

PORTFOLIO



ARCHITECTURAL DESIGN

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| KATHMANDU ENGINEERING COLLEGE |

| SELECTED WORKS 2014-2019 |

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UNDERGRADUATE PROJECT

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PLANNING

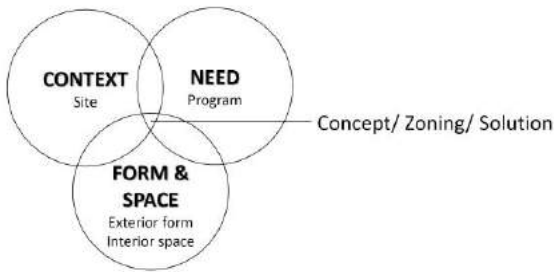
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PRACTICUM

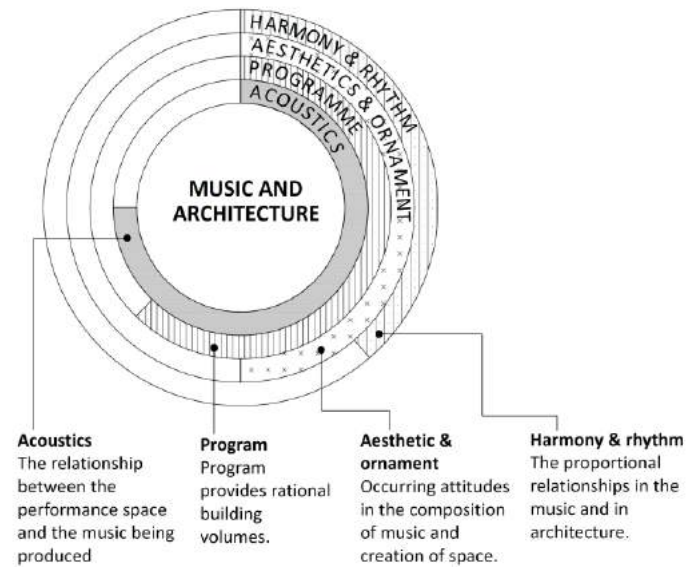
| Project brief:

Final year undergraduate academic thesis project titled “Orchestration and Vocal Institute”, is a vision for the country to develop an institute which is musically, environmentally and acoustically ideal for orchestra and vocal practices and teaching.

| Concept Development



“I CALL ARCHITECTURE FROZEN MUSIC” - GOETHE



| DESIGN CONCEPT: SUBLIME

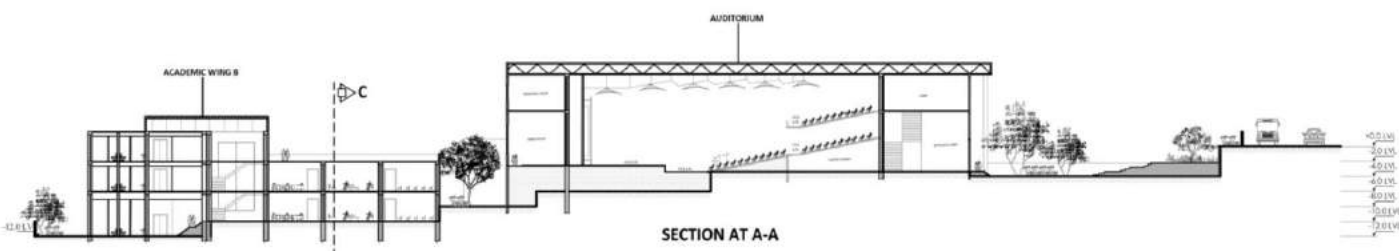
To create a space for learning and performance, where the “sublime moment” of musicians performance can be matched or even enhanced by the additional design of the complex



| Site Plan



The core idea of orchestration and vocal institute is to enable children and youths from all backgrounds and every part of Nepal to have opportunities to learn any musical instrument, to make music with others, to learn, to sing and to have the opportunity to progress to the next level of excellence





Skylight effect in the interior. Skylight opening towards north to let in the diffused light

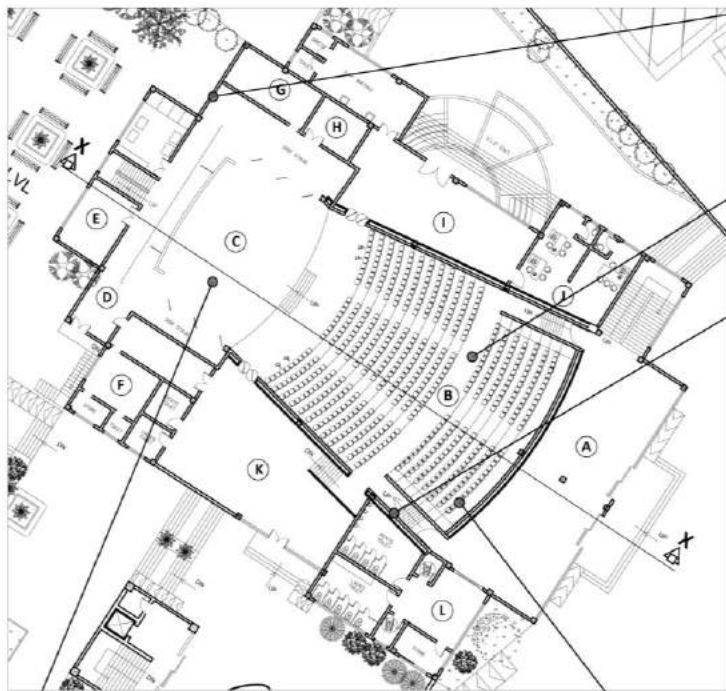


Façade design in response to solar radiation



Interactive spaces between buildings. Amphitheatre design including exterior music practice area

ACOUSTICAL CONSIDERATIONS



HEAVY CURTAIN HUNG IN FOLD AGAINST SOLID WALL

THICK PILES CARPET,
HEAVY ON REINFORCED CONCRETE

ROCK WOOL 30MM, OVER 300MM AIR GAP

LEGEND:

- A. ENTRY LOBBY
- B. SEATING
- C. ORCHESTRA PIT
- D. BACK STAGE
- E. GREEN ROOM
- F. SOUND AND LIGHT ROOM
- G. STORE
- H. AUDIO VISUAL ROOM
- I. VIP LOBBY
- J. OFFICE
- K. ARTISTS/ VISITORS LOBBY
- L. WASHROOM AREA

AUDITORIUM UNIT

TIMBER FLOOR ON JOISTS

UPHOLSTERED TIE UP THEATRE SEATS



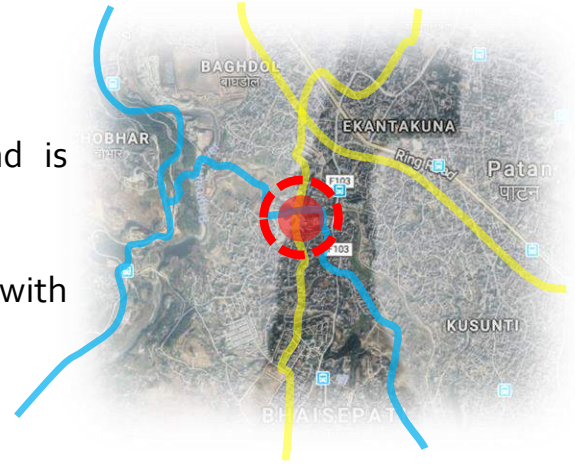
| CONCEPT : BUILD IT UP FROM THE ASHES

| SITE CONTEXT

Site: Nakhu; Nakhu River is next to Sainbu and is located in Bagmati Zone, Central Region, Nepal.

Length of river : 3.79kilometres

Land uses : Primarily industrial and commercial with some residential

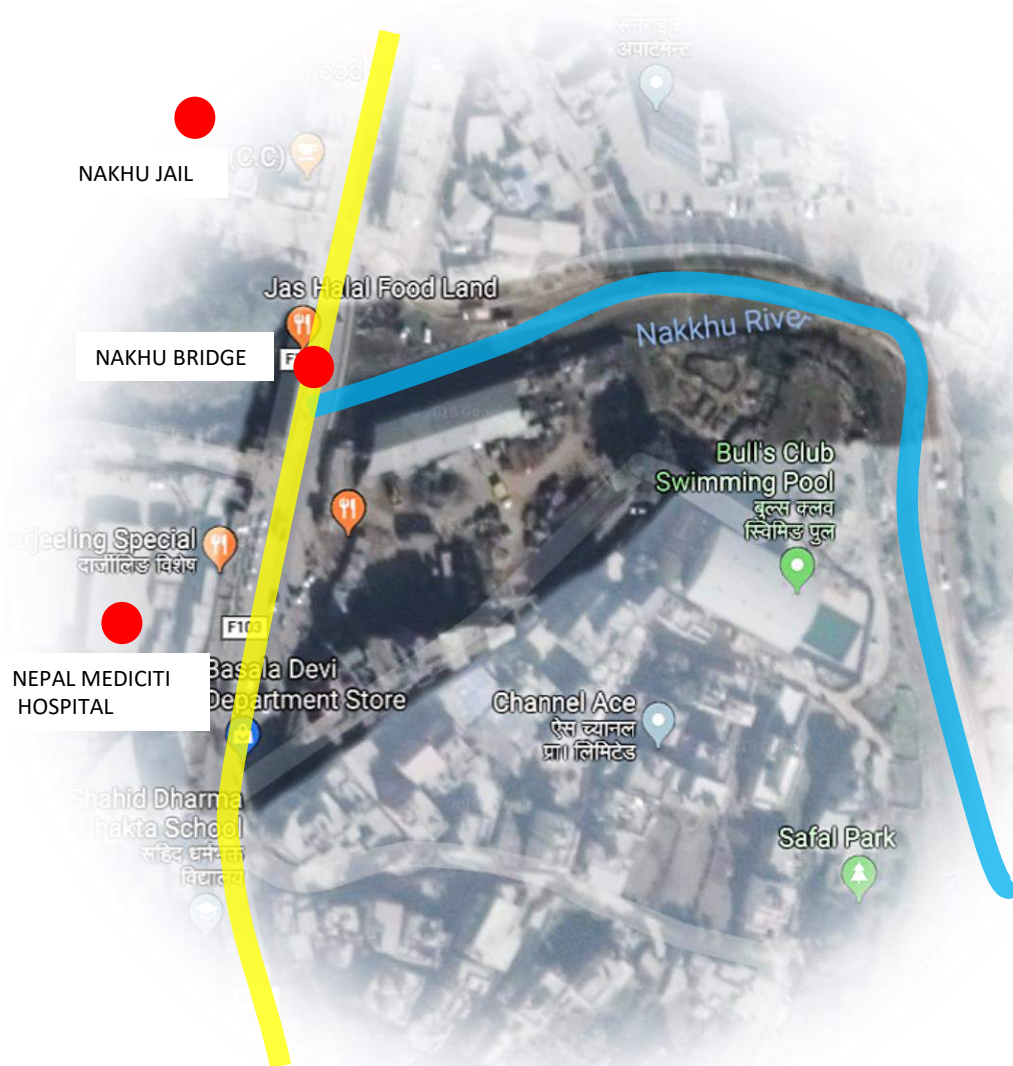


The objective of Nakhu river redevelopment project is to develop a water front site as a first-rate destination downtown park surrounded by high quality mixed use development to create a vibrant urban environment.

Conceptual 3D views showing an accessible waterfront trail



During the monsoons, considering the damage that could be caused due to the increment of water level of Nakhu river, we have designed a buffer space and also some accessible waterfront trail using retaining walls and greenery.



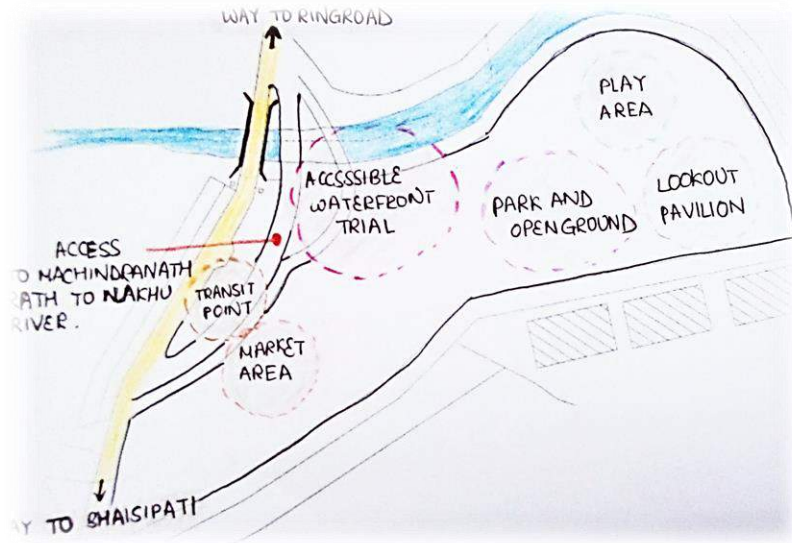
Depleted condition of the street due to unmanaged street design, parking and unintentional vegetation growth.



Sections of the streets used as market areas and parking. Lack of sidewalks and street amenities.

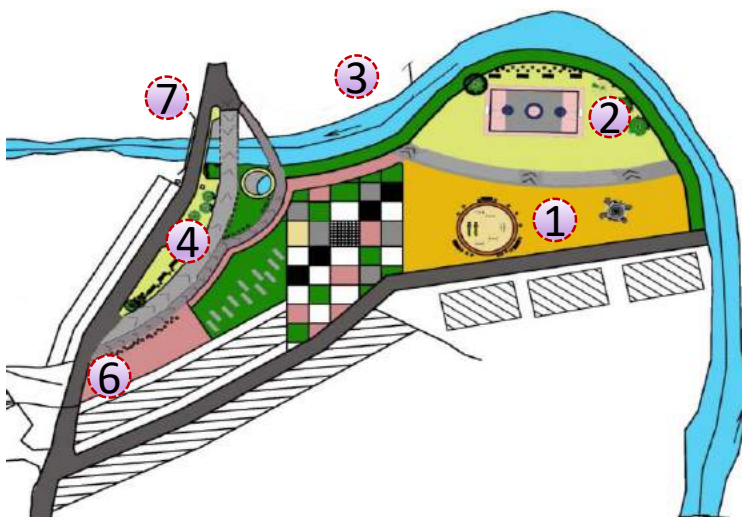
| CONCEPT : BUILD IT UP FROM THE ASHES

Conceptual Planning



Nakhu chowk is one of the main transitional point which gives access to different satellite towns such as Bungamati, Bhaisipati, Khokana etc. The main idea of urban renewal in this site is to provide a high quality transitional point with waterfront sites and market place. The area is surrounded by rising infrastructures such as hospitals, sports centers, apartments etc.

The concept of Nakhu chowk redevelopment is to provide a lively multipurpose open area with existing commercial area focusing on waterfront development.



- 1 – Play area, amphitheater
- 2 – Basketball court, accessible waterfront trail
- 3 – Nakhu river
- 4 – Bus station, road giving access to Rato Machindranath up to river
- 5 – Multipurpose open area, chess board and water fountains
- 6 – Market area
- 7 – Nakhu bridge



Creating a vibrant and live active environment through integration of sense of place by designing a larger scale of chessboard.



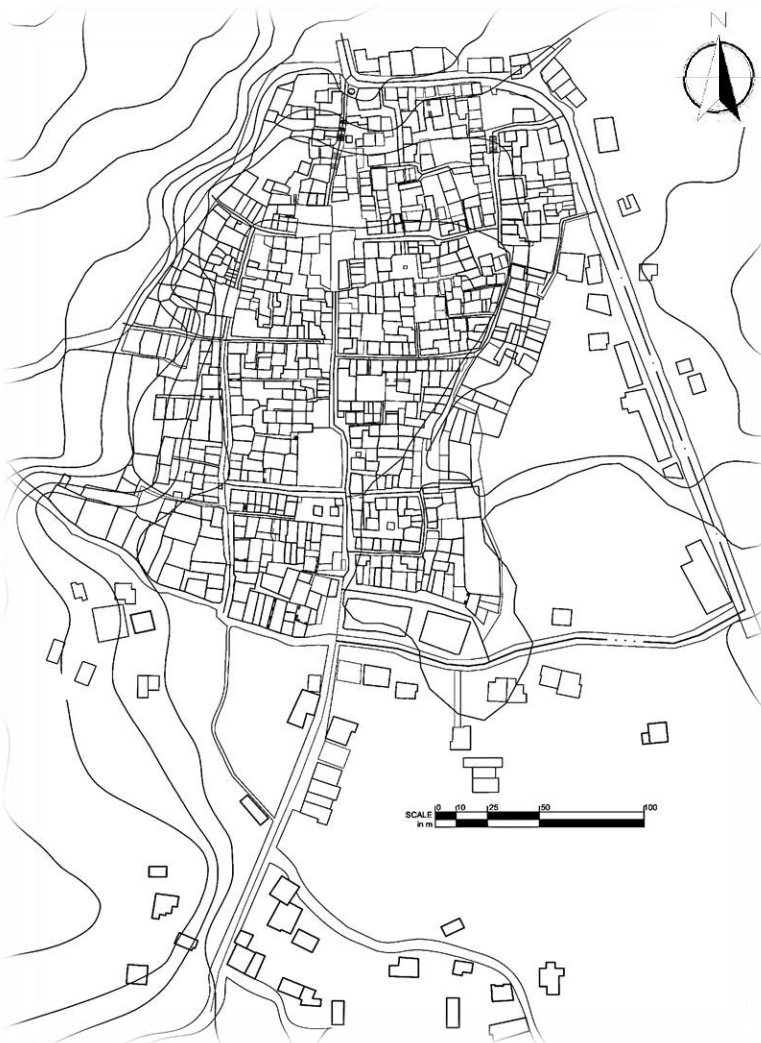
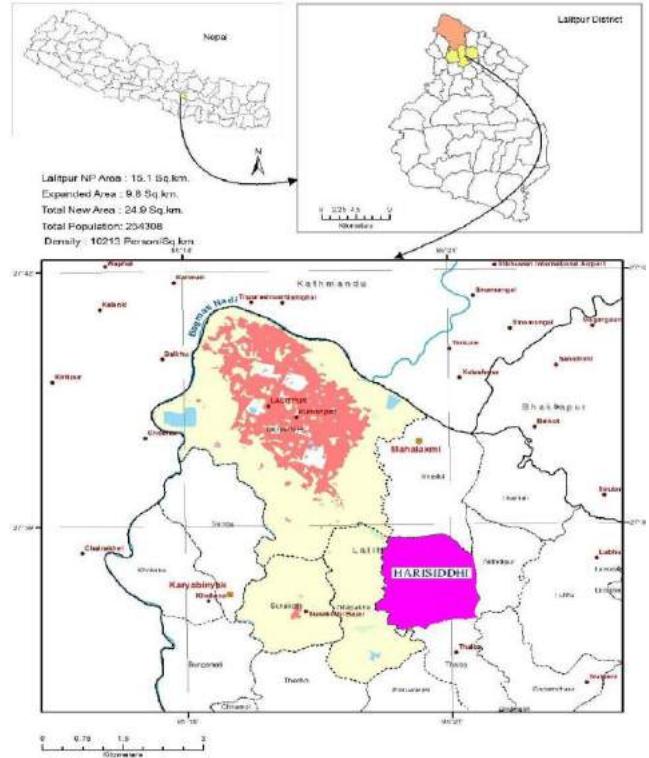
Transforming the present scenario with designing according to the need of a bus stop and integration of street amenities and side walks.



Urban renewal of the chowk by well designed vegetation patterns, multipurpose street sections, etc.

| **Project Brief:**

Harisiddhi is one of the oldest Newari settlement, about 8km far from the capital city of Nepal, on the way to south-east Godavari forest. Harisiddhi being on the verge of identity crisis and destruction of existing heritages, we analyzed the issues and proposed the solutions in such a way that the heritages are not compromised. Conservation was needed to control the unmanaged development.

| **Methodology**

1. Site selection
2. Preparation of check list
3. Sampling method
4. Data handling
5. Data analysis
6. Drafting
7. Preparation of base map

| **Preparation of base map**

Surveyed houses were plotted using AutoCAD. Tracking was done from GPS logger. MS Excel was used to enter collected data. Cad drawing and data were synced.

| CONCEPT : SUSTAINABLE DEVELOPMENT AND CULTURAL PROSPERITY

Heritage walk starting point



LEGENDS:

Economic Development:

- 1.1 Landmark/Drop Off Zone
- 1.2 Oil Mil
- 1.3 Saafa Chowk
- 1.4 Tah: Nani Homestay
- 1.5 Market Area
- 1.6 Kwarra Nani Alcohol Production
- 1.7 Waterfront Bed And Breakfast
- 1.8 Parking/Bus Stop
- 1.9 Souvenir Shop

Social Development:

- 2.1 Krishna Dyo Chowk
- 2.2 Community Center
- 2.3 Lachhi Preservation
- 2.4 Dalachhi Preservation
- 2.5 Enany Nani: Museum
- 2.6 Niba Preservation
- 2.7 Memorial Park

Environmental Development:

- 3.1 Pukhu (Pond) Conservation
- 3.2 Solid Waste Treatment Plant

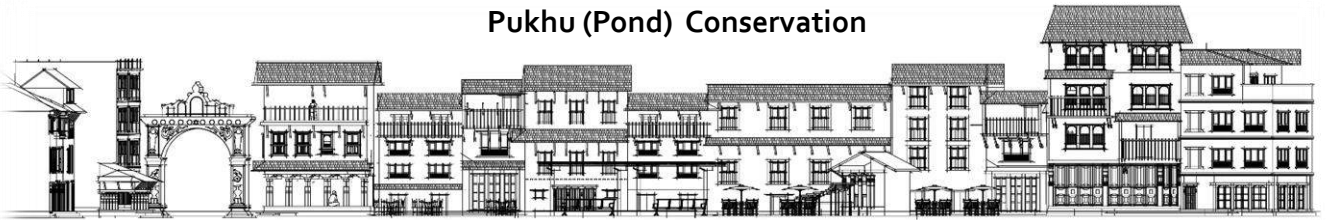
| PROPOSED PLANS

The current design proposes various developments in different sectors to achieve the goal of **sustainable development and cultural prosperity**. So, a proposal was made in which the traditional route was converted into a heritage walk route going through the gates and main attraction points of the settlement. This allowed the revival of the old settlement, their ways and their traditions.

| OLD SETTLEMENT VS PROPOSED SETTLEMENT



Pukhu (Pond) Conservation



Stretch Elevation



- Provision of water supply tank
- Play area for children
- Memorial statue
- Recreational activity area
- Rehabilitation of crematorium



Proposed plan of memorial park designed in the memory of people who lost their lives in the earthquake of 2015

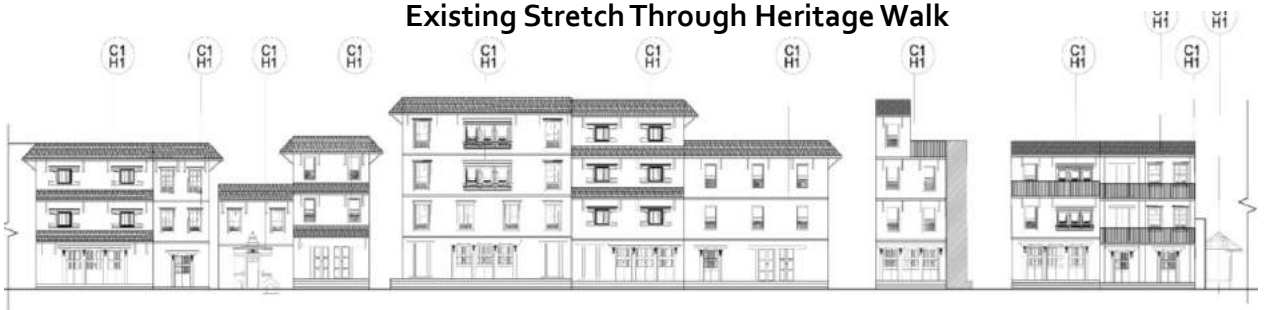




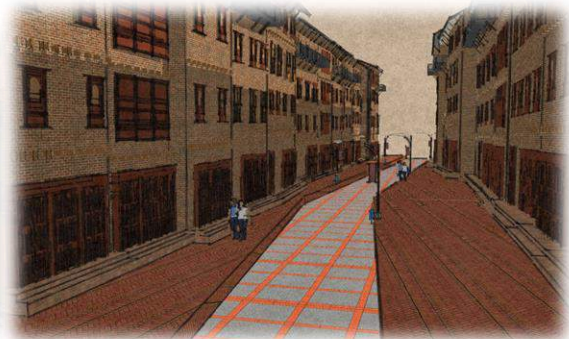
Drop Off Zone



Existing Stretch Through Heritage Walk



Proposed Stretch Through Heritage Walk



| CONCEPT : DESIGNING THE NEED

| SITE CONTEXT

Site: Phewa Lake, Pokhara, Nepal

Phewa lake is a freshwater lake in Nepal located in the south of the Pokhara valley. It is the second largest lake in Nepal. It is the most popular and most visited lake of Nepal.

| CONCEPTUAL APPROACH

The design for Phewa lake is based on curvilinear approach.

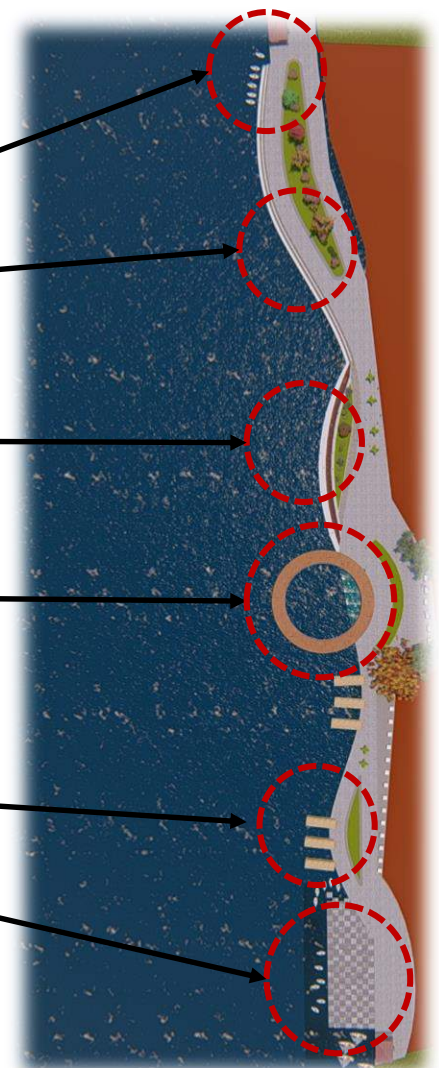
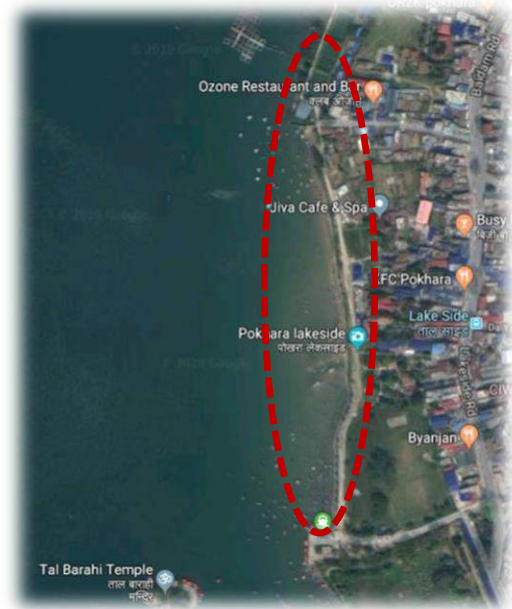
Curvilinear form are created from underlying geometry. This design has a characteristics of graceful, sensual, serene and soft flowing elements for creating non traditional design.

The circular pattern has been used as central attraction.

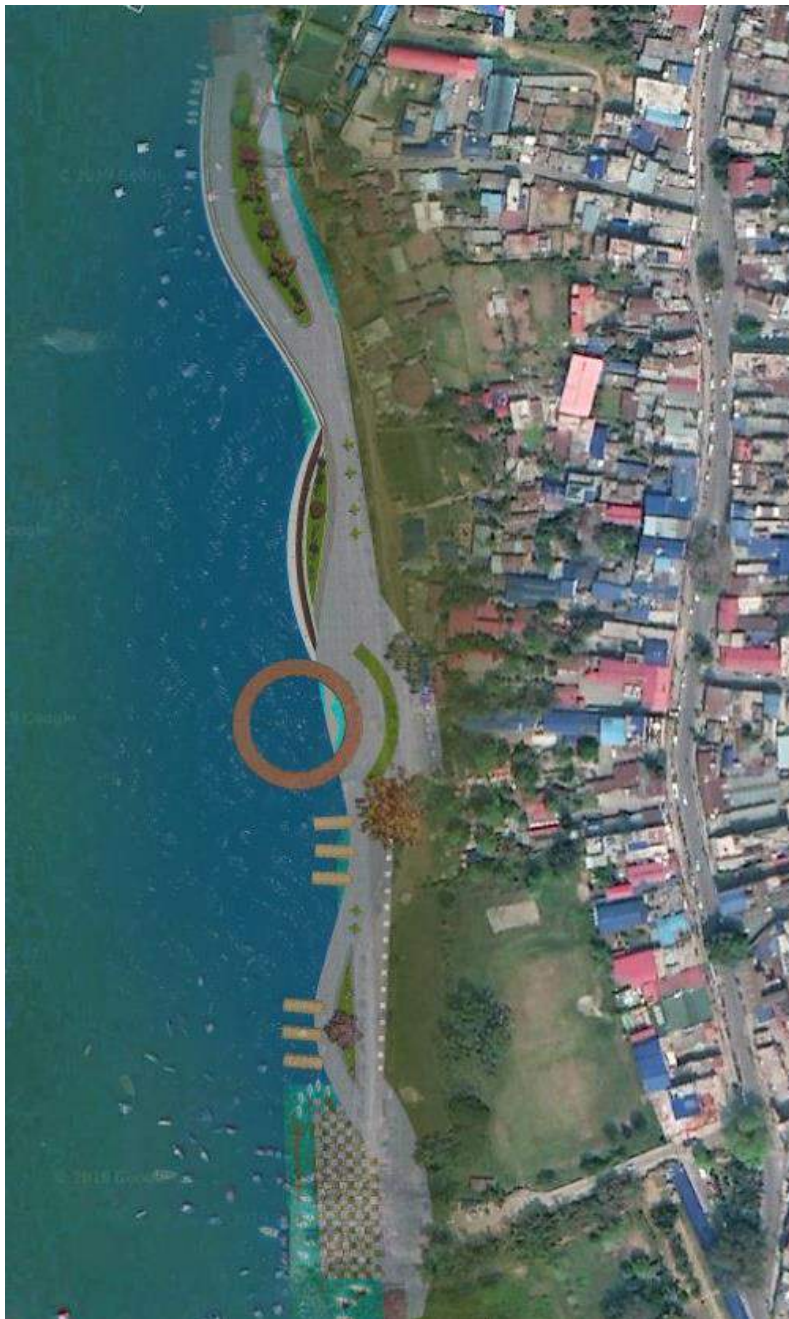
Principle of architecture FOCUS



- Ticket counter and boat station
- Stepped seating providing access to the lake
- Solar PV cells incorporated in seating in the form of tree
- Circular access which functions as a pathway along with the provision of swimming within
- Viewing deck
- Access to the lake and boats through checkered steps to create certain drama



| CONCEPT : DESIGNING THE NEED



MASTER PLAN

| LAKE'S ECONOMY

Phewa lake and water sports is one of the major tourist attraction of Pokhara city and the north shore of the lake has developed into a tourist district, commonly called Lake-Side, with hotels, restaurants and bars catering to the tourists. A part of the lake is also used as commercial caged fisheries.



Viewing deck accessible from the sidewalks



Solar PV cells incorporated in the seating space in the form of a tree



Relaxing space with lake view

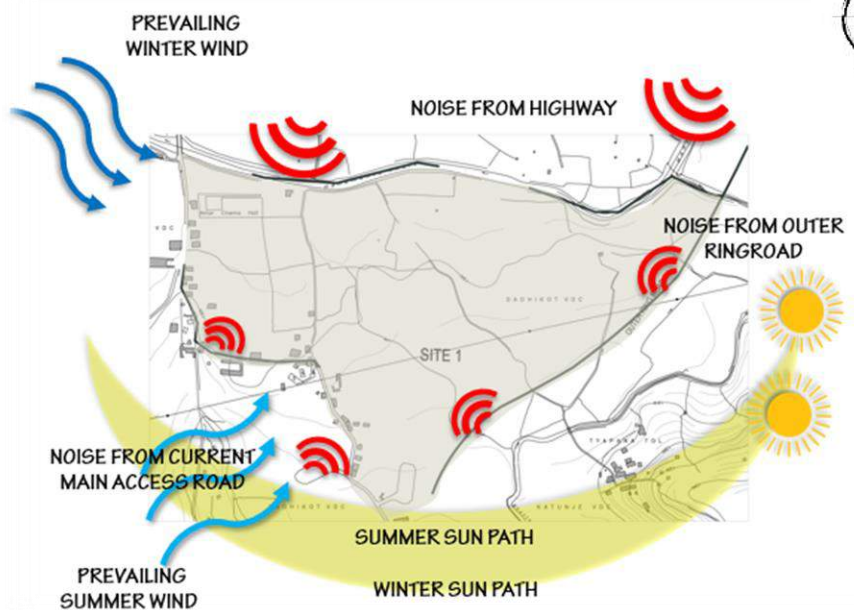


View of the circular access to the lake and swimming space

| CONCEPT : UNITY IN HEALTHY COMMUNITY

| Project Brief:

Urban planning (urban, city, and town planning) is a technical and political process concerned with the control of the use of land and design of the urban environment, including transportation networks. The site provided for neighborhood planning is located in the Dadhikot Municipality, of the Bhaktapur District. The site spreads over an area of 558-0-0-0.

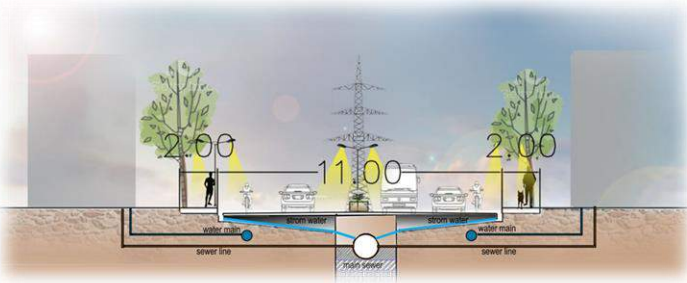


सहभाव : UNITY IN HEALTHY COMMUNITY

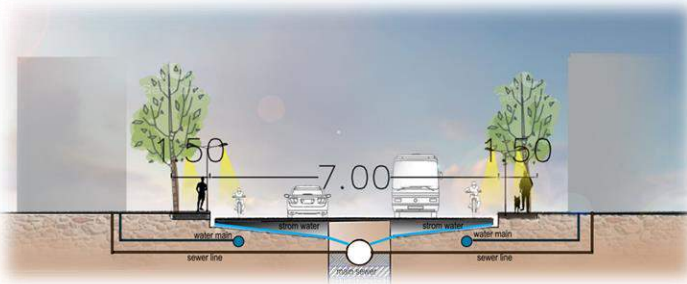
MASTERPLAN



| ROAD DETAIL



Primary road

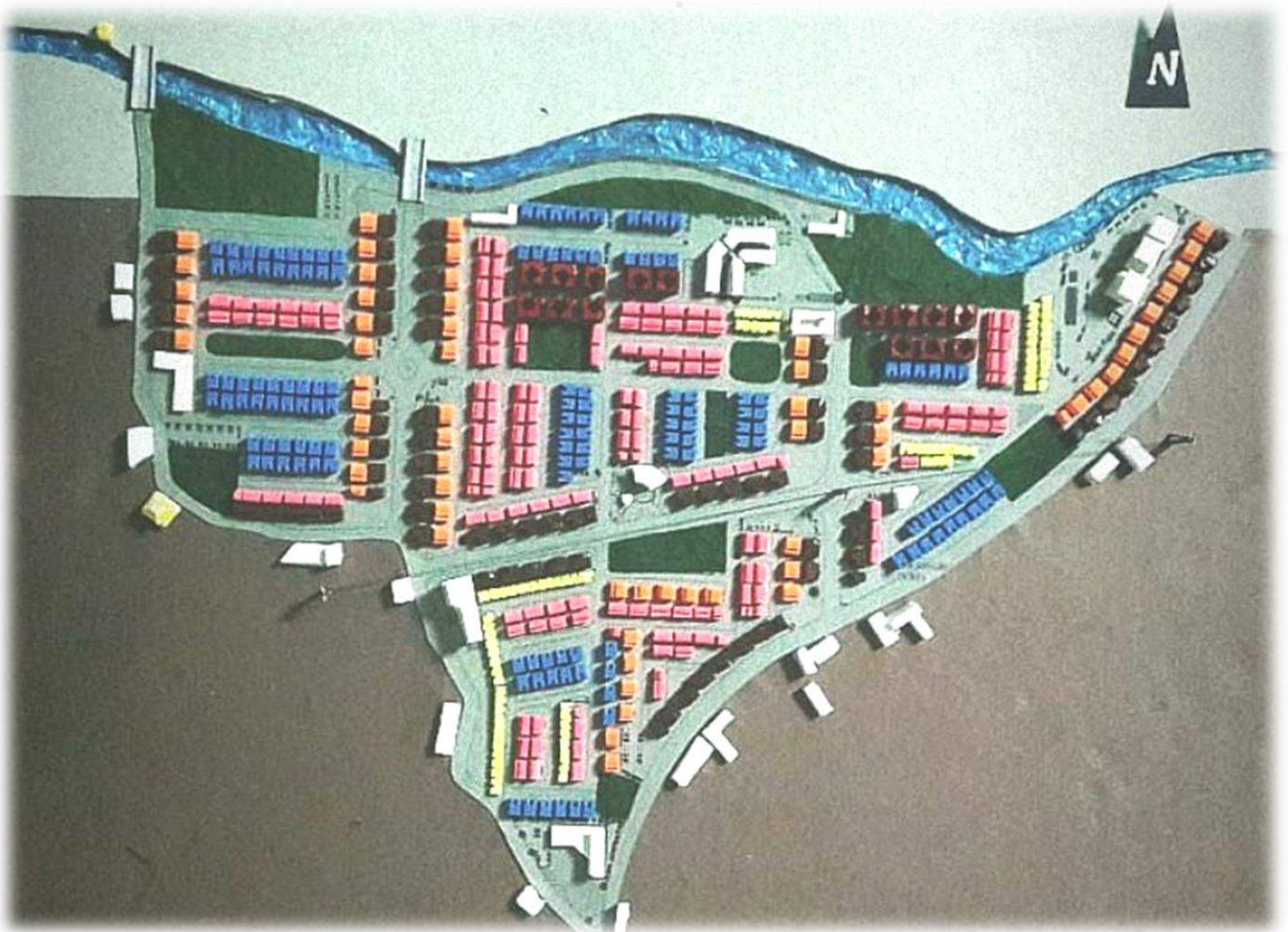


Collector road



Roundabout design:

Roundabout are safe and efficient, but they are not the ideal solution for every intersection. We look at various factors when deciding to build a roundabout at a specific intersection.

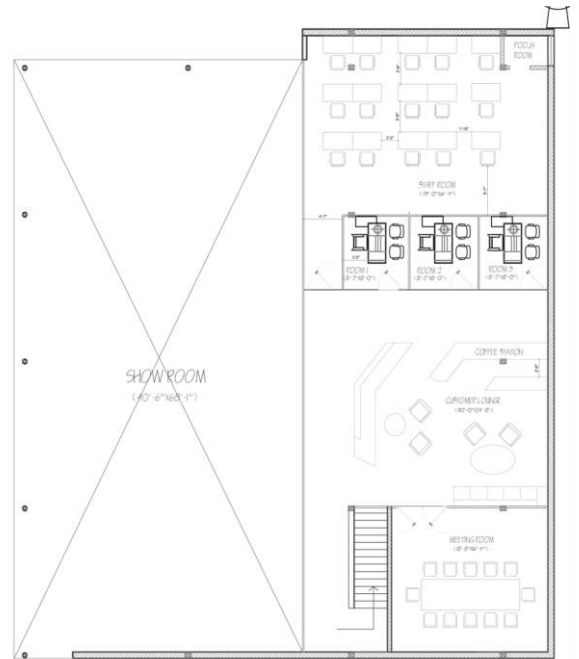
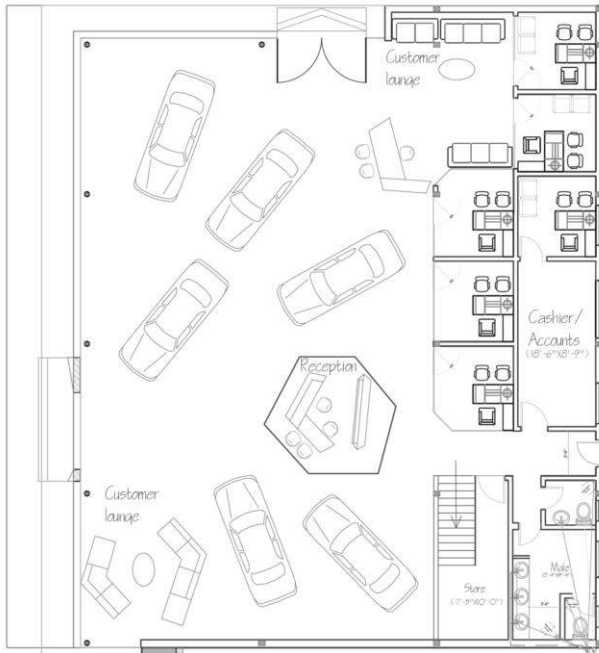


Final Model : Neighborhood Planning

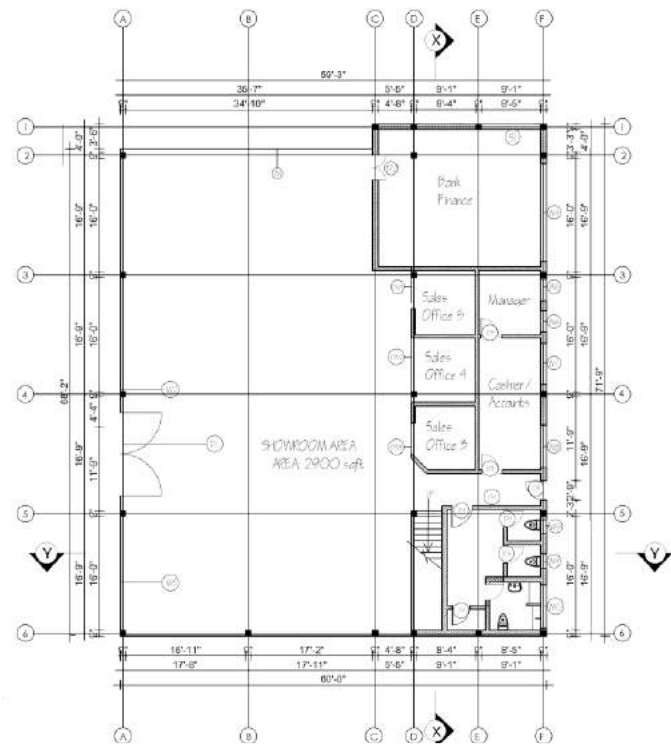
| Project brief:

Hyundai is currently a key player in Passenger Car Segment in Nepalese automobile market. They have several showrooms in Nepal. One of the latest showrooms is located in Naxal, Kathmandu which was completed in 2017.

| Conceptual Plans:



Final set of architectural drawings were prepared according to the design manual of Hyundai. The complete set including, electrical and sanitary as well as structural drawings along with 3d views were handed to the client. Continuous site supervisions were made until the project was fully completed.



Currently running as a state-of-art showrooms and technologically-superior after sales service facilities which are at par with Hyundai's global standard.

| Interior of bedroom



| Renders practices for various interiors



In conclusion, these works are a reflection of all my learning in all these years of architectural school and works beside that. These works are the selected works of mine which shows the growth from every phase of my journey ; from the early years of learning to the completion of my thesis

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