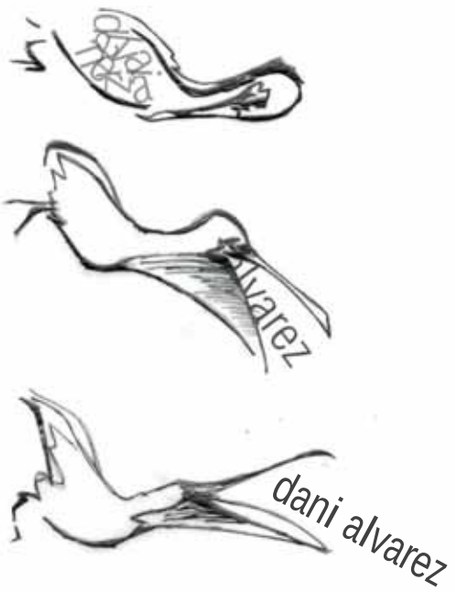

dani alvarez

Dani Alvarez
Bachelor of Architecture
University of Arizona
t: 505.710.0045
e: dmalvz@gmail.com
w: wix.com/danimalvarez/work

honors / awards

(3.6 cumulative GPA / 3.7 design studio GPA)
AIA Design Excellence Award ARC 452 (2011)
Capstone Award (2011)
Ronald R. Gourley Award for Design Excellence (2011)
AIA Design Excellence Award ARC 451 (2011)
Gordon Heck Architecture Scholarship (2008-2009)
College of Architecture Academic Excellence Award (2007-2008)
University of Arizona Scholarship of Excellence (2006-2010)

software

_fluent
Rhinoceros
AutoCad (2006-2011)
Adobe Illustrator / Photoshop / InDesign
_basic knowledge
Revit (2010)
Sketchup
Vray
3ds Max
Adobe Fireworks / Dreamweaver

other skills

woodshop / metal shop
MIG welding
pen / graphite drawing

language

English (mother tongue)
Arabic (basic knowledge of conversation and written comprehension)
Spanish (survival knowlege of colloquial)

travel experience

Palestine / Israel / UK / Puerto Rico / Canada / Mexico / United States

references

Chris Trumble
t: 520.247.2150
e: ctrumble@u.arizona.edu

Mark Frederickson
t: 520.621.3948
e: mpf@u.arizona.edu

Patrick Hwang
hwangpatrick@gmail.com

work experience

Art Camp_*teacher*
Lesson Plan / Execution
Taught middle school and high school students spray painting and stenciling techniques.
(Summer 2011)

Region Specific Bus Shelters_*volunteer*
Research / Schematic Design / Design Documents / Construction Documents / Shop Drawings / Fabrication
Worked with a team of fifteen fellow students on design and fabrication of four bus shelters in Tucson, Arizona.
(451 Academic Studio Fall 2010-Spring 2011)

Tejido Group & RIWAQ Design in Palestine_*volunteer*
Cultural Analysis / Site Analysis / Conceptual Design
Worked with a team of ten and RIWAQ, a Palestinian architectural group, on conceptual design strategies for the revitalization of Birzeit, Palestine.
(Summer 2010)

Canstruction_*volunteer*
Design / Construction
Designed a "Can of Worms" for Canstruction Charity Event at the Tucson Museum of Art. All cans were donated to the Tucson Community Food Bank after the event.
(Fall 2010)

Mural Artist_*painter*
Design / Execution
Hope Christian School hallway in Albuquerque, NM
(Summer 2010 / 2011)

WHPacific_*intern*
Design Documents / Construction Documents
Worked in AutoCad and Revit for several different projects
(Summer 2009)

work_(cont.)

Rebuilding Tucson Together_*labor*
Construction
Worked with a team of fellow students to refurbish a house struck by an arsonist in the Tucson area. Jobs included building a shade structure and benches, painting and tiling.
(Spring 2009)

Dekker / Perich / Sabatini Design_*intern*
Construction Documents
Worked with a team of six on Tse Ho Tso Middle School in Window Rock, Arizona.
(Summer 2008)

Soccer Camp_*coach*
Activity Planning / Execution
Helped organize and coach a week long day camp for Hope Christian Elementary School in Albuquerque.
(Summer 2007 / 08 / 09)

clubs / organizations

AIAS
Wildcat Print Association

activities

Children's Cancer Foundation_*contributing artist*
Donation
Completed an art pieces for auction to raise money for Children's Cancer research.
(Summer 2011)

NMX Sports Extreme Art Show 2_*contributing artist*
Donation
Completed an art piece on a recycled skateboard deck for auction to raise funds for a New Mexico youth organization
(Summer 2011)

WPA Live !_*artist*
Design / Production
Designed and cut linoleum blocks for the first annual "Spring Formal" at Tucson's Club Congress. Relief printed and screen printed designs on t-shirts for sale during the event.
(Spring 2011)

Tanzbodeli_*contributing artist*
Donation
Completed an art piece for auction to raise money for Breast Cancer awareness
(Spring 2011)

Persona Art Magazine_*artist*
Competitive Entry
Publication in the annual edition of the U of A's student run art magazine.
(Spring 2011)

AIAS Chapter Meeting_*speaker*
Guest
Gave presentation regarding recently completed Bus Shelter Prototype project.
(Spring 2011)

TDOT Meeting_*student representative*
Attendee
Represented the U of A College of Architecture Bus Shelter Group for TDOT's meeting regarding the new shelters

personal interests

drawing / painting / printmaking / soccer / running

1
region specific bus shelter prototype_*tucson, az*
(Fall 2010-Spring 2011)

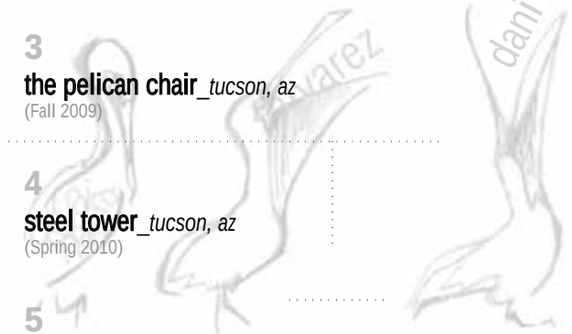
2
desert dwelling_*tucson, az*
(Fall 2008)

3
the pelican chair_*tucson, az*
(Fall 2009)

4
steel tower_*tucson, az*
(Spring 2010)

5
level (senior thesis)_*birzeit, palestine*
(Spring 2011)

6
extracurricular_*art*
(2011)



1

region specific bus shelter prototype_*tucson, az*

(Fall 2010-Spring 2011)

The shelter prototypes were designed as a modular structure with the ability to adapt to any given site within the city of Tucson, Arizona.

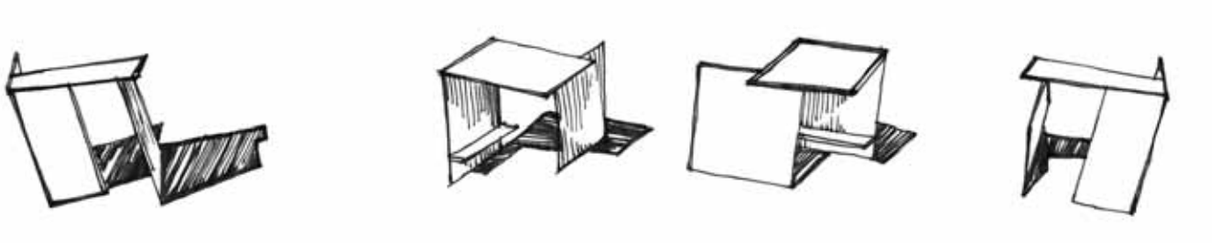
Each shelter is modified and shifted according to orientation for complete shade during the summer months and the need for direct visual contact between a bus driver and a bus rider.

The shelter is based on a 2' grid, is completely ADA accessible, and can be built in less than a week by a small group of students.

The project was completed in collaboration with:
the Drachman Institute, the Drachman Design Build Coalition, the Pima County Health Department, and the Tucson Department of Transportation

As an individual, I played a major role in the following collaborative exercises:

precedent studies / programming / schematic design / design development / construction documents / shop drawings / fabrication



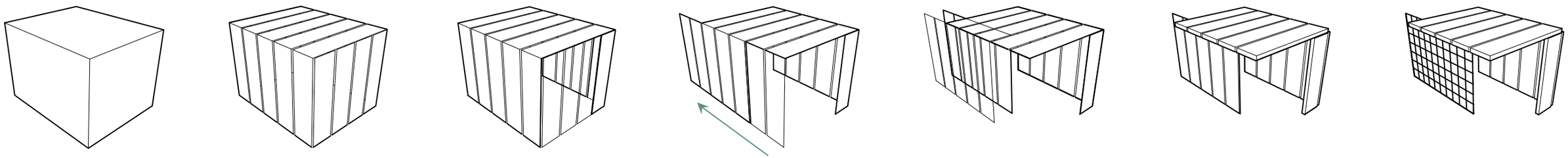
project development

precedent — existing shelters: solar, visibility, accessibility, and rain studies

program — video interviews, bus patron surveys, ergonomic study, visibility study, accessibility study

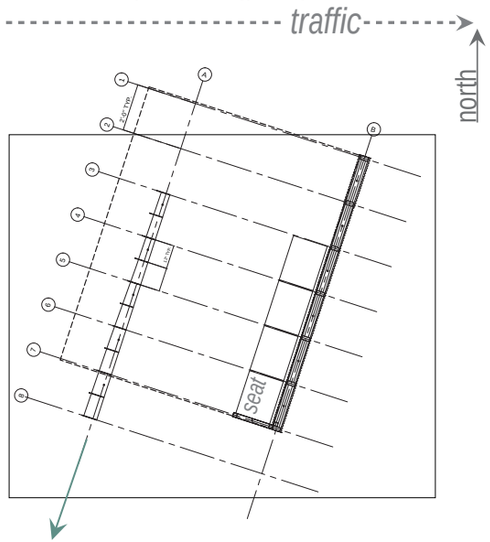
site analysis — high risk for obesity, high ridership, lack of existing shelter, four cardinal directions

design — construction documents — shop drawings — fabrication

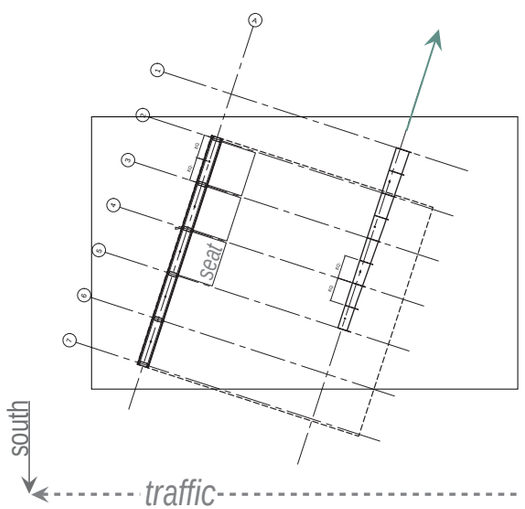


concept for shelter adaptation — *SHIFT*

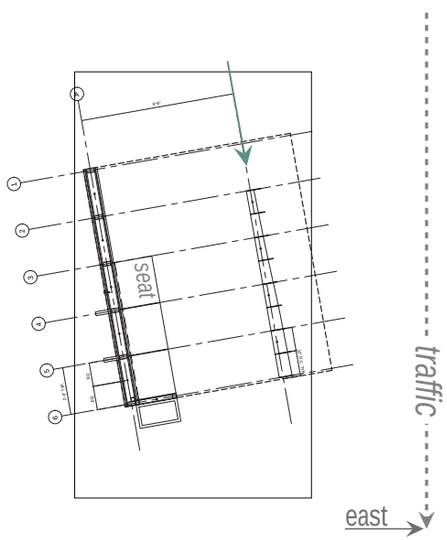
H-14435-(North Facing) corrugated steel



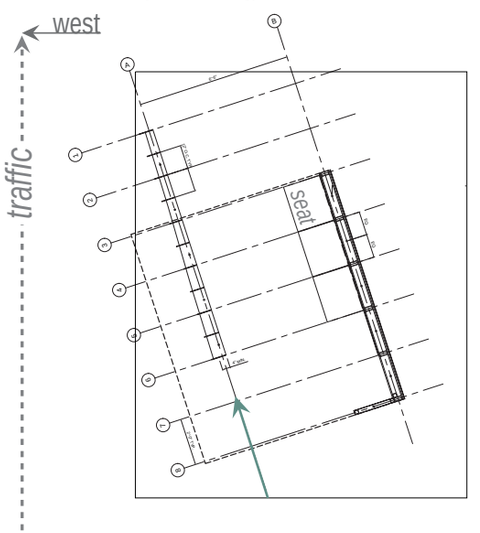
H-13357-(South Facing) FunderMax

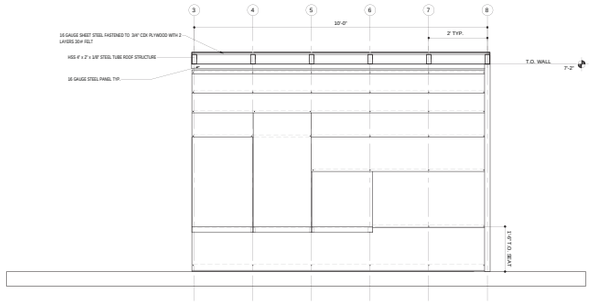


H-11305-(East Facing) fiber cement



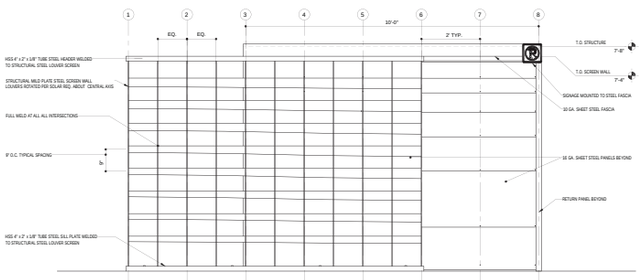
H-12897-(West Facing) sheet steel





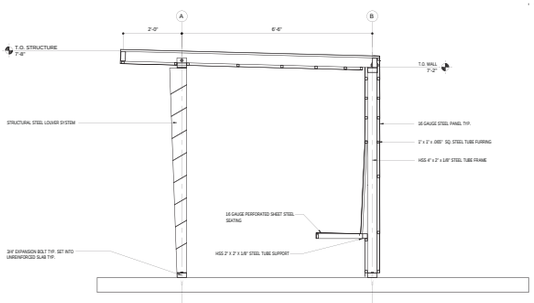
01 *WF LONGITUDINAL SECTION*

Scale: 3/4" = 1'-0"



02 *WF ELEVATION*

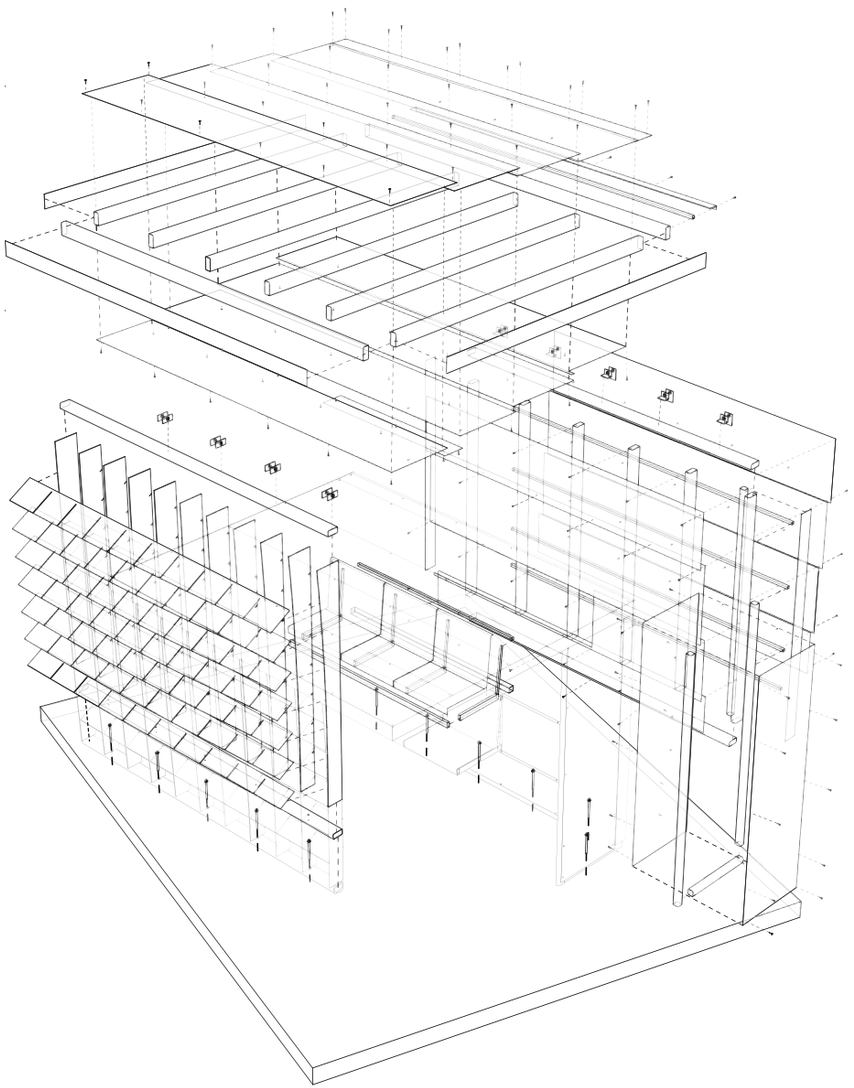
Scale: 3/4" = 1'-0"



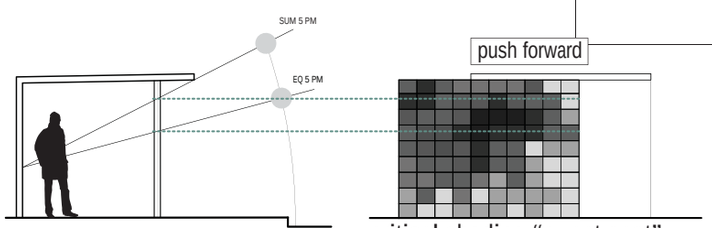
03 *WF TRANSVERSE SECTION*

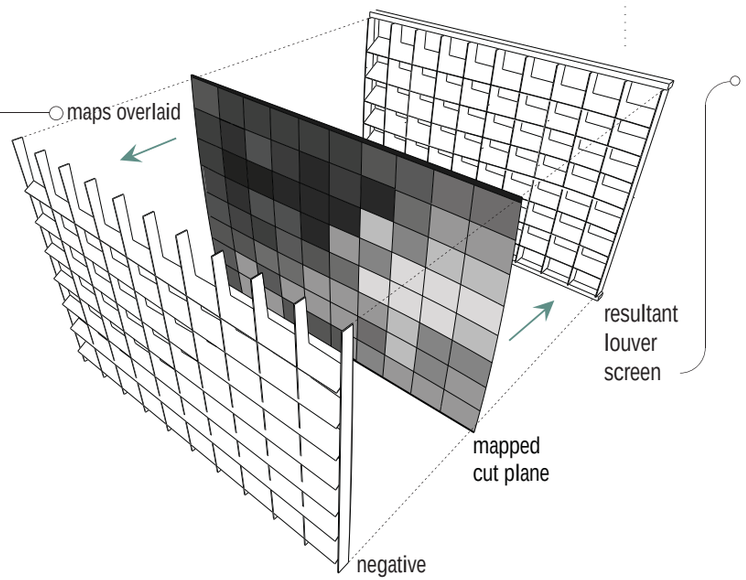
Scale: 3/4" = 1'-0"

in-shop fabrication



west-facing screen derivation





NF *corrugated steel*

WF *sheet steel*

SF *"Fundermax" panels*

EF *fiber cement*

NF

WF

SF

EF

NF

SF

EF

2

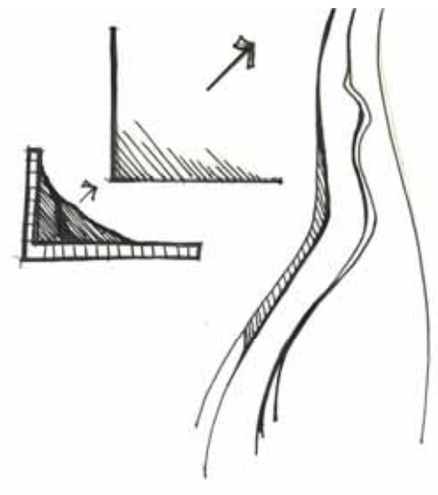
desert dwelling_*tucson, az*

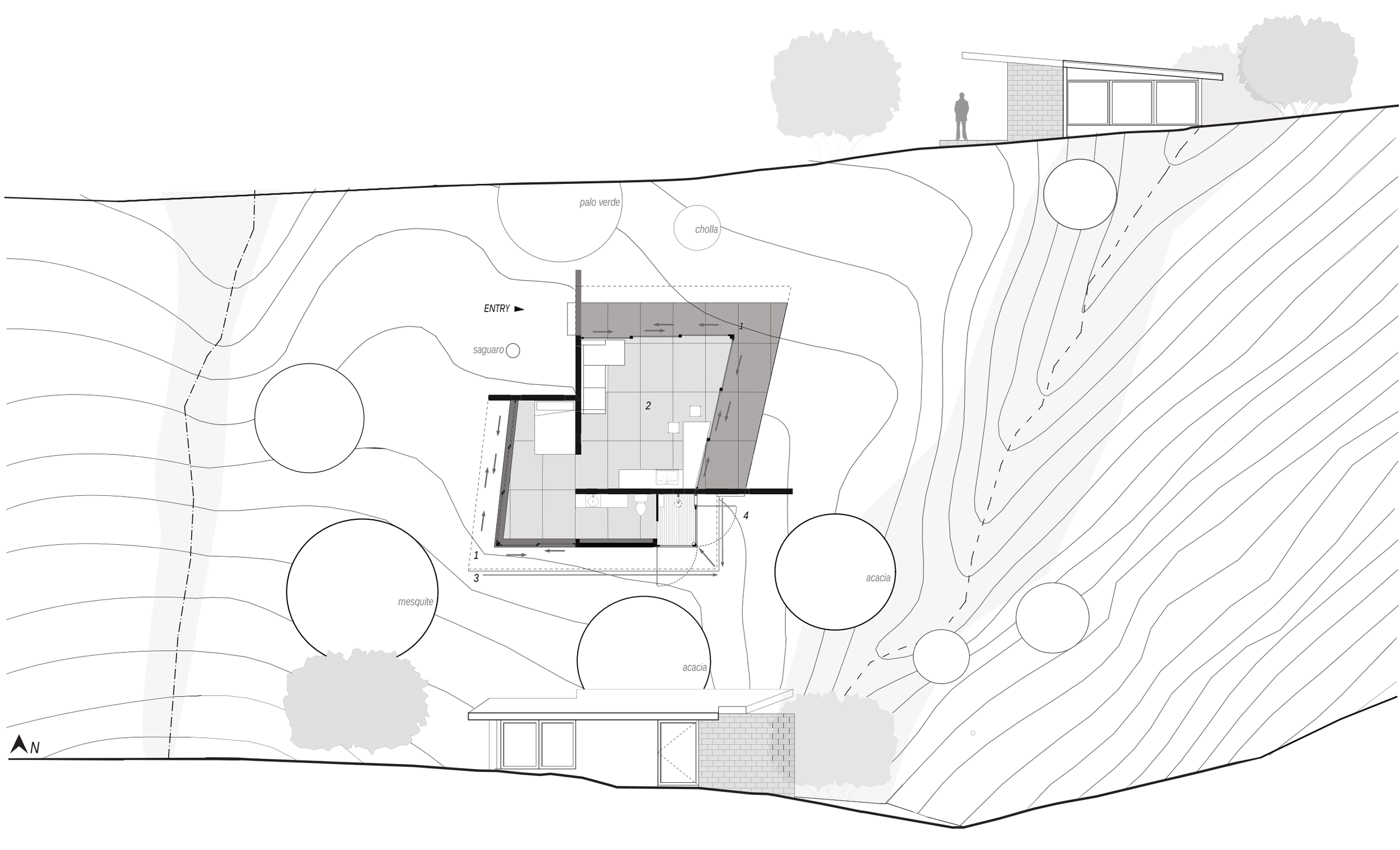
(Fall 2008)

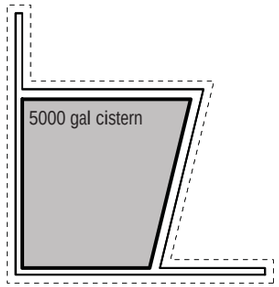
Close proximity to the wash and open air were the driving forces of this design.

The dwelling opens up at its corners to not only reveal views of the wash, the Tucson Mountains and the Sonoran Desert landscape, but also to allow optimal cross ventilation.

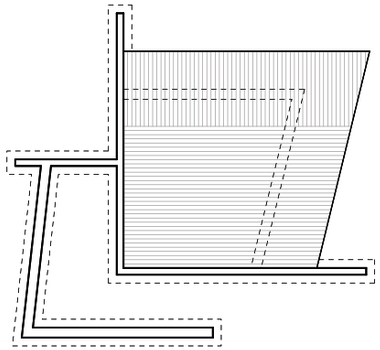
The cistern, which acts as a foundation structure for the dwelling, collects enough water in a year to sustain its vacationing guests.



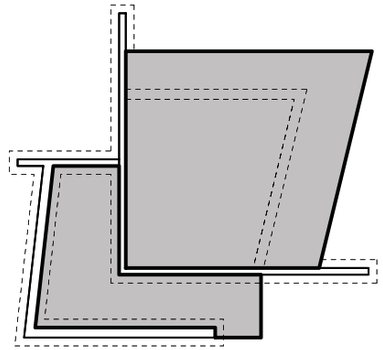

palo verde
cholla
ENTRY
saguaro
1
2
4
1
3
mesquite
acacia
acacia
N



spread footing foundation
for cmu and cistern walls



3” metal decking fastened to
cistern walls for slab foundation



5” slab poured on grade
and metal decking

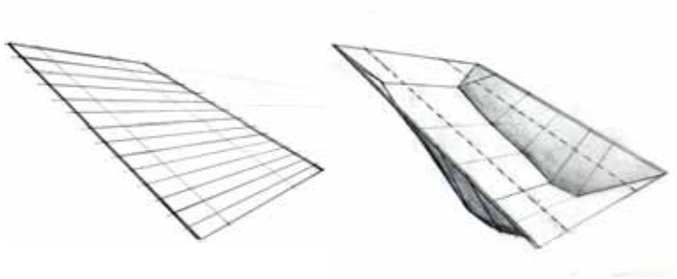
3

the pelican chair_*tucson, az*

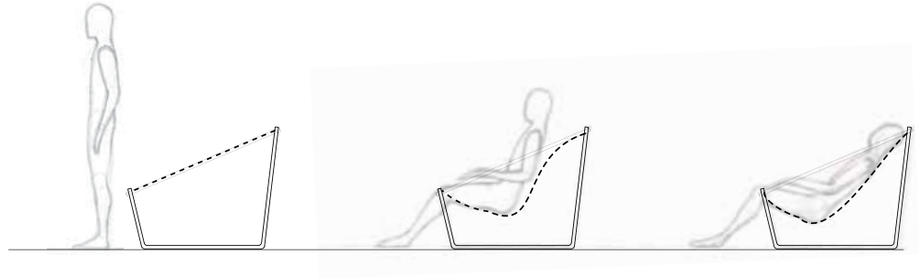
(Fall 2009)

A study of dramatic changes in form that occur in a pelican's bill became the basis for a design to create a simple, flexible chair. The chair, when unoccupied, appears as a plane, inclined and set against a wall or screen. Experience and realization of the full flex of the chair is only apparent when the act of sitting occurs.

The "pelican chair" consists of a simple bent steel tube frame and a flexible elastic backing, with lines of compressive support to allow for the perfect stretch. The chair, mounted to the steel screen on the south balcony of the college, now serves as a functioning piece of furniture for fellow students' everyday use.



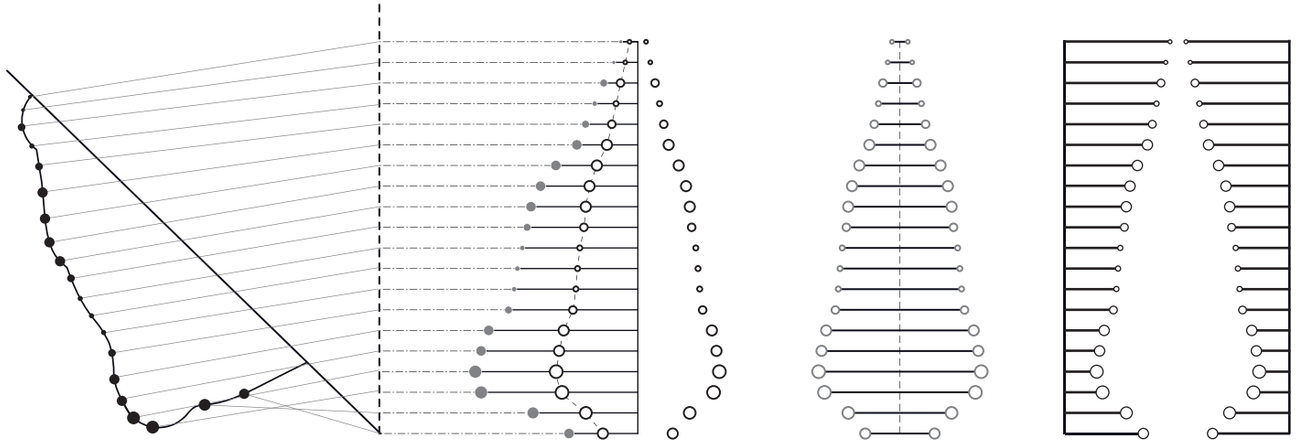
concept development_*empty to full*



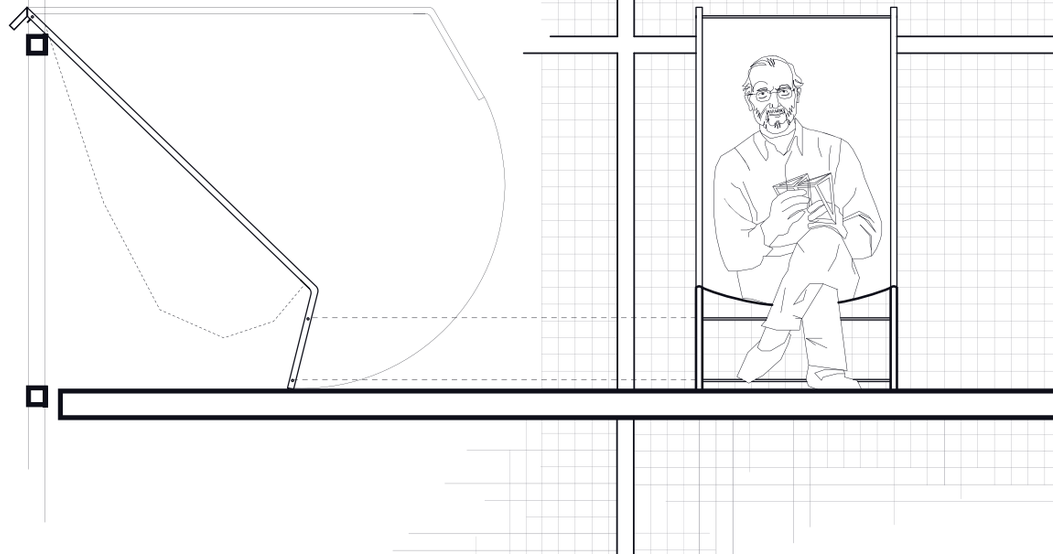
material study_*elastic strips*

prototype 1_*unstable frame / not enough tensile support for elastic*

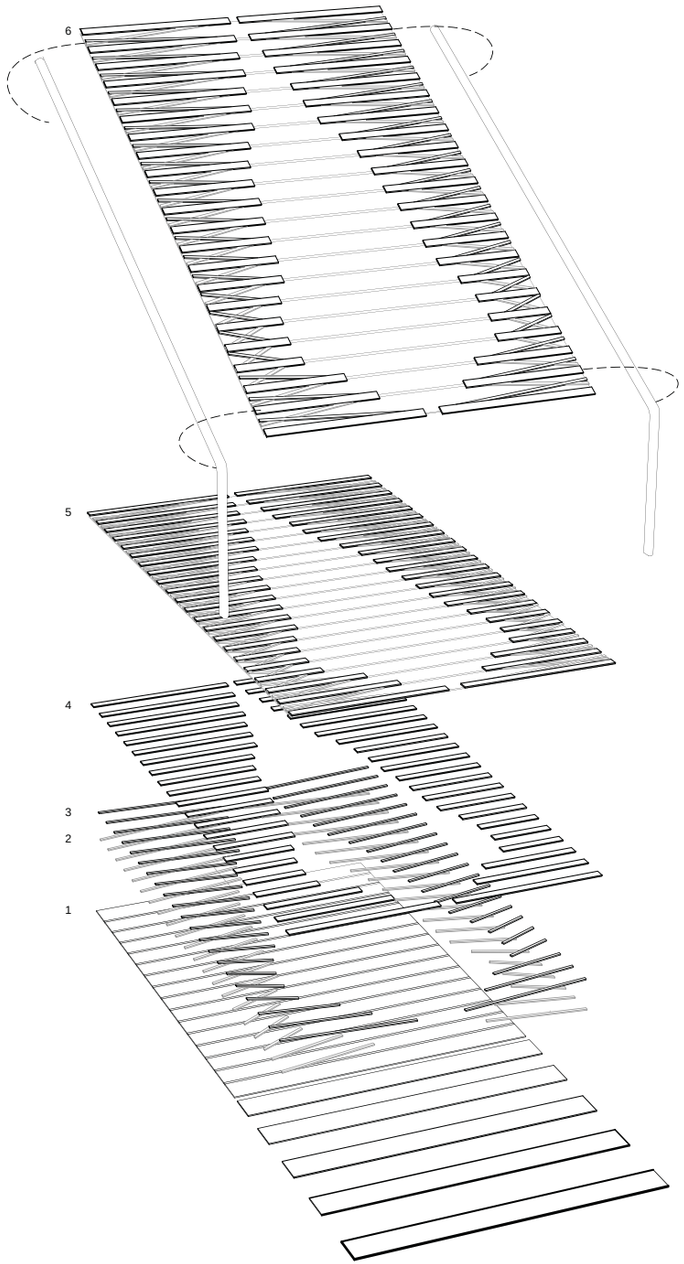
final prototype_*process*

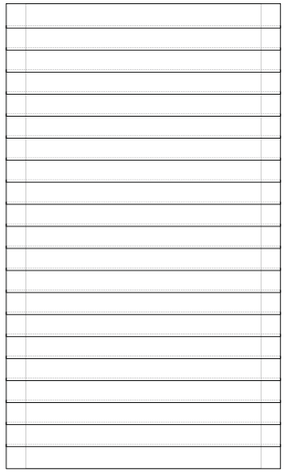


pattern derivation_*section of critical points translated to plan*

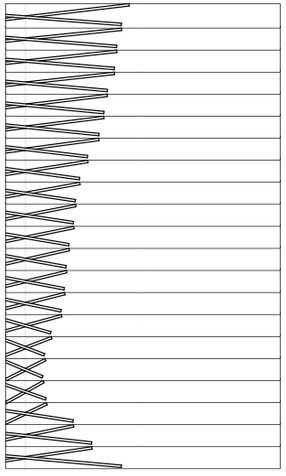


final prototype_

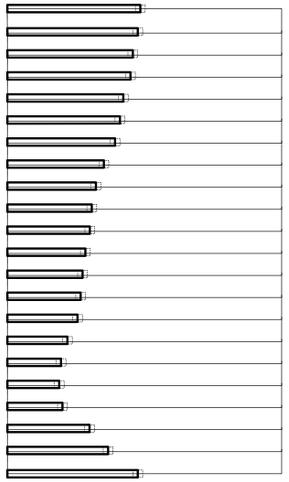




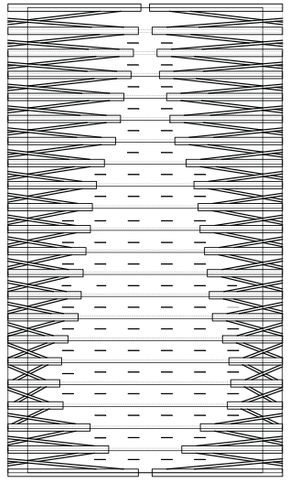
1 1/2" elastic straps



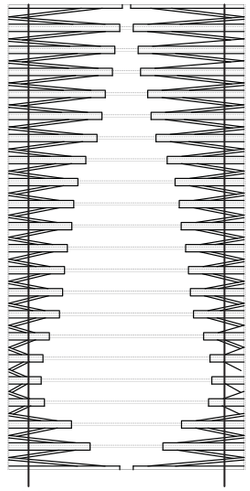
1/4" tension straps



1/2" compression straps



slits in elastic



2" fold: slip connection to steel frame

4

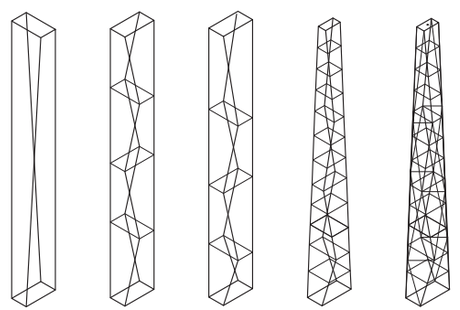
steel tower_*tucson, az*

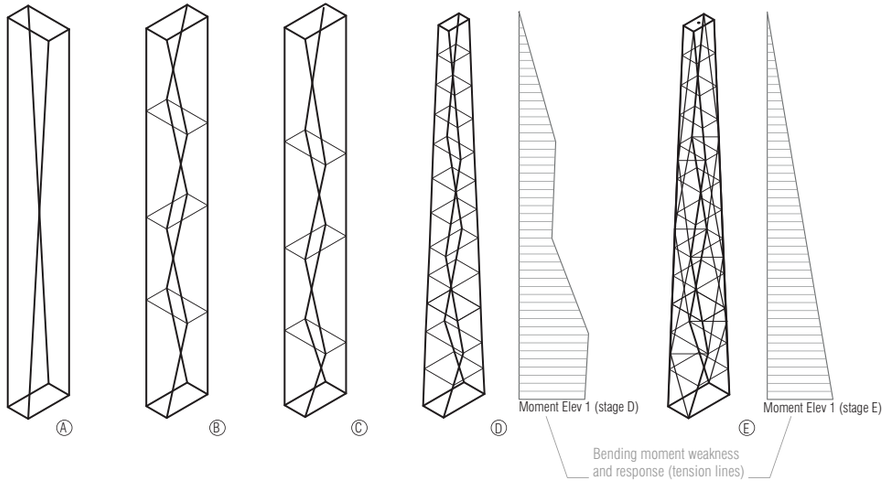
(Spring 2010)

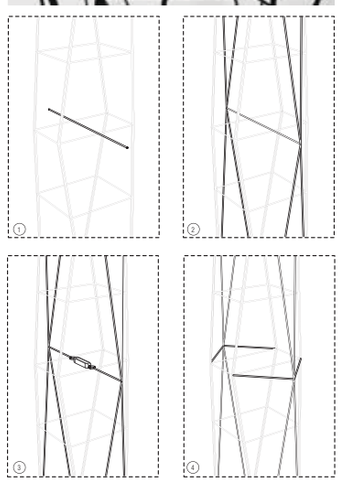
An 8 foot tall tower designed to resist lateral forces.

The concept of alternating, tapering rectangular floor plates was tested through drawing and two full scale iterations rendered by 1/8” rod. Each built product was weighted and placed on a shaker table in order to test structural integrity and to identify the effects of extreme lateral forces upon a built form.

The project was designed and built in collaboration with 4 fellow students.

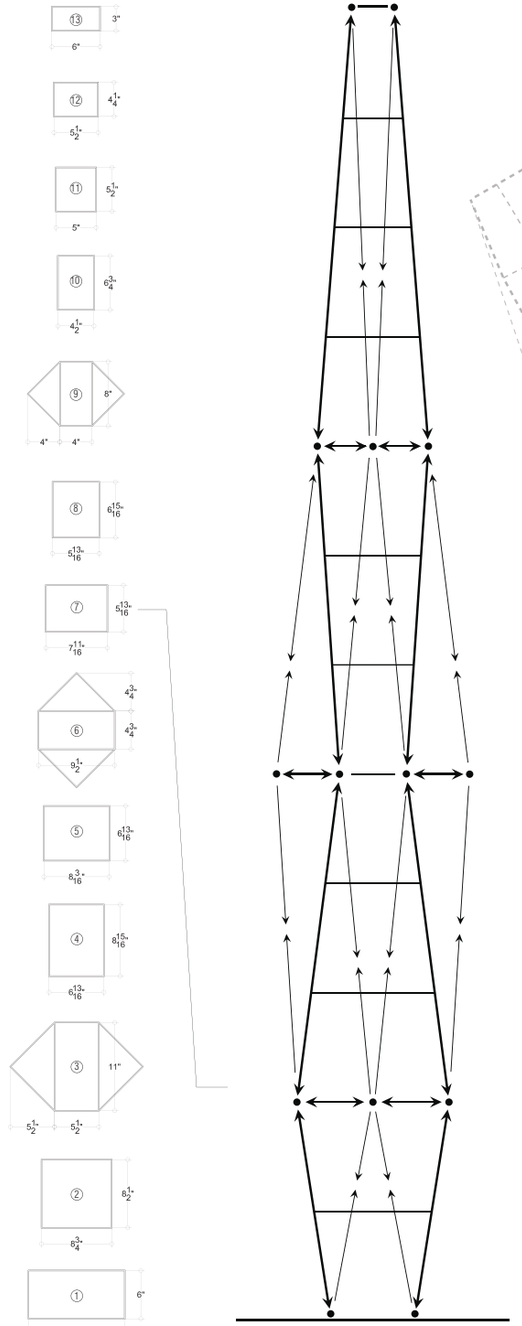






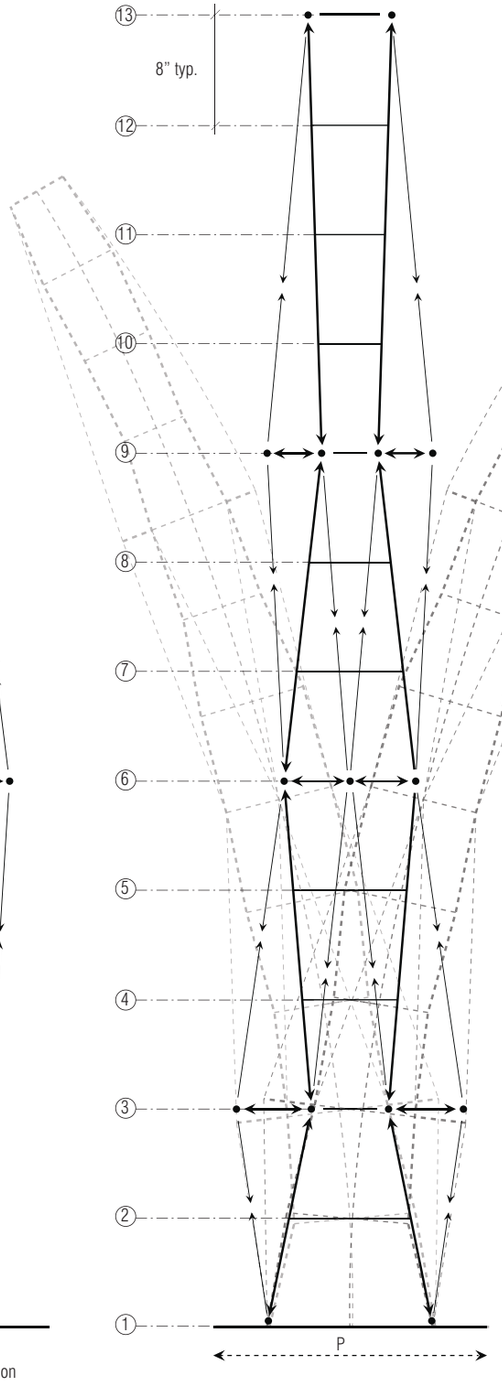
1. Rod spot welded as point of reference for placement of tension
2. Tension rods welded in place for pre-tensioning
3. Turnbuckle replaces orginal rod. As turnbuckle jack expands outward, it forces rods into tension
4. Triangular compression pieces are added to hold tension rods in place and turnbuckle jack is removed

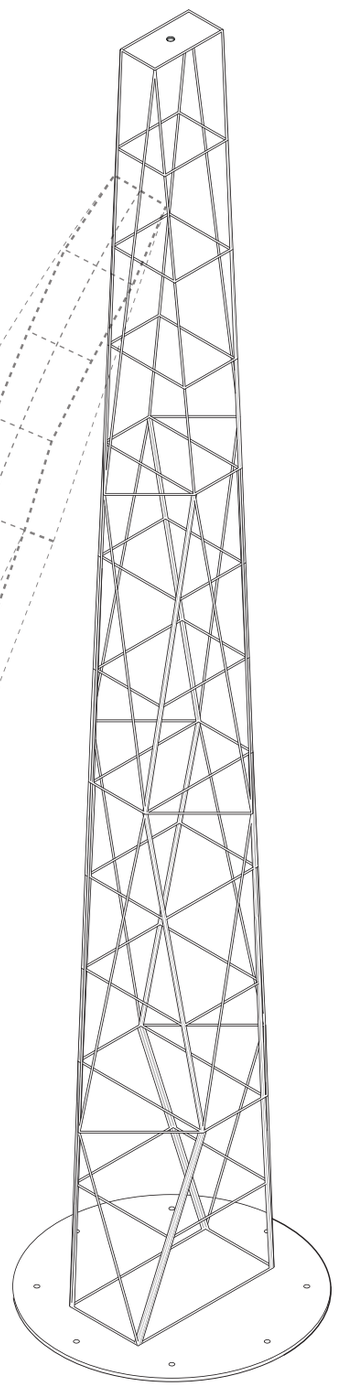
Leveled jigs were
used to maintain absolute verticality



Plan sections at floor plates

Elevation Force Diagrams/Deformation





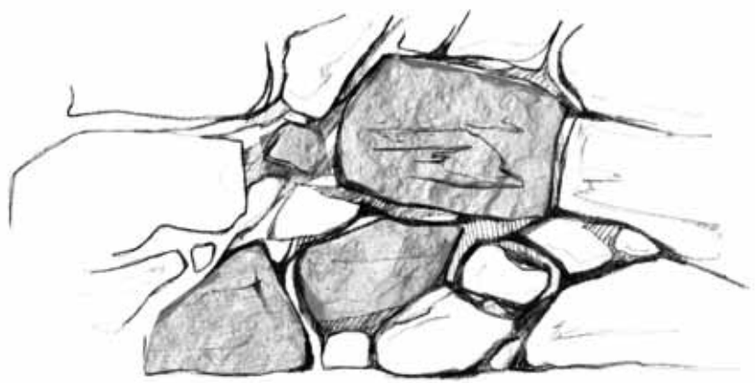
5

level (senior thesis)_*birzeit, palestine*

(Spring 2011)

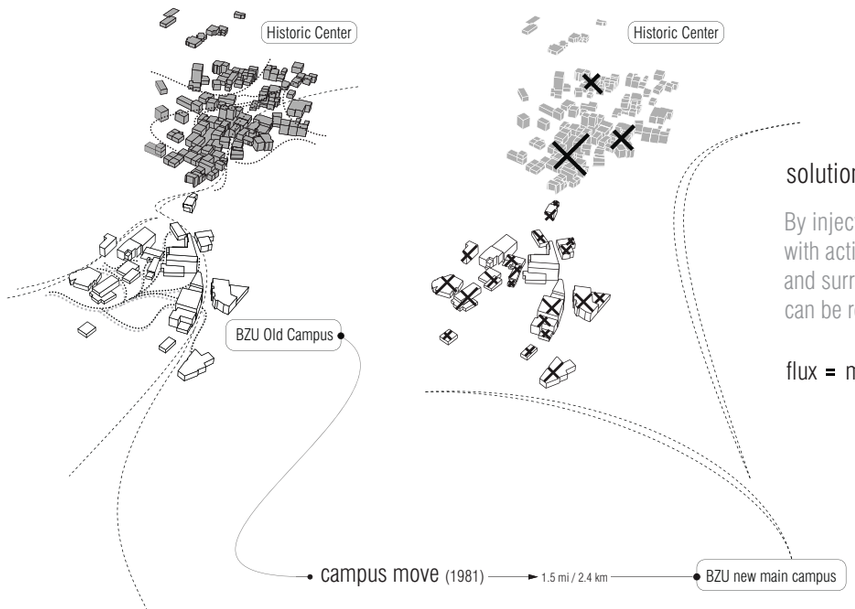
Birzeit, located just north of Jerusalem, is a small city known for its “flagship of Palestinian institutions,” Birzeit University. Much of its economy is tied to the student population of the University, surrounding villages depend on Birzeit’s economy, and students commute to Birzeit from several different cities to attend the University.
After substantial growth, the University Campus moved about a mile and half away from its original site.
The campus move from the city has rendered the city motionless. The current location of the University allows student traffic to bypass the Old Campus site and the Historic Center.
Without intervention, the Historic Center and surrounding urban fabric will continue to decay as a result of inactivity, however, by injecting the Old Campus Site with activity, the Historic Center and surrounding urban fabric can be resuscitated.

This project seeks to accomplish this injection of activity in two ways. The first is implementation of a new pedestrian and bike path from BZU Main Campus through the Old Campus Site to the Historic Center. The path will stimulate activity as well as encouraging the use of bicycles and walking as modes of transportation rather than motor vehicles.
The second is the relocation and addition of architecture, arts and theater programs from the BZU Main Campus back into the currently unused Old Campus Site in order to stimulate activity in and surrounding the site.



problem : endangered city

The University campus move from the city center has rendered the city motionless. The current location of the University allows student traffic to bypass the Old Campus site and the Historic Center.
Without intervention, the Historic Center and surrounding urban fabric will continue to decay as a result of inactivity.



solution : flux

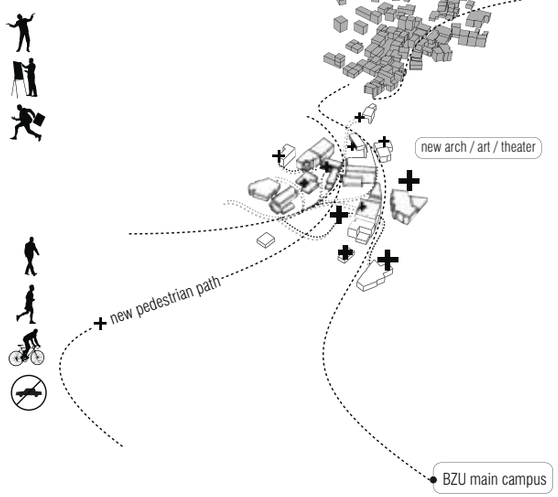
By injecting the Old Campus site with activity, the Historic Center and surrounding urban fabric can be resuscitated.

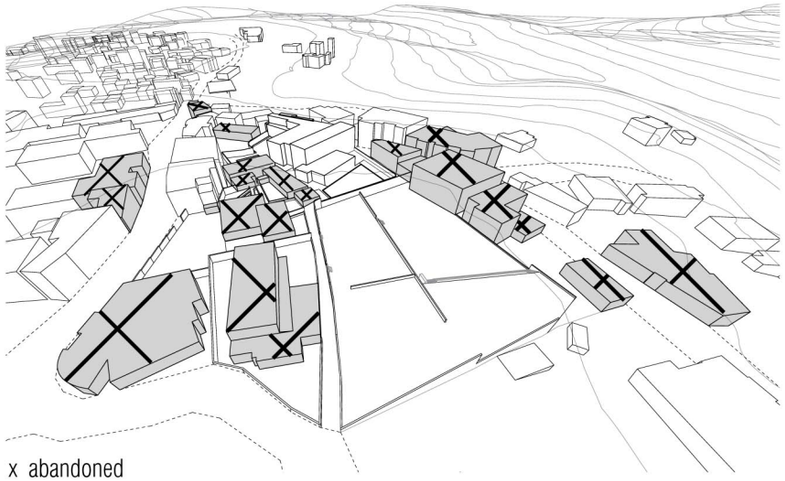
flux = motion = students

project proposal :

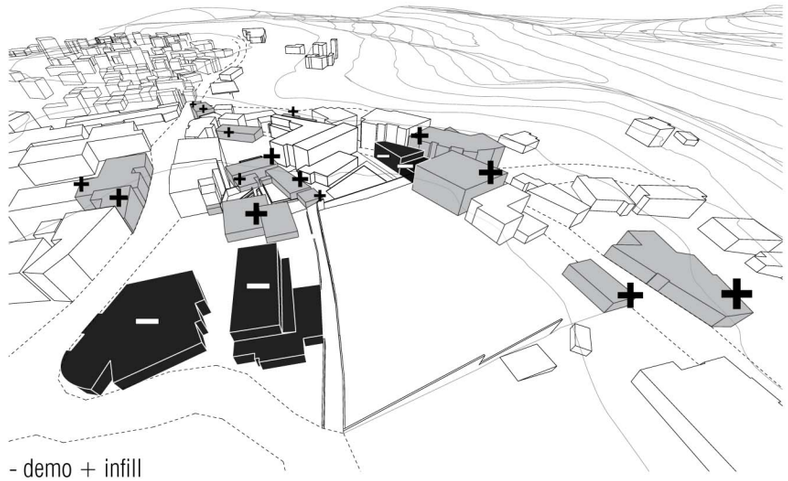
1 The re-location and addition of architecture, arts, and theater programs from the BZU Main Campus back into the currently unused Old Campus Site.
The new programs will stimulate activity in and surrounding the site, as well as bringing life back into Birzeit's Historic Center.

2 Implementation of a new pedestrian and bike path from the BZU Main Campus through Old Campus Site to the Historic Center. The path will stimulate activity as well as encouraging the use of bicycles and walking as modes of transporation rather than motor vehicles.

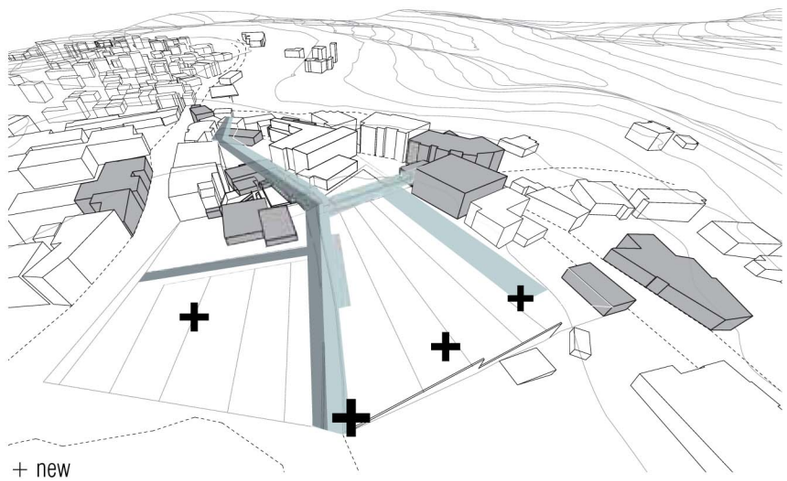




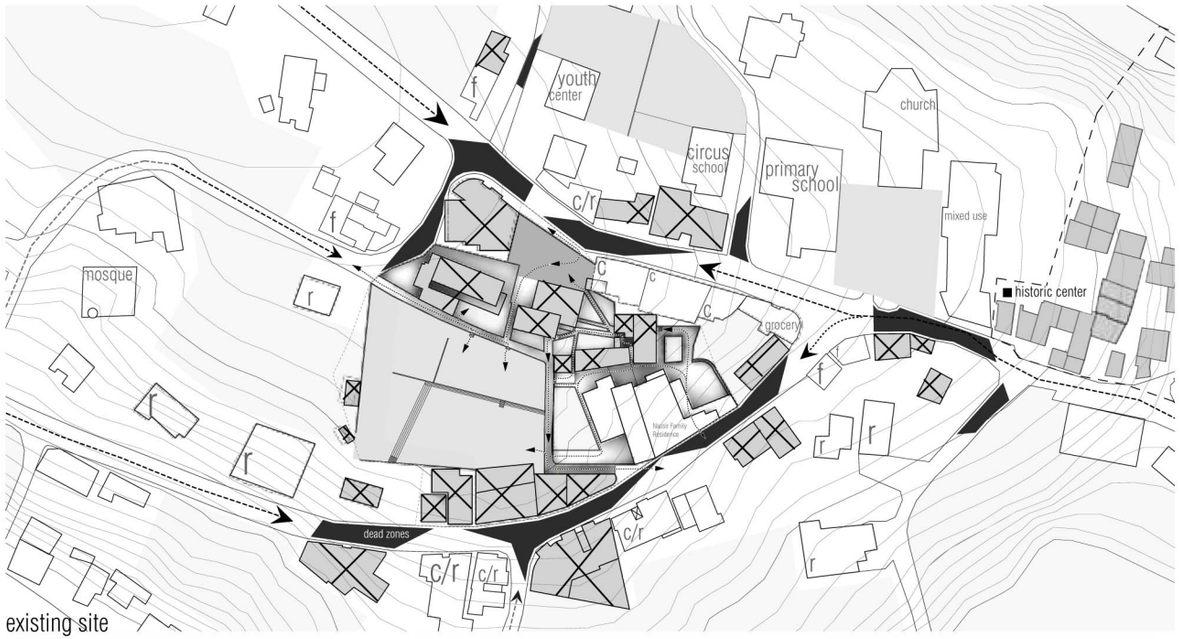
x abandoned



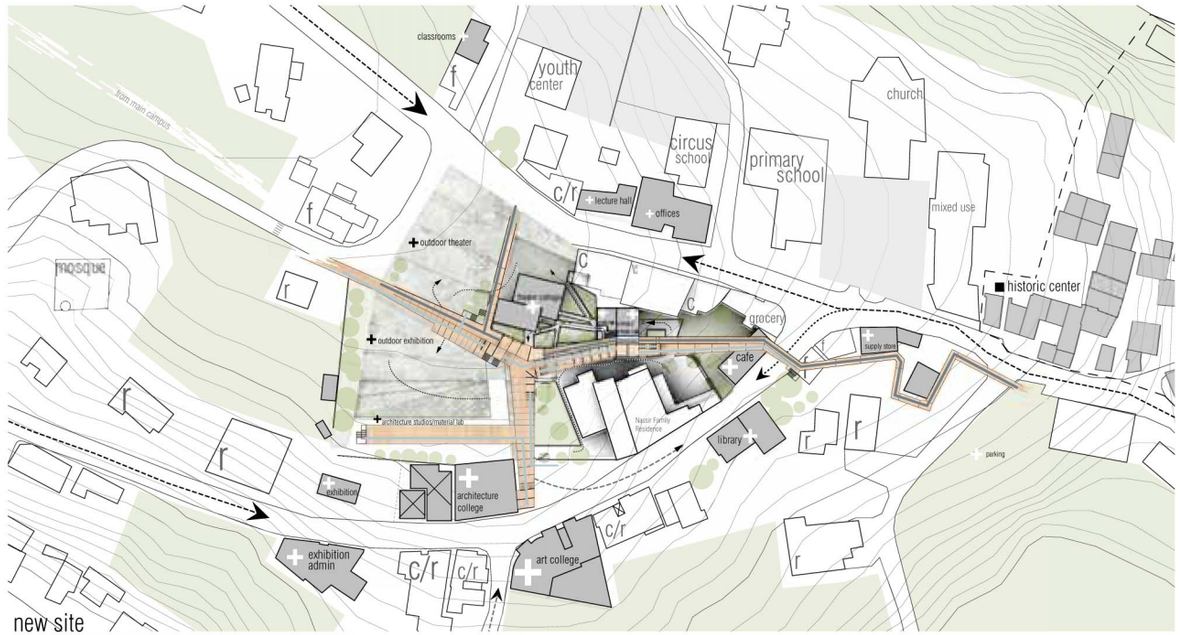
- demo + infill



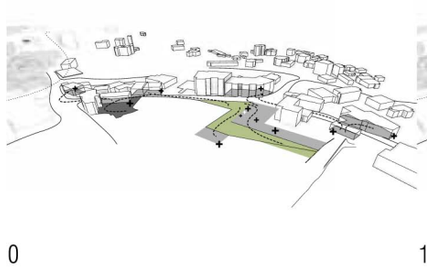
+ new



existing site



new site



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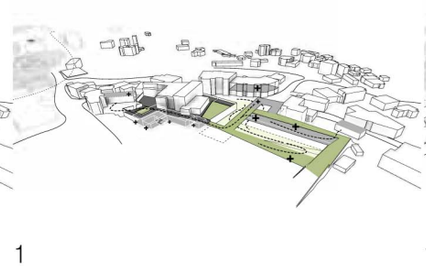
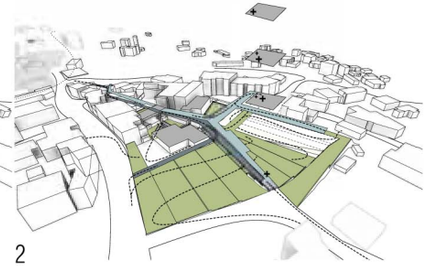


1

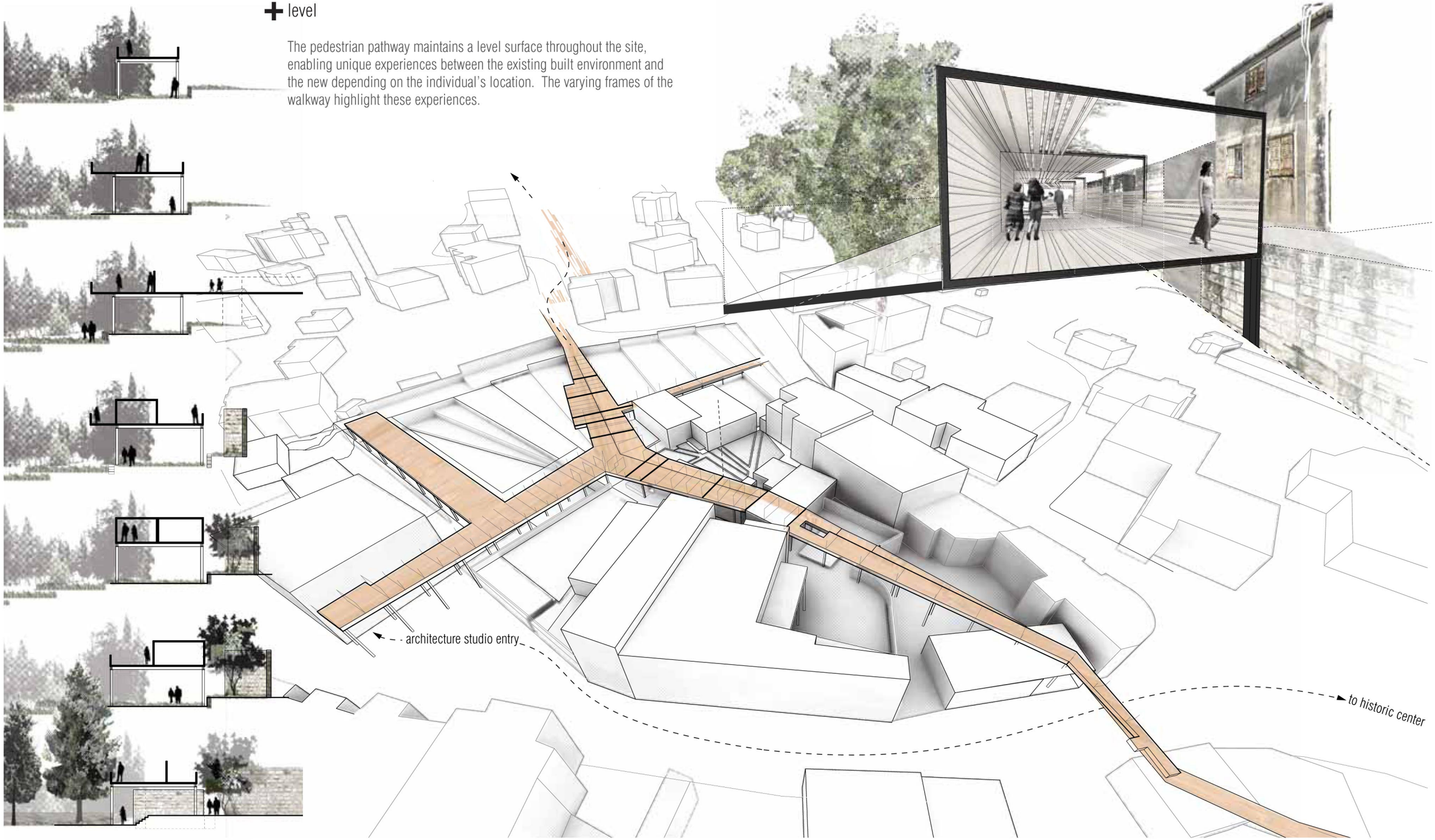
1 1/2



2

+ level

The pedestrian pathway maintains a level surface throughout the site, enabling unique experiences between the existing built environment and the new depending on the individual's location. The varying frames of the walkway highlight these experiences.



frames are sized at varying heights according to changing ergonomic needs

guardrail frames (42" typical) act as a platform for the variation of program along the walkway

boxes can fulfill various program needs (vegetation /shade structures /seating /lighting)

slotted metal frames for drainage

sloped insulation and substrate (where necessary) allows for water run-off

concrete decking and pour

gutter w/ run-off chain

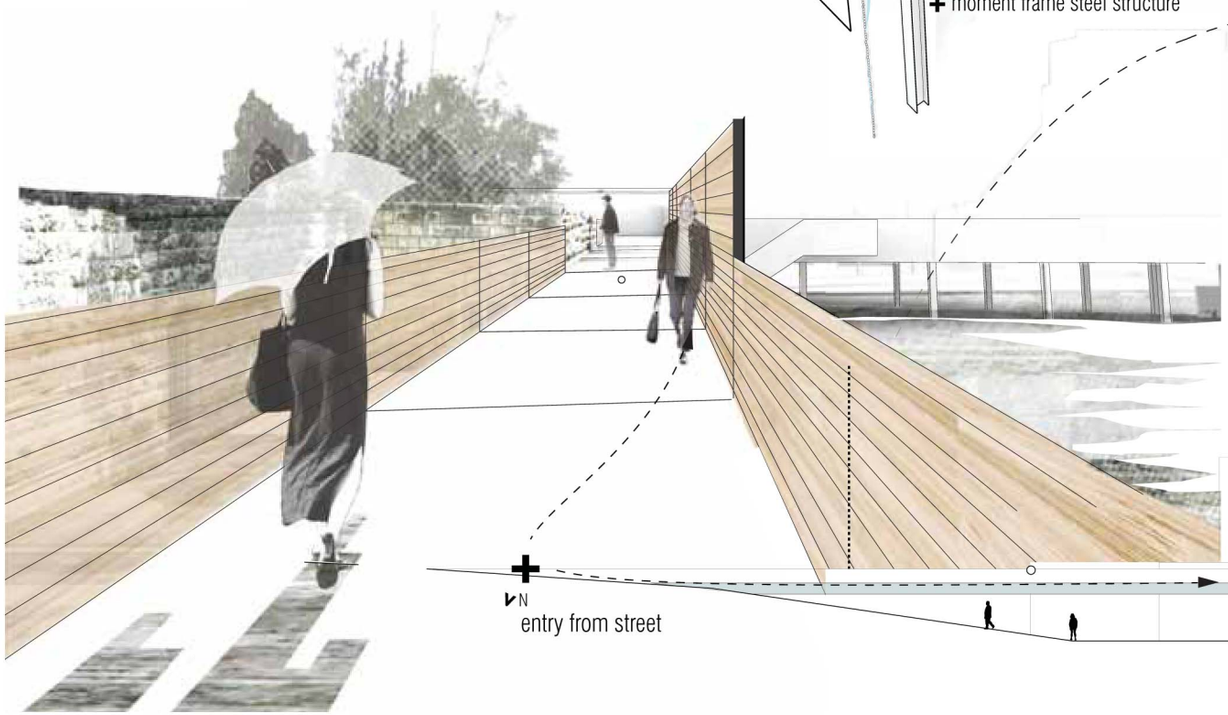
steel fascia

8' h shade structure

6' h leaning surface

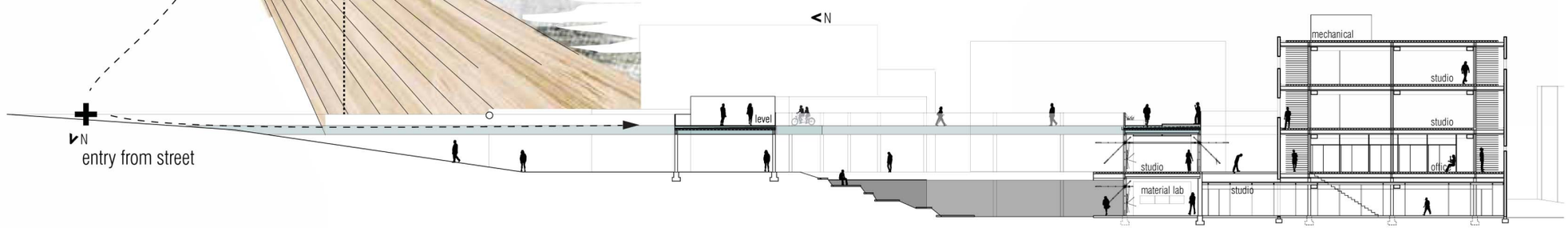
18" h seat

moment frame steel structure



entry from street

south entry to architecture studio / shop / level



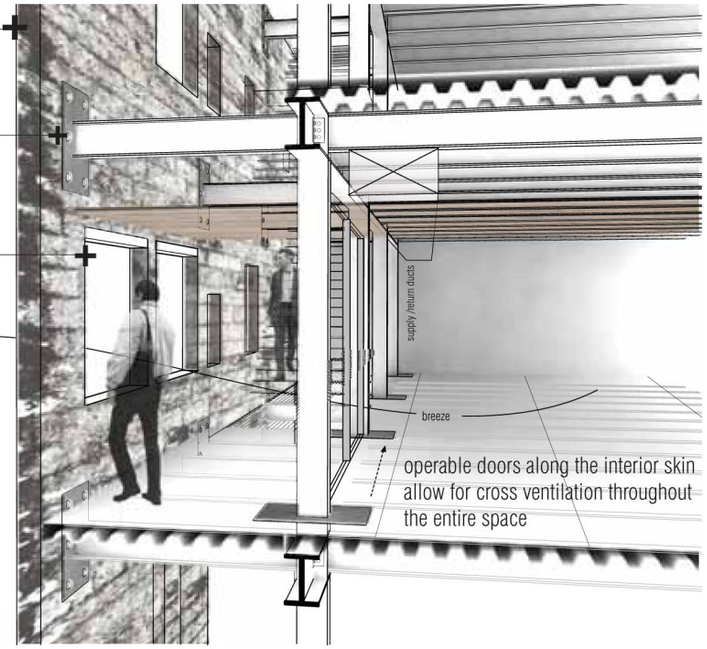
the architecture addition

Attention to climate and structural detailing of the architecture school became an important aspect of design as a way of teaching. Operable doors and windows are used throughout the building as a way to maximize air flow, lessening the need for air conditioning during the summer. The use of the old building as a skin is an important tool for showing Palestinian students a new way of integrating old and new building technologies without destroying culture and history.

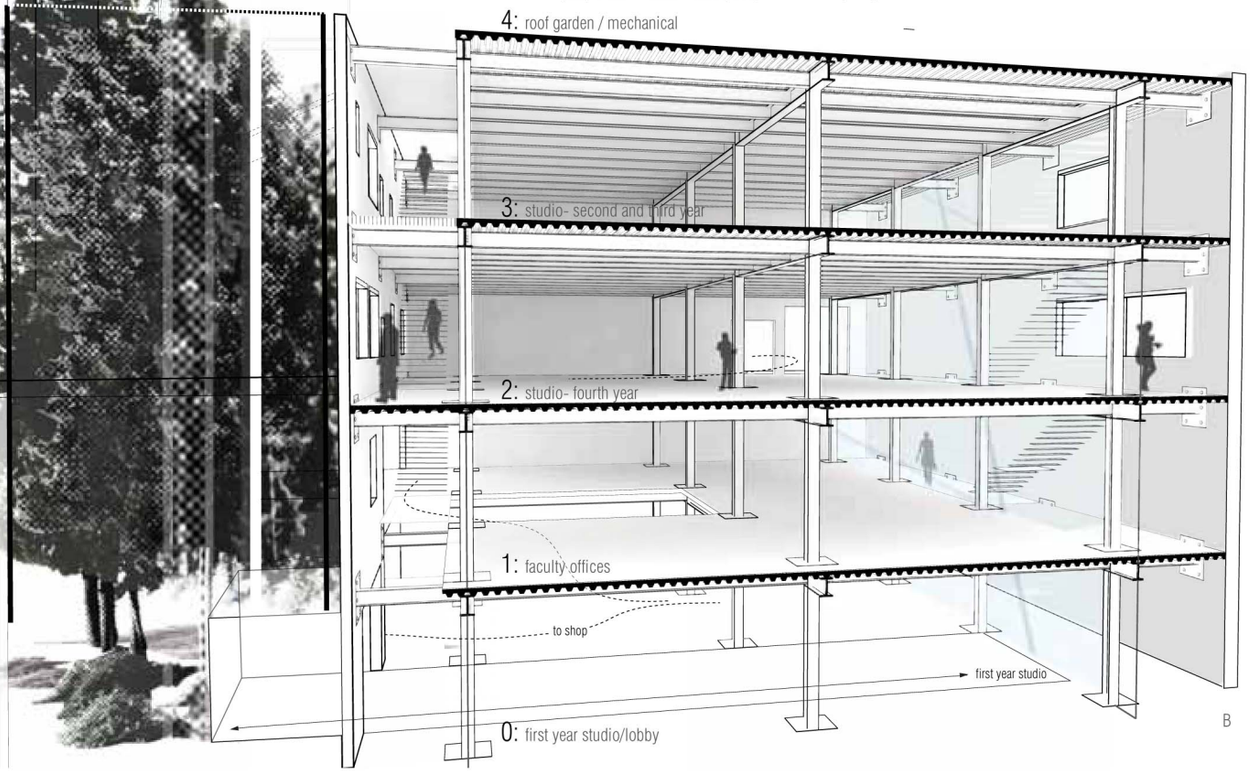
the existing facade is used as an outer building skin

the infill steel structure is pulled in from the existing facade to allow for circulation and moments of rest

new openings are created in the facade to allow for maximum air flow, daylighting, and visual contact to the level.



operable doors along the interior skin allow for cross ventilation throughout the entire space



6

extracurricular_*art*

(2011)

carving / painting / graphite

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