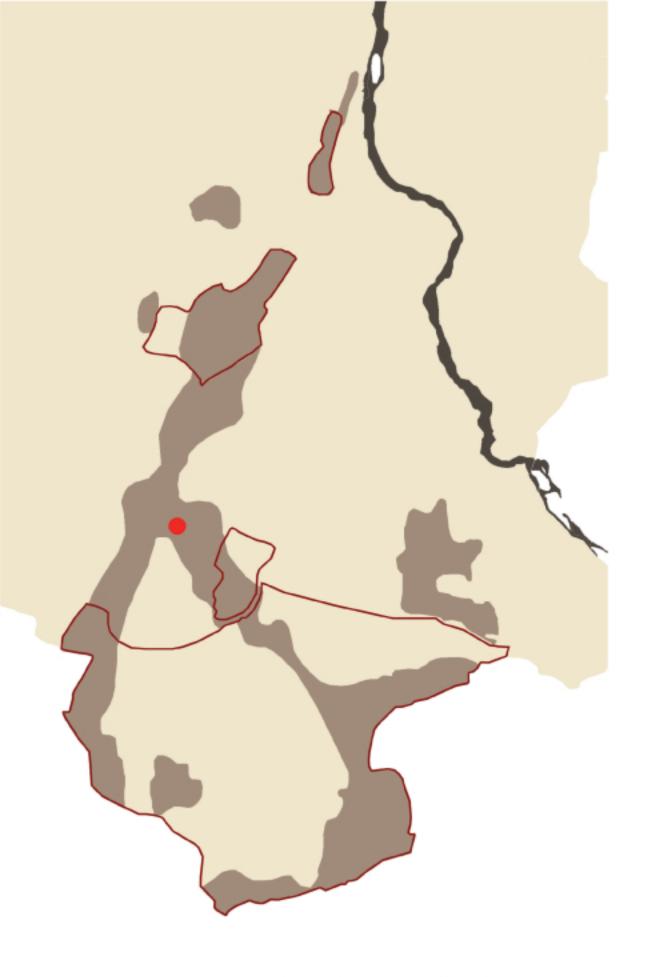


an unfettered dialogue



Low Impact Design

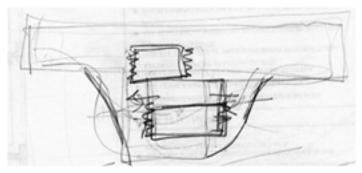
The proposal evolves on the lines of architectural intervention that protects and circumambulates the natural site features and thus incorporates them as an integral part of the design. To be able to reduce the impact of the intervention on the natural system, impervious surfaces are minimized, earth work is reduced and large extents of the site are left completely untouched by both building and thorough movement.

The design aims for "ethereal touch" through an exploration of an unrestrained dialogue between nature and proposed building. An interaction based on integration where nature is not imagined as a separate entity that needs to be either romanticized or controlled but rather is allowed its due space to thrive.



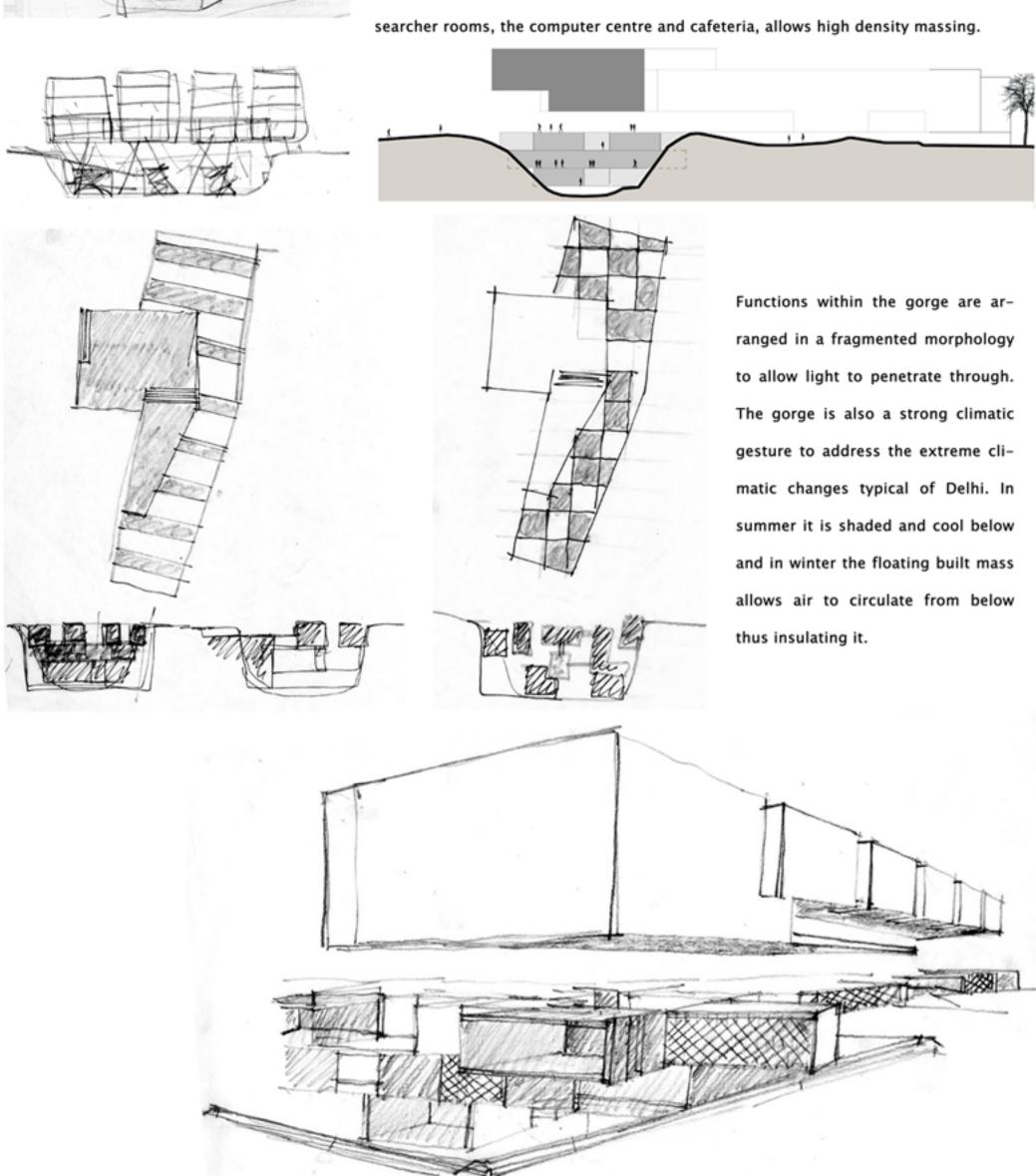
that no vehicular road cuts through site and the site is largely pedestrian. A service road runs along on the edge of site. Most building orientations are as per climatic considerations: longer edges of buildings face north/ south sides so as to be exposed to less radiation.



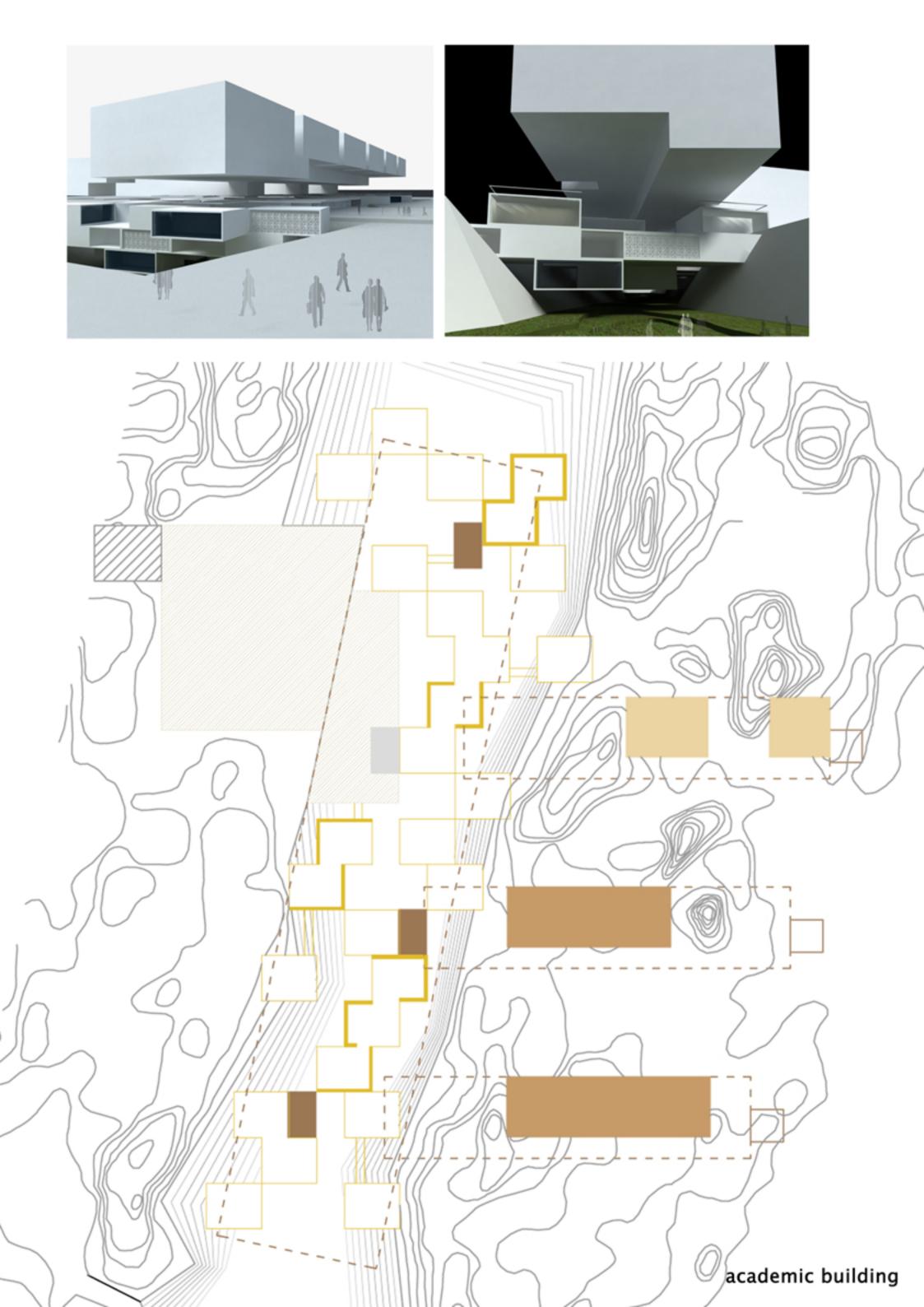


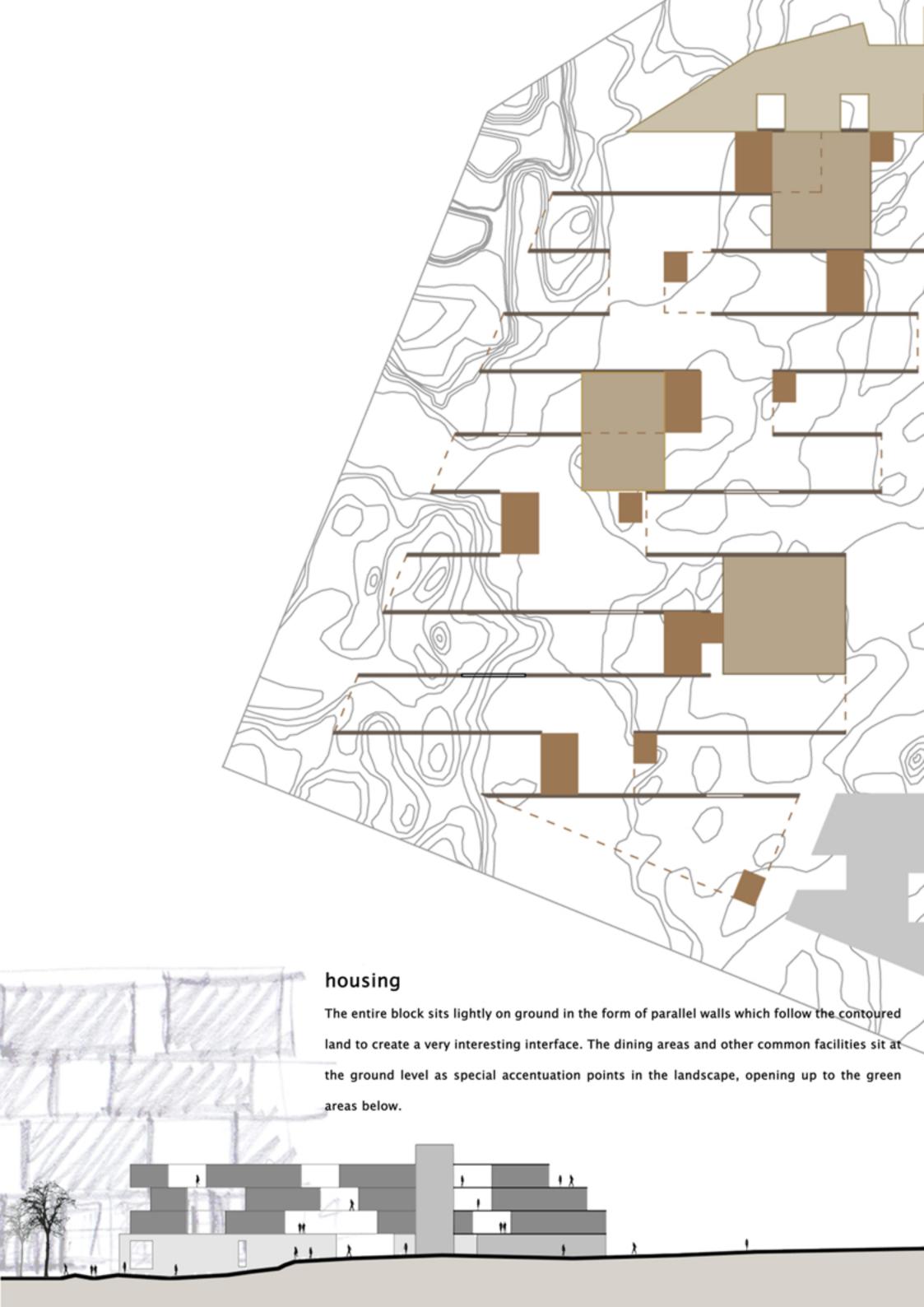
academic building

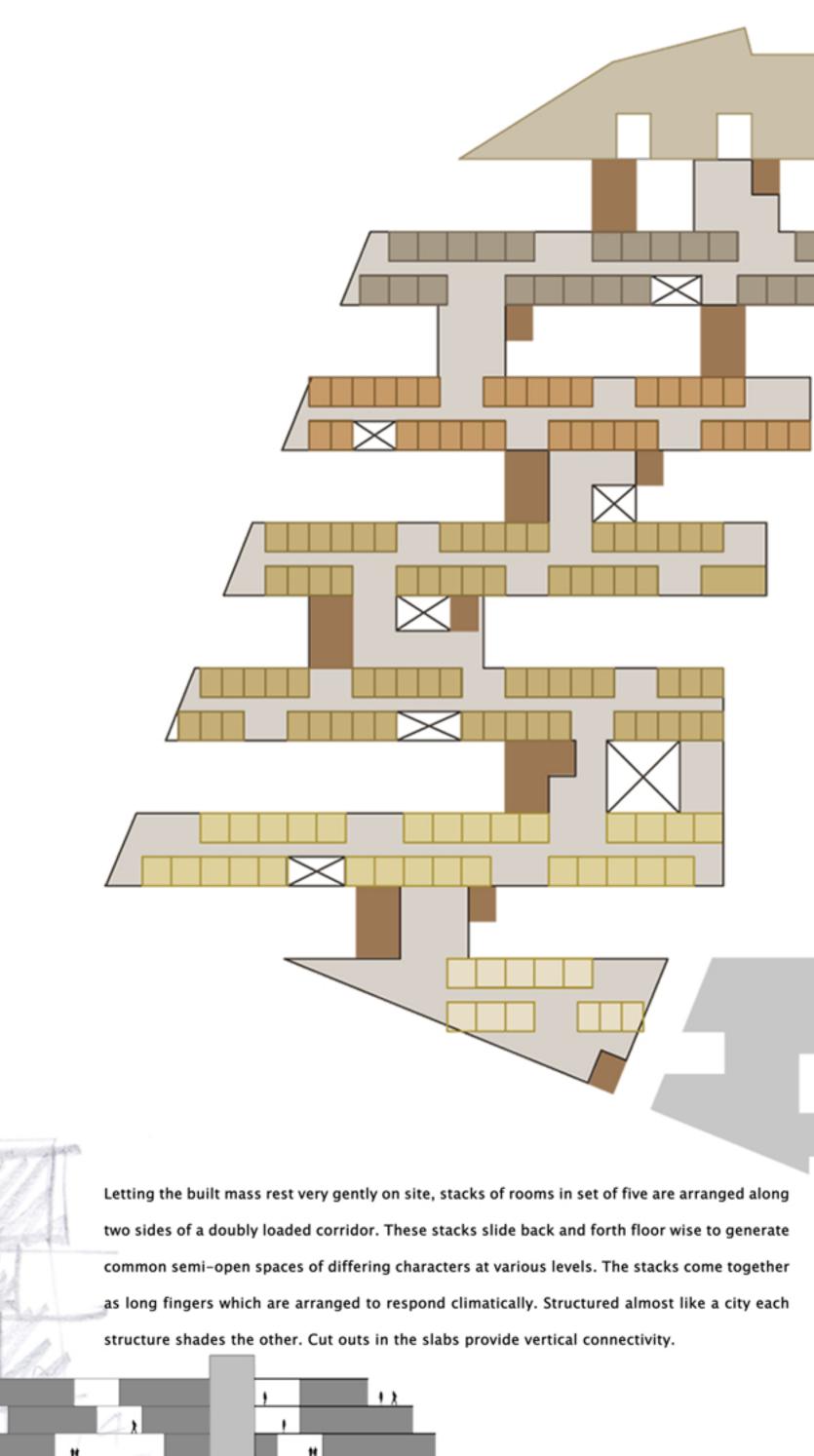
The interesting profile of the gorge on the site has been exploited to cater to the academic building. While letting the built mass rest very gently on site, stacking the gorge with the common functions such as lecture halls, the central library, faculty and researcher rooms, the computer centre and cafeteria, allows high density massing.

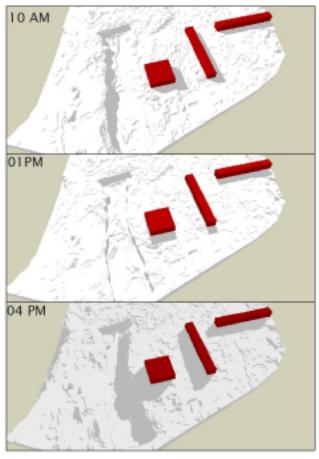


The "ZERO" level is kept unobstructed to allow for the eye to be able to scan the site without interruption. All crit rooms, labs and resource centres as well as departmental cores are stacked in a single block in the upper three floors 'floating' over the Zero level. All studios are housed in the fingers which stick perpendicularly out from main building, oriented to maximize on the natural north light. Techniques and elements such as recessed windows, shaded corridors and Jalis are to be used to address climate. These in turn play a significant role in generating the tectonic character of the building.

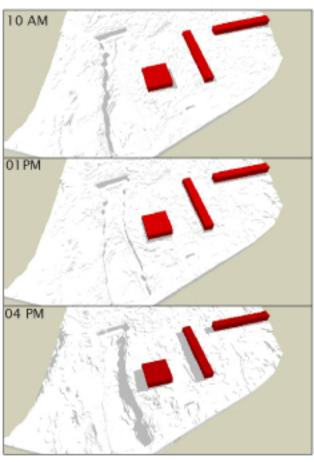




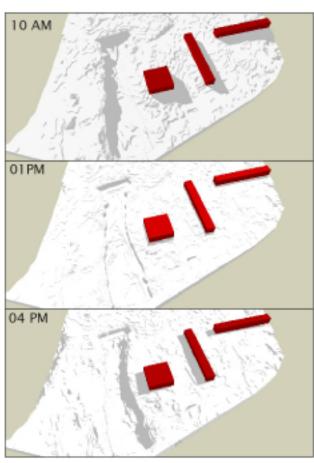




MARCH



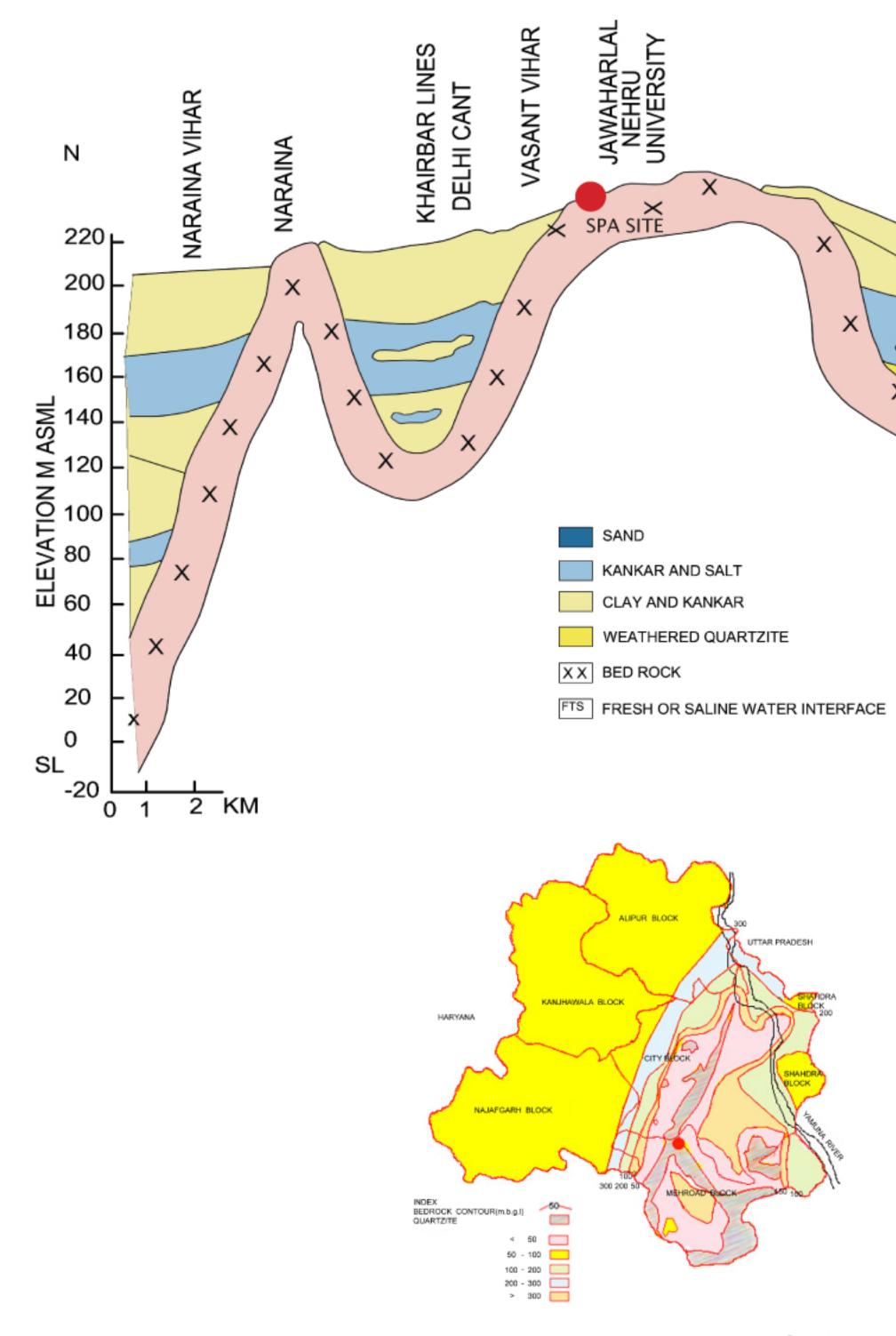
JUNE

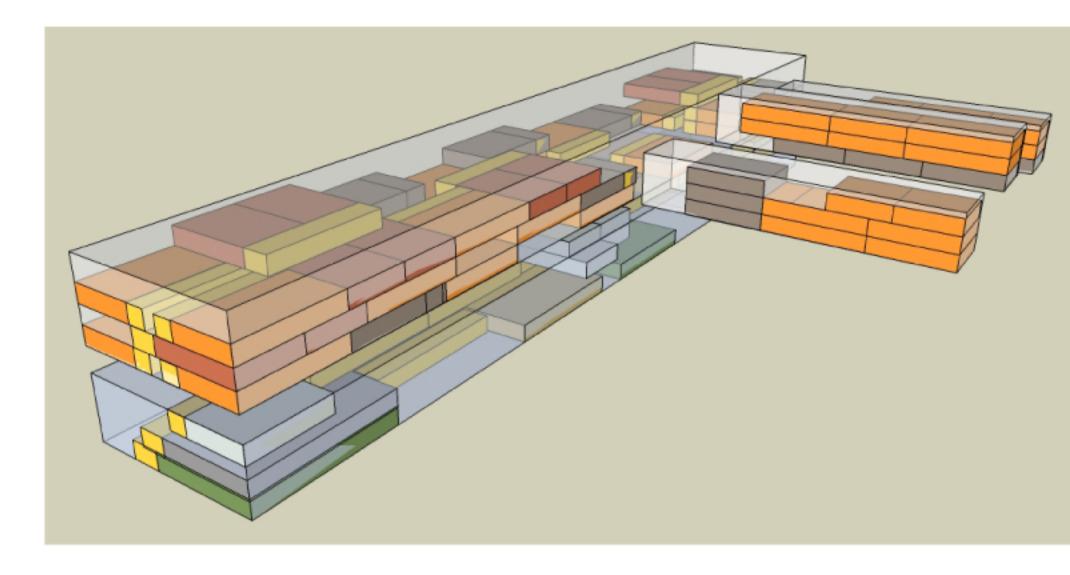


DECEMBER

Most building orientations are as per climatic considerations: linger edges of buildings face north/ sounth sides so as to be exposed to less radiation.

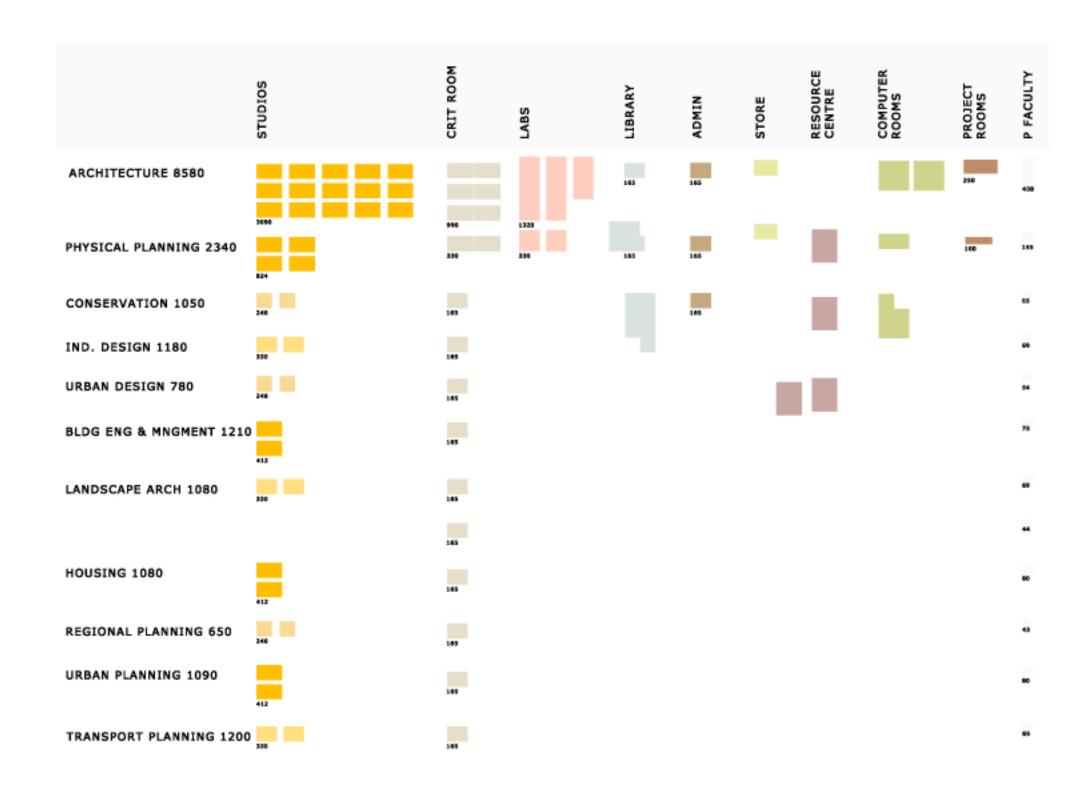
Climate

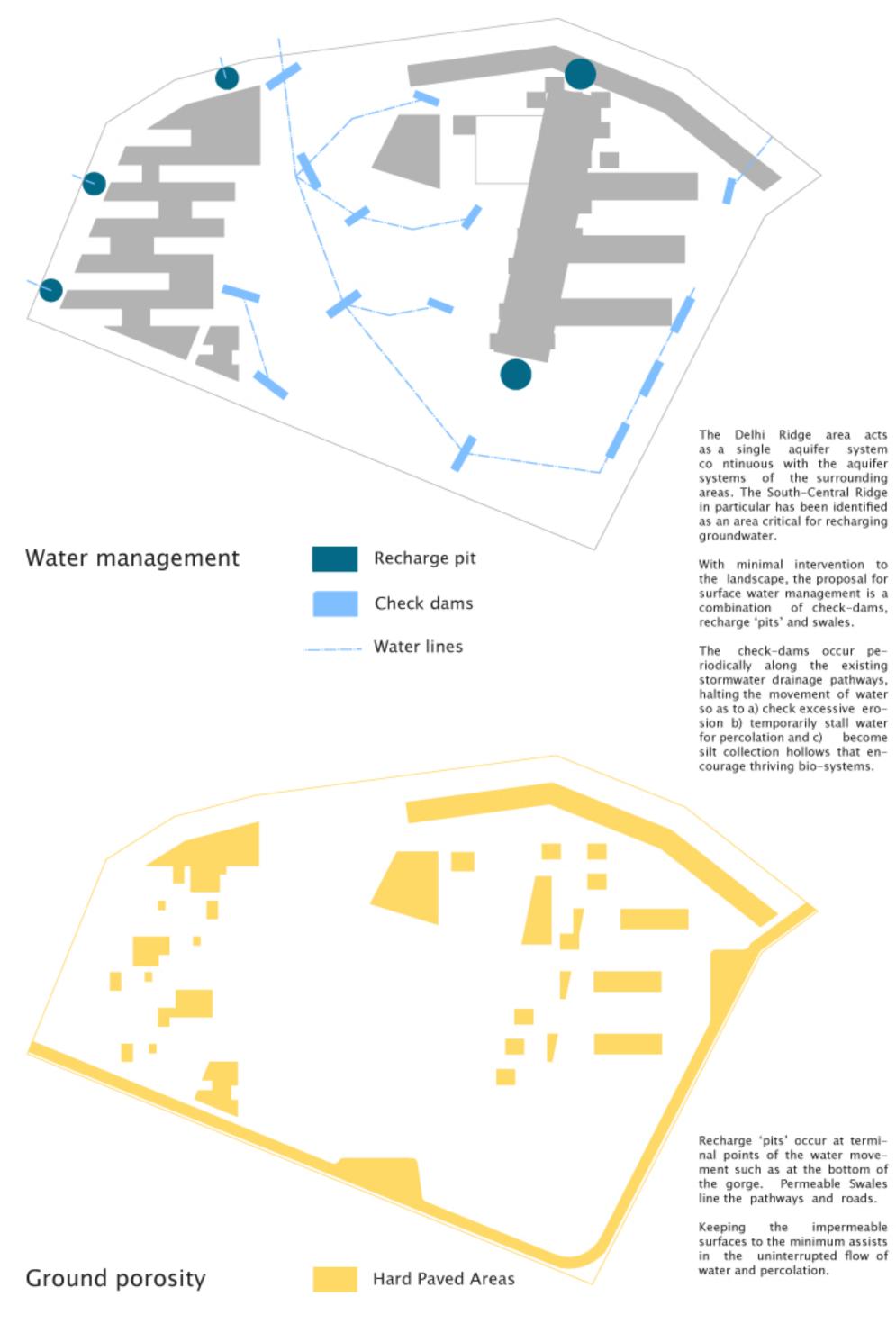




Preliminary programmatic model

Dense vertical stacking. All studios and crit rooms are arranged together to encourage interdiciplinary interaction.







At present the major flora of the site appears to comprise almost entirely of vilayati kikar, or jungle babool (prosopis juliflora).

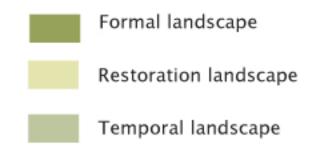
This exotic plant has been identified as an invasive pest and widely held responsible for the rapid desertification of the Aravallis (including the Delhi ridge) as well as the colonization of landscapes across the sub-continent. Initially introduced to aid the process of afforestation because of its fast growth and hardiness, its lack of natural pests has made its spread unclecked.

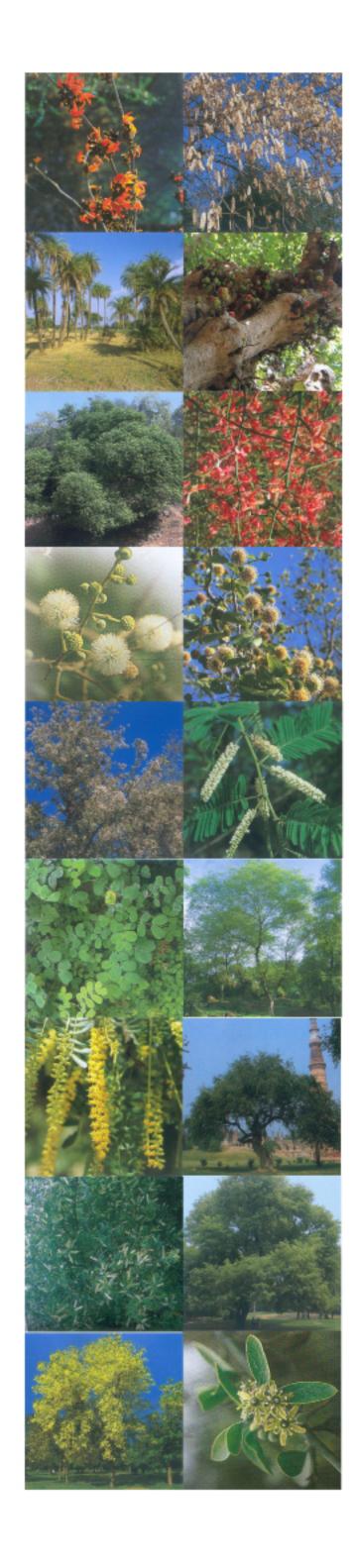
It can take root almost everywhere and go down deep about 15 metres, sucking dry ground water aquifers. It also dries up the moisture of the surface soil, devastating sub-soil chemistry and hindering the growth of native plants. Its lack of established relationships with other species of the local ecosystem also makes it a poor candidate for bio-diversity restoration.

Further, considering that its felling has been strongly recommended and partially executed in the adjoining Aravalli Bio-diversity Park, there is a strong case for its removal from the site as well.



The landscape strategy looks at long-term ecological restoration of the site.





The recommended flora of the site primarily consists of species native to Delhi and specifically the Ridge.

Trees:

Goolar Ficus racemosa Chamrod Ehretia laevis Bistendu Diospyros cordifolia Dhau Anogeissus pendula Peelu Salvadora persica Kaim Mitragyna parvifolia Kareel Cappari decidua Hingot Balanites roxburghii Dhak Butea monosperma Amaltas Cassia fistula Shisham Dalbergia sissoo Acacia leucophloea Ronjh Phulai Acacia modesta Kumttha Acacia senegal Jhand Prosopis cineraria Albizia lebbeck Siris Khajoor Phoenix sylvestris

Shrubs

Capparis sepiaria C.deciduas Zizyphus aenoplia Croton sparaiflorus

Herbs

Calotropis procera
Withania somnifera
Achyranthes aspera
Tridax sp.
Alysicarpus vaginalis
Peistrophe bicalyculata.

Grasses

Cenchrus ciliaris Aristida sp. Eragrostis poaeioides Saccharum spontaneum

Timeline

It is possible to reconstruct the history of the site on the basis of available information about the Delhi Ridge in general and more specifically the Mehrauli section of the ridge.

- Original vegetation type	Dry deciduous or thorny brush.
– 14th century	Afforestation is carried out on the ridge by Emperor Firoz Tughlaq for hunting purposes
– late 19th century	Large swathes of the Ridge are lost to colonial expansion
- 1913	Part of ridge is declared Reserve Forest under Indian Forest Act, 1878
- 1970s	Great dismantling of the Ridge after independence, as exploding population and spreading suburbs push south of city sections of the ridge leased to private companies for stone quarrying lead to further devastation
- 1990s	The Aravalis are also protected by the 1994 Aravali Fragile Area Notification Sections of the ridge declared as No Development zones. Mining and urban expansion stopped.

The gorge or canyon on the site in other words has been witness to a number of human interventions over time. Its apparently picturesque 'naturalness' then is open to question and it is clearly a manufactured feature of the landscape.

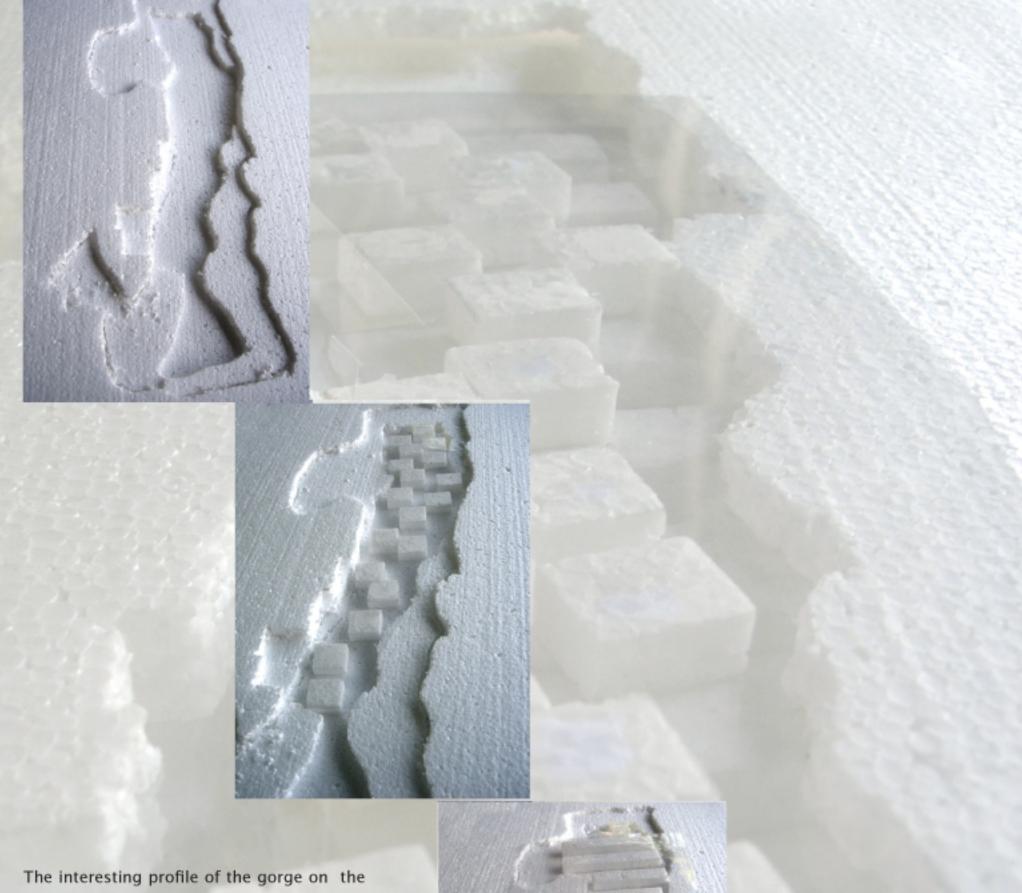
This understanding allows us to approach it without romanticism and intervene in it if it serves the larger purpose of restoration of the ecology of the site.

The Gorge





The Gorge



The interesting profile of the gorge on the site has been exploited to cater to the acedamic building. While letting the built mass rest very gently on site, stacking the gorge with the common functions such as lecture halls, the central liberary, faculty and researcher rooms, the computer centre and cafeteria, allows high density massing. Functions within the gorge are arranged in a fragmented morphology to allow light to penetrate through. The gorge is also a strong climatic intent to address the extreme climatic changes typical of Delhi. In summer it is shaded and cool below and in winter the floating built mass allows air to circulate from below thus insulating it.



