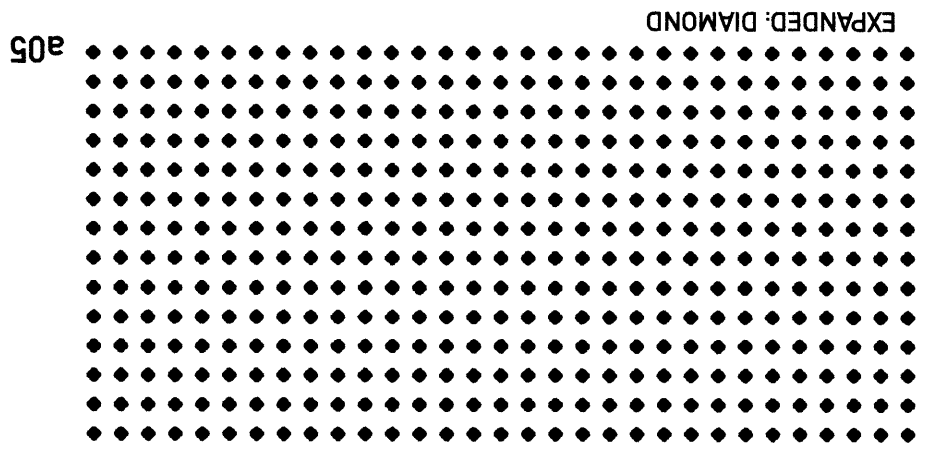
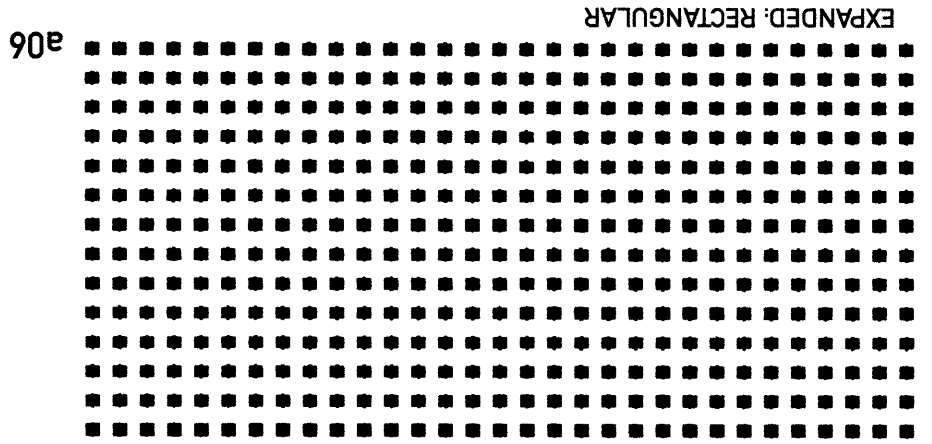
Procedural Effects Test 02: Fields of Absorption

The following process is developed through a system of parametric fields of units. A neutral field (above) is transformable through the local application of effects to individual units. Transformation can be applied precisely to generate a desired intensity of porosity or absorption.

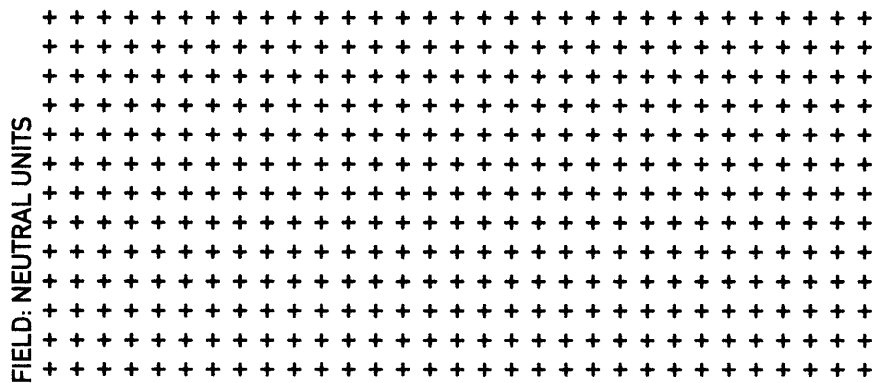
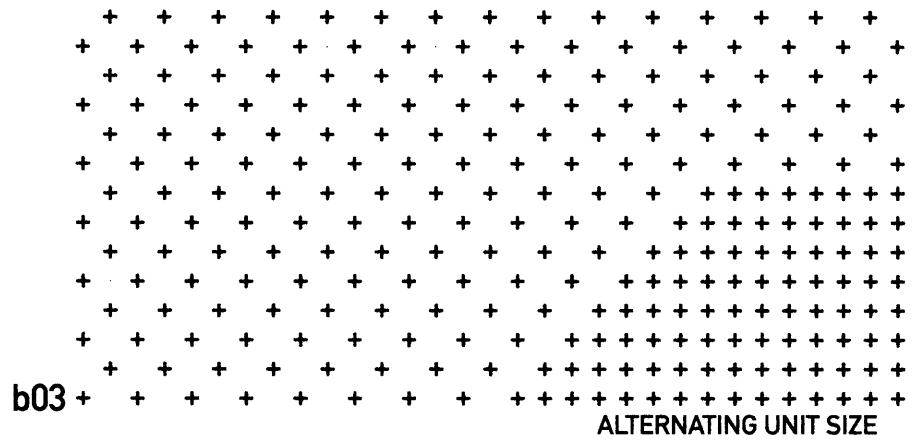
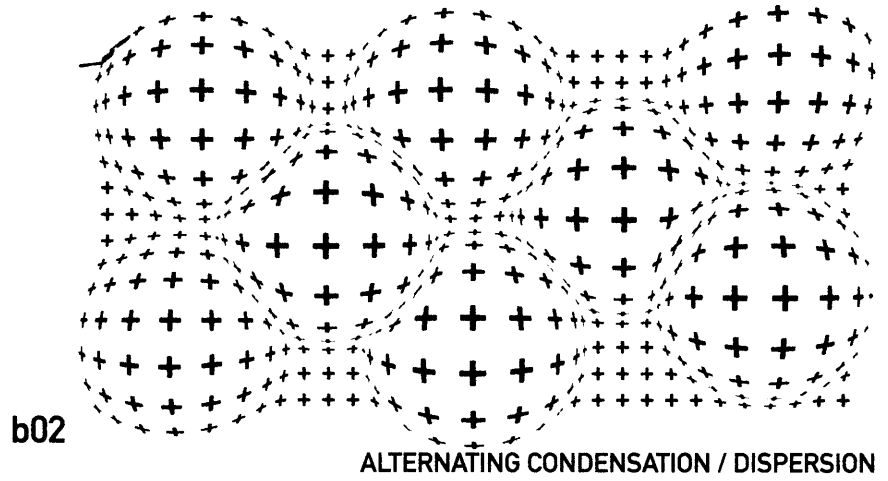
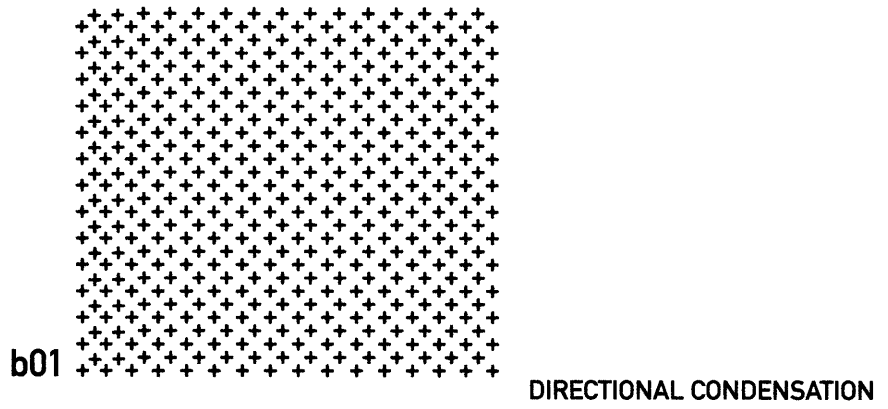
group a: unit shape transformation

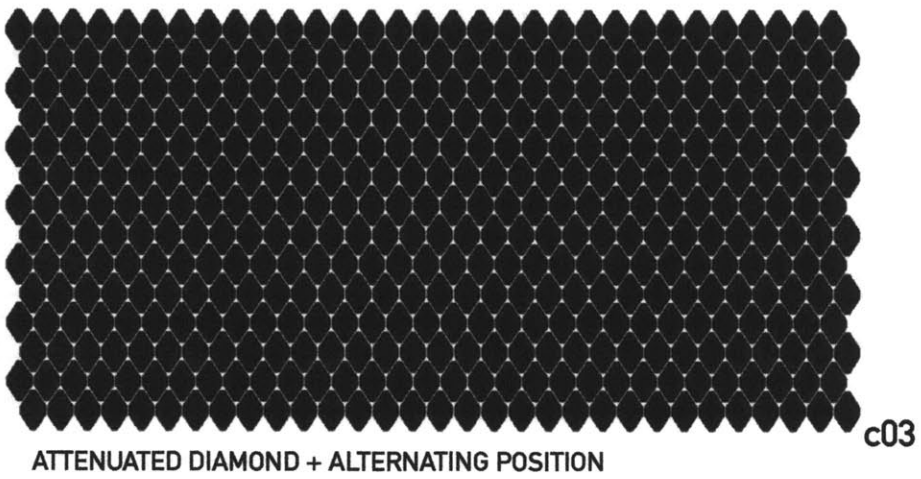
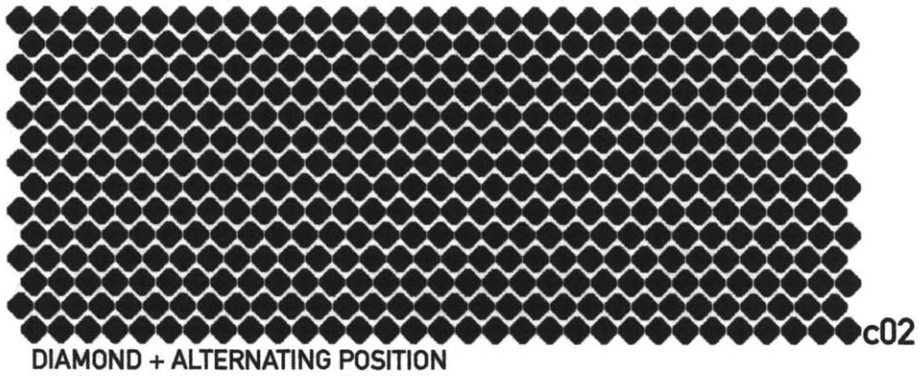
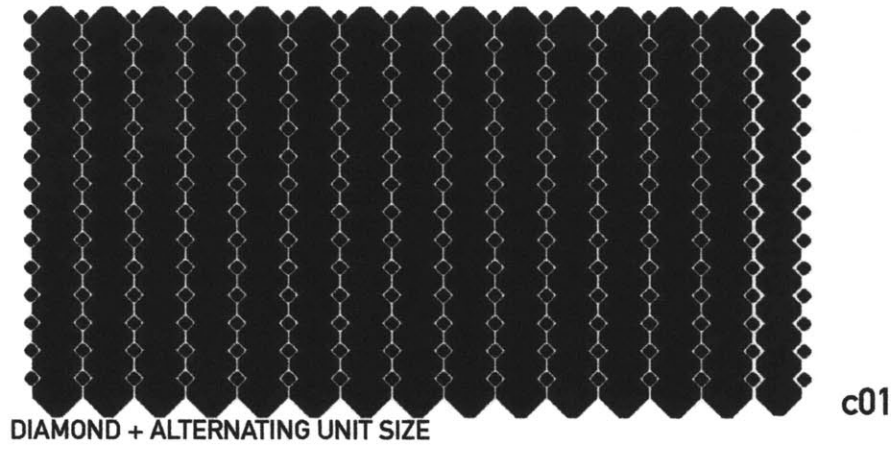


TRANSFORMATIONS: UNIT SHAPE



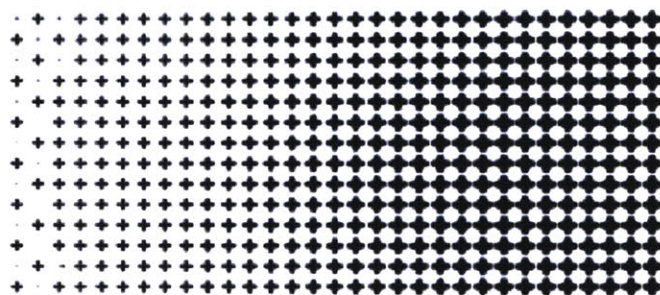
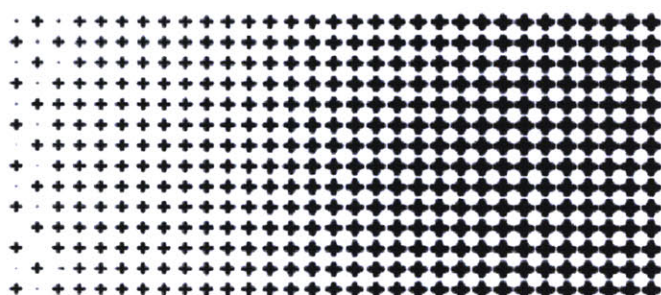
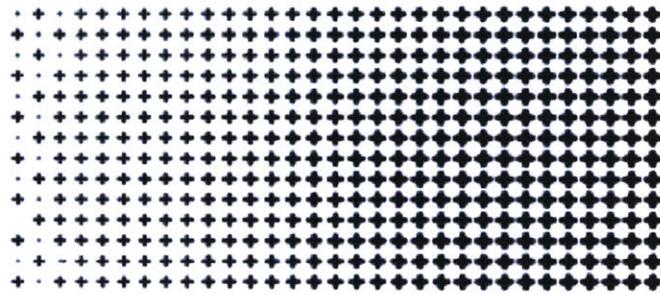
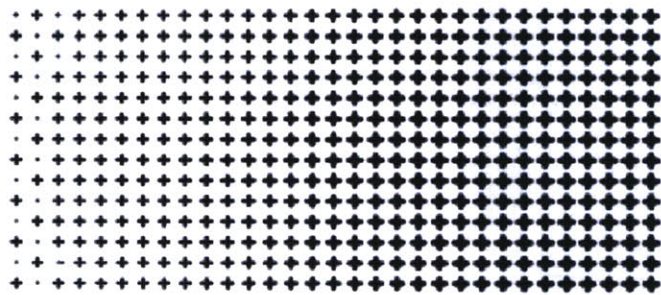
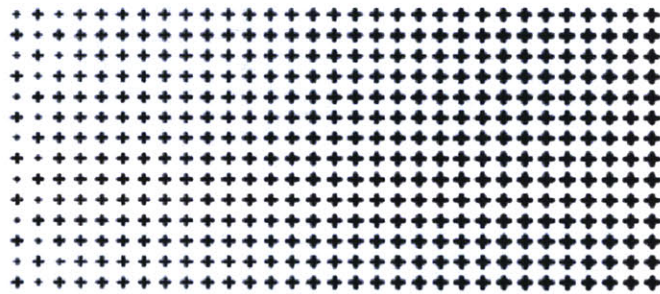
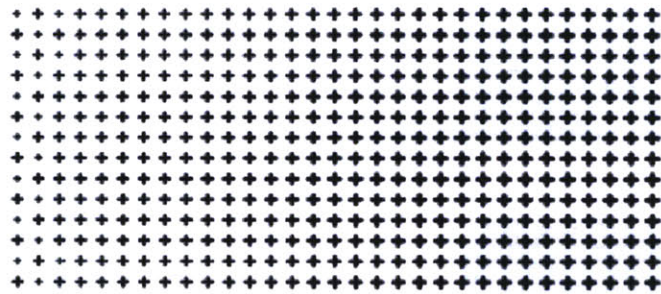
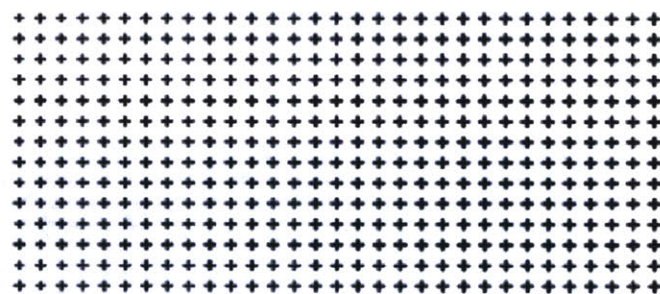
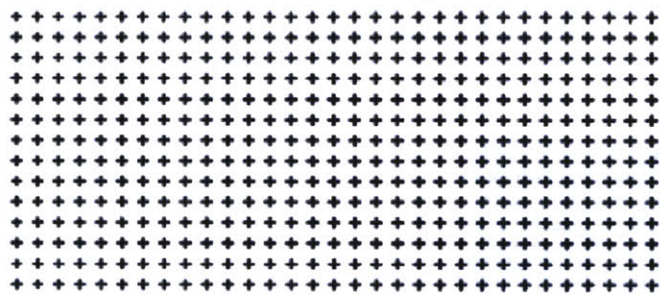
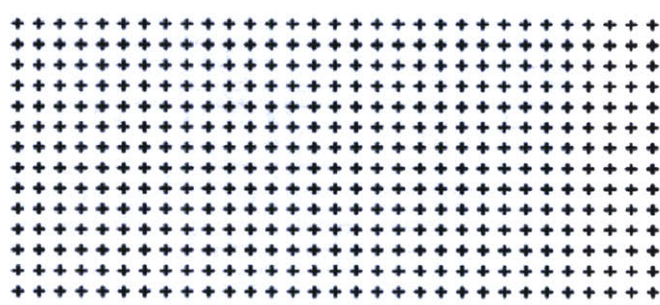
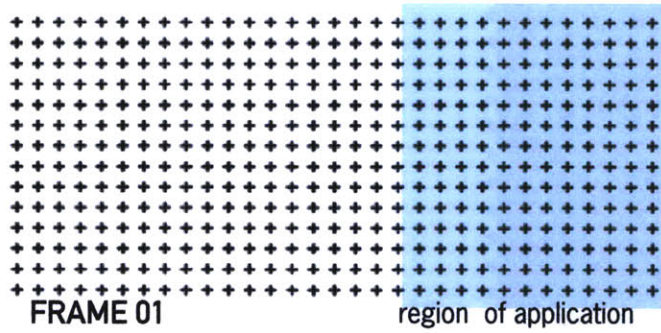
group b: unit arrangement transformation

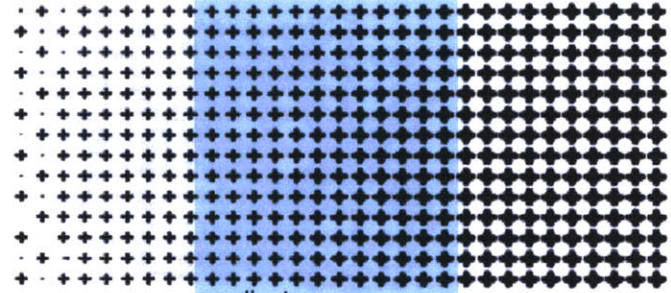
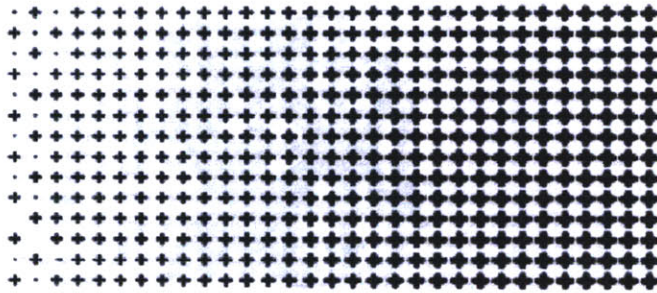
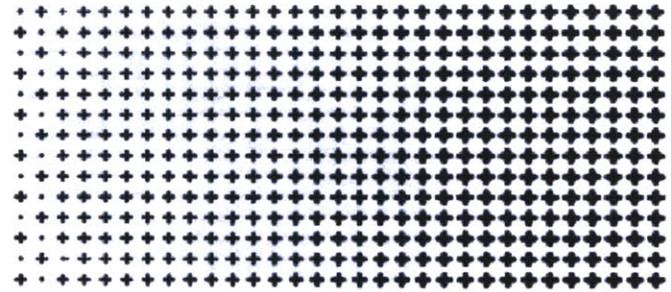
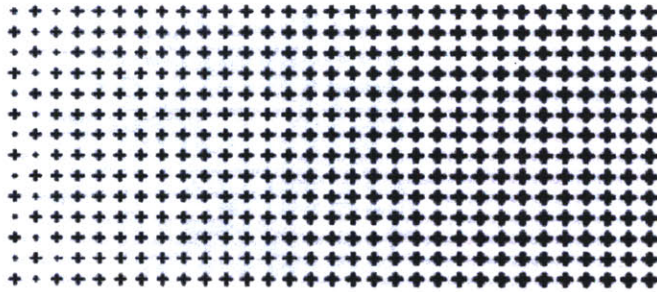
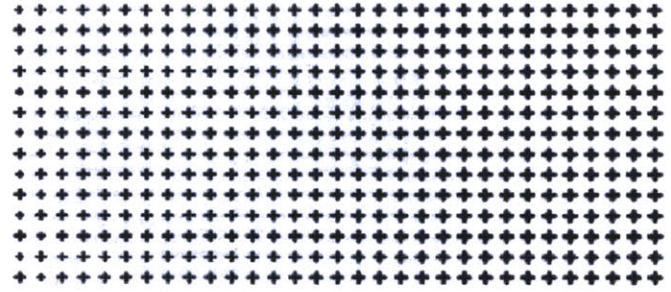
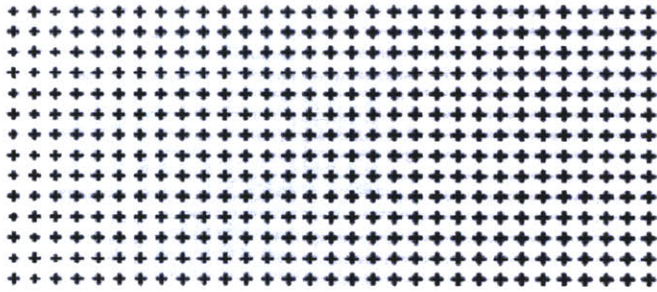
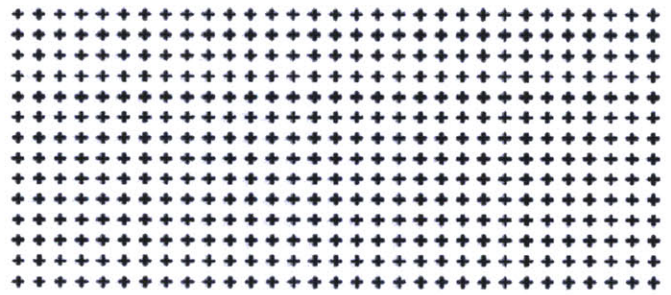
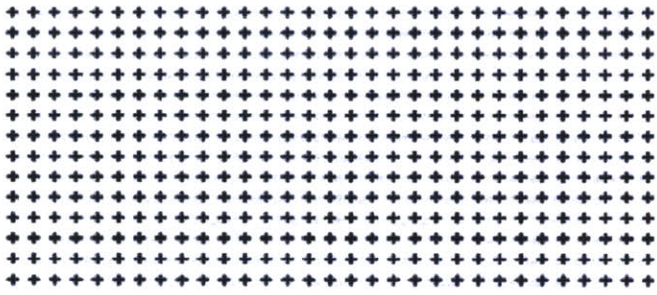




group c: uniform combinatorial transformation

TRANSFORMATIONS: UNIT ARRANGEMENT



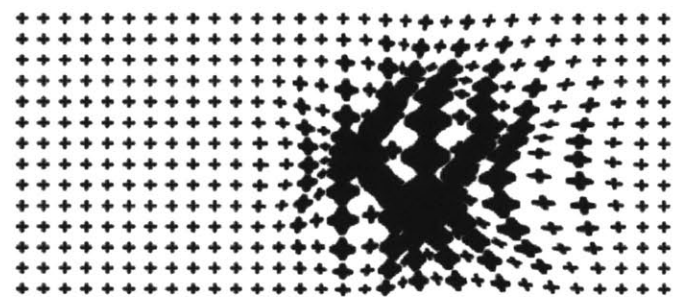
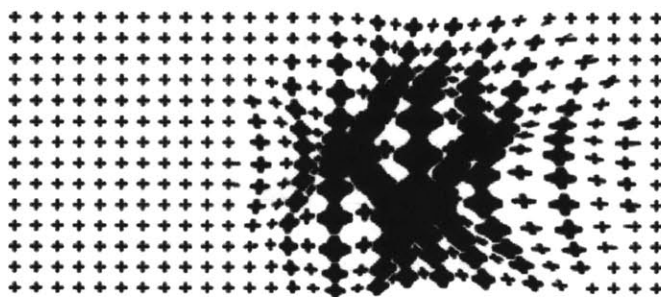
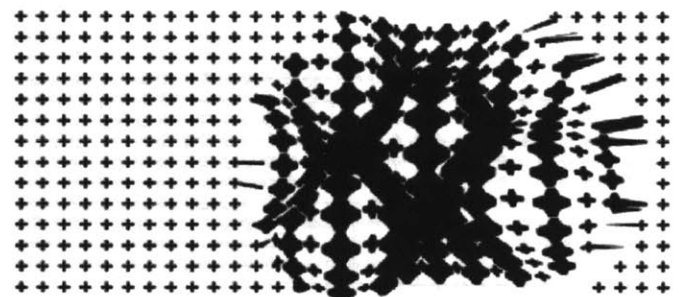
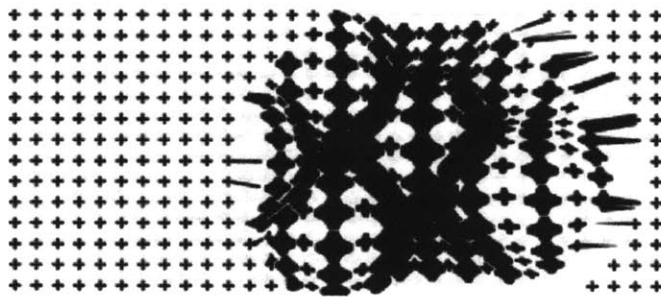
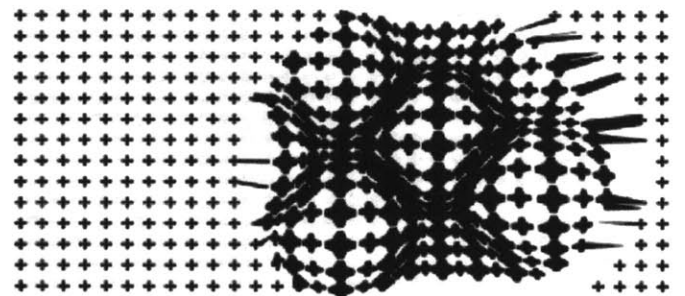
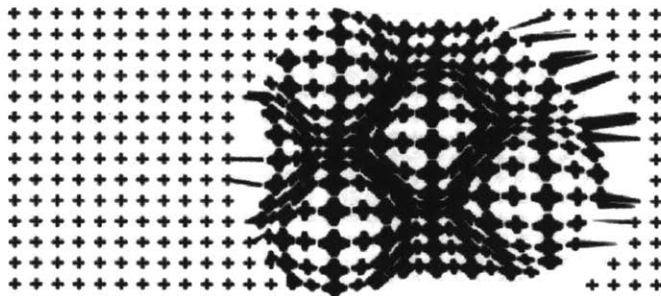
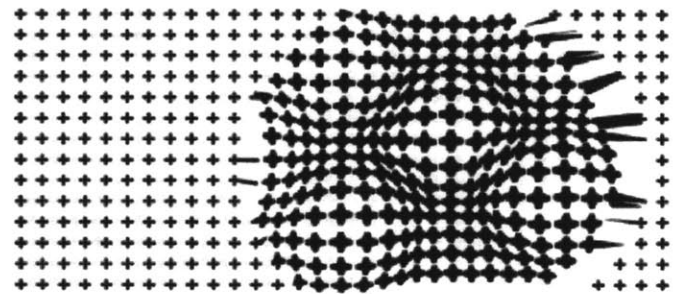
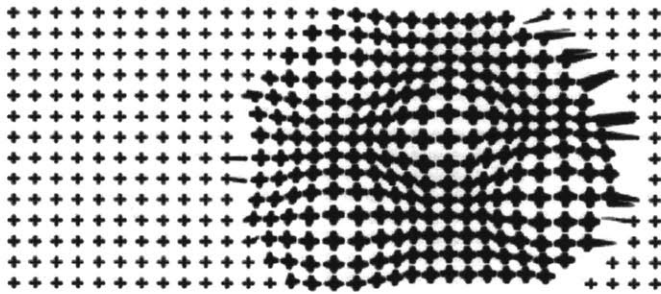
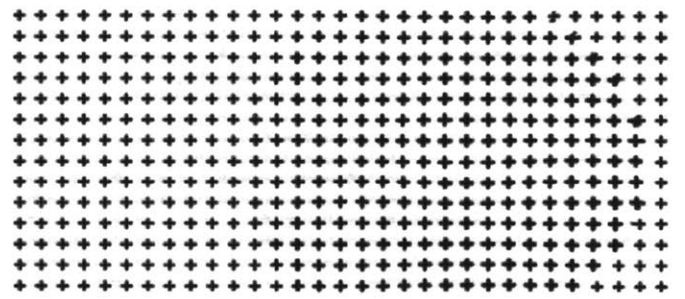
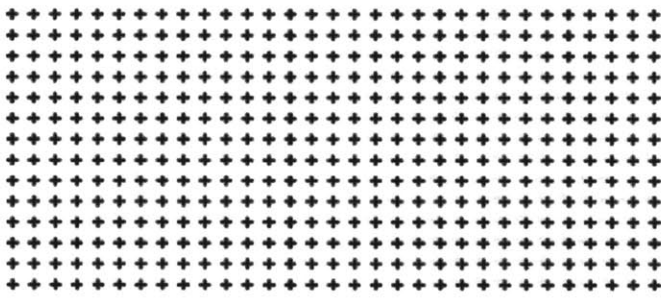


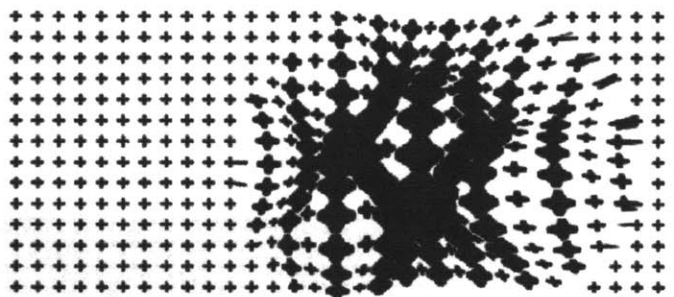
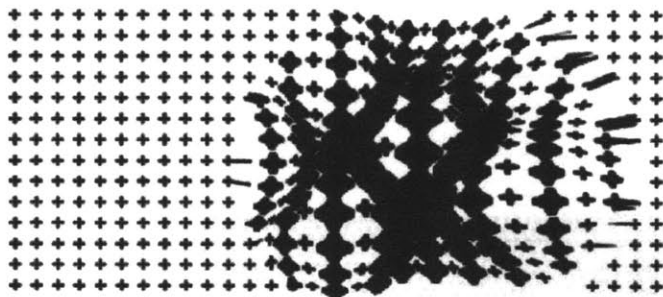
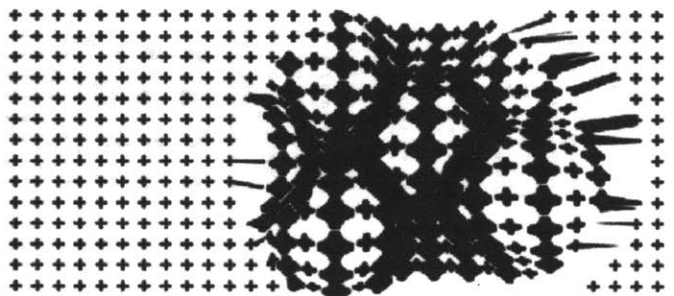
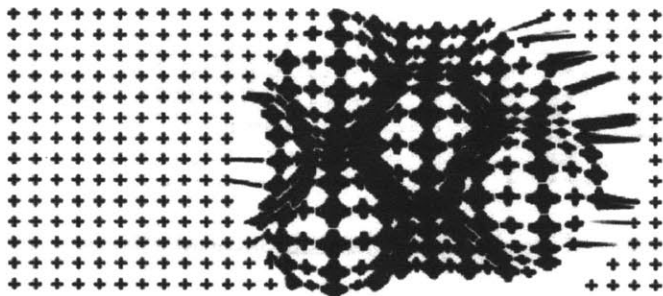
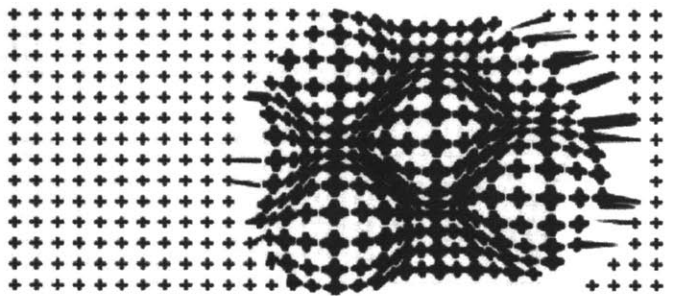
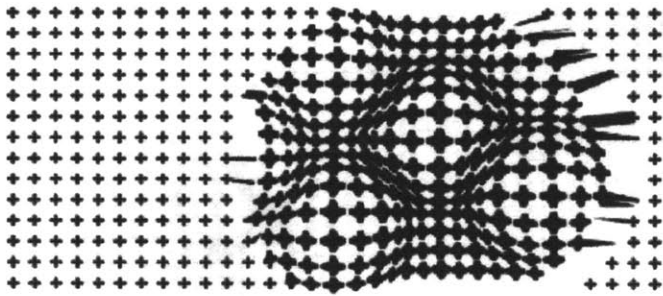
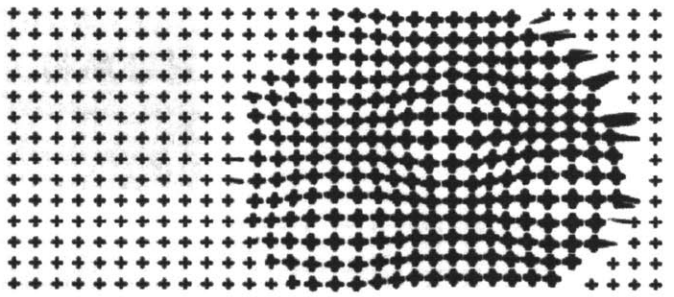
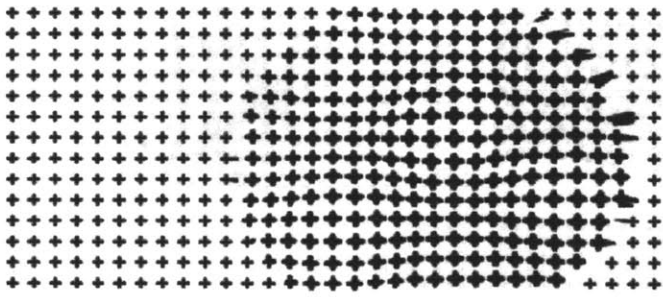
gradient

FRAME 19

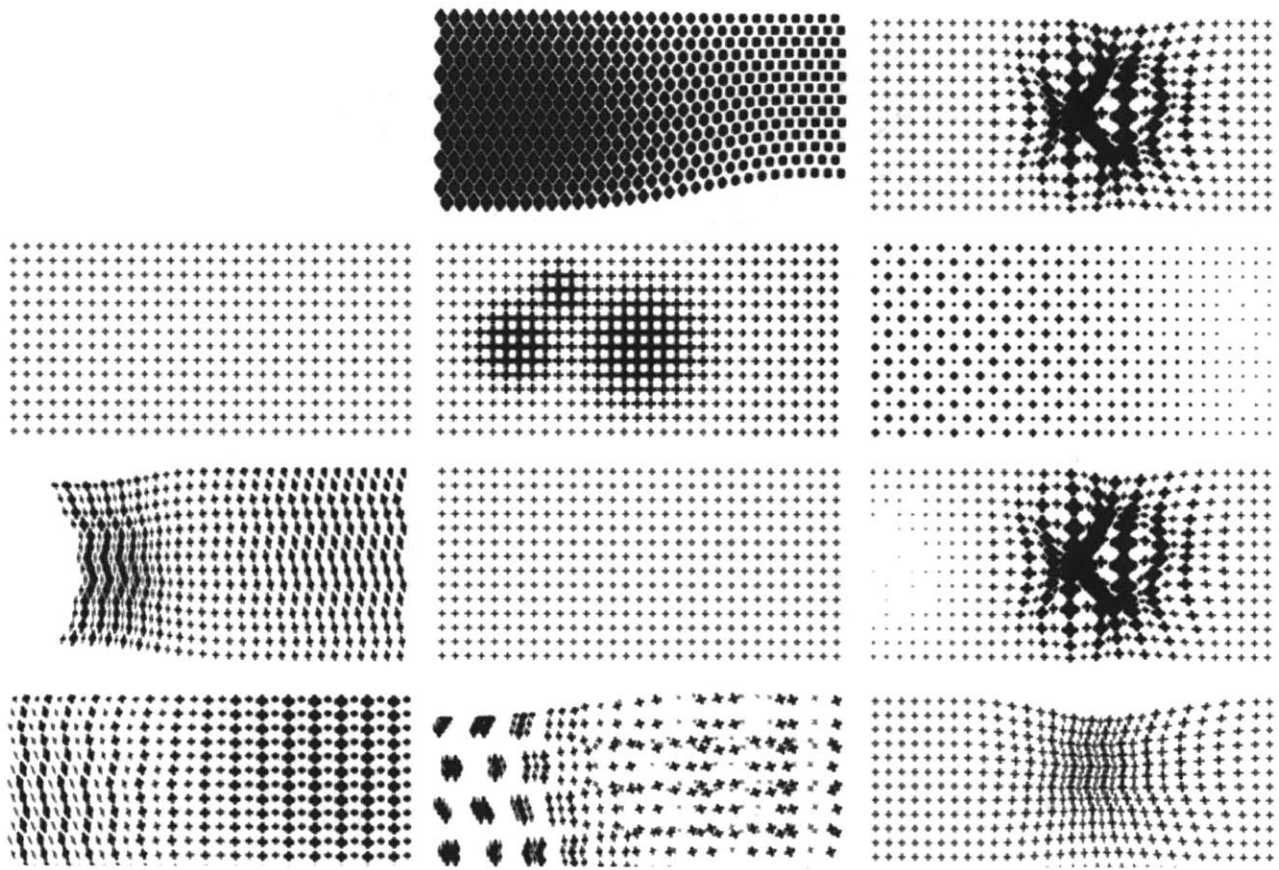
GRADIENT STUDY 01

Frames demonstrate the emerging gradient that is generated as the combination of effects is applied.

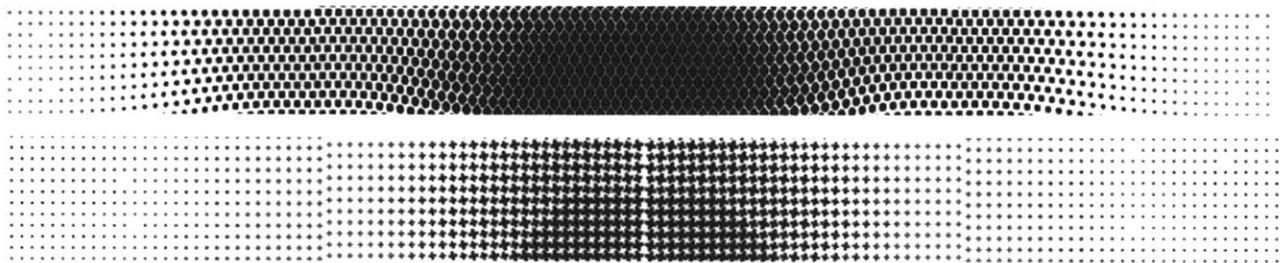




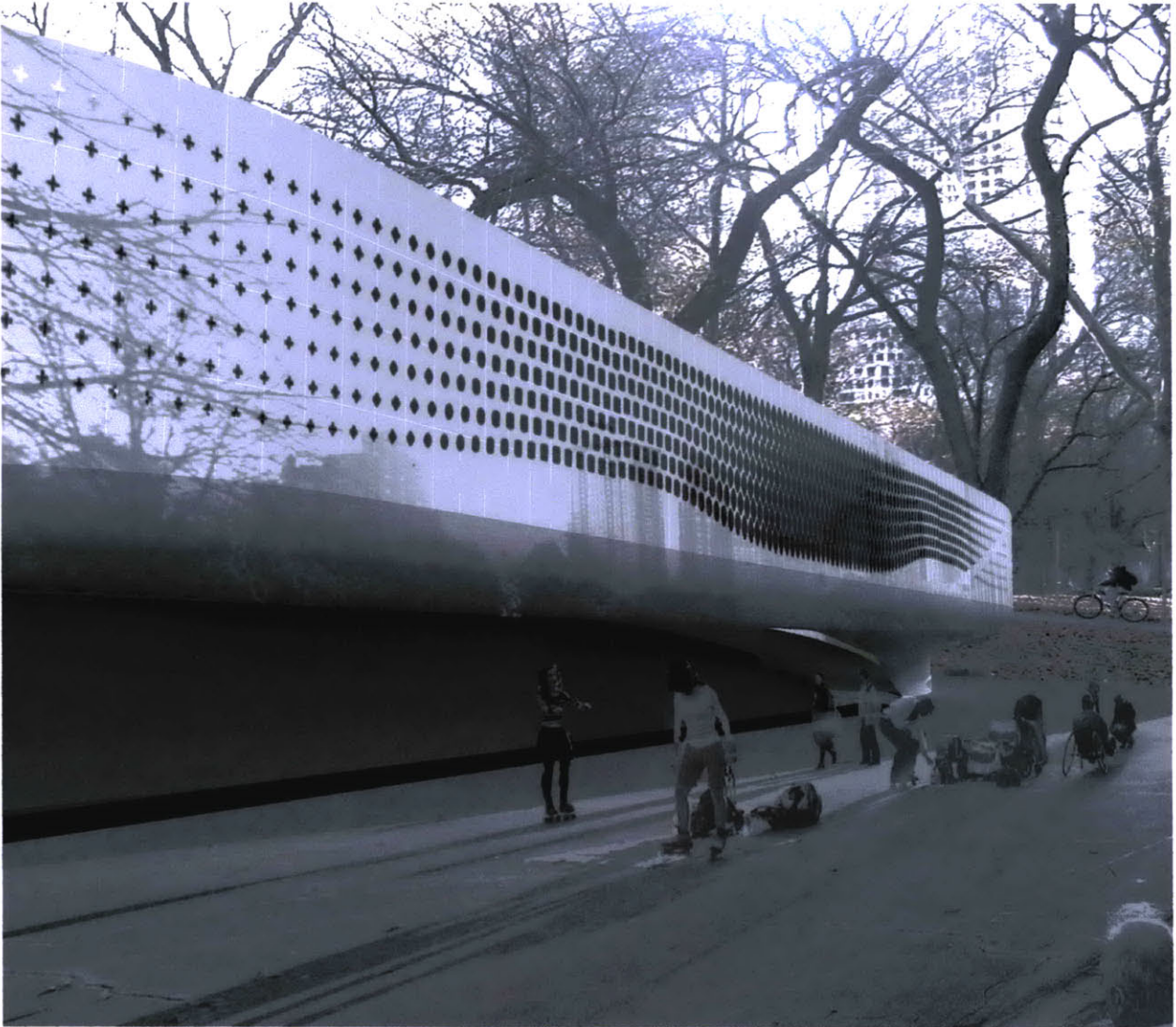
GRADIENT STUDY 02



variations of locally applied combinatorial effects

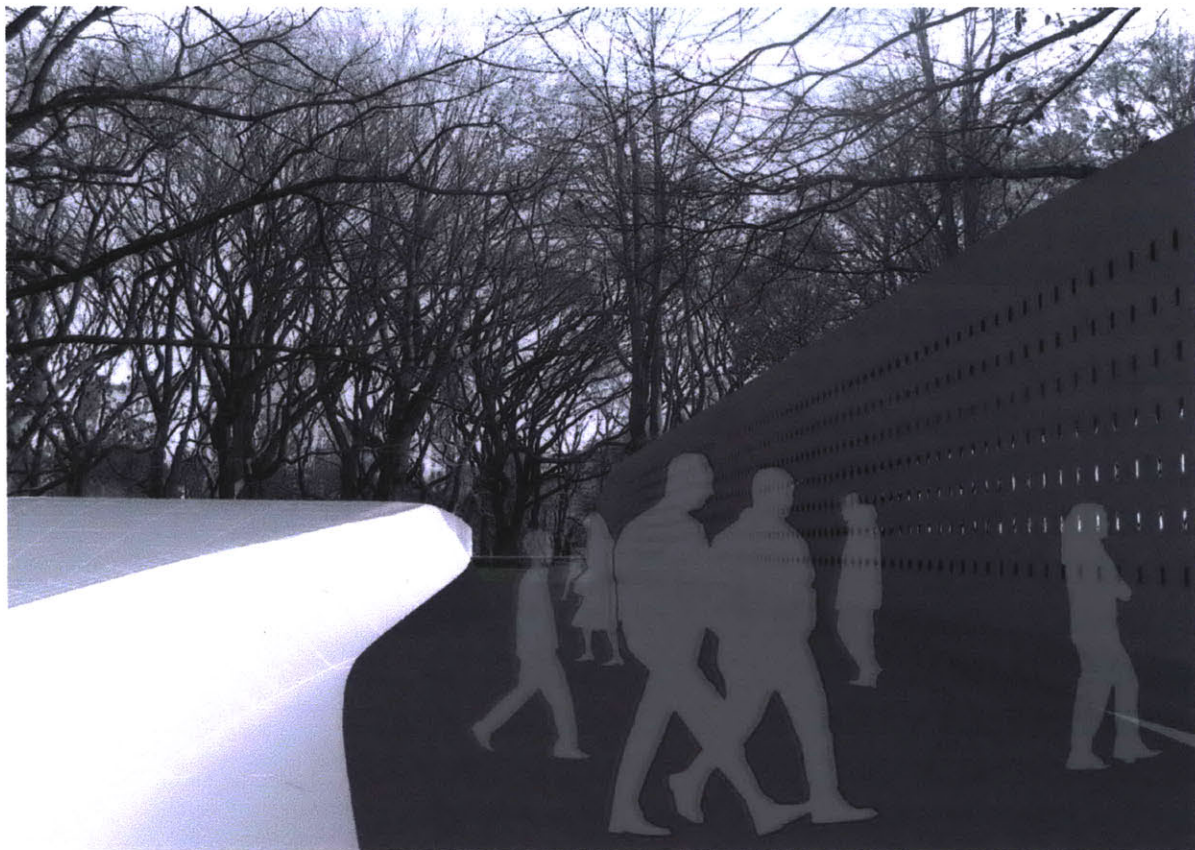
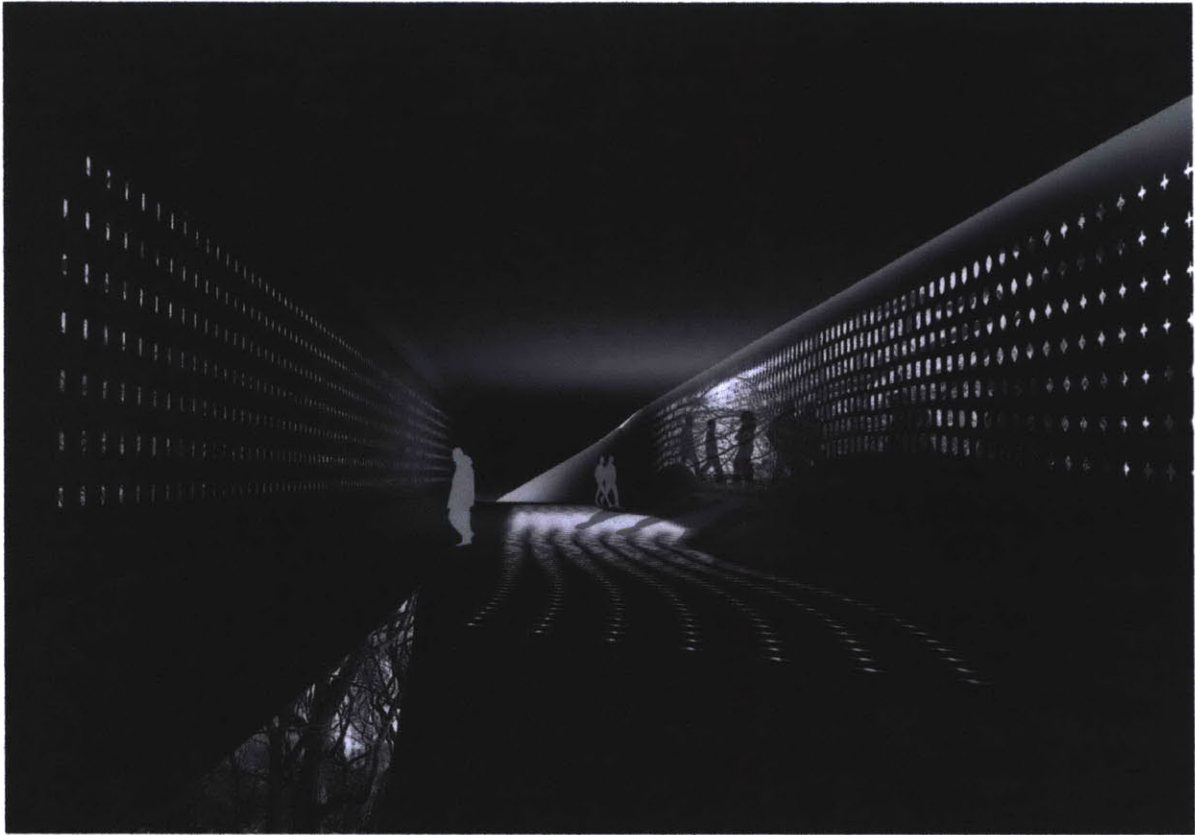


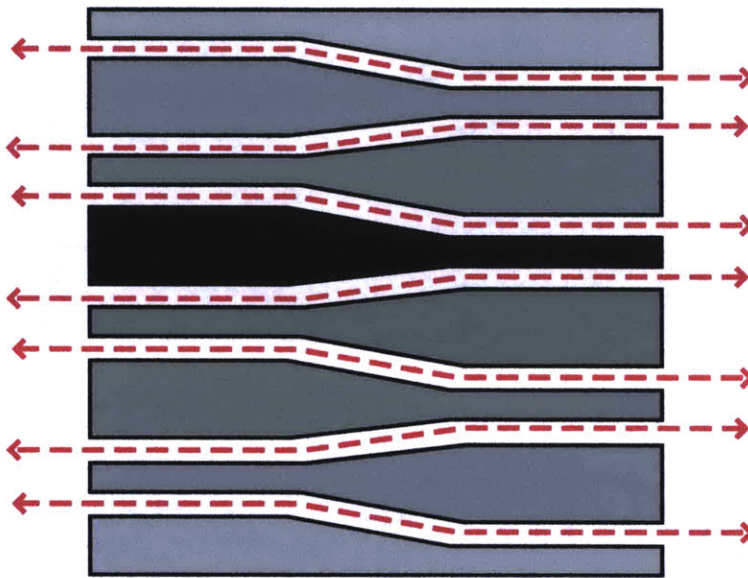
variations of gradient of effects



Fields of Absorption

These fields of absorption are applied to the project to generate openings for movement, view, and light. Programmatic volumes are organized along circulation paths and offer varying degrees of view for the public.

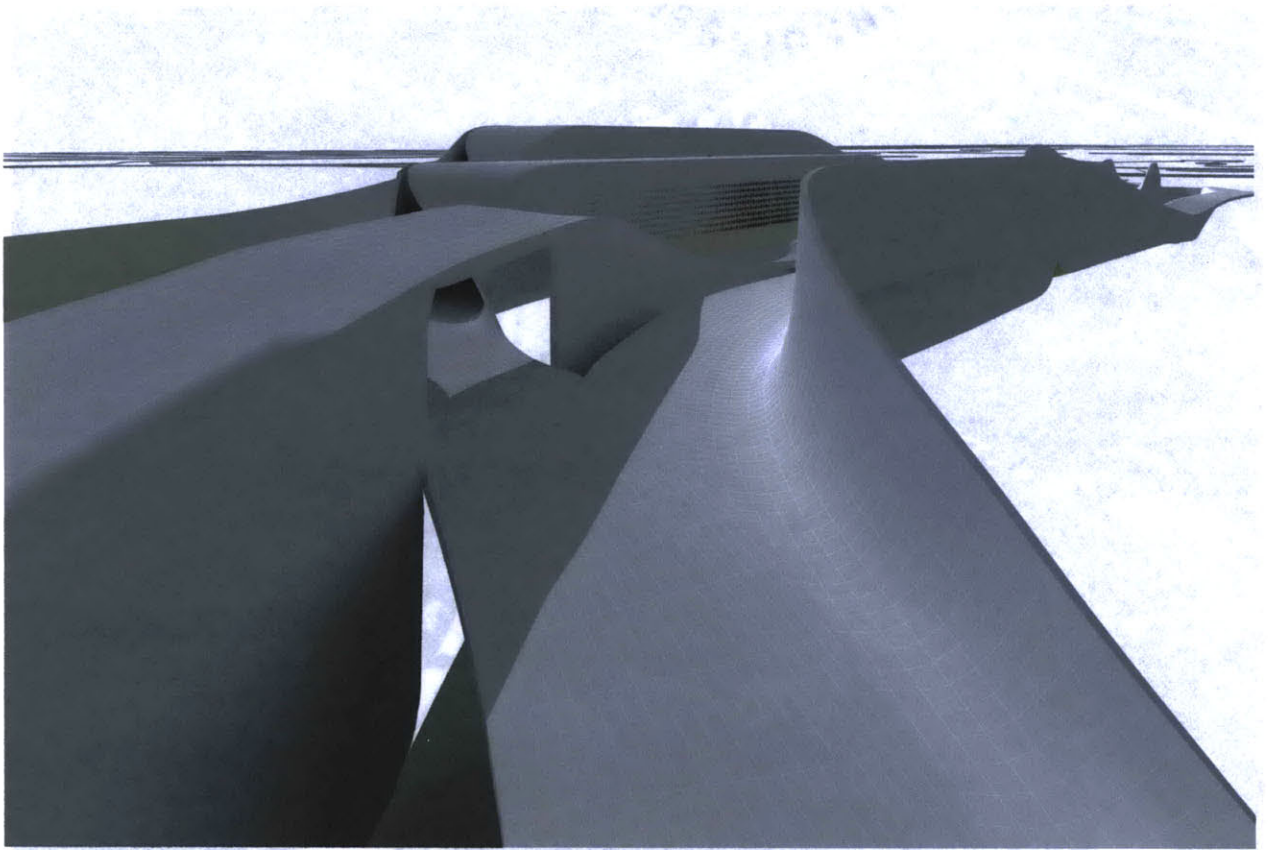


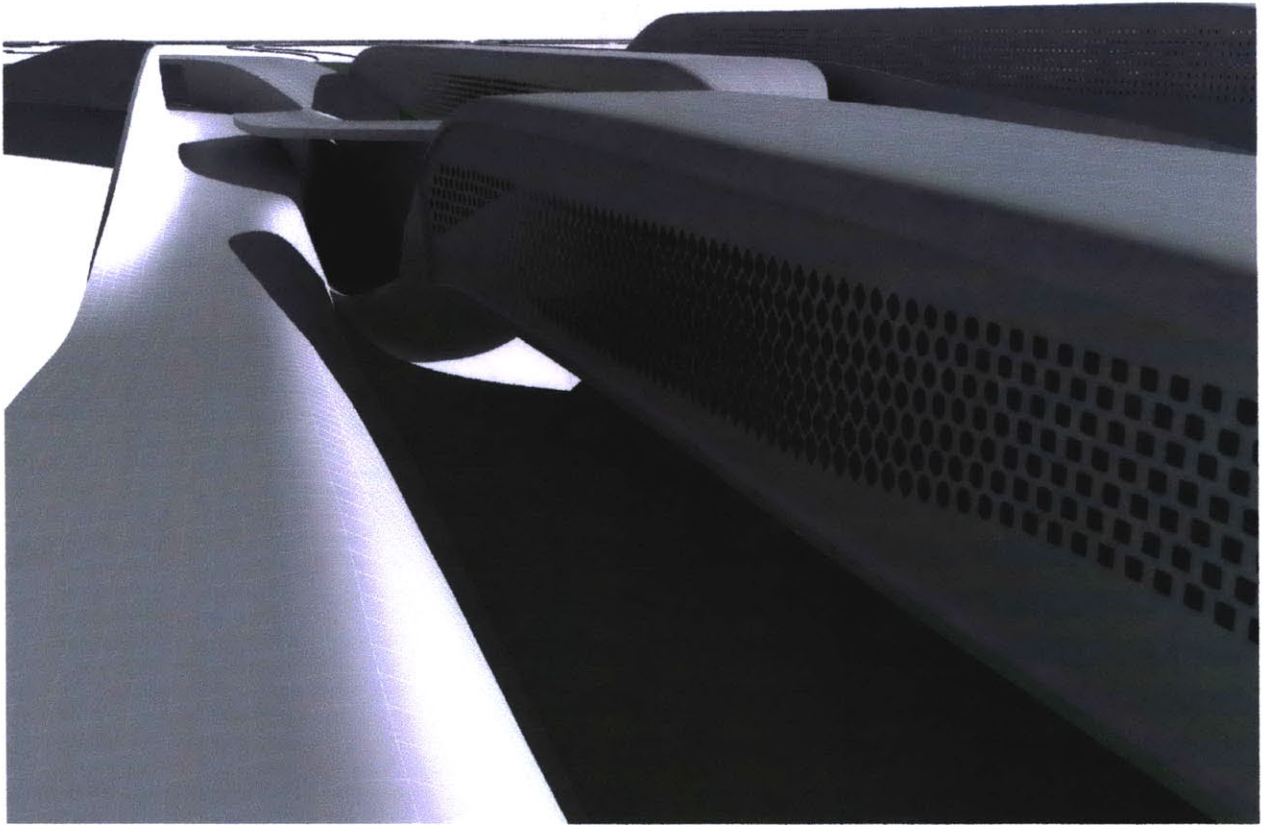


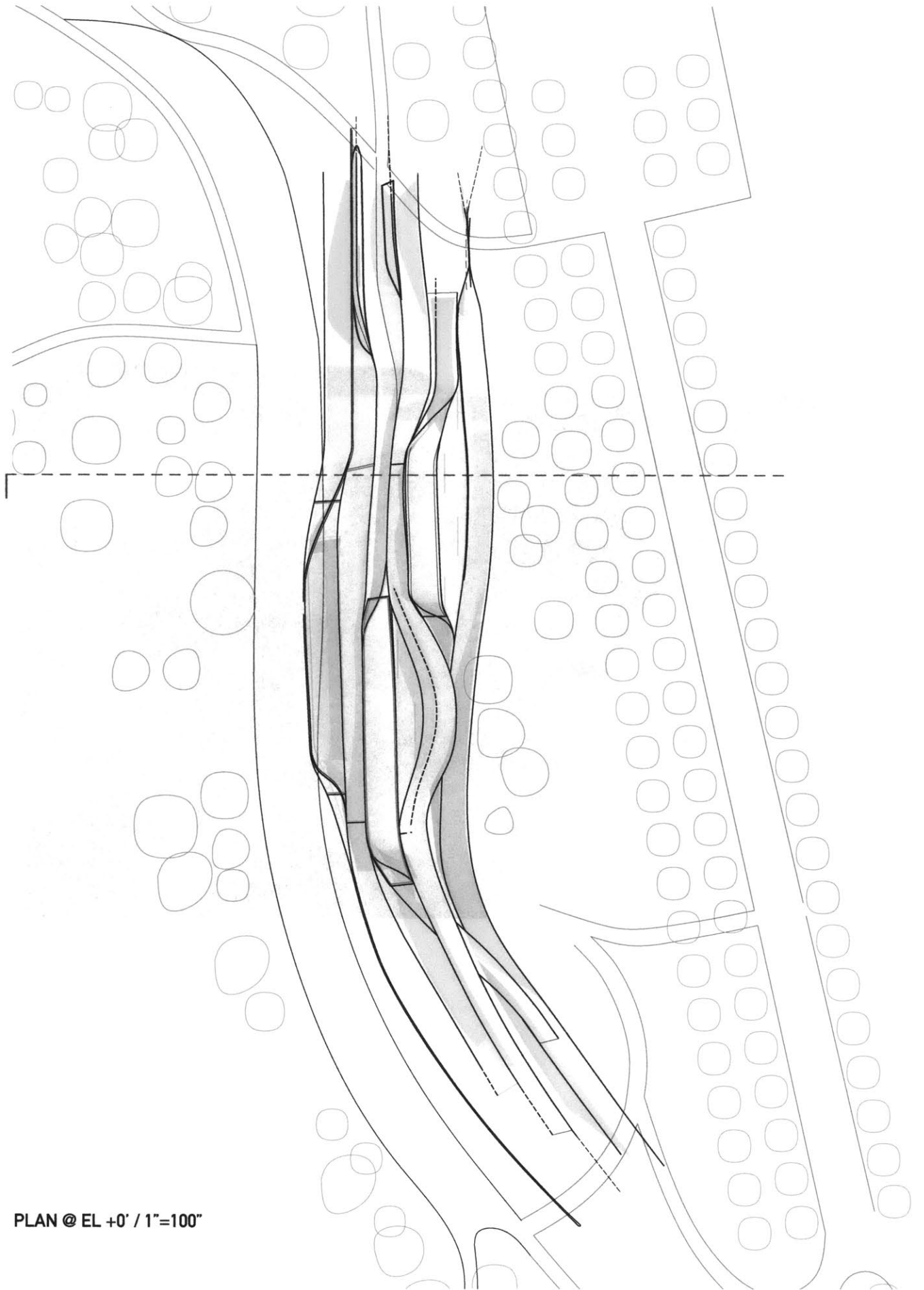
Fields of Absorption

These fields of absorption are applied to the project to generate openings for movement, view, and light. Programmatic volumes are organized along circulation paths and offer varying degrees of view for the public. The above diagram demonstrates movement of circulation through the site and the convergence and dispersion of circulation paths.

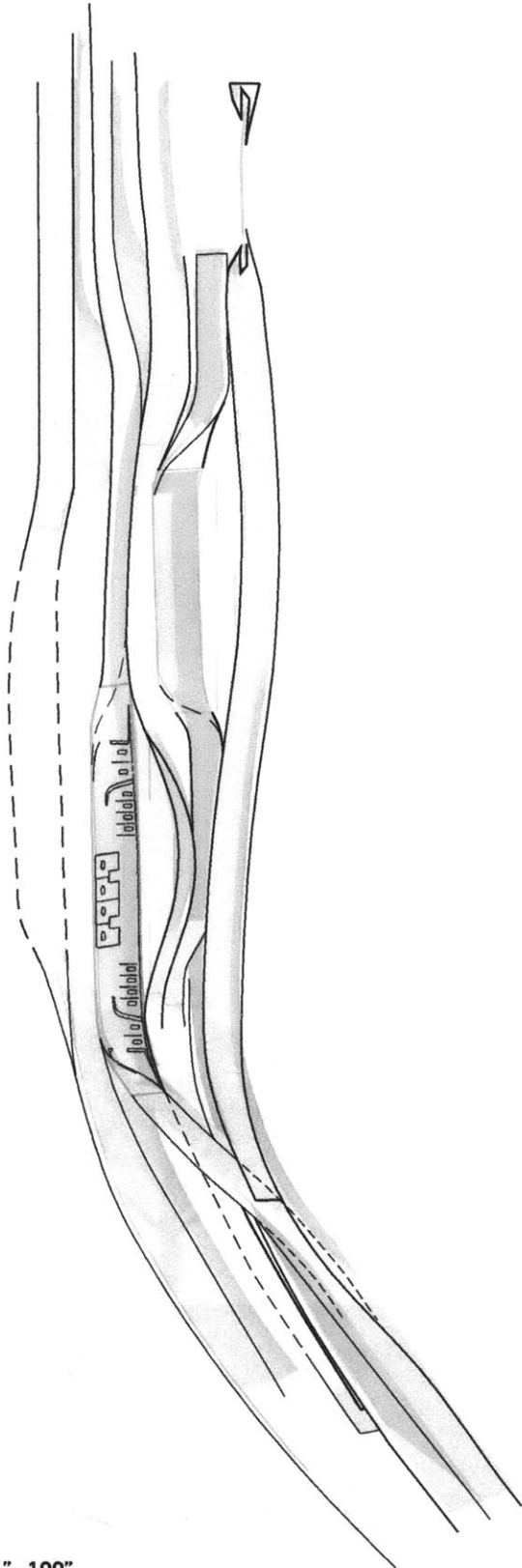






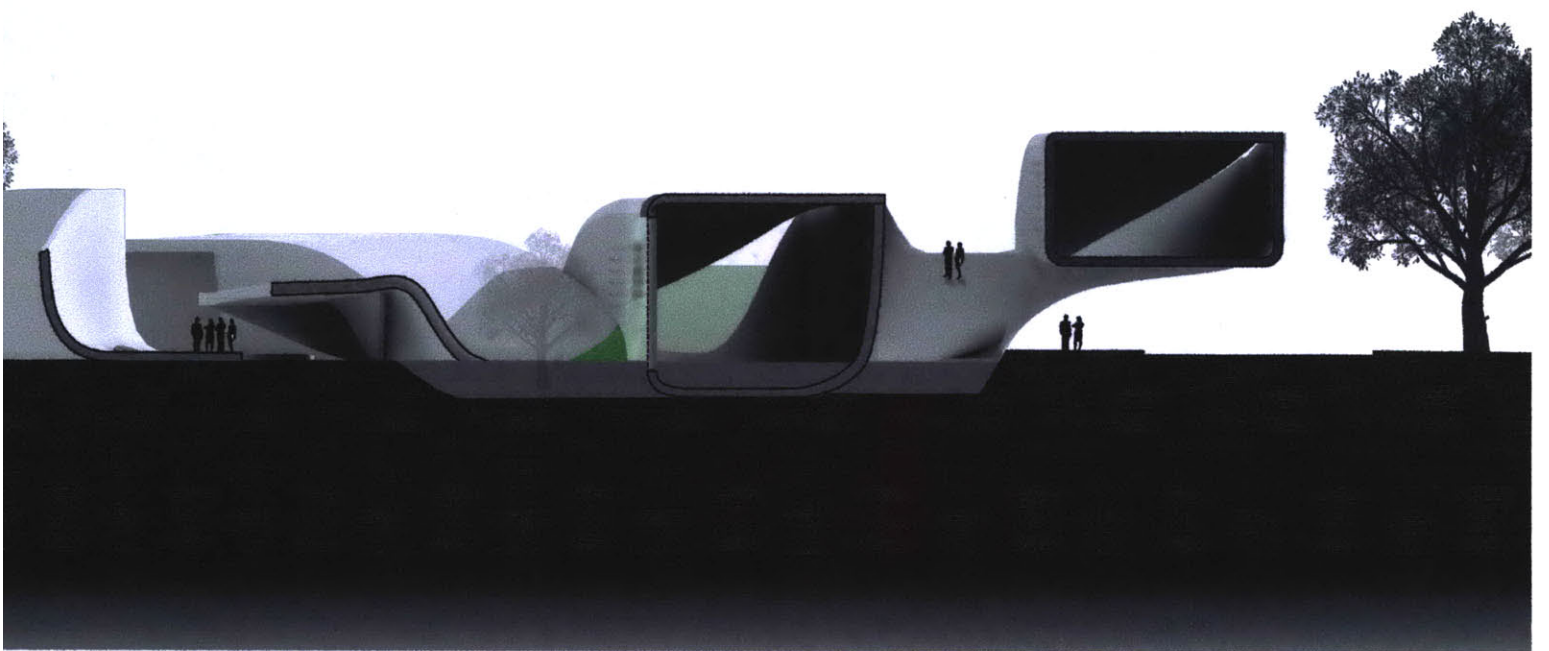


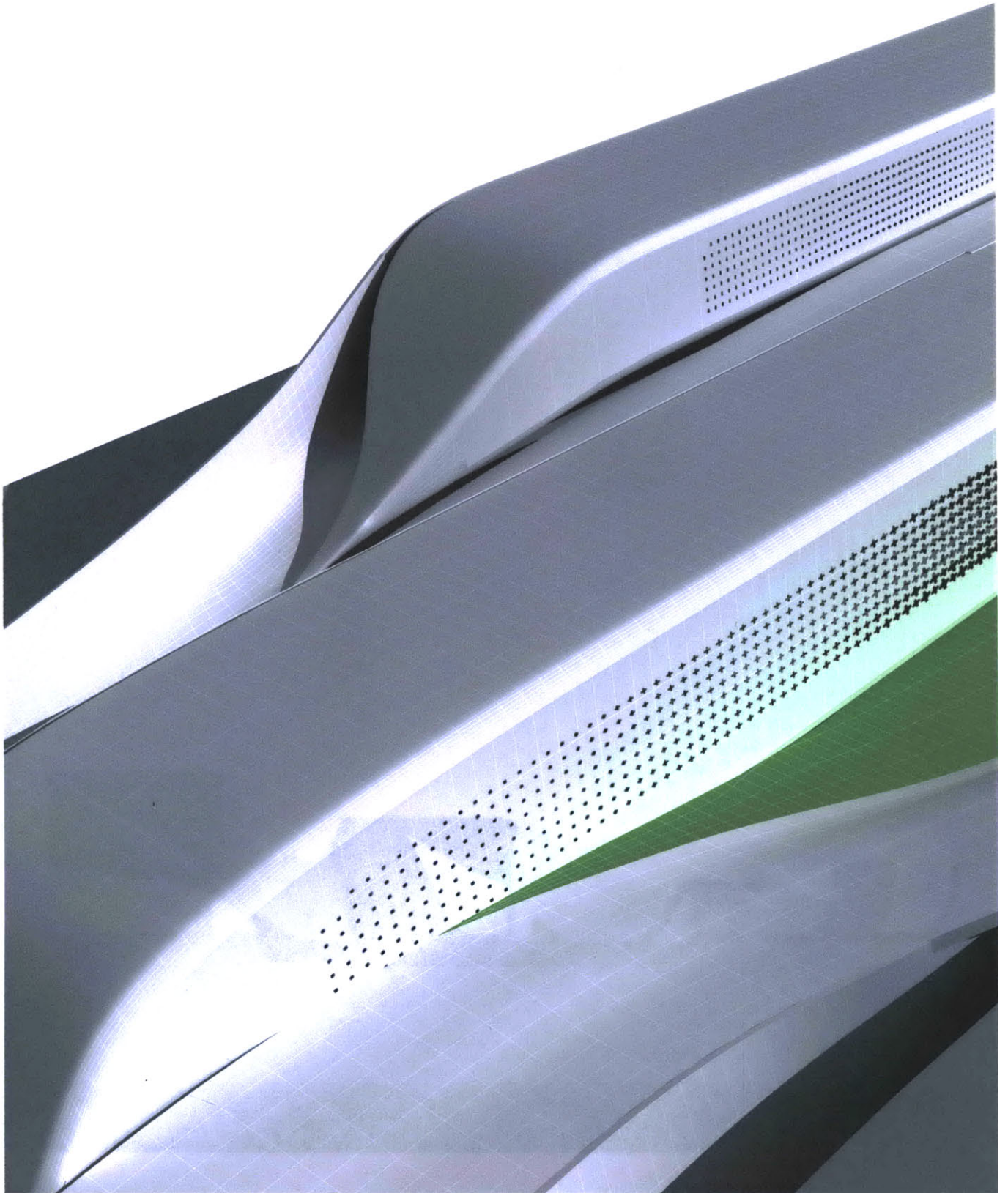
PLAN @ EL +0' / 1"=100'

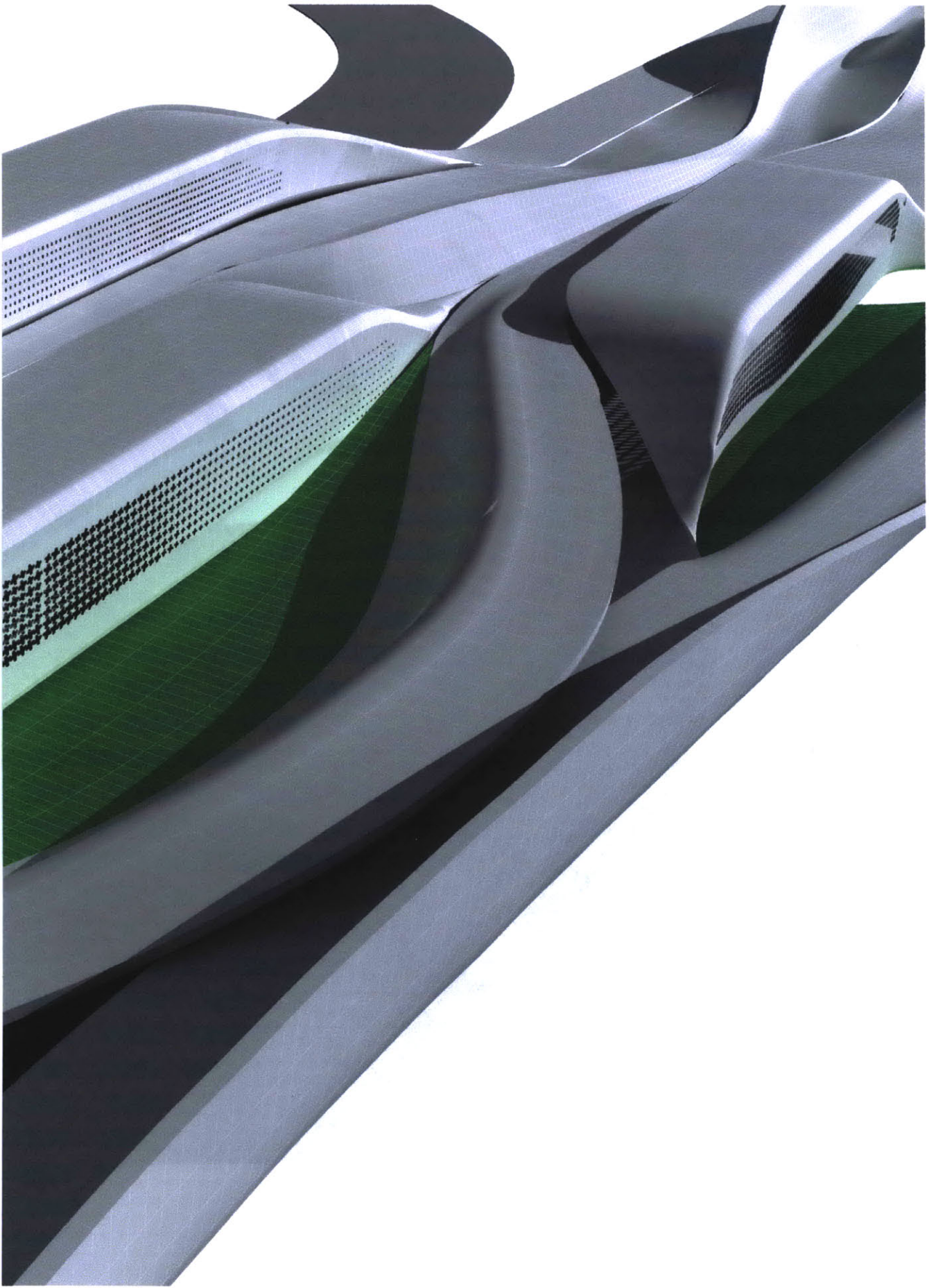


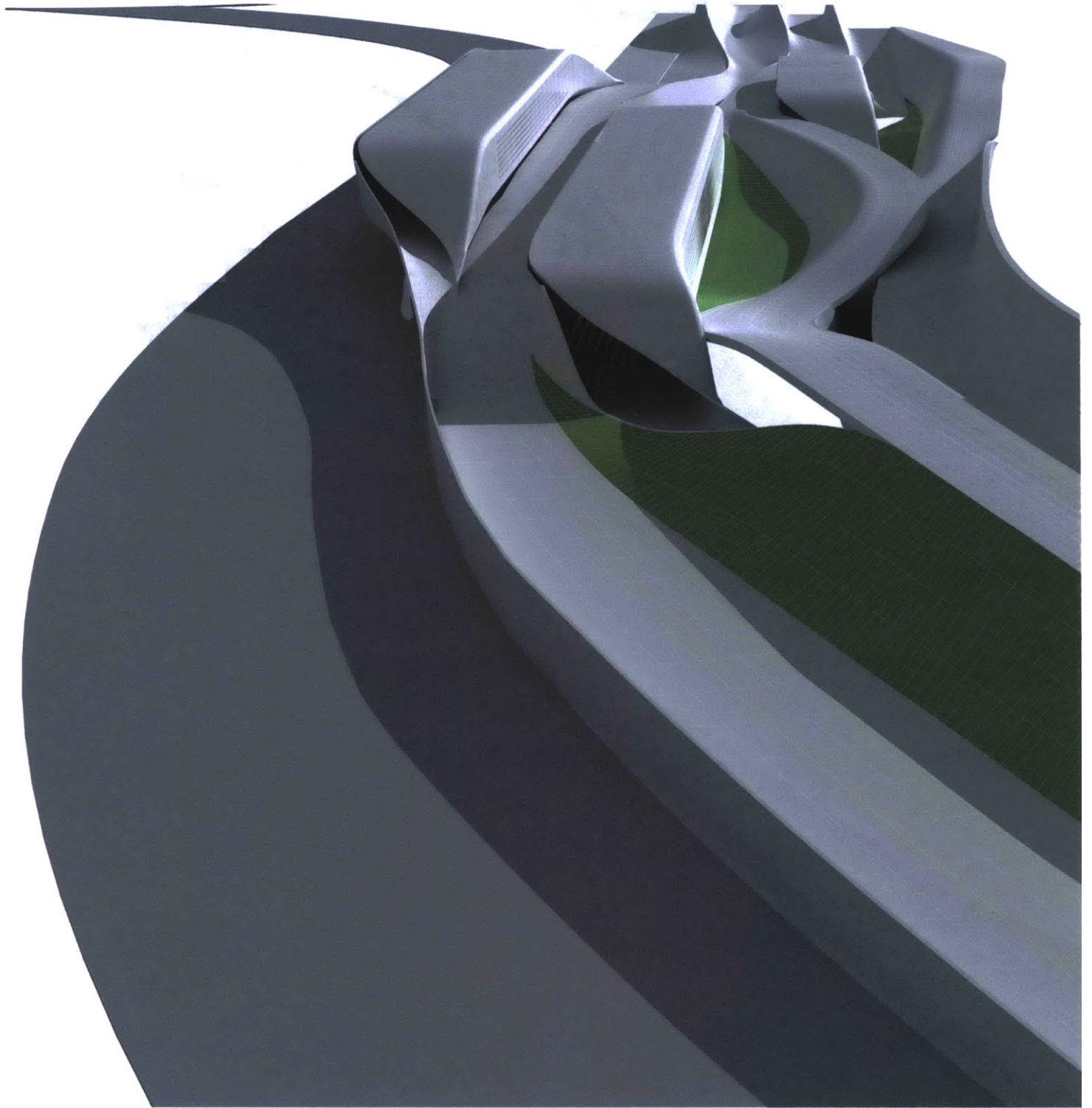
PLAN @ EL +15' / 1"=100"







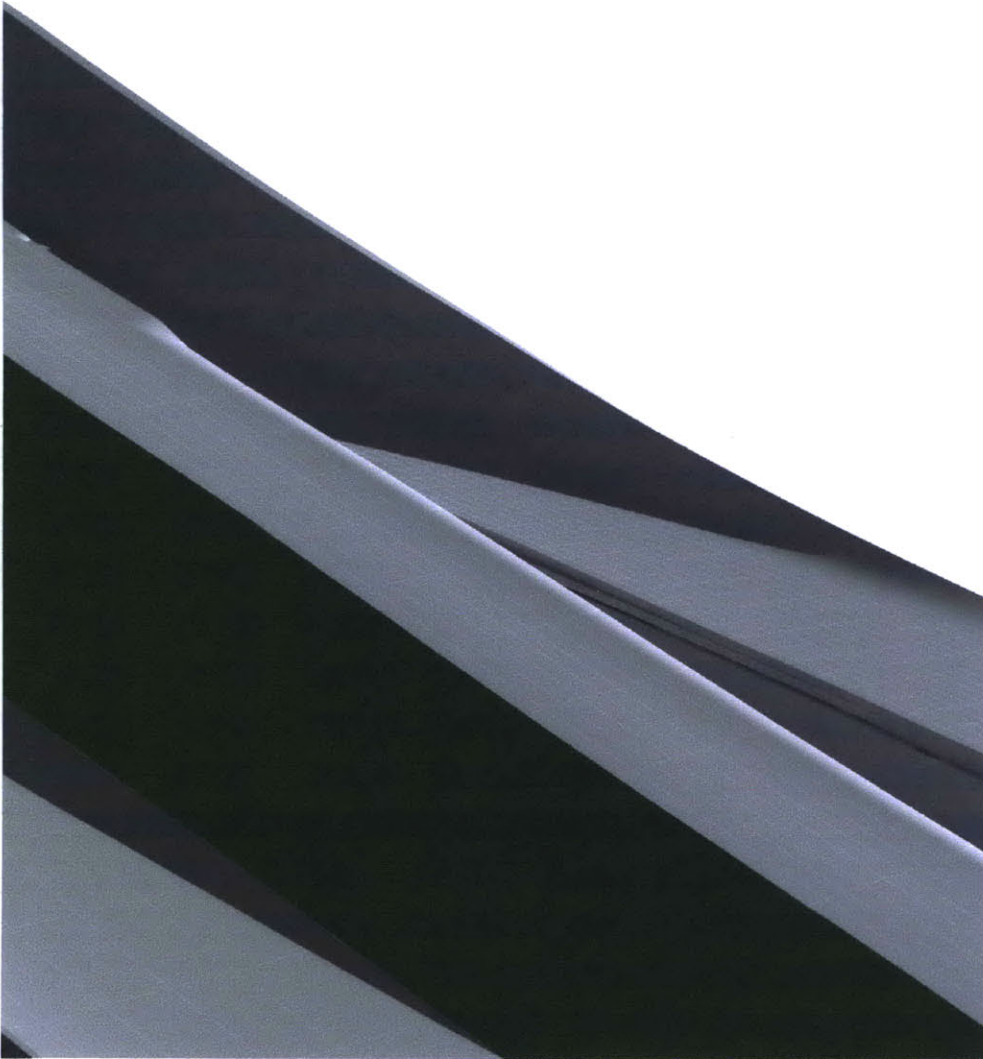




Conclusions

The project follows from earlier studies as circulation paths drawn out along the site. This last iteration is generated from a system of procedures performed locally and in combination with each other to achieve an architectural experience which reveals its process. Incisions along the site designate a striated sequence. Each striation undergoes varying degrees of folding and rotation. The result is optimized to accommodate program: volume and circulation.

The project represents the attempt to develop a system of transforming procedural techniques and employ them to generate an architectural experience to reveal that effect.



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