



# ARCHITECTURE PORTFOLIO

SAVITHA NARAYANAN

2011-2014

- 01** Academic work | studio 8  
**Organic market**
- 02** Academic work | studio 9  
**Integrated Bus Terminus**
- 03** Academic work | studio 10  
**THESIS - Centre for Textiles and Garments**
- 04** Professional work | 2012-2014  
**Selected works**



01

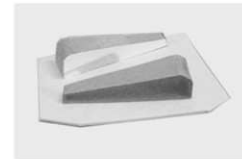
academic work | studio 8  
**Organic Market**

market & institution, bangalore

Located in a buzzing area with busy roads & the railway station close by, the proposed organic market is a mixed-use space that consists of:

**Market** - organic products ranging from food to fabric.

**Institutional component** - seminar halls, classrooms for product related/ other seminars, Book stores, Gallery spaces, Library & guest rooms are other miscellaneous spaces.

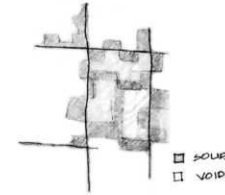


**Concept**

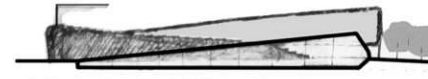
To have a strong built form and open space division, the two shells hold all the built functions within and the open space in between serves as a connecting space.

**solid and void**

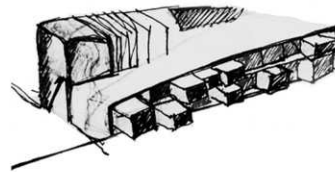
In terms of **built** and **unbuilt** parallel to the situation in the context (figure ground)



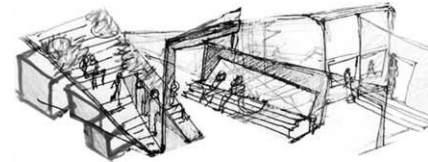
amphitheatre seating scooped out



shell structures at different levels



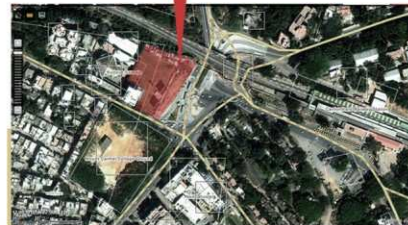
shell and massing



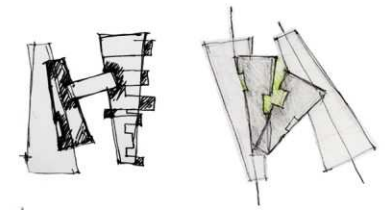
view showing green roof sloping down, portal frames and casual seating area.



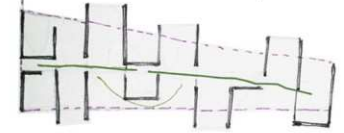
context



The site is located at one of the major junctions of the city formed by 5 main roads. Located near an underpass, the site has the cantonment railway station to its east and is abutted by the railway line & palace grounds to its north. To the west is the kodava samajh (community bldg) and the larger, denser part of vasanth nagar.



space segregation within the shell structure



elevation



**BASEMENT LVL PLAN**

Basement consists of parking for bikes and cars. It also includes the service cores (Lift & stairs), large godown area (store), toilets, Electrical room etc. It is entered through one ramp and exited through another.



First floor plan

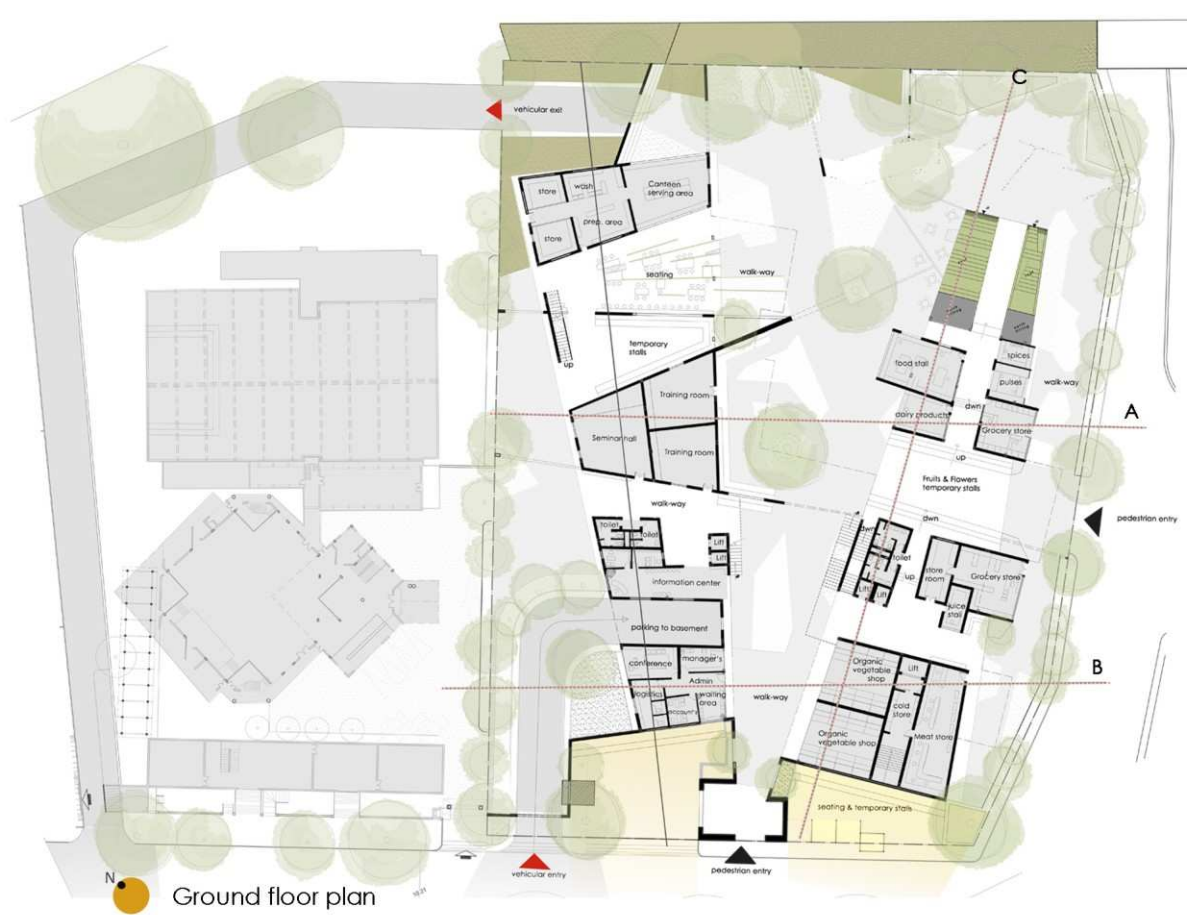
**line-geometry-spaces**

superimposition of two layers. first, being the projections derived from the neighboring sites and second being the two solid shell forms.

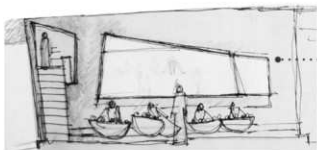
**activities**

built in the left : admin, seminar halls, canteen towards the rly line.

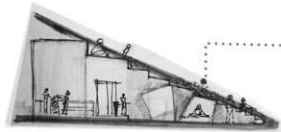
built in the right: market space



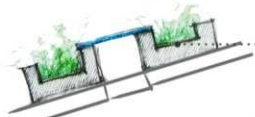
Ground floor plan



flexible spaces for temporary vendors



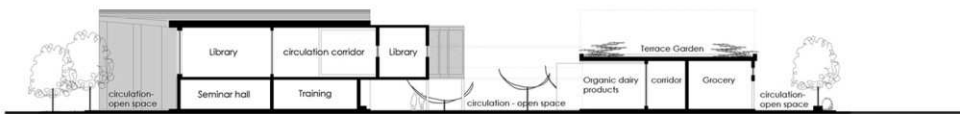
the shell structure is left with smaller pockets of spaces due to height reduction--can be used for temporary purposes.



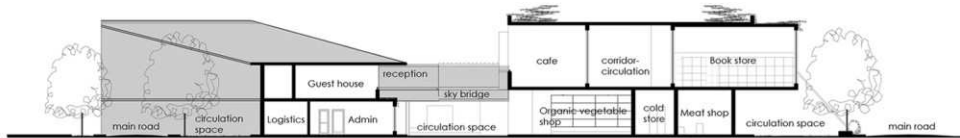
green roof structure detail which allows light within the building.



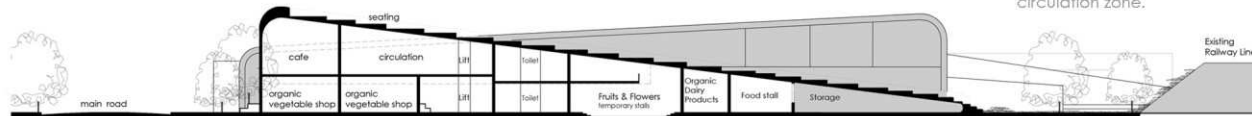
solid - porous the shell structure could be open with a skin around.



section AA



section BB



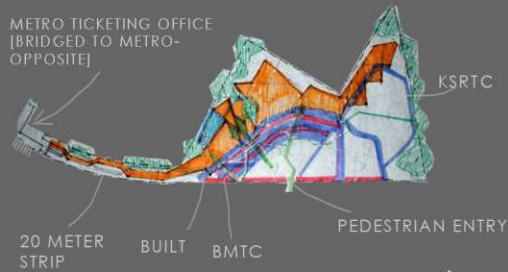
section CC

This proposal caters to a number of activities such as:

- + Buying and selling of organic products. (Food products to Fabric)
- + Information centre: Library and other facilities for students and others. Space dedicated for institutional functions such as seminars, lecture classes, exhibitions that accommodate a large number of people.
- + Space for general public to spend time (cafe, canteen, terrace garden)

**Design idea/concept:**  
solid & void : built & open spaces : main activity & circulation spaces.  
Two shell structures that house the various activities & the in between space is the main circulation zone.

METRO TICKETING OFFICE  
[BRIDGED TO METRO-  
OPPOSITE]



20 METER STRIP  
BUILT  
BMTc

PEDESTRIAN ENTRY

zoning

02

academic work | studio 9  
**Integrated Bus Terminus**

Bus terminus & metro transit

Located opposite to an important metro rail station in Bangalore, the proposed integrated bus terminal houses the KSRTC and BMTc bus stations.

The overall objective is to explore the interface of people and transport in one integrated space. An attempt to deal with the opportunities, complexities and challenges posed by the site and program. This project is not a commercial venture model. Apart from being a link to both rail and road-based inter-state connectivity, it houses some commercial spaces and a residential component for short stay of travellers. Explorations in terms of an architectural built form & its impact in the urban context.

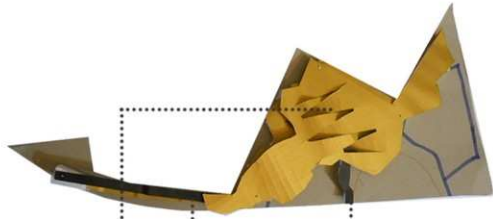
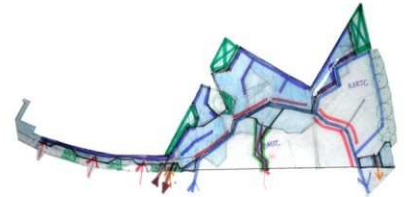


**CONCEPT :**

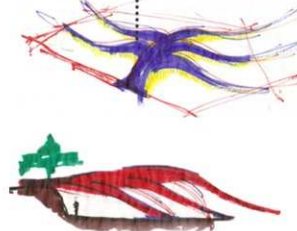
The idea here is to generate spaces with reference from the transport lines that form an abstract diagram of the city as a base, to be able to plug in/ merge with the context. The basic lines that define spaces in the design are taken from the abstract of the strong and prominent lines of transport that form, frame and hold the City.

**Transport lines - Bangalore network**

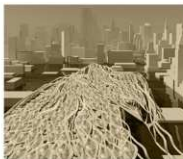
Taking a clue from the base of the project 'transport interchange' brought in the relevance of the transport lines that form a network in the city. The process of abstraction which involved extraction of important and evident lines that formed a diagram of the city (ex: outer ring road, connecting roads, metro lines, railway lines).



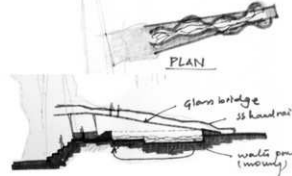
flexible ROOF structure/skin



pedestrian entry BRIDGE

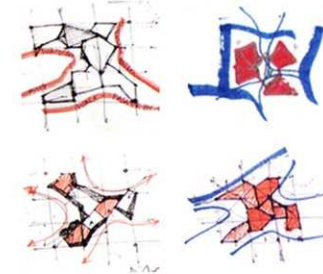


20M stretch with multiple activities



PLAN

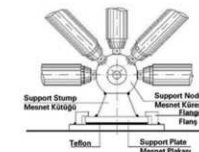
Commercial



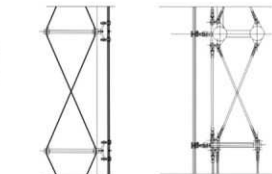
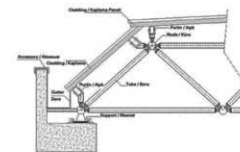
PLUG-IN MODULES

The internal height being quite large, a module cluster system houses the different requirements like water kiosks, book and newspaper shops, eateries, bag & shoe repair shops etc. that relate to the human scale. These smaller volumes, reduce the massive scale that exists as a whole.

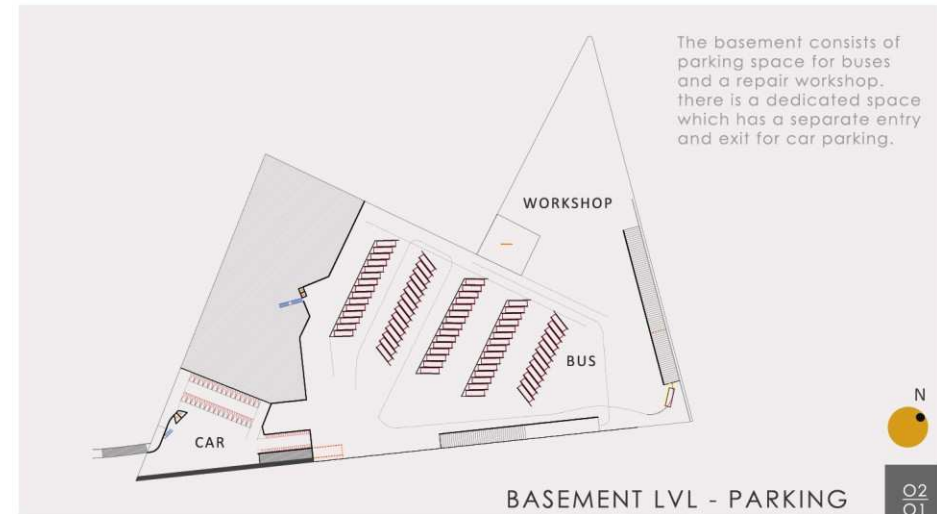
MODULE FOR KIOSK



space frames



structural support for glass walls



The basement consists of parking space for buses and a repair workshop. there is a dedicated space which has a separate entry and exit for car parking.

BASEMENT LVL - PARKING

N

02/01



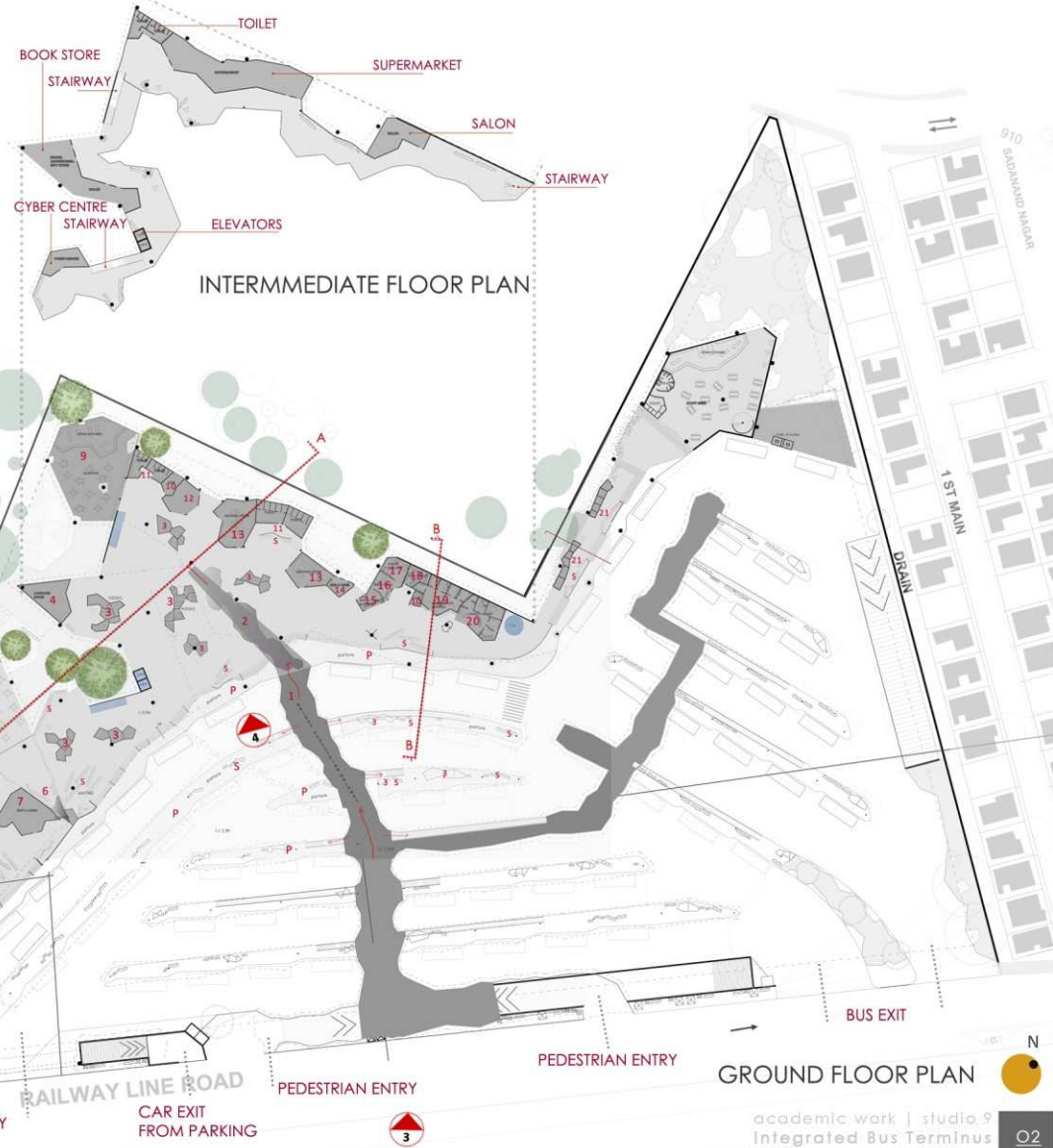
The **ground lvl** consists of all the functions that need quick access like small shops, kiosks, ticket counters, baggage rooms, waiting rooms. The bus platforms have small shops as well.

It is accessible by an elevated pathway from the road edge. The same pathway connects the public to the bus platforms by ramps and staircases. At a point the pathway elevates further to connect to the upper floor.

The **20 m wide strip** starts with auto / cab stands right along the metro ticketing office and ends with an entry into the building. The entire strip is a semi-open pedestrian walkway with seating, water kiosks, coffee stalls, book stalls, newspapers shops, bakery etc.

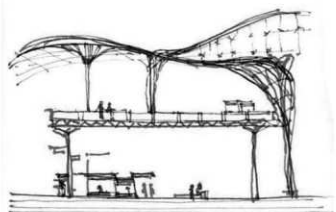
#### legend

- 1 pedestrian bridge
- 2 glass bridge
- 3 kiosk
- 4 luggage room
- 5 cafe
- 6 enquiry - bmtc
- 7 admin- bmtc
- 8 water pool
- 10 atm
- 11 toilet
- 12 luggage room
- 13 waiting room
- 14 child care
- 15 ksrjc - ticket
- 16 info. desk
- 17 enquiry - ksrjc
- 18 cyber cafe
- 20 admin - ksrjc
- 21 food stalls
- p platform
- s seating

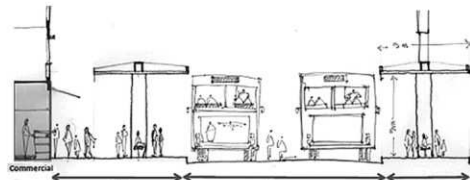


20 M STRIP

GROUND FLOOR PLAN

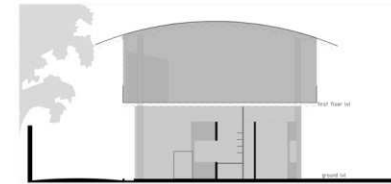


double height space and sub spaces within the massive structure --- scale reduction in relation to human scale

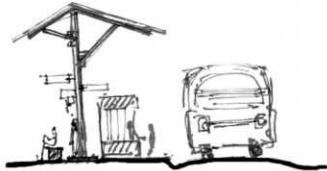


scenario : platform

SECTION AA



SECTION CC



scenario : bus platform, kiosks



scenario : platform + access bridge above



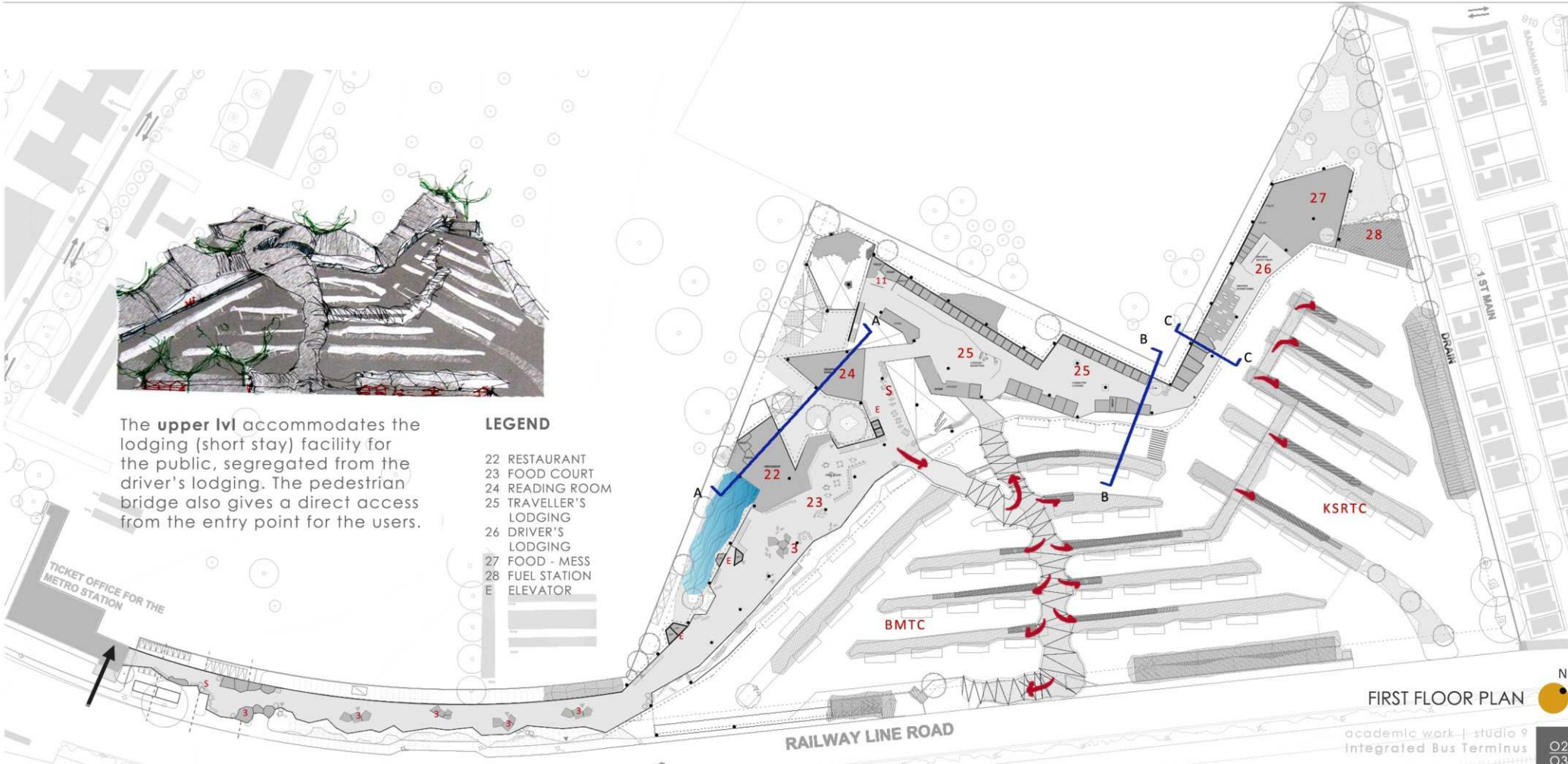
SECTION BB



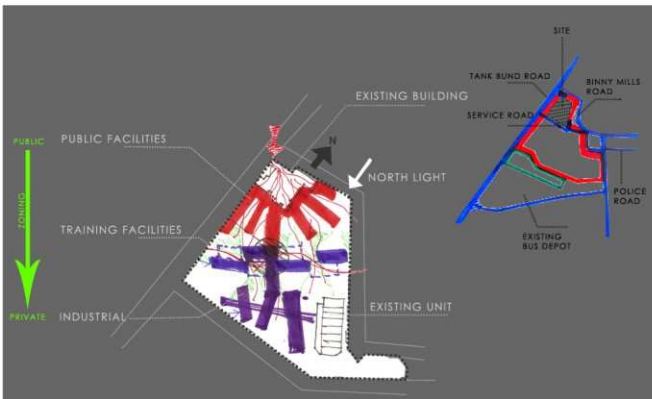
The upper lvl accommodates the lodging (short stay) facility for the public, segregated from the driver's lodging. The pedestrian bridge also gives a direct access from the entry point for the users.

**LEGEND**

- 22 RESTAURANT
- 23 FOOD COURT
- 24 READING ROOM
- 25 TRAVELLER'S LODGING
- 26 DRIVER'S LODGING
- 27 FOOD - MESS
- 28 FUEL STATION
- E ELEVATOR



**FIRST FLOOR PLAN**



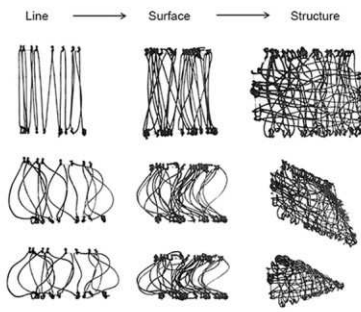
03

academic work | studio 10  
**Centre for Textiles and Garments - thesis**

Shopping arcade, training institute and garment factory

Located at the CBD in Bangalore, the proposed 'Center for textiles and garments' is a mixed use space that facilitates diverse set of activities that relates to common manas well as people related to this field in specific.

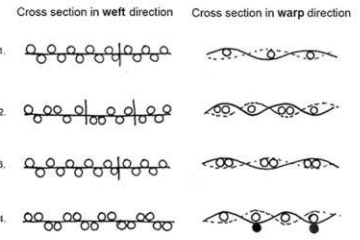
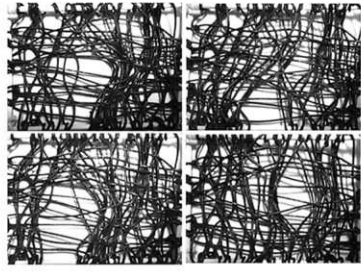
The overall objective is to create a common platform to involve different genre of people linked directly/indirectly to garment industry and the process of garment making. For instance, those involved in garment designing, production, sales, consumers etc. A cohesive, self-contained environment that aims at complete learning and sharing of information on garment industry and its skills at different levels that benefits the labor force, general public and the industry as a whole rather than being just a mere manufacturing unit which is quite archetypal.



**CONCEPT - ABSTRACT**

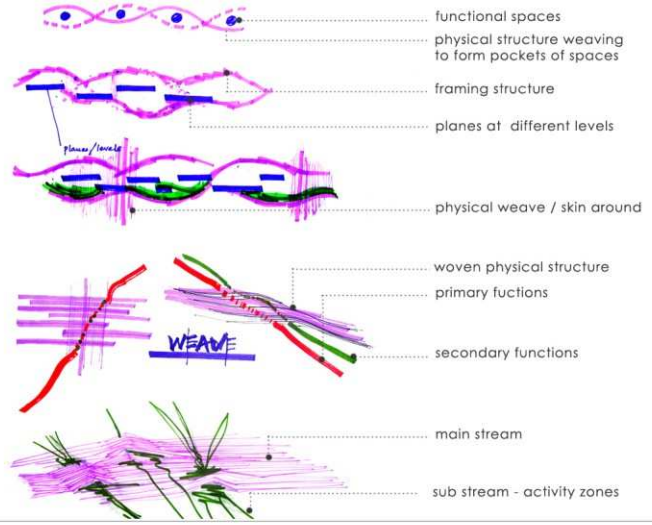
The city is a massive textile, a patchwork of buildings, infrastructure and people. We alter the urban environment within the confines established by plot lines, streets and zoning similar to the weft on a loom, conforming to the rules of the warp.

The proposed design aims to incorporate the demands of a globalized world while retaining the identity and scale of the traditional Weaver home type. The architectural project is a hybrid of programs- a textile/ garment training centre, eateries + shopping arcade + public garden / recreation spaces, leasable space, artist studios, Garment + weavers production unit.

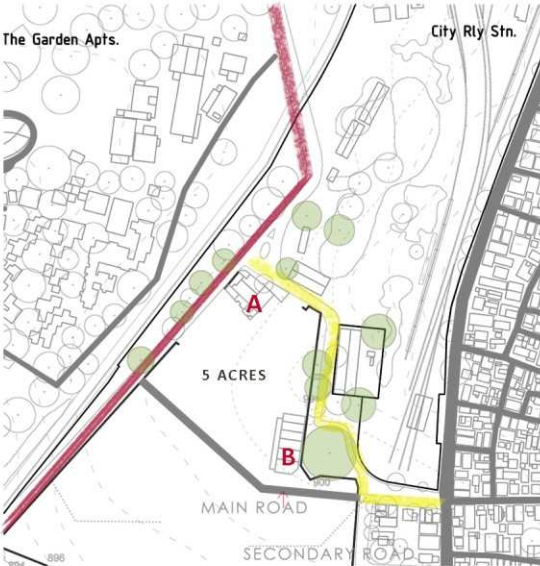


**Side track notes:**

**WEAVING** is the textile art in which two distinct sets of yarns or threads, called the **warp** and the **filling or weft** (older *woof*), are interlaced with each other to form a fabric or cloth. The warp threads run lengthways of the piece of cloth, and the weft runs across from side to side. Cloth is woven on a loom, a device for holding the warp threads in place while the filling threads are woven through them. Weft is an old English word meaning "that which is woven". The manner in which the warp and filling threads interlace with each other is known as the weave.



**B- existing unit (Re-use)**      **A- existing bldg - admin (Re-use)**



The site is located in central Bangalore within the **CBD**. It has the city railway station, binny mill bus depot, bbmp park, etc-garden apartments, sbi housing, stretch of low income group residences, other buildings of commercial use & multi-use buildings in its neighbourhood, chickpet, cottonpet, balepet etc known as important places for garment trading are just next door. **Binny mills was shut down in the year 1999** after going through a **decline in business during 1994** and repeated attempts of getting it to survive. The entire built on site other than the admin building and a processing unit was demolished in the years 2007-08.

**Existing occupational activities around site**

- > small scale garment mills
- > dyeing units
- > garment trade + shopping area
- > home occupations - low income group category work from home.

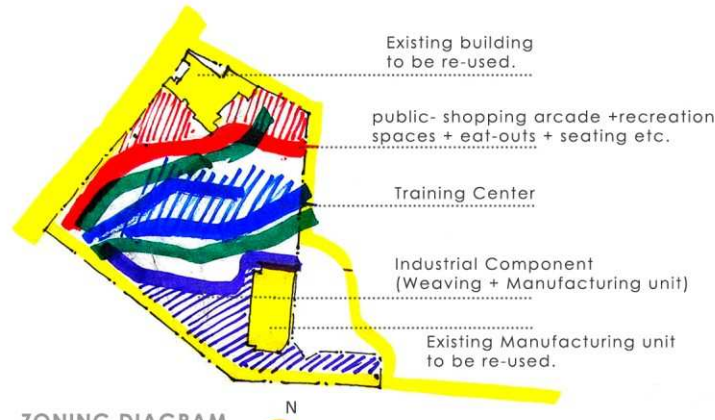
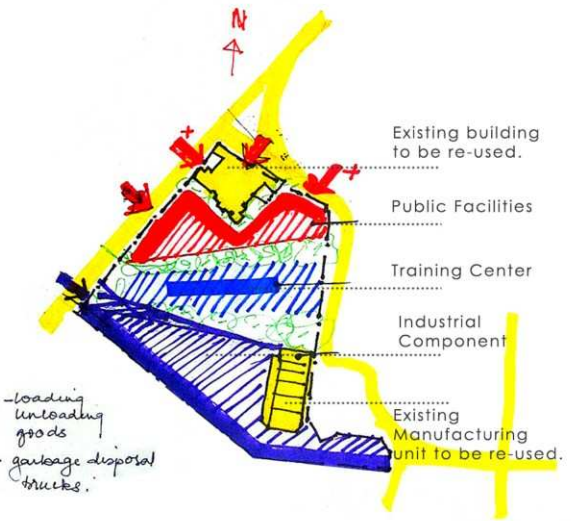
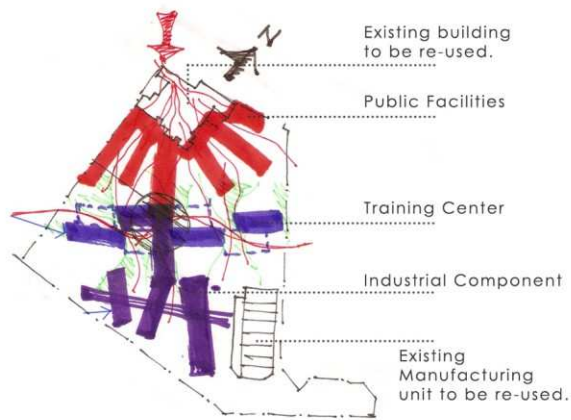


**SITE PLAN (HISTORY)**



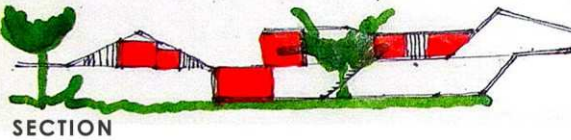
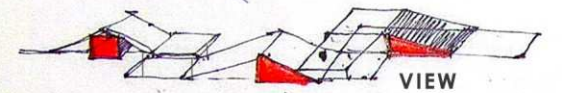
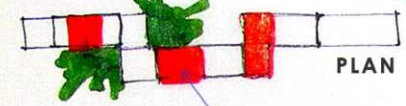
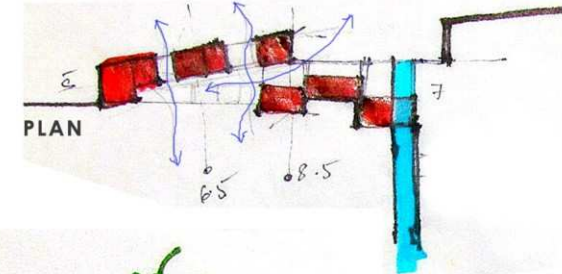
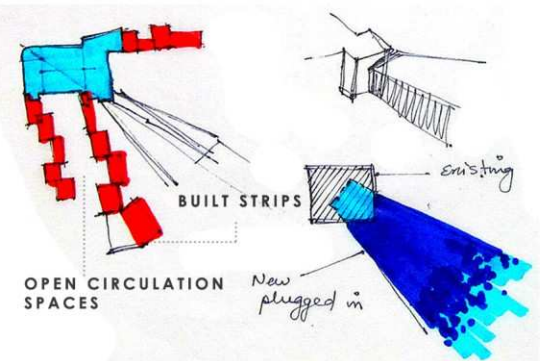
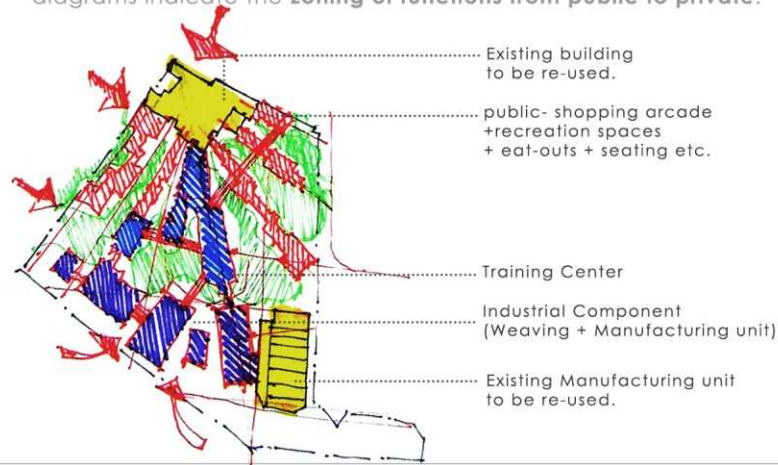
**SITE PLAN (CURRENT)**



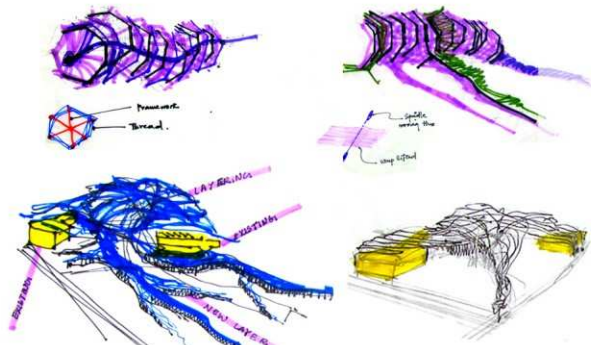


### ZONING DIAGRAM

Based on the kind of functions, existing buildings, profile and the orientation of site with respect to the road and public access, these diagrams indicate the zoning of functions from public to private.



SPACE DERIVATION FROM THE CONCEPT OF WARP, WEFT AND SHED.



### Basic structure of approach

> To be re-using the existing buildings efficiently by making necessary alterations. the administration building and the processing unit.

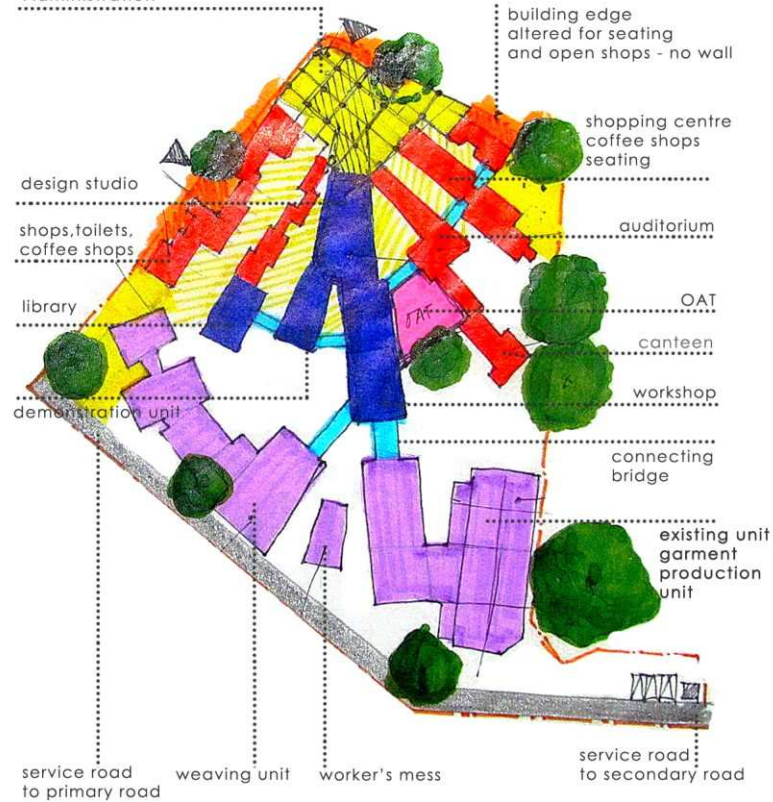
> There are three main components in this set-up.

> **Public component:** The public space - shopping arcade, wholesale market, garments and accessories related to garment making, tailoring units, to which the public have an easy access.

> **Industrial component:** the private space - that has restricted access, the factory set-up consisting the garment production unit, weaving unit, office spaces, canteen for workers etc.

> **institutional-training component:** the buffer space - that provides transition from a space that is highly public to a space that is highly private in nature. (shopping arcade to the factory set-up). functionally its facilitates as a training center and workshop for workers and public.

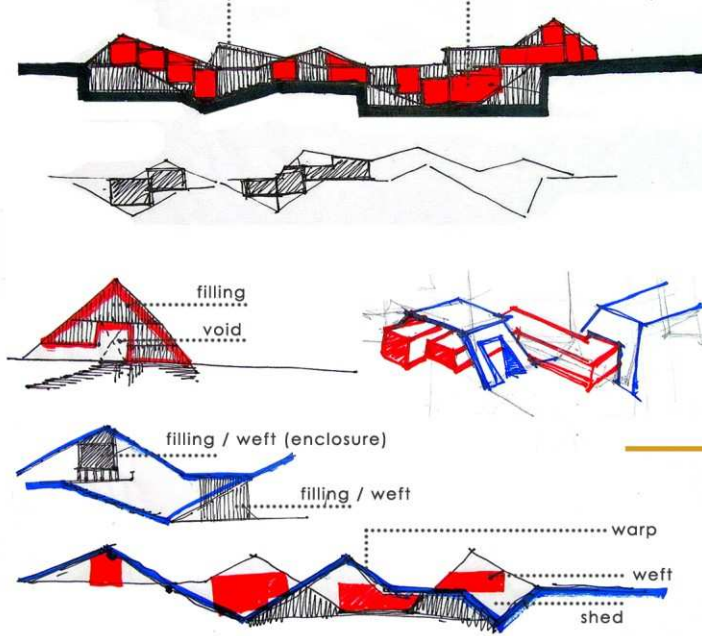
existing block : re-used Administration



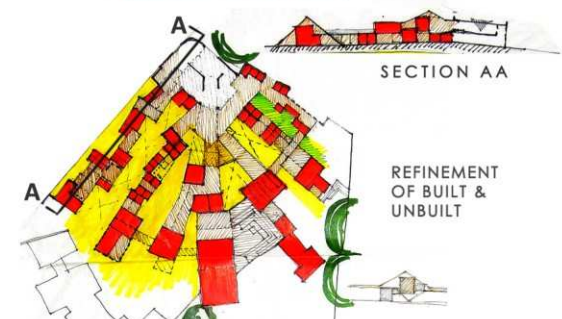
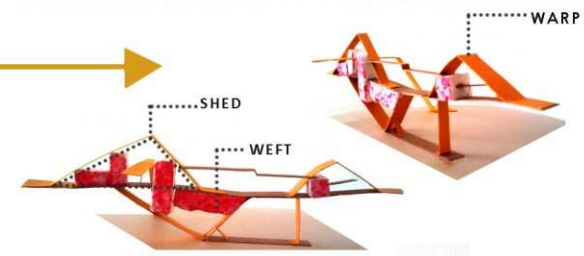
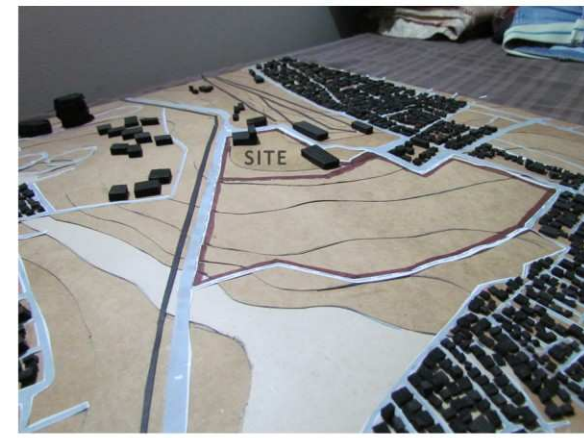
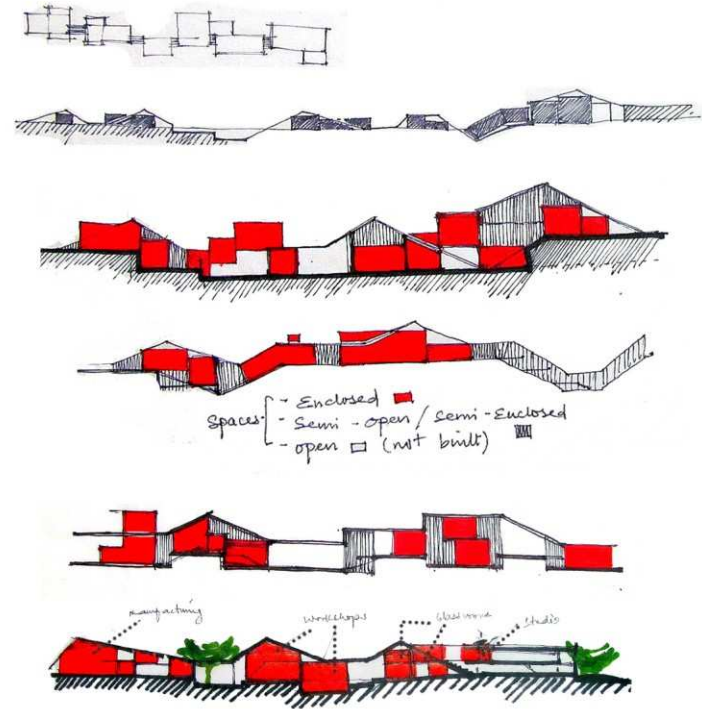
layout of site : considering the existing main block as the focal point and projecting strips of built and open spaces within to achieve an array of spaces linked to each other at various points.

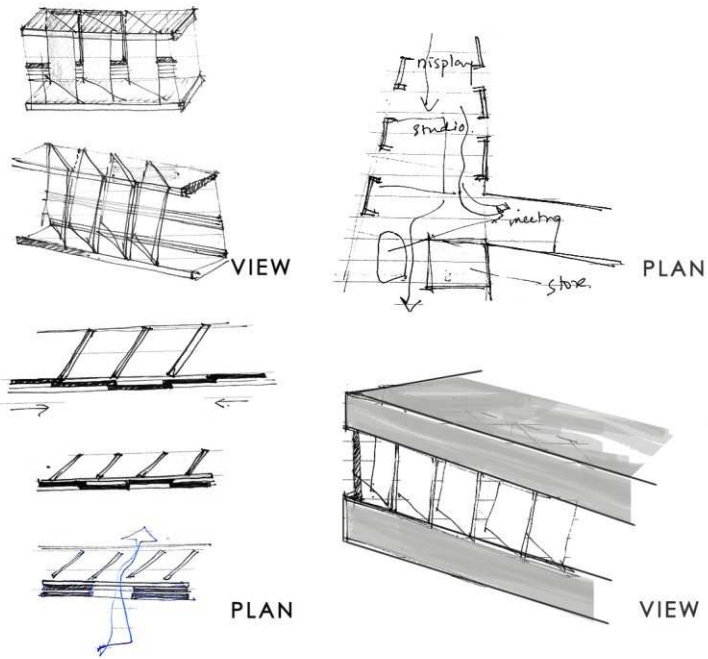


intermediate spaces

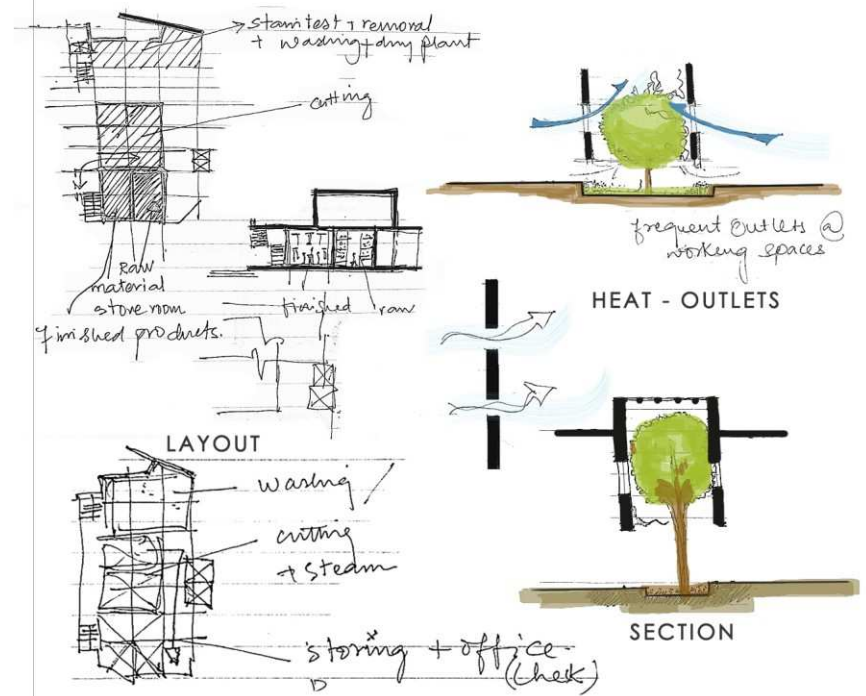
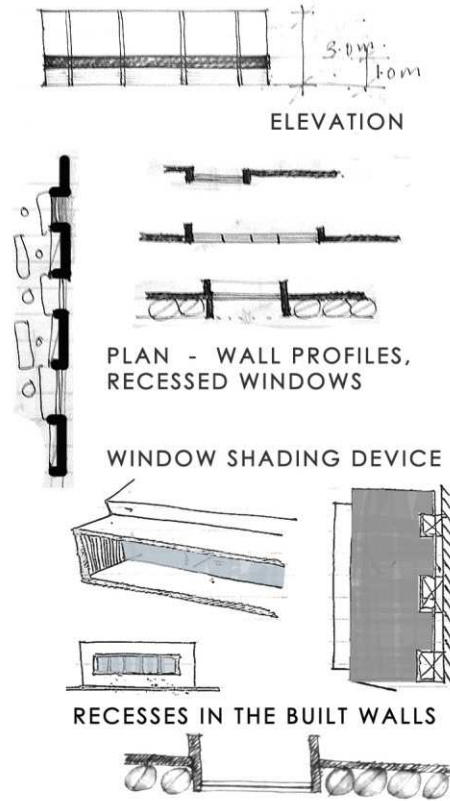


Translation of the theory of weaving, into spaces; with the concept of warp, weft and shed. Each being an element to form spaces.

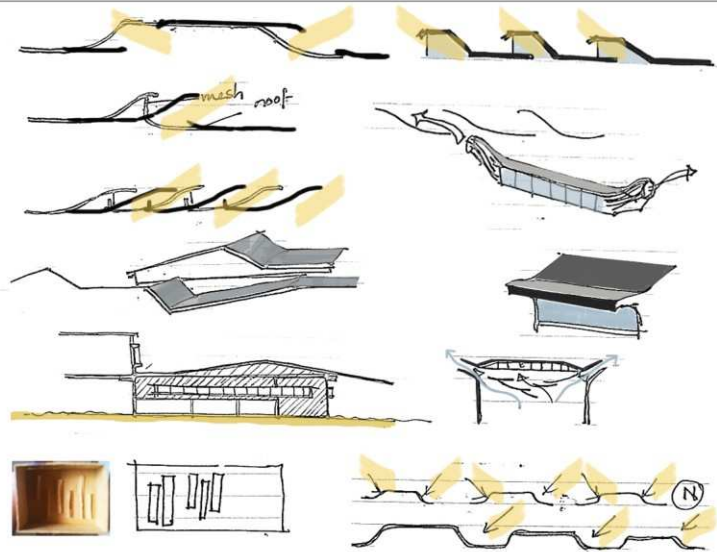




**brise-soleil** : a sun-breaker , shading device that blocks direct sunlight and allows indirect light. large concrete slabs placed vertically, inclined in the horizontal plane.

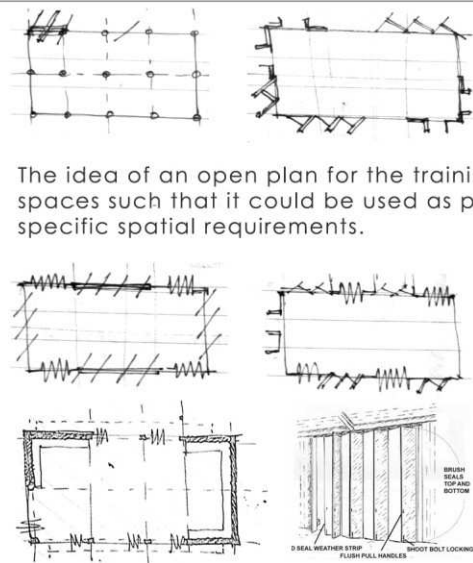


**heat - outlets** : at various intervals in the work spaces (factory space) like the stitching units and weaving units, heat escape devices that help the excess heat produced by machines escape out through vertical shafts with openings.



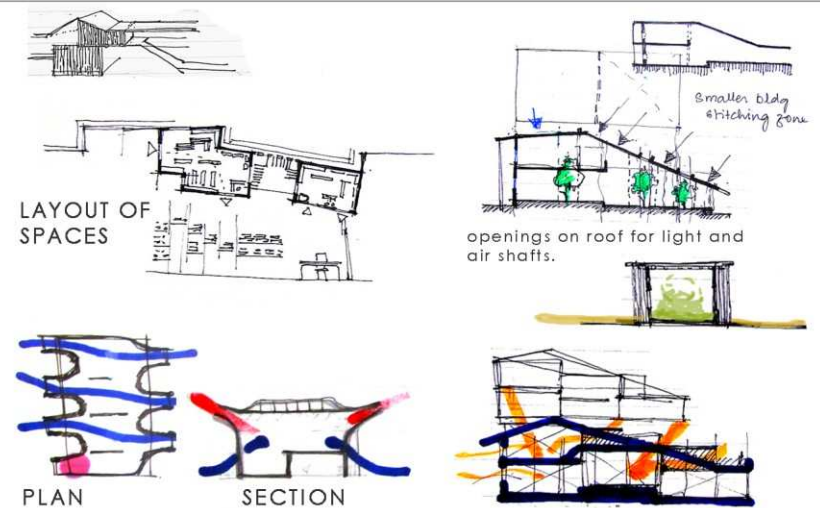
roof profiles - allowing sufficient entry of natural light (north light truss)

ROOF PROFILES



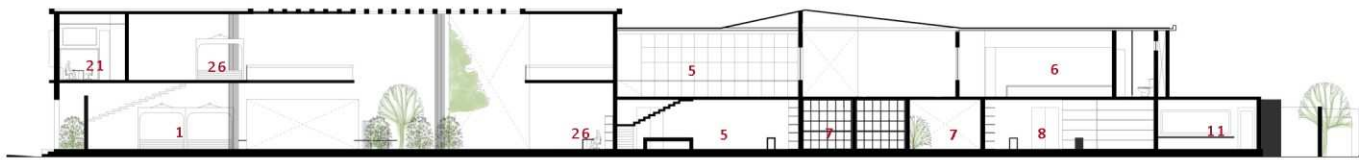
The idea of an open plan for the training spaces such that it could be used as per specific spatial requirements.

OPEN PLAN

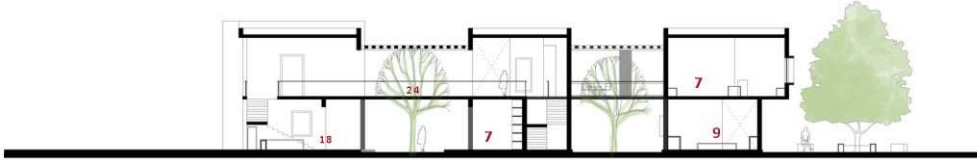


heat escape outlets for factory units, openings for cross-ventilation.

SKYLIGHTS / OPENINGS FOR SUFFICIENT DAY LIGHT.



SECTION S1



SECTION S2



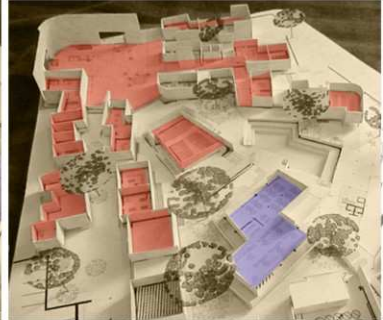
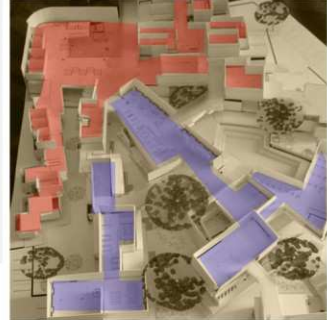
- LEGEND**
- 1 info desk
  - 2 restaurant
  - 3 kitchen
  - 4 cafe
  - 5 fabric matching centre
  - 6 garment store
  - 7 book centre
  - 8 saree store
  - 9 handicraft store
  - 10 handloom store
  - 11 toilets
  - 12 auditorium
  - 13 garment accessory store
  - 14 creche
  - 15 rent-out space
  - 16 canteen
  - 17 food stall
  - 18 coffee/tea stall
  - 19 oat
  - 20 water pond
  - 21 administrative office
  - 22 tailoring boutique
  - 23 coffee shop
  - 24 bridge
  - 25 design studio
  - 26 stalls
  - 27 library



UPPER FLOOR LAYOUT

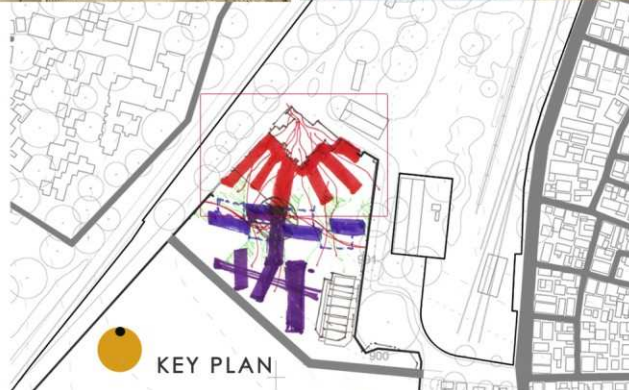


GROUND FLOOR LAYOUT



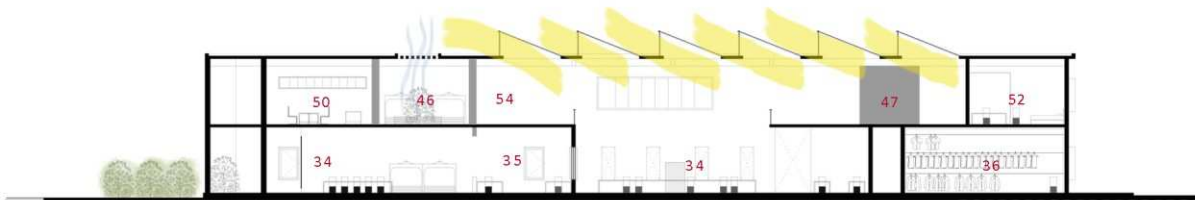
**THE PUBLIC COMPONENT**

This space allows public activities such as shopping-related to garments & textiles, gatherings -acts as a platform to host workshops and events related to garments and fashion technology with supporting facilities such as cafe, restaurants, canteen etc. plugged-in at various intervals.

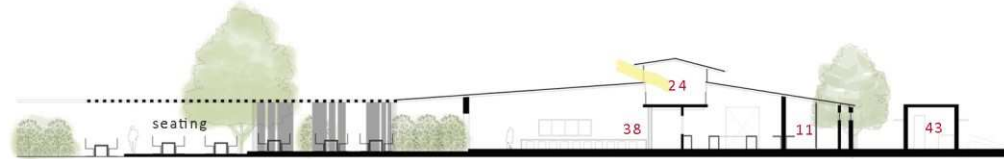


KEY PLAN

The large production unit is a flexible space that can be partitioned temporarily into smaller portions as per requirement so as to maintain a non-claustrophobic working environment for people. the heat escape shafts at various points helps the excess heat produced by machines to escape out.



SECTION F1



SECTION F2

- legend
- 34 cutting & labelling
  - 35 steam ironing
  - 36 product storage
  - 37 sewing unit
  - 38 canteen/mess
  - 39 weaving-storage
  - 40 washing plant
  - 41 weaving production
  - 42 weaving-product store
  - 43 elec. room
  - 44 transformer
  - 45 compressor
  - 46 kiosks-accessory
  - 47 elevator
  - 48 storage
  - 49 manager
  - 50 prototype
  - 51 cad
  - 52 medical
  - 53 buttoning
  - 54 trolley
  - 55 stain removal
  - 56 waste mgmt.
  - 57 research
  - 58 quality testing
  - 59 locker room



- 48 storage
- 49 manager
- 50 prototype
- 51 cad
- 52 medical
- 53 buttoning
- 54 trolley
- 55 stain removal
- 56 waste mgmt.
- 57 research
- 58 quality testing
- 59 locker room



UPPER LEVEL

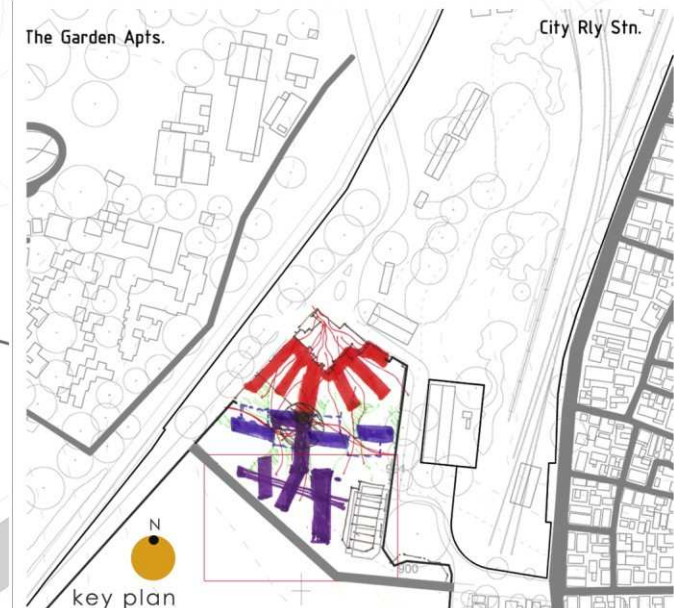
service road

The Factory units

This segment consists of the garment production unit,weaving unit and the supporting facilities like store rooms,accessory kiosks,washing plant,packaging unit etc. attached to it. a canteen space punctured at the center is a spill out space that opens out to a larger informal space for the people working vigourously at the production units.



GROUND LEVEL



key plan



- legend**
- 29 classroom
  - 30 training-loom
  - 31 training-embroidery
  - 32 training-cutting
  - 33 training-tailoring

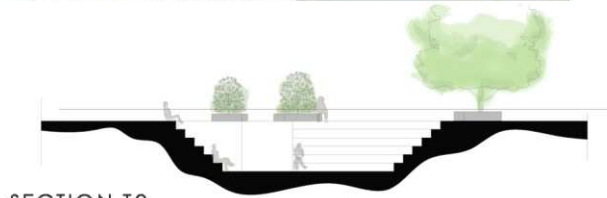


MODEL

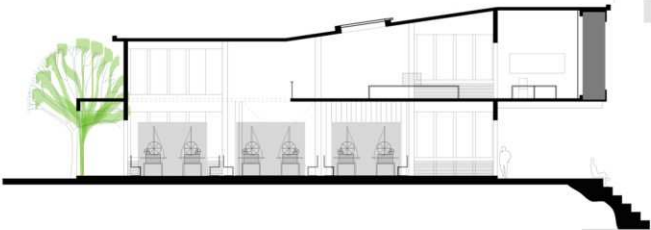


TRAINING FACILITY

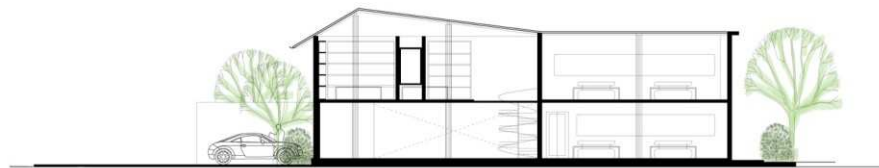
UPPER LEVEL



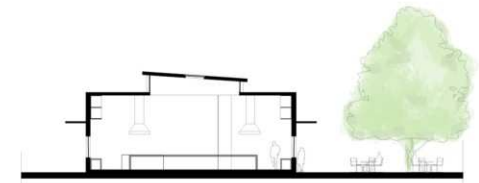
SECTION T2



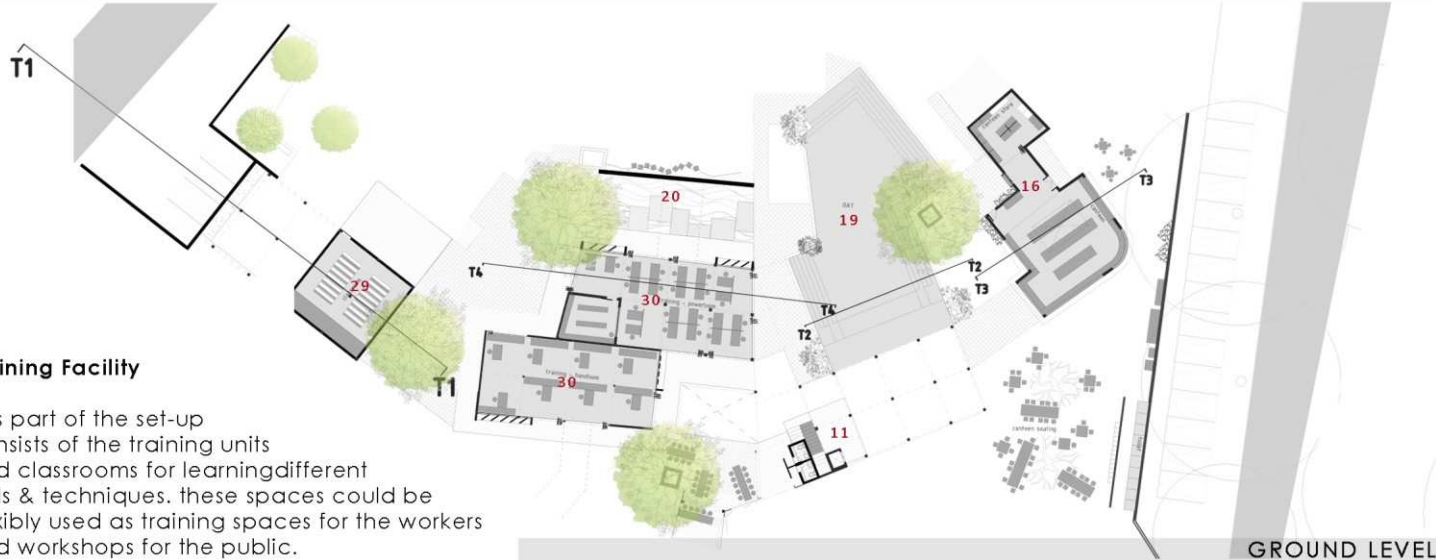
SECTION T4



SECTION T1



SECTION T3

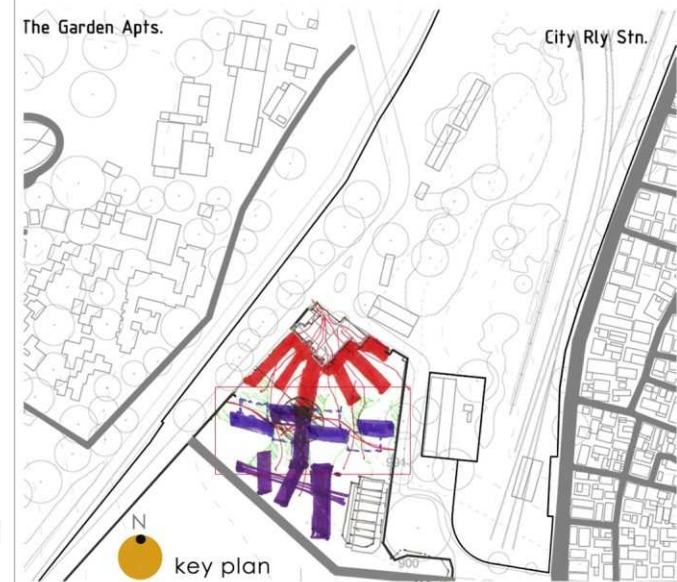


GROUND LEVEL

**Training Facility**

This part of the set-up consists of the training units and classrooms for learning different skills & techniques. these spaces could be flexibly used as training spaces for the workers and workshops for the public.

these spaces are wall-less, they have all round openable sliding doors and windows on ground and upper levels respectively to experience a more open, ventilated space as compared to a completely enclosed space.





SECTION AA

section along the diagonal of the site, showing the three components: shopping arcade, training rooms and the factory setup.



TRAINING UNITS



SHOPPING ARCADE



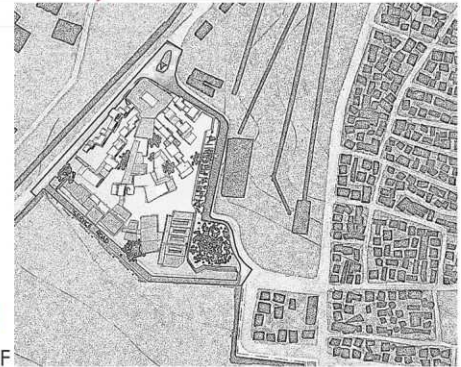
GROUND LEVEL - SITE



UPPER LEVEL - SITE



FACTORY



KEY PLAN - ROOF

# 04

selected works | 2012 - 2014

## Professional Work

Argo structures | Cadence architects

The professional work consists of selected projects between 2012 and 2014. It includes residential projects, interiors, facade design solutions, stall designs etc.

The involvement in these projects are at different levels:

Interaction with clients, consultants, contractors, vendors and other designers.

Evolving the design with strong guidance from mentors / principle.

Preparing working drawings and details for execution.

Coordination & inspection of work at site.

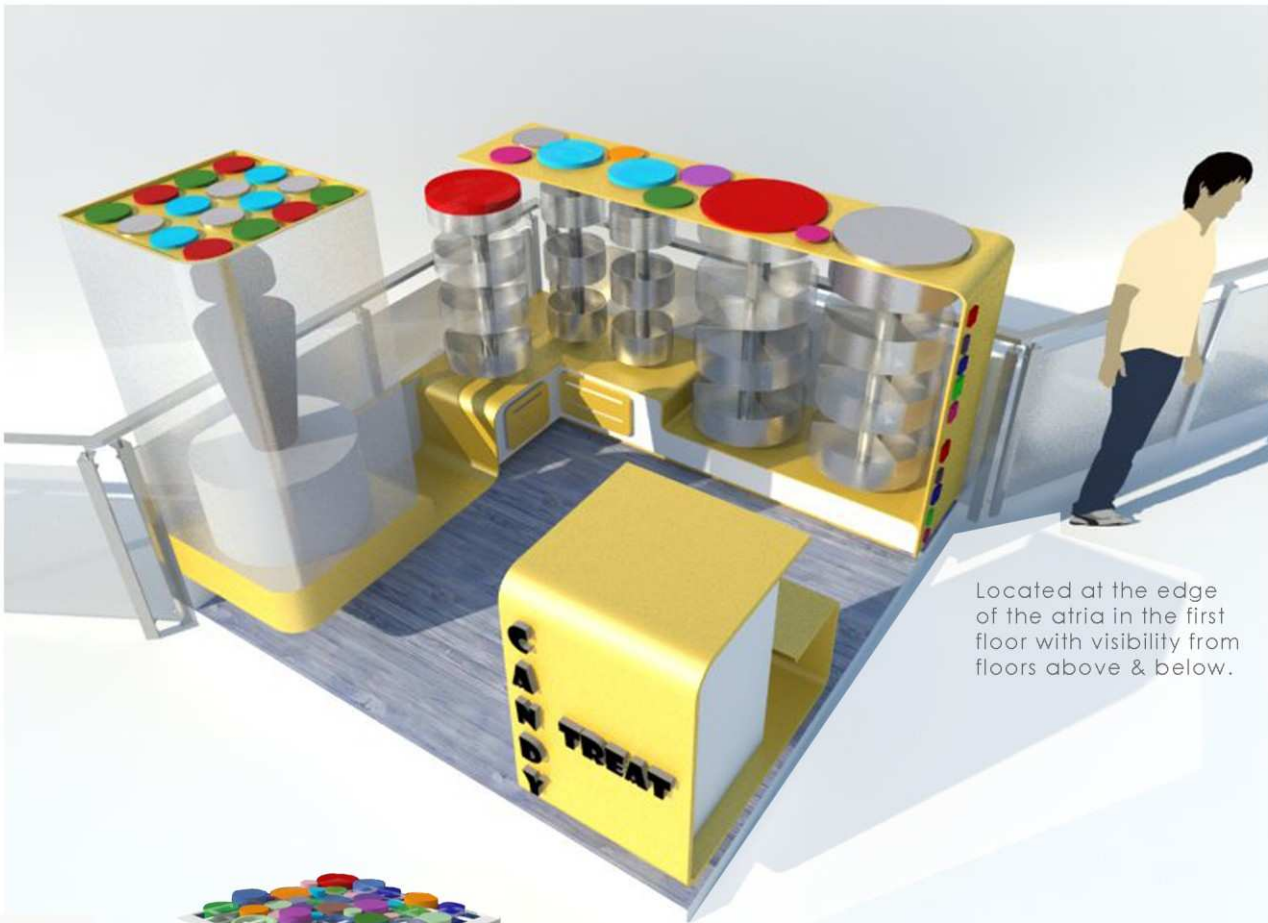
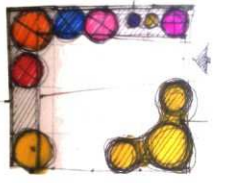
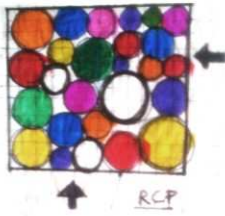
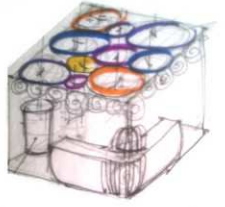


images of unlisted projects





kiosk accessories container



Located at the edge of the atria in the first floor with visibility from floors above & below.

A 7'x7' candy kiosk at the mall that has visibility from all sides. Their products range from colourful candies to toffees and chocolates.



### CANDY TREAT, IN ORBIT MALL LAYOUT & INTERIORS

The concept here is to let the public view the entire kiosk and it's products from all sides. the cylindrical transparent containers are filled with colourful candies. These containers have partitions and are on a pivot stand & can be rotated.

The idea here is to let the customers walk through the kiosk and play around with these rotatable cylinders and choose their products.





deep cross impression on concrete finish wall

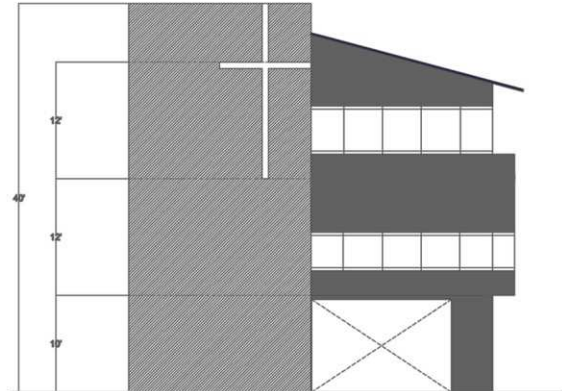
sloping roof

strip windows

Salvation prayer Church facade

A simple facade proposed for a church in the city.

- + Linear / strip windows for light. (horizontal)
- + A solid mass with exposed concrete finish and a deep cross impression. (vertical)
- + Sloping roof



ACP cladding on existing wall

MS framework with ACP cladding

lacquered glass

OPTION 1

Cooperative Bank building facade

A quick overlay of skin to an existing building.

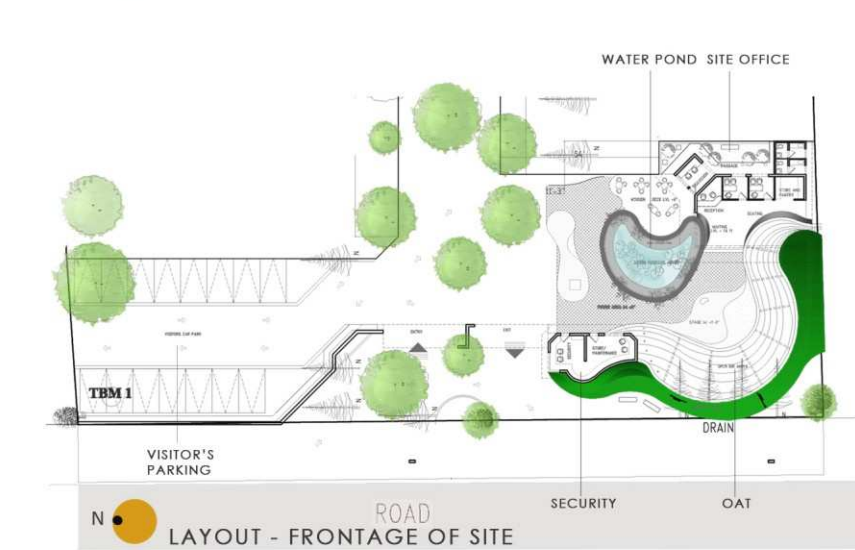
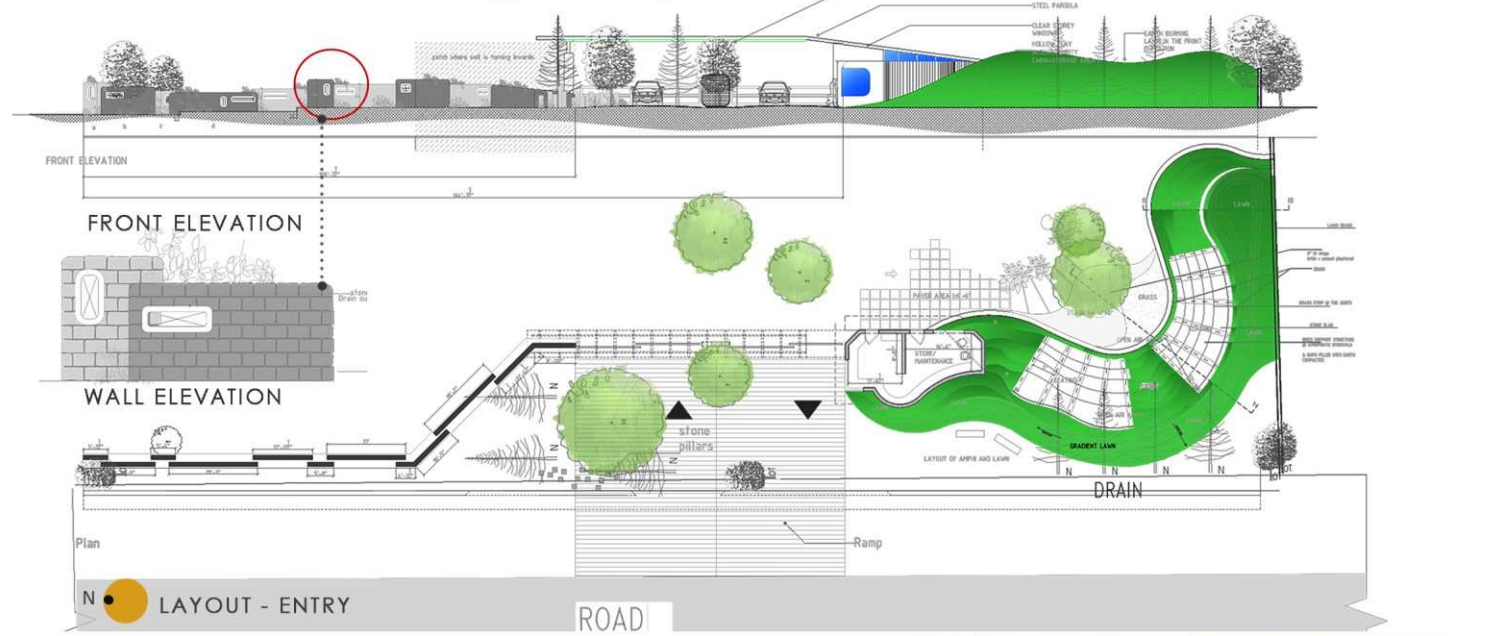
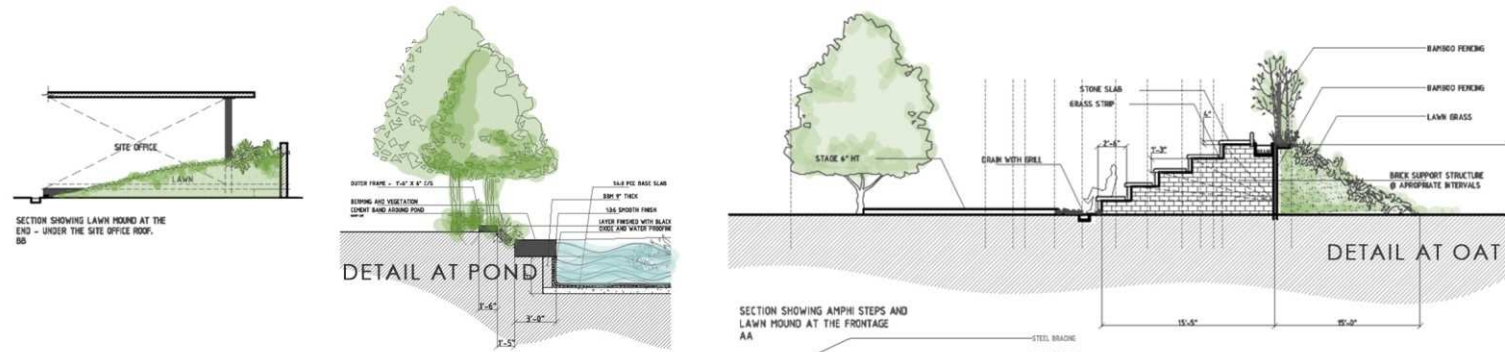
A combination of Glazing with lacquered glass, Aluminium composite panels [ACP] structured with MS frames.



acrylic boxes with led inside

ACP lacquered glass

OPTION 2



**FARM LAYOUT, BIDADI**

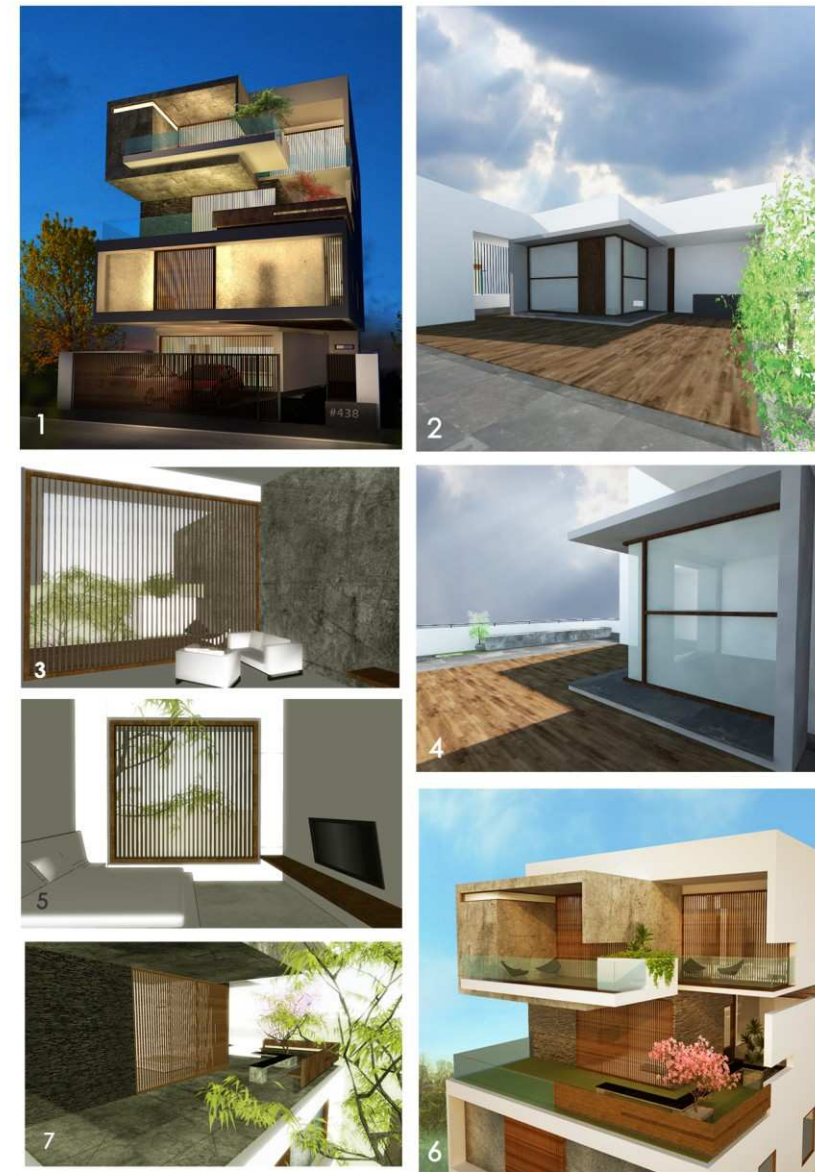
A farm house, a resting home, a week-end get away, from the city .

**project description:** planning the layout for 11 acres of farm land, club house, tree house, volley ball court, site office, security and other facilities.

**area:** 11 acres  
**physical features:** densely covered with mango trees, natural boulders & a large banyan tree.



1 night view showing the light glowing through translucent concrete.  
 2 view showing terrace space. Cube concept followed. 3 view from inside the room  
 4 view at terrace with wooden decking. 5 view from inside the room  
 6 exterior view showing the balcony cube projections. 7 view showing balcony & garden



### B-residence

A 4- Bedroom villa sitting on a 60' x 40' Plot developed with the concept of cuboids and various iterations.

Spaces & Features of the Villa:

- + Living and family living
- + 4 - Bedrooms for the residents
- + Double height courtyard
- + Balconies flanging along bedrooms



MS Grill pattern sandwiched between toughened glass

Ferro Cement lip projection

Teak wood solid door

Toughened clear glass railing

projections for 3D surface  
Ferro Concrete material

clear laminate toughened glass railing

Ferro-Cement projections

green wall

Stainless steel sliding gate with perforations



1



2



3



4



5

6

- 1 View showing the first floor entry area with a large garden and seating space. Also seen is the cantilevered balcony on the floor above.
- 2 View showing the garden, stone seating, glass railing, double ht frosted glass door with a designed grill for safety.
- 3 Ground floor entry area, with a monolithic spiral staircase that terminates at the first floor.
- 4 Terrace garden with a simple seating provision.
- 5 Skylight on the roof slab that gives a well lit staircase well.
- 6 Skylight above courtyard in one of the rooms.

**D-residence**

A 5-bedroom villa developed with the idea of splines, curves and rectilinears.

**Features:** a large double height living cum dining space, terraces garden & balconies, courtyard with flashes of green space & seating.

**SAVITHA NARAYANAN**

+91 8050995031 [India]

E-mail : [savitha1189@gmail.com](mailto:savitha1189@gmail.com)

