

Acknowledgments

I would like to thank the following:

- My late father for all his support and constant encouragement to always strive to do better and be the best I can be.*
- The rest of my family who assisted me through thick and thin.*
- The lecturers and staff members of the Department of Architecture of the University of the Free State. I'll forever be grateful for the lessons I've learnt through the years.*
- My friends and fellow students*

Title of dissertation: *New Regional Headquarters for the Government Institutions Pension Fund (GIPF) and office park in Katima Mulilo.*

Shift/Transformation of Identity through Spatial Evolution.

The dissertation is submitted in partial fulfilment of the requirements for the degree M. Arch. (Prof).

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Declaration of original authorship

All the work contained in this document is my own except where otherwise acknowledged.

Preamble

This dissertation aims at investigating the existing townscape and repairing the hidden bonds that have been severed. The use of architecture sensitively will reignite a series of chain reactions that ultimately result in spatial arrangements that define space and result in the positive identification of place.

Through the analysis of the macro, meso, micro and historical contexts of the Zambezi region as well as Katima Mulilo, specific contextual catalysts were identified and used to understand as well as to decipher the everyday dialogue between:

- Rural vs Urban,
- Nature vs Built environment,
- Built environment vs Man and
- Contemporary vs Traditional.

The coded message was then revealed and embedded into the architectural language as part of the solution to the question.

Most small towns across Namibia are still in their infancy with regard to urbanisation and rely on the rural user for their growth and development and are being designed using models that are not suitable for their contexts. As a result, the bonds that link these clusters of communities are eradicated and buried by more global, economic links that alienate and create divisions among the community. Government institutional buildings are the epitome of social centres aimed at the unification of different communities regardless of creed or colour and thus will be the building typology under investigation in this dissertation.

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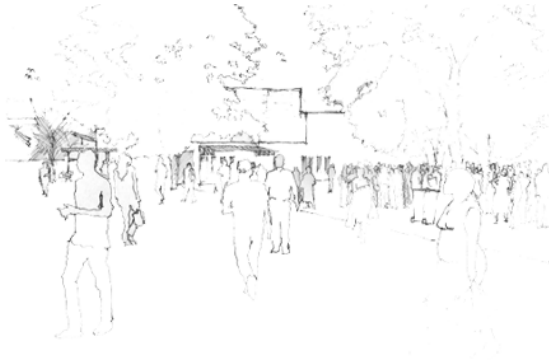
	PART 1 Problem Statements	PART 2 Components of Research
	<i>"The dominant picture of African architecture still current today is split into two worlds... On one hand, there is the architecture imported from Europe as part of the modernist project, and on the other the cultural anthropologist' romanticized image of the primitive native hut." (Folker, 2010: 14)</i>	<p>Conceptual framework: This framework is designed to assist in making decisions and taking actions that are justified as well as unique to the context. Connecting to the existing townscape & finding the appropriate location for the new headquarters are some of the few objectives that are to be achieved in this dissertation. Keywords identified with this conceptual framework are:</p> <ul style="list-style-type: none"> - Identity - Layering - Catalyst - Activation - Weaving
Typology (what)	<p>Government Institution Pension Fund (GIPF - client) – Headquarters for the Zambezi region</p> <ul style="list-style-type: none"> - Location, - Limited space & - Struggle to reach user-client's to provide their service. <p>The user-client consists mainly of pensioners in the form of:</p> <ul style="list-style-type: none"> - The elderly & orphans staying in the Zambezi region. - Larger percentage reside in rural areas. - Rest of interested community also welcome. <p>They sometimes travel long distances to come into town for:</p> <ul style="list-style-type: none"> - Grocery & clothing shopping, - Medical checkups amongst other activities. <p>These activities are mostly done at the end of the month when the town is full and crowded. Can spatial arrangement help alleviate the feeling of congestion in and around the building?</p>	<p>With the aid of the Quantitative site analysis, the prime location & accommodation list were generated. The user-client & the activities they embark on upon arrival in town were also clearly identified.</p> <p>The Cognitive site analysis together with the identification of the user-client began hinting at the type of language to be employed for this project choice. Some of the few elements that were revealed was the design of outdoor courtyard spaces by way of placement of the building & also the flow between the larger 'open-air' public spaces.</p> <p>Supporting Precedent studies showcasing similar typology & socio-economic conditions were investigated so as to develop an understanding of various options that can be adopted & adapted to the client's brief & accommodation list.</p>
Topology (where)	<p>Katima Mulilo, Zambezi region, Namibia</p> <ul style="list-style-type: none"> - Borders Zambia & Botswana within 60km radius, - High temperatures and rainfall figures, - No storm water system resulting in ponding all around the town & site, - Small town (urban) highly influenced by rural settlements around & - Lack of urban integration of public buildings. <p>What is the state of the urban fabric? How can one use the natural and built environment as an integrated system working together and not individually?</p>	<p>Most of the Qualitative analysis will be used here to begin demonstrating and hinting at an approach that has the aura of the context embedded in it.</p> <p>The touchstone primarily focused on acquiring an understanding of the urban framework and demonstrated the need to 'cut away' parts of the town fabric so as to achieve the 'socio-urban' objective.</p> <p>The Historical & Cognitive analysis together with urban precedent studies were tools used to understand the daily rituals of the inhabitants of the region. Thus nodes of interest were also identified & connected via urban interventions that allowed the town dweller to move from one place to another safely & comfortably.</p>
Morphology (How – unique approach)	<p>All the typological & topological factors call for an approach that is unique to the context. The design must also take consideration of material use.</p> <p>Due to rural influences and neighboring countries, due care must be taken so as to produce an urban and architectural approach that speaks an architectural language that is both global and contextual.</p>	<p>User-client needs and requirements prompted an investigation into recuperation spaces out of the public realm. These spaces would have to have seating and play spaces for the elderly and youth. The form-giving was determined by way of scale & radiance analysis. Local building techniques & materials also contributed to the nature & aesthetic that was achieved.</p> <p>The Literature review will give more info. See the literature review layout.</p>
Tectonics (Structure)	Can the structural system support the findings of the research done in part 2 as laid out by the conceptual framework?	The structural resolution must effectively begin a dialogue with the correct architectural language that will be used in the intervention.

Literature review layout (Narrative & Argumentative)	Conclusion	
<p>1.Urbanization is a crucial component of my dissertation</p> <ul style="list-style-type: none"> - What are the elements to investigate with regards to my site and macro context? - Threshold within the developing town, how are they placed and manipulated to create a response that is unique to the setting and typology? - Can the topography assist? - How does the morphology of the design adapt to the urban setting? - What about the existing towers (points of reference) in of the town? - Should one begin to emulate the towers or introduce an alternative orientation and identification approach? 	<p>It is important to understand the townscape and begin the intervention based on a qualitative analysis supported by some quantitative aspects that cannot be ignored and are the truth of what is happening in the town. The placement/location of the project is based on the client’s needs as well as the thorough scrutiny of the radiance of the existing context.</p>	
<p>2.Investigation of Identity</p> <ul style="list-style-type: none"> - What is identity? (as described by various authors) - How does one begin determining the identity of a place? (research done on interpretation) - Is it relevant? (do’s and don’ts) - Are there different types of identities that can influence the design? - Can the design influence the identity of a/the place? 	<p>Exploring the concept of identity in the developing country and the possible ways it can manifest itself based on similar case studies in other developing nations. Here the rest of the site description can be discussed so as to clarify the objectives and goals of the project.</p>	
<p>3.Supporting theories and their contribution to Identity</p> <p>History is returning to design</p> <ul style="list-style-type: none"> - The effect history has on the contemporary Africa. - Should we accept history? - Similar situation as modernism that sought to forge forward and discard the past. (Comparison?) <p>Stone cladding as artificial ruin for triggering nostalgia</p> <ul style="list-style-type: none"> - As a general response to use of local materials - Is it acceptable? - How does the user view and interpret this construction method? <p>Material, Motif and Memory</p> <ul style="list-style-type: none"> - How can the seam produced by material and time contribute to the positive interpretation of identity? - Is there a connection to identity as a result of material and time? - What role does motif play in all of this? 	<p>Narrative</p>	<p>A pure discussion of other’s thoughts on Identity in the form material use and technique. Pointing out why their points are relevant to the theoretical underpinning of this project due to the rural and urban blend of the town.</p>
<p>Sustainable architecture and the law of the fourfold</p> <ul style="list-style-type: none"> - Obviously advocating the acknowledgment of all that is contextual - The concepts and consequences thereof, how do they stand against theories above? - Instead of a mimicry of material, perhaps reinterpretation? <p>Proceedings of the Regional Seminar in the Series Exploring Architecture in Islamic Cultures</p> <ul style="list-style-type: none"> - Although the seminar was aimed at the Islamic cultures, it provided great insights on how the identity of a place and people can create a response rooted and accepted by society. 	<p>Argumentative</p>	<p>Using the thoughts and ideas to show that there is a positive way of referring back to the past through interpretation and technique evolution. This will be done by dissecting the tenuous narrative writings and using the arguments as means of demonstrating that identity need not be a copy of the past, but that it is constantly changing and as such one needs to observe it through the architecture and urban solution.</p>

1. INTRODUCTION

My name is Vernon Mwazi, from Katima Mulilo, Namibia. During my early years, I attended five different schools all around the country because we moved about due to my father's work as he was transferred to new towns almost every year. During these relocations, I was placed in boarding school and would stay with family during the holidays.

Having moved around a lot, I was exposed to different types of spaces and remember trying to figure out the floor plan of the house we stayed in at Rundu. I must have drawn the layout a hundred times and I can still replicate it today. Through this constant relocation from one town to another, I also met a lot of people from different backgrounds and got to learn about the diverse cultures and traditions of the Namibian people. My most memorable childhood memories really emanate from places where I could safely play outside and sometimes I would help clean these big yards. This might explain my love for believing in the connection of outside and inside spaces.



PART 1

PROJECT ORIENTATION AND PROBLEM STATEMENTS

In part one, the site is introduced. The specific site conditions and problems are also discussed and brought to your attention.

Initially I had chosen a transport interchange as my dissertation topic but during the quest to identify the best location for the project, it became impractical to have this typology within that specific part of the town centre and so a thorough analysis was done on Katima Mulilo to establish what the most appropriate typology for my dissertation would be. I stumbled upon the census done in 2011 and found out that the percentage of orphans and elderly pensioners within the town's population was very high and also that most of them resided in the rural areas. According to the census conducted in 2011, the Zambezi Region has a population of 90 596 people which comprise a total of 21 283 households. Of these, 1.5% are headed by children (siblings) and 13.8% by pensioners (the elderly).

I decided to research the state of the social welfare in the form of grant facilities for these groups and discovered that there was a lack of such a centre in Katima Mulilo. Locating the best position for the building was the most challenging exercise thus far, as during this process, it was discovered that the urban development also required an urban design precinct proposal.

This led to a harmonious proposal that reactivated the civil services facilities such as the post office, old town hall, park, etc. in the town's central business district.

Thus, this dissertation was investigated, narrated and argued in four parts:

- Part 1: Project orientation and problem statement,
- Part 2: Research methods,
- Part 3: Design synthesis, Tectonic development and,
- Part 4: Evaluation and reflection.

Each part will explain a portion of the process and finally illustrate how the proposed design was achieved via the topics of topology, typology, morphology and tectonics.



Figure 1: Habana village_ December 2012



Figure 2: On the B8 route to Habana Village_July 2014

2. RESEARCH DESIGN METHODOLOGY

The exploration into this design dissertation is centred on the notion of *Responsive cohesion* which is described as “a quality of the relations between the internal components of a thing and between the ‘thing’ and its context” (Radford, Morkoç and Srivastava, 2014: 11).

Architectural works cannot merely be designed as interventions that are devoid of meaning and reference to their context. Understanding the contextual economic and social forces that exist in and around the site plays a significant role as part of the process and can help direct as well as lead to an intervention that evokes the past, present and future aspirations of a community. To achieve the desired result, a constant back and forth process of analysis, design and evaluation was the method of choice for the dissertation design methodology.

The proposed dissertation design encompasses the offices of the Namibian Government Institution Pension Fund (GIPF) and their required support facilities. Care was taken so as not to upset the daily routines of the people that have been

woven into the town fabric over time and as such one must be sensitive to the local forces that are at play and encompass the energy, traditions and customs of the Zambezi people.

The contextual forces result in additional spatial requirements that will be coupled to the generic accommodation list and ultimately aimed at positively anchoring the buildings within their context, creating a related language, understood and accepted by the local community, whilst telling the story of the region and its people to the outsider.

In parts one and two of this dissertation, a thorough investigation of the various components of the town will be undertaken beginning with an understanding of the client and concluded by the analysis of the site and precedent studies.

The design synthesis will thus be the result of these components stitched together.

3. PROBLEM STATEMENT

“The dominant picture of African architecture still current today is split into two worlds... On one hand, there is the architecture imported from Europe as part of the modernist project, and on the other the cultural anthropologist’ romanticized image of the primitive native hut” (Folker, 2010: 14)



Figure 3: On route to Kasikili Island via the Chobe River



Figure 4: Retail space on Hage Geingob Street



Figure 5: Hage Geingob Street view from the east

3.1 TOPOLOGY

The site is located in Katima Mulilo in the Zambezi region (formerly known as the Caprivi region) of Namibia which is bordered by the Okavango region to the west, Zambia and Angola to the north and Botswana to the east and south. Katima Mulilo is the capital of the region and is situated on the edge of the Zambezi River with a few tourism and/or recreation spots in the region. According to a report released by the United Nations, the area is categorised as “Dry deciduous forest and open woodland” (UNCED, 2000: 17). Furthermore, the climatic conditions of the region are as follows:

- Temperatures are moderate and not as extreme as one might expect for Namibia,
- High rainfall figures, especially during the spring and summer months and
- In addition, the town does not have an adequate storm water system, resulting in ponding and muddy side walks and roads throughout the town.

During 2000-2004 the region was terrorised by the UNITA rebels from the Angolan civil war who illegally crossed the Okavango River into Namibia and attacked vehicles on the Trans-Kalahari highway. This led to a decrease of travel to the region and the military provided convoys for travellers to the region. This unrest also resulted in the economic and social decline of the region and gave the opportunity for an influx of foreign shop owners from neighbouring countries into the town.



Figure 6: Taxi rank to western Zambezi



Figure 7: Vendors on Hospital Road, across from the market

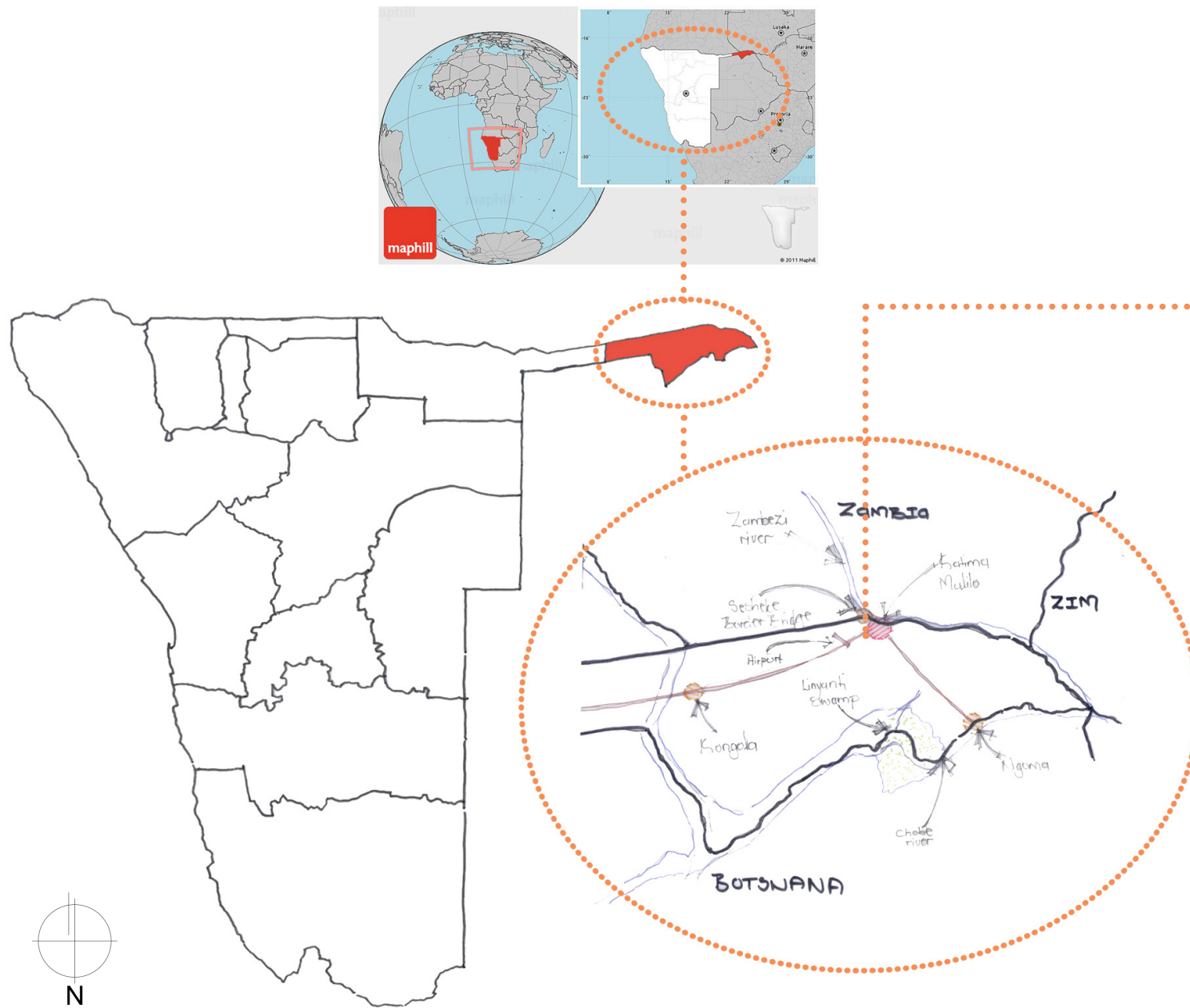


Figure 8: Location of Katima Mulilo (derived from Maphill, 2011: Online)



Figure 9: Aerial image of Katima Mulilo (Google earth , 2012: Online)

This urban sprawl began with construction of shop spaces that sold the same foreign products in a single block of retail space (economic development was needed, but it was not controlled appropriately) and further congested the town, diminishing the opportunity for the development of public spaces.

Orphans and the elderly make up the largest percentage of the user-client total, most of whom reside in the rural areas and travel into town to shop for groceries, clothing and visit the hospital for their regular medical check-ups. Sometimes the elderly or older siblings have to travel with younger children as they cannot be left alone at home unsupervised.

The overcrowded town fabric that was built up with no or very little regard of the inhabitants and dwellers of the area has presented challenges that have hampered the connectivity of all the social services mentioned above. This presented the following questions that needed to be investigated so as to clearly understand the existing situation for the generation of an appropriate problem resolution:

- What is the state of the urban fabric?
- Can the town be developed to become more socially inclusive for the inhabitants?
- How can one use the natural and built environment as an integrated system working together?
- What steps can be taken to address the town's lack of adequate municipal service systems and how will this affect the design solution?

3.2 TYPOLOGY

The GIPF (client) is a government parastatal that is tasked with providing assistance to orphans, pensioners, and members of the rest of the general public (user-client) in the form of social grants or pay-outs and investment opportunities. The GIPF's motto and main statement is to *"... strive to be among the leading pension funds worldwide, providing real value benefits and a sustained stream of first rate member services whilst meaningfully contributing to the development of Namibia's economy and society"* (<http://www.gipf.com.na/>).

Regional offices can be found throughout Namibia and sometimes experience difficulties in contacting the families of the deceased to begin their assistance programme. Conducting seminars on better investment opportunities that are available to the beneficiaries, is also problematic due to the lack of adequate facilities, especially in the smaller towns such as Katima Mulilo. The GIPF's client base frequent their facilities

mostly at the end of the month when it's time for their consumer activities such as shopping as mentioned in the introduction.

The periodic use of the facilities can become an issue if adequate internal and external spaces are not provided so as to accommodate the possibility of large numbers of clients visiting the offices. This is also when the town is full and crowded and it is therefore necessary to establish what the possible issues will be. Some of the questions that one will have to answer are:

- Can the selected building location accommodate the necessary spatial arrangements as required by the GIPF?
- Does the selected location actively encourage the interaction between the GIPF and its clients?
- Can the spatial arrangement help alleviate the feeling of congestion in and around the building?

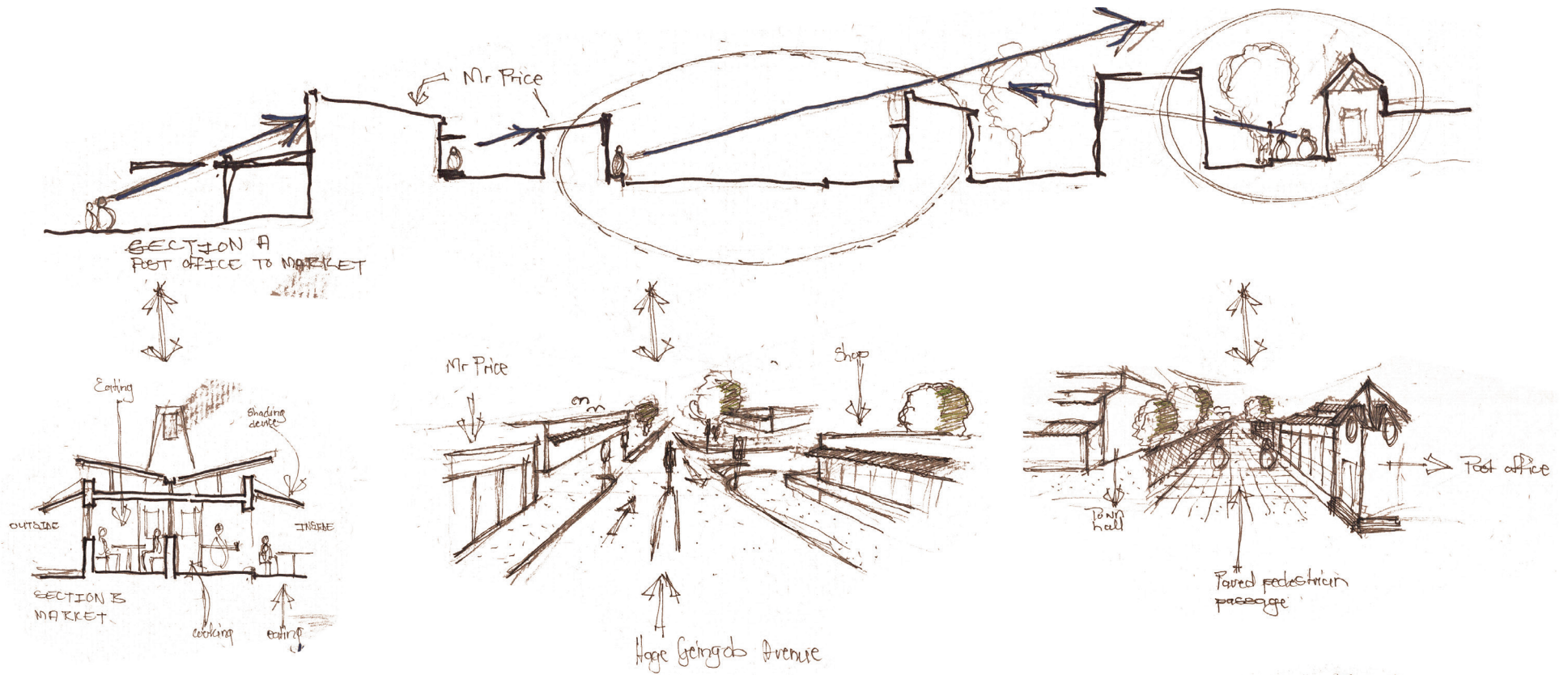


Figure 10: Katima Mulilo townscape



Figure 11: Hage Geingob Street towards Hospital Road

3.3 MORPHOLOGY

The town's core has over the past years seen some developments such as the construction of office and retail space for rent. This has brought investors in the form of banks and franchises to the town, all aimed at making an economic profit. Most of the time this profit is made at the expense of the social profit and the community is left without any social spaces.

All the typological and topological factors call for an approach that is substantially unique to the context. Due to rural influences and neighbouring countries, due care must be taken so as to produce an urban and architectural approach that speaks an architectural language that is both global and contextual and is conscious of material selection, use and application.

3.4 TECTONICS

Will the structural system be able to support the findings of the research done in part 2 as laid out in the conceptual framework?

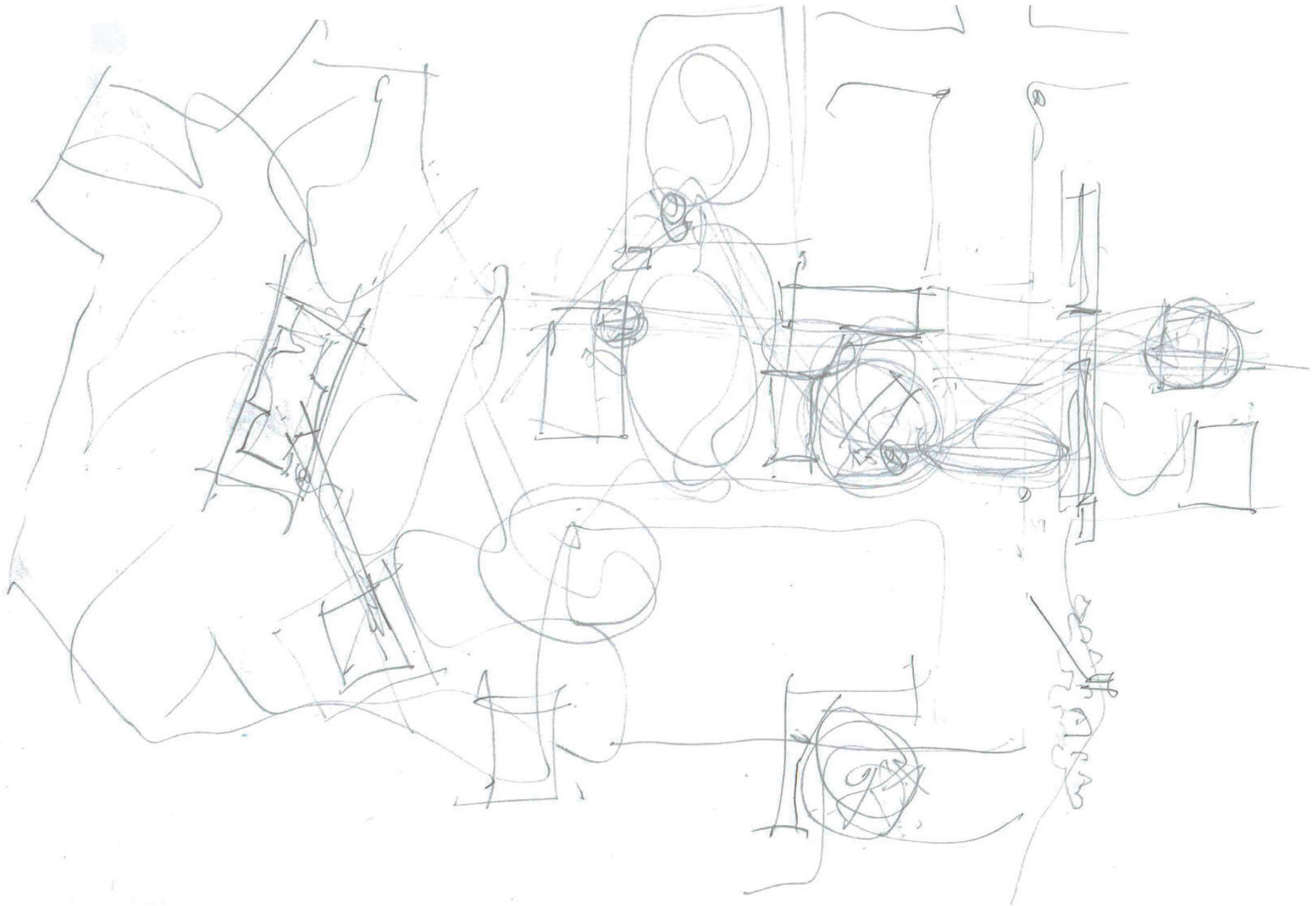


Figure 12: Proposal doodle



PART 2

RESEARCH METHOD

This chapter dissertation, involves a thorough investigation of the various components of the town followed by the analysis of the site and precedent studies.

1. CONCEPTUAL FRAMEWORK

This framework is designed to assist in making decisions and taking actions that are justified as well as unique to the context based on theoretical stance.

Connecting to the existing townscape and finding the appropriate location for the new headquarters are some of the objectives that are to be achieved in this dissertation. Keywords identified with this conceptual framework are:

- Identity (as a means of understanding the people and the region),
- Interpretation (important so as not to over-impose my own (mis)-conceptions on the design and community),
- Catalyst (identifying special nodes that suggest clues that can be used for activating the design),
- Activation (commencing the growth of the design at specific nodes into the context),
- Compression vs decompression (using the pressure points and loose spaces alike to achieve a balance within the townscape), and
- Stitching (combining of various elements to formulate language that will be accepted by all)

1.1 TOUCHSTONE

The touchstone

- the essence of the design approach.

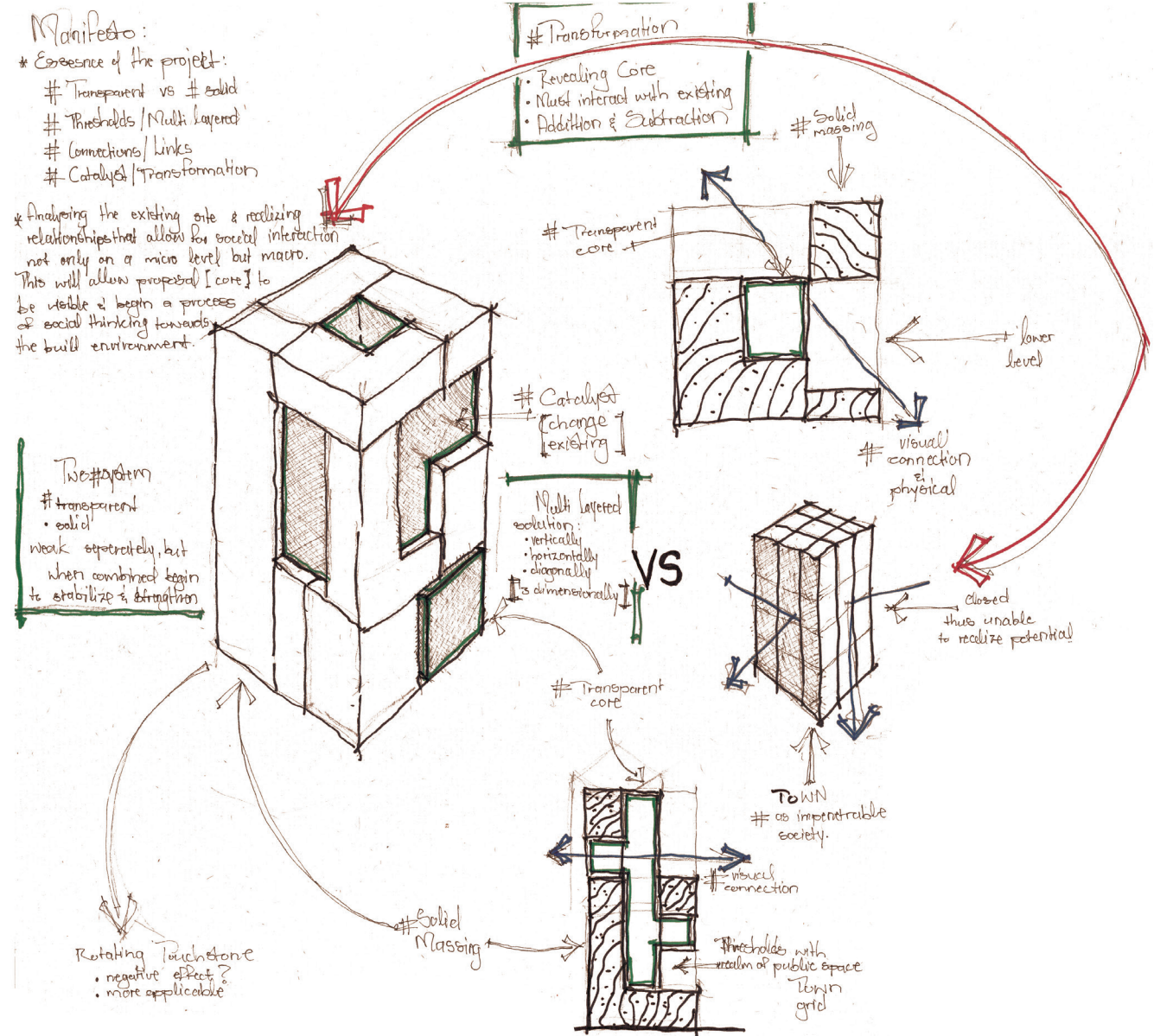


Figure 13: Touchstone manifesto

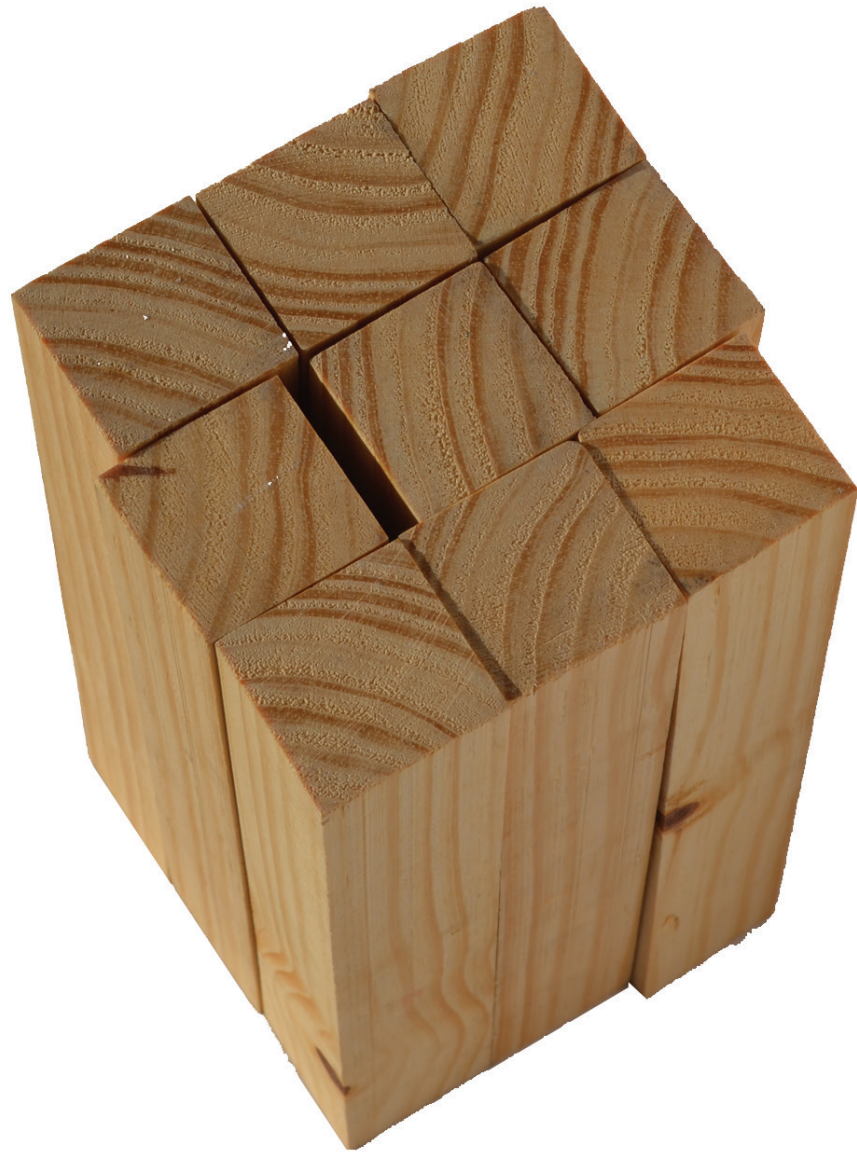


Figure 14: Touchstone_Existing town

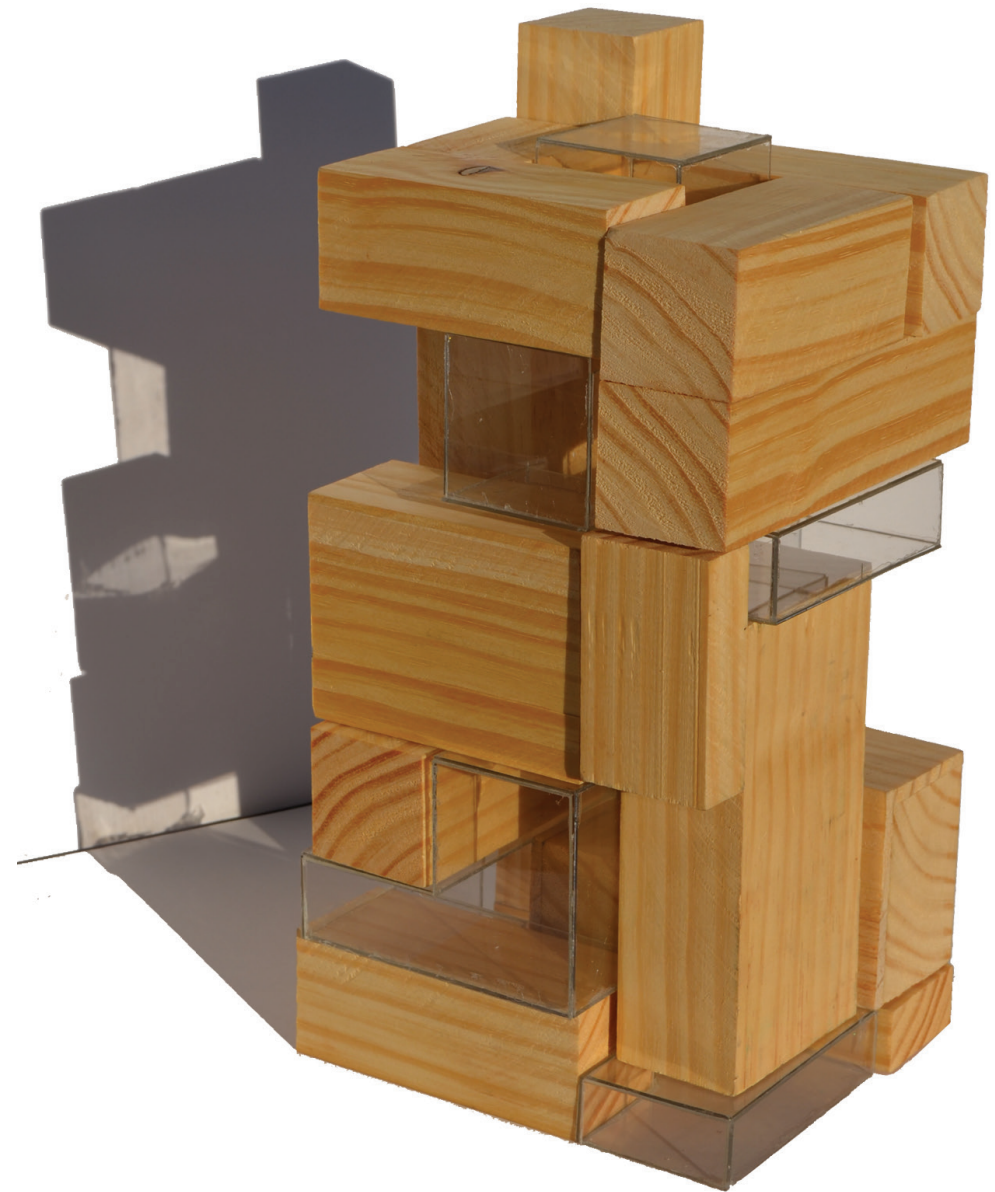


Figure 15: Touchstone_Urban and architectural proposal

Shift/Transformation of identity through spatial evolution.

1.2 TOUCH THE STRUCTURE

In order to create a mutual symbiotic relationship, one must view the town as a cluster of homesteads that have been built by the people and need to be maintained regularly. By re-plastering and re-thatching the hut, man proves that he understands Mother Nature and strives to co-exist harmoniously with her. This maintenance initiates a social tactic and awareness that can be applied to the proposed buildings as well as the rest of the town.

Structurally, the proposed building will be a play of tectonic vs stereotomic elements that would begin creating and defining space in an equilibrium state. The more tectonic structures begin defining public to semi-public spaces and as one moves through the thresholds to the more private spaces, the structure will begin melding into more stereotomic elements that strategically allow only visual access into the private realm.

The notion of thresholds thus becomes an important structural conceptual idea and tool that the structure can begin identifying and manipulating. Sub-consciously one also begins making reference to the typical hut and consciously commences the process of analysing the hut structure and find alternative methods of applying the layered transition spaces that are as a result of the analysis and re-interpretation of the existing techniques.



Figure 16: Touch the structure model

The biggest forces to be encountered in this project with regard to the structure will be gravity and lateral forces (strongest-weak). Methods to help 'float' the structure must be investigated without elevating the building too much and disrupting the delicate scale that exists in the town. The lateral forces will most likely only be experienced with the tectonic elements to be proposed, but these can be reduced, by anchoring to the stereotomic elements resulting in a structure that is in an equilibrium state.

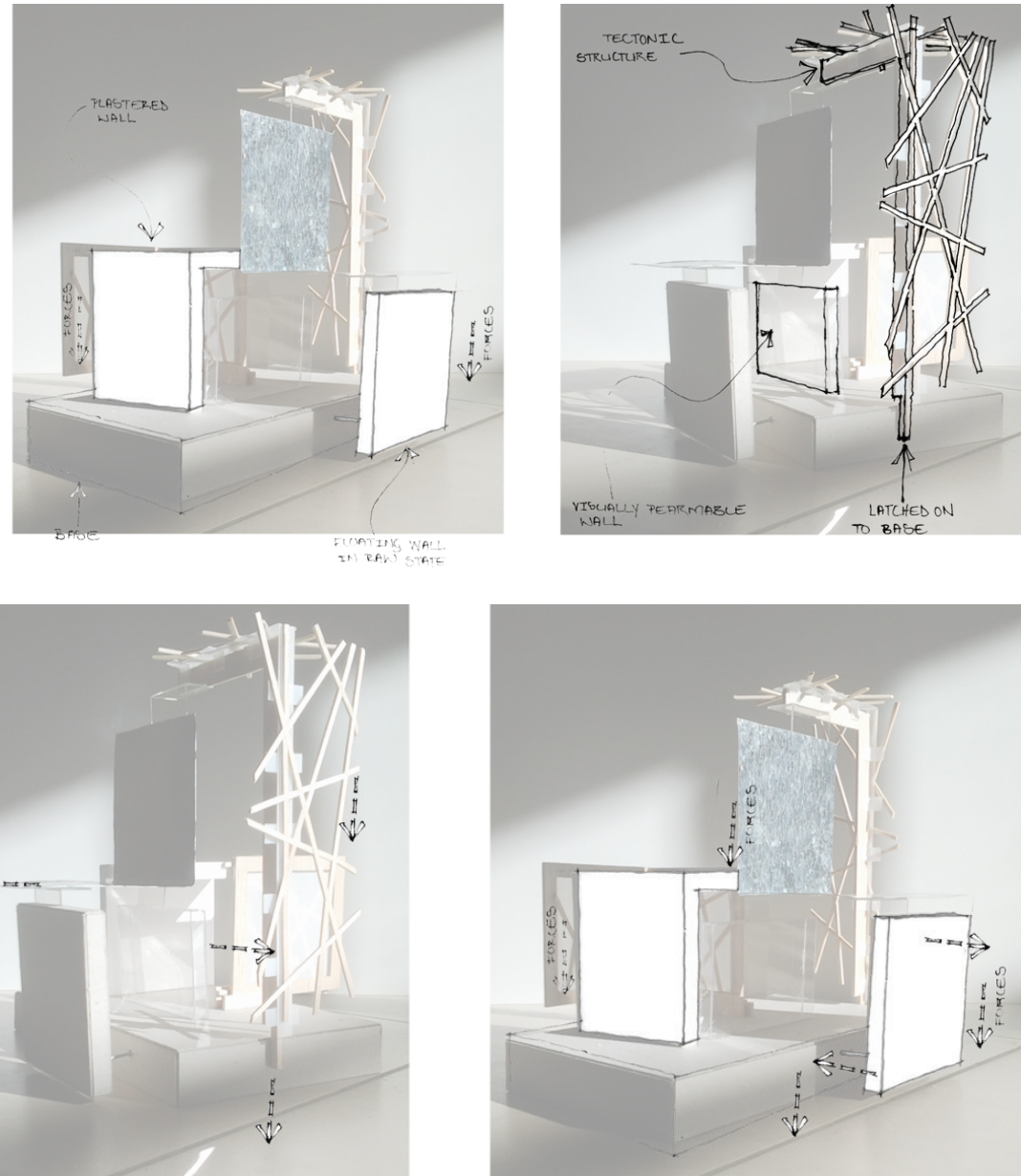


Figure 17: Touch the structure reflection and evaluation

1.3 CONCEPTS

Concept 1 - Weaving and stitching as urban network adhesive:

Knitting the design into the existing conditions and striving for a sense to fit. Also relates back to the user of the building and how they are reintergrated back into society.

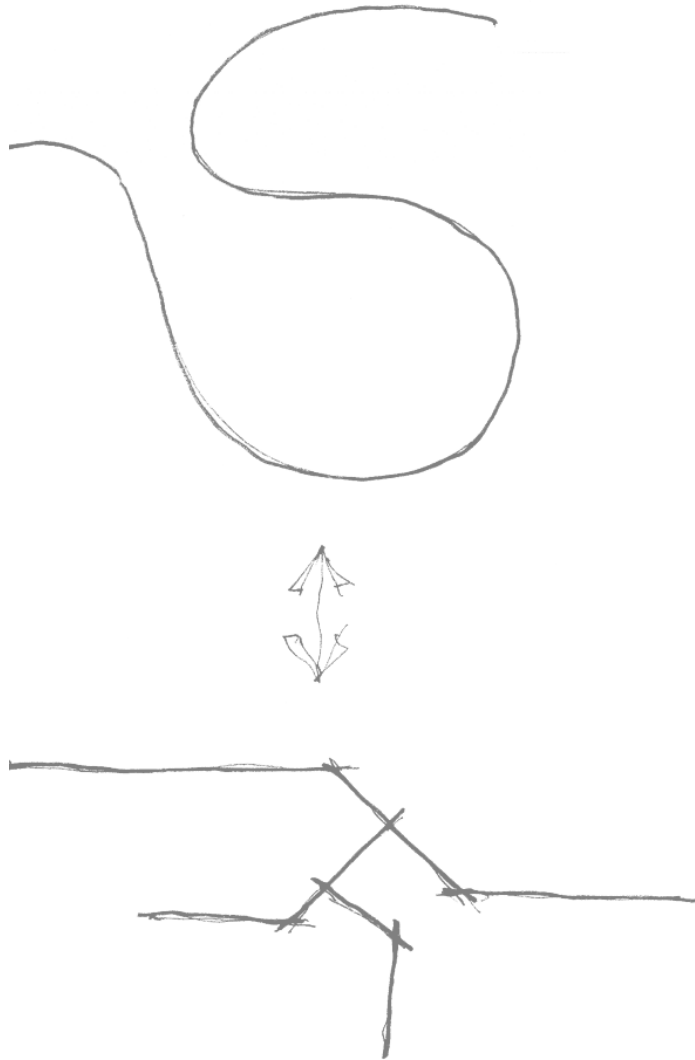


Figure 18: Curve vs straight line

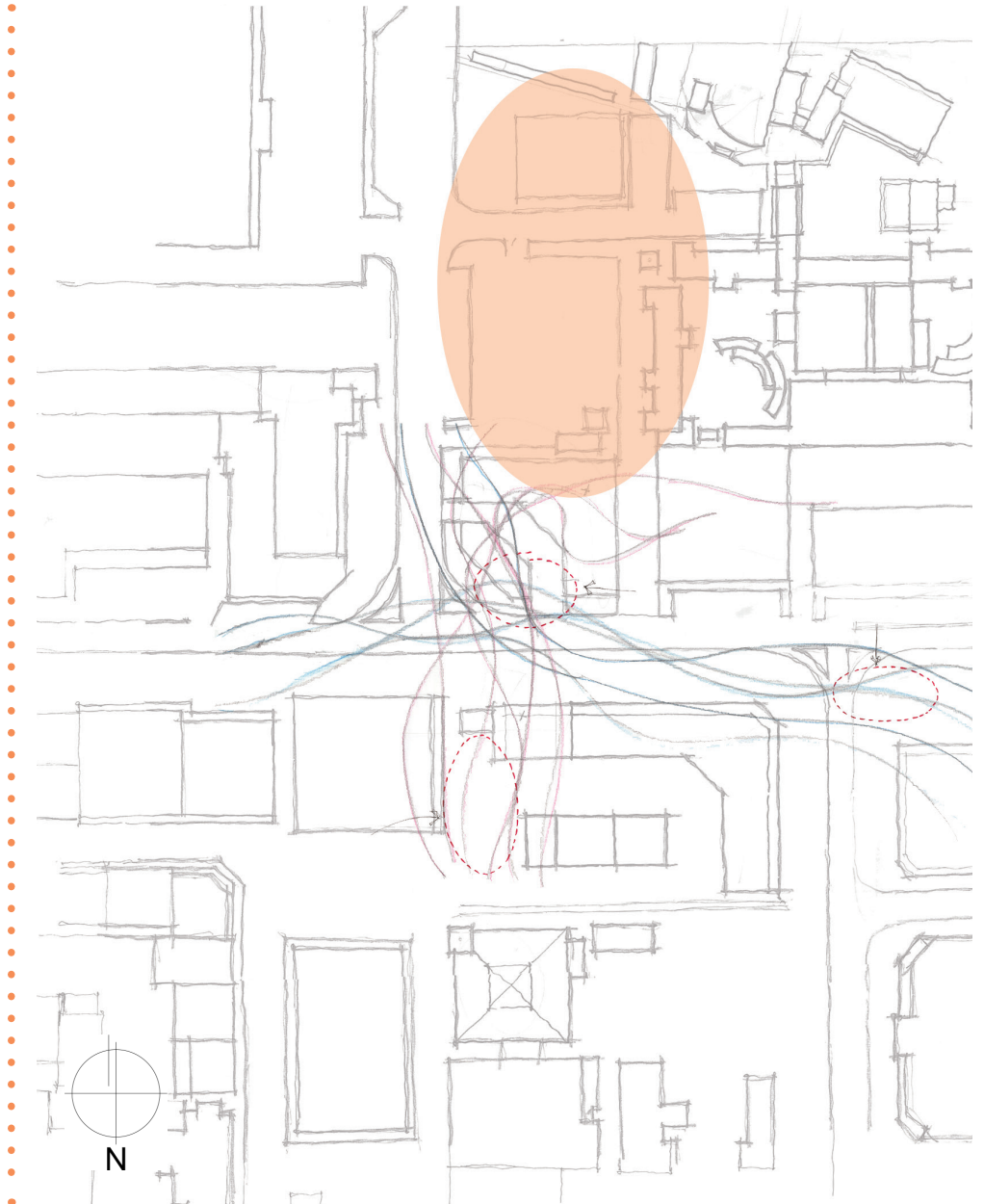


Figure 19: Flow and congestion nodes

Concept 2 - Climate as form generator:

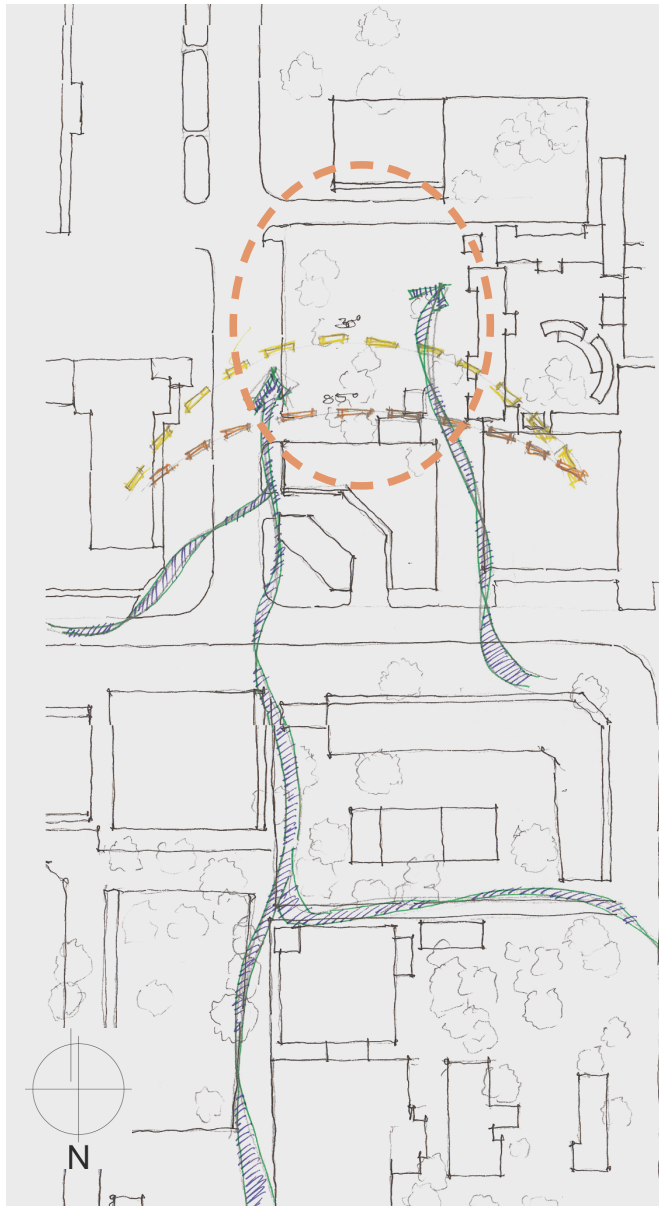


Figure 20: Isolated flow to market

The climatic condition gave clues for a conceptual approach generated for and adapted to the specific site.

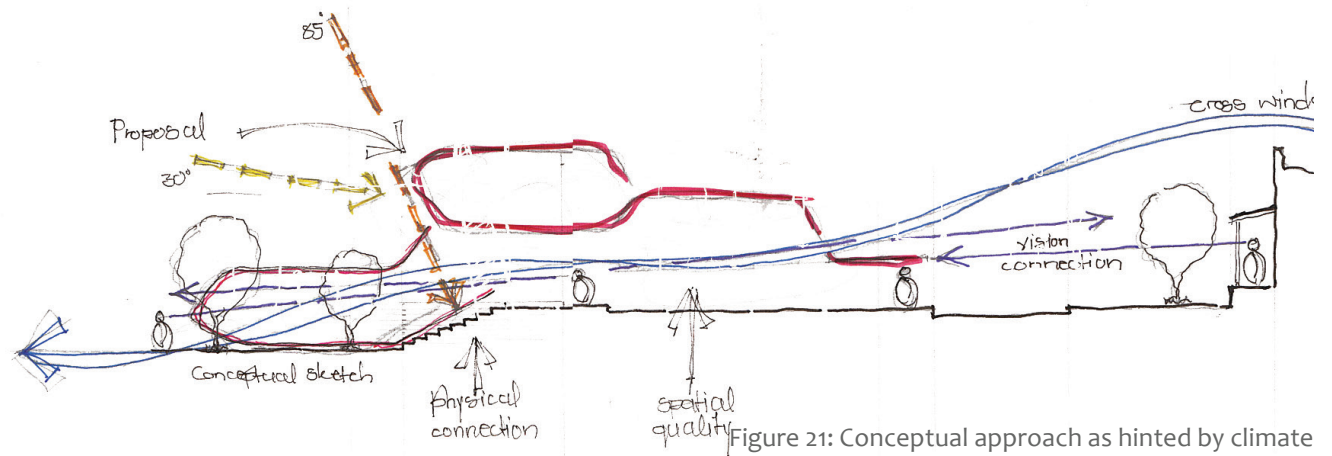


Figure 21: Conceptual approach as hinted by climate

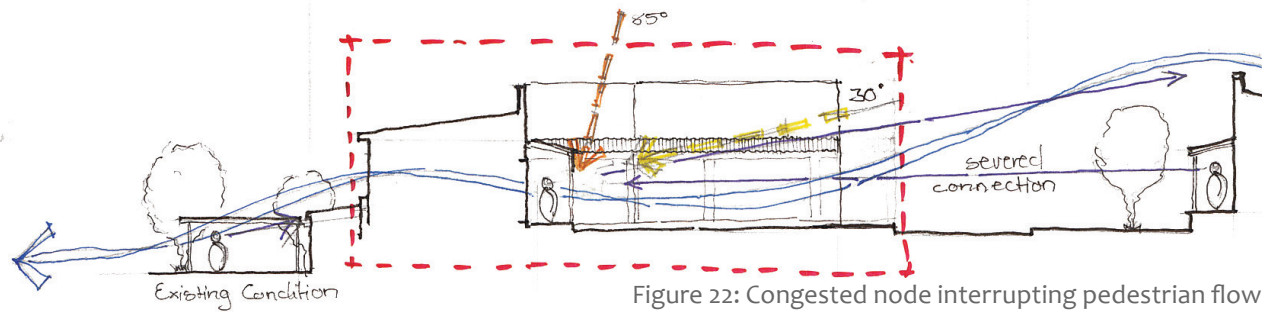


Figure 22: Congested node interrupting pedestrian flow

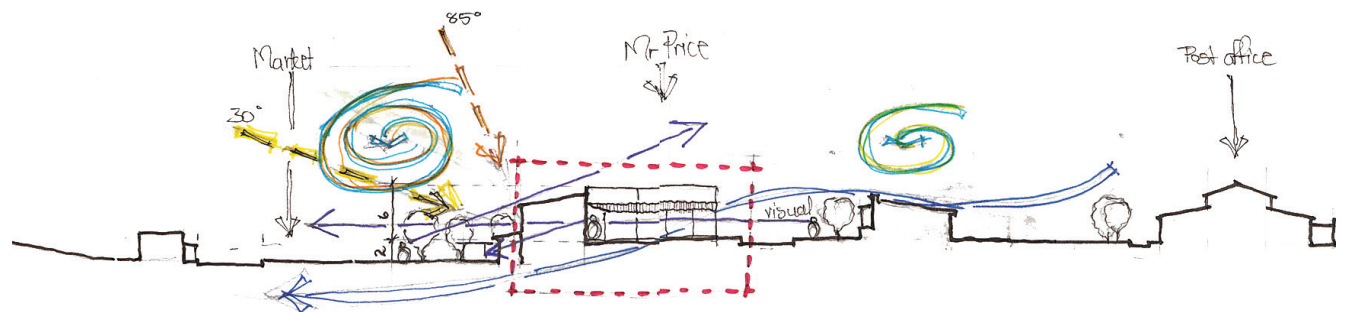


Figure 23: Existing pedestrian flow from Post Office

Concept 3 was further refined to establish the effects of implementing the idea of using the climatic conditions and weaving the idea into concept 1. This suggested that part of the existing town structure be demolished and the proposal be made to allow for the flow of people underneath the building into the market square.

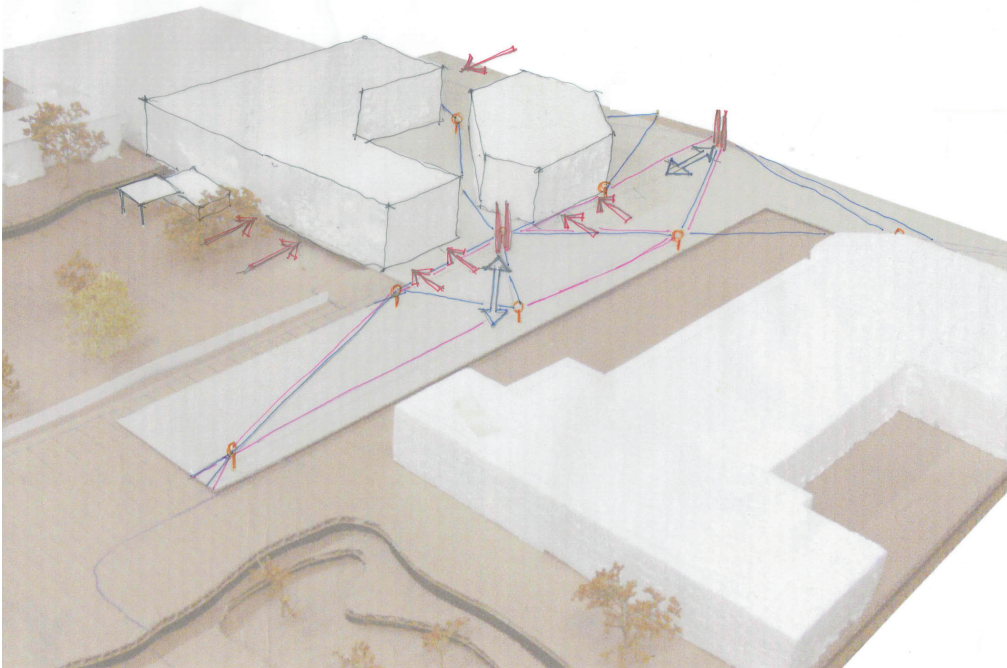


Figure 24: Movement network to market

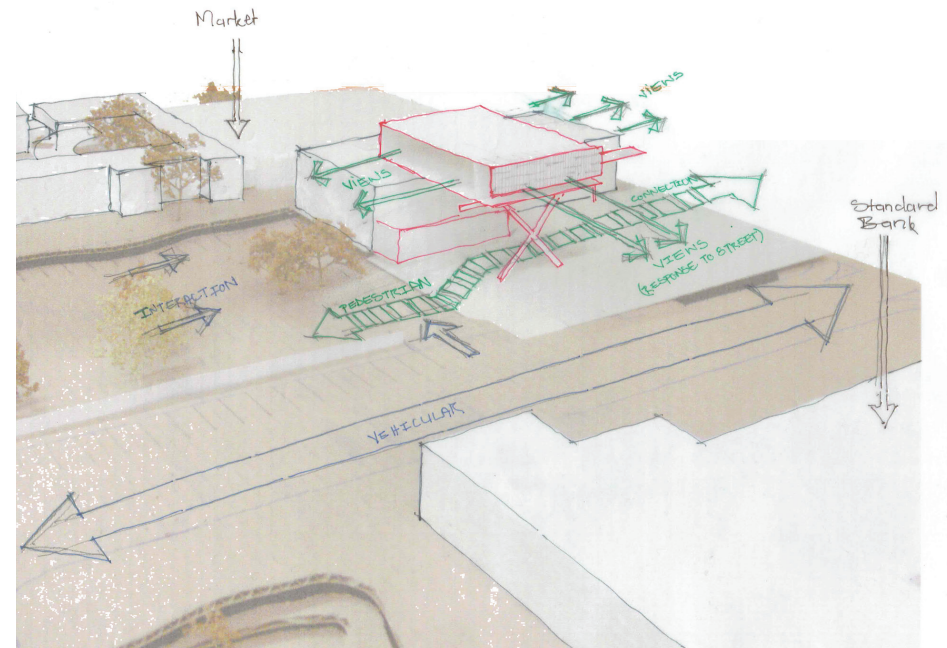


Figure 25: Elevated proposal with views to market square and Post Office

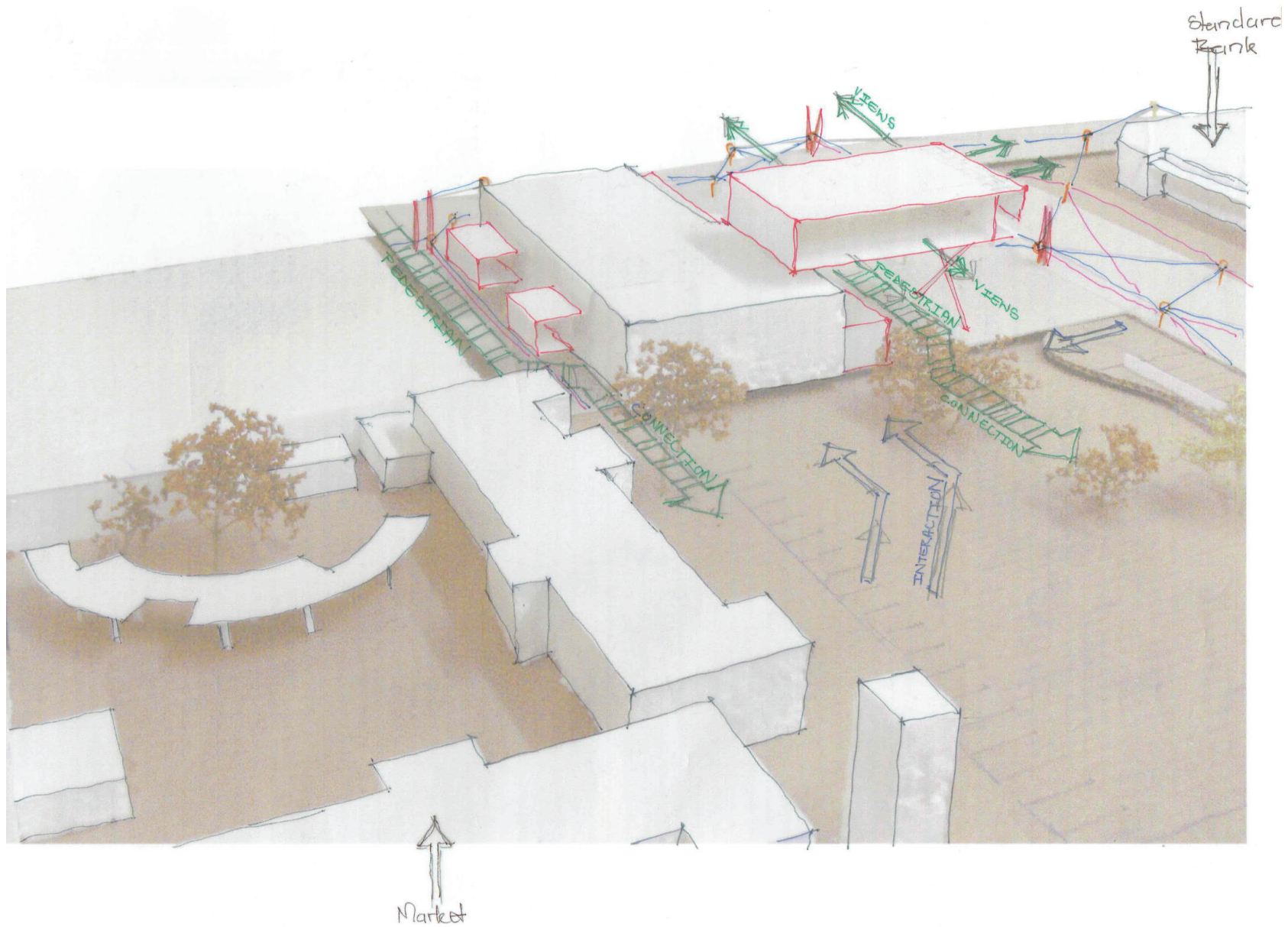


Figure 25: Concept 3 proposal evaluation

Shift/Transformation of identity through spatial evolution.

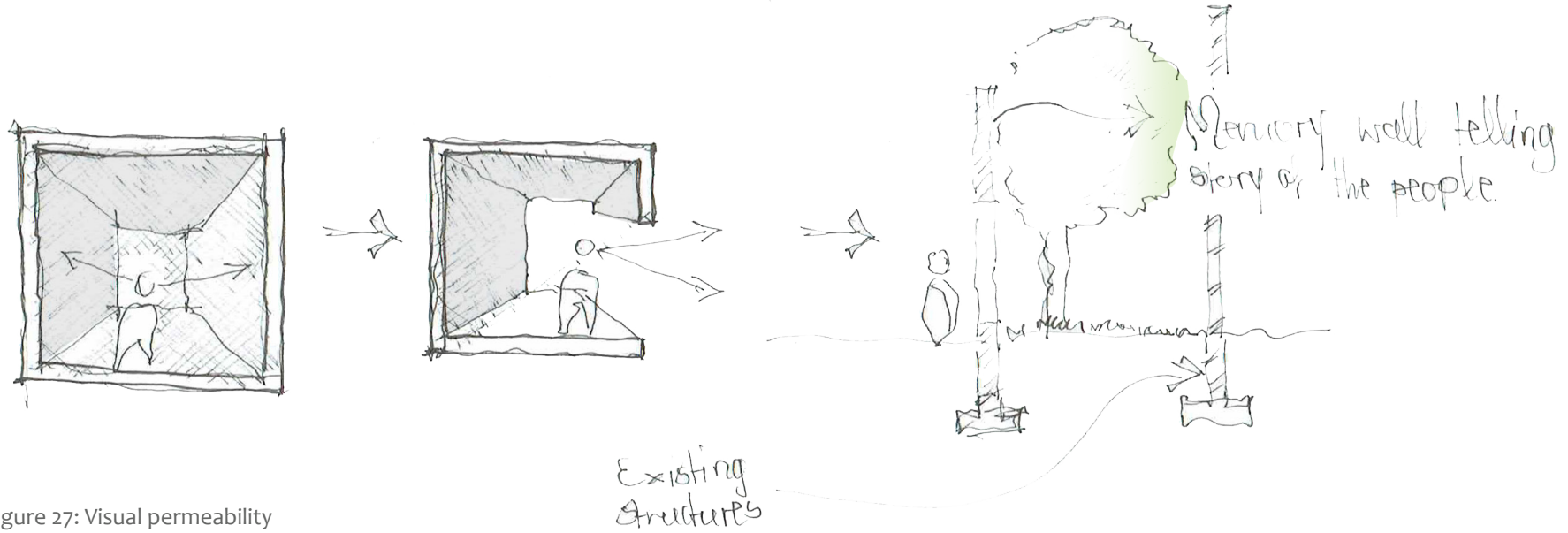


Figure 27: Visual permeability

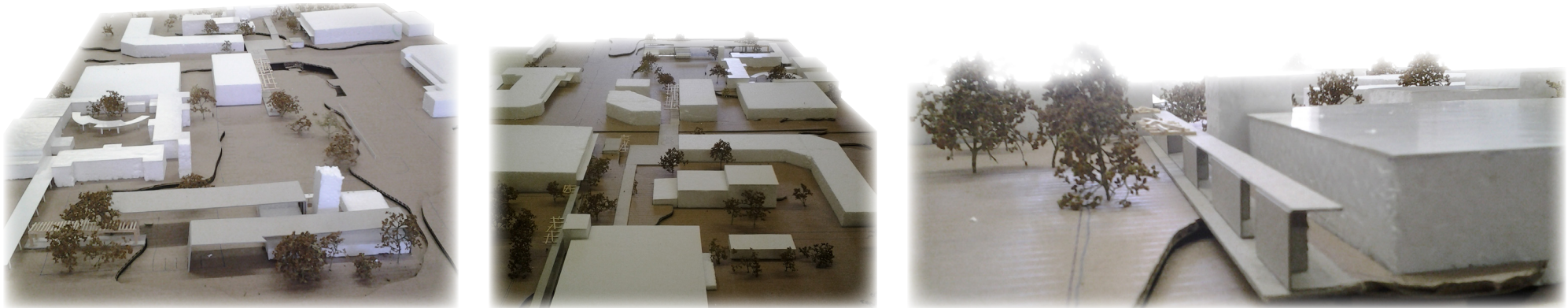


Figure 28: Concepts 1-3 development to concept 4

Upon further evaluation of the listed concepts, I realised that they were not sufficient insights as to begin generating the morphological design process. The Zambezi region thus became the next source of inspiration, and began yielding, how the Zambezi and Chobe Rivers are very important for the survival of the people. They are sources of food and very important for the cattle farming activity that is the primary source of income for the majority of the Zambezi people. How would one then begin using this to add to the morphology of the proposed buildings?

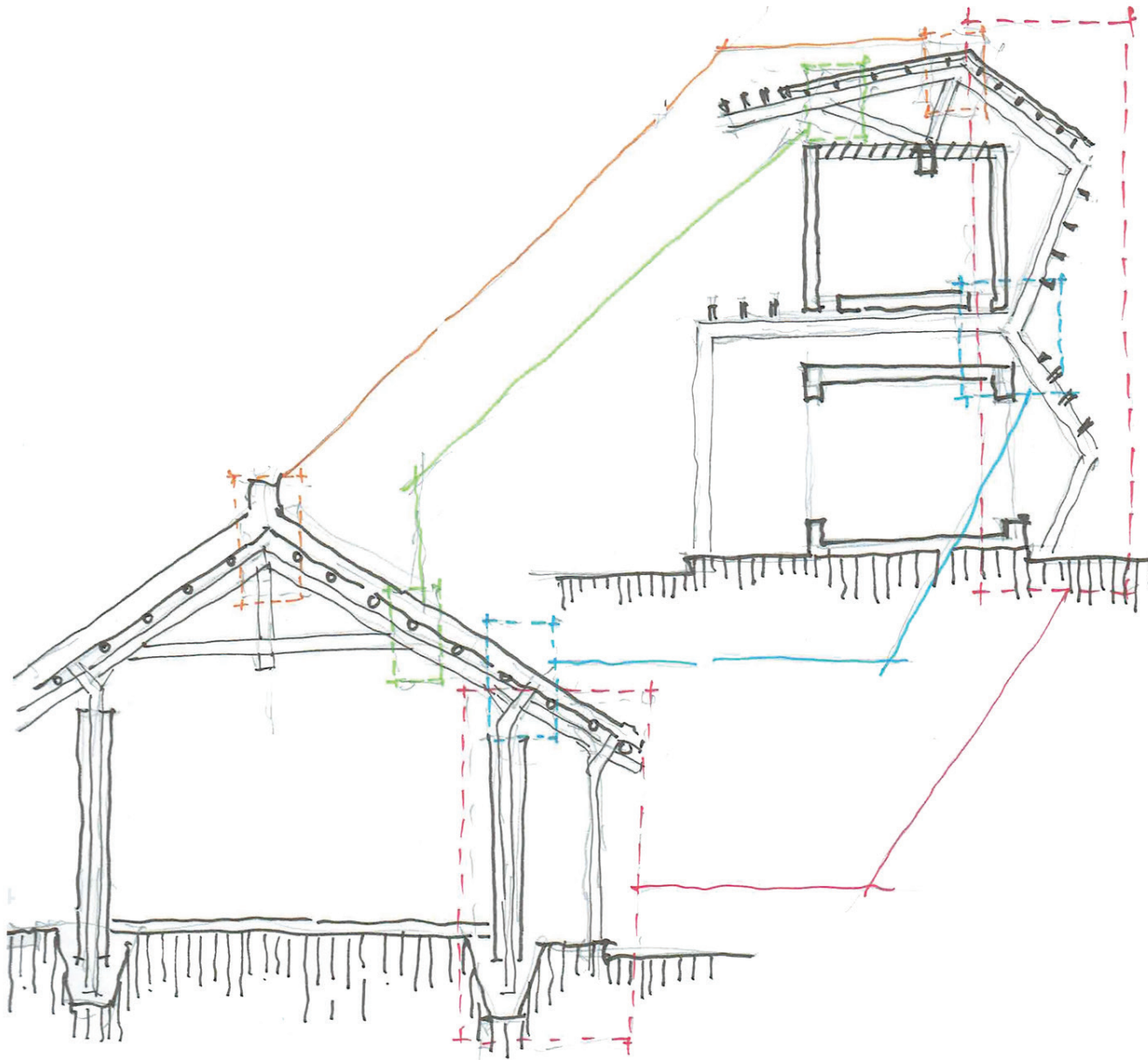


Figure 29: Typical hut investigated and reinterpreted

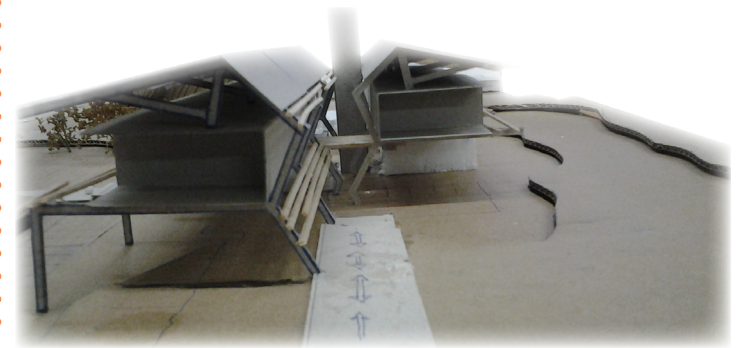


Figure 30: Placement into context

Shift/Transformation of identity through spatial evolution.

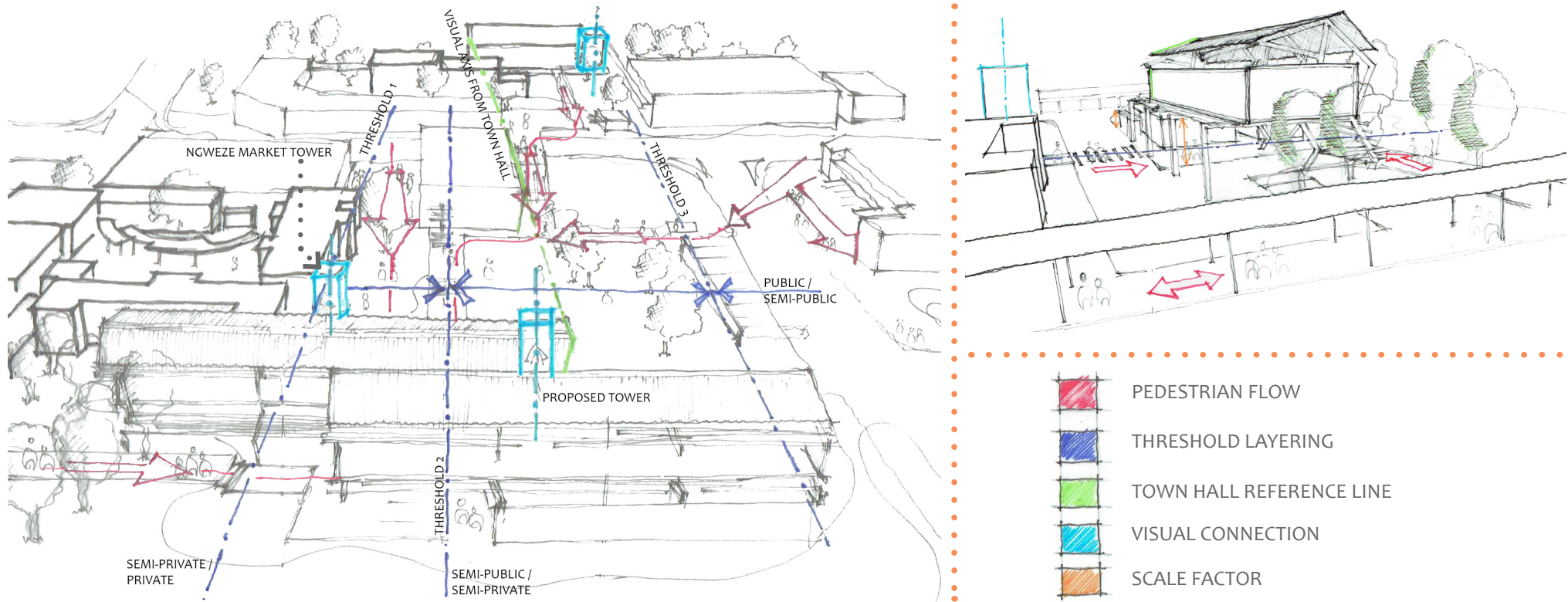
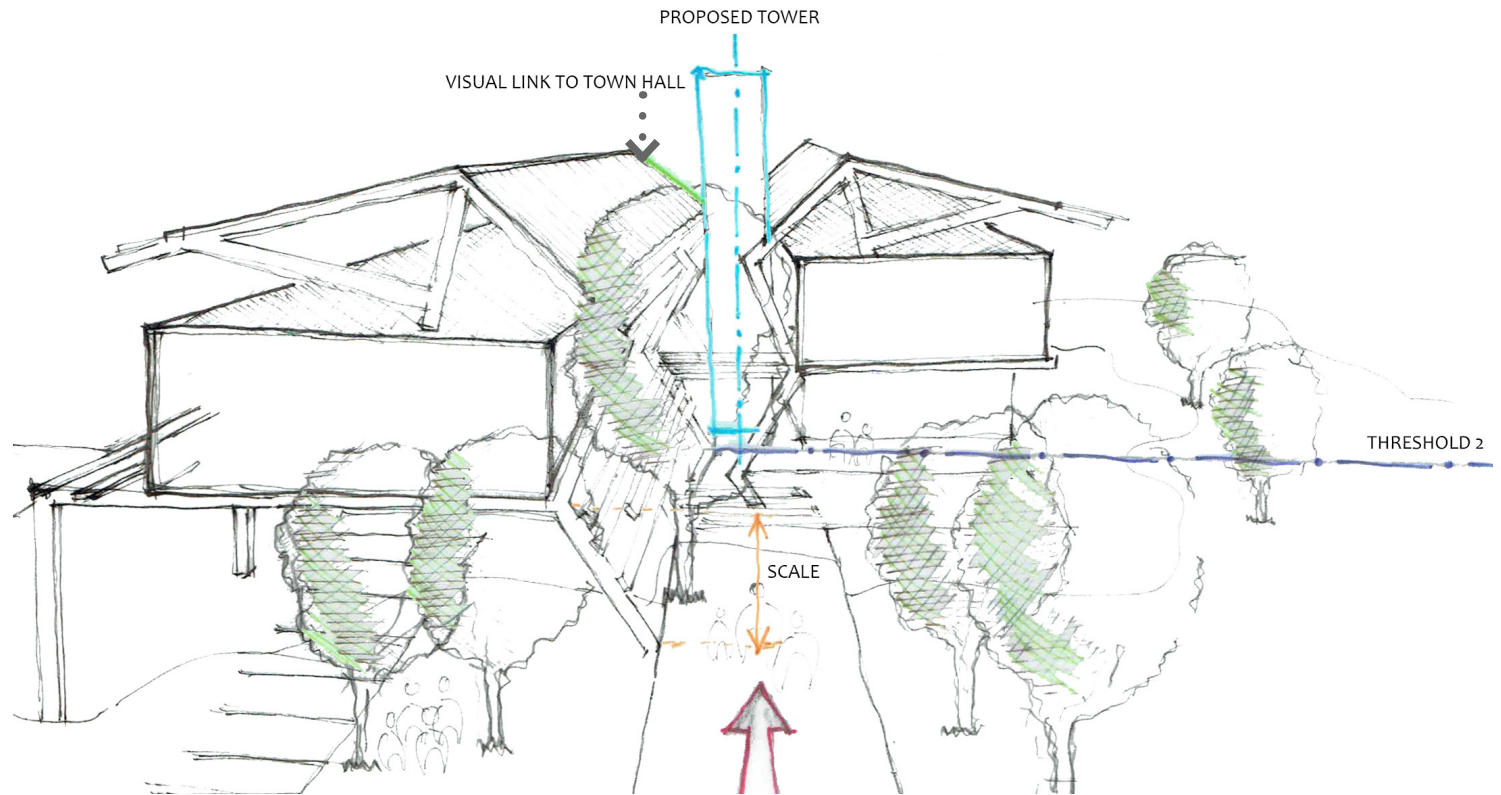
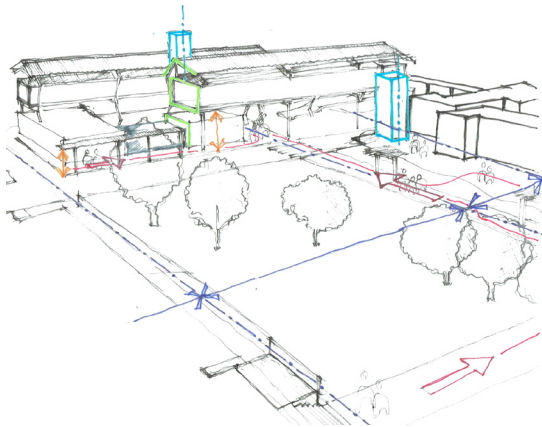


Figure 31: Placement reflection and evaluation



Concept 4 - Porosity and layering as limit indicator:
 Due to the sensitivity of the micro-site, the building extents had to be established so as not to overpower the existing. The flow of people and thresholds was used as indicators for the building boundaries of the proposal.

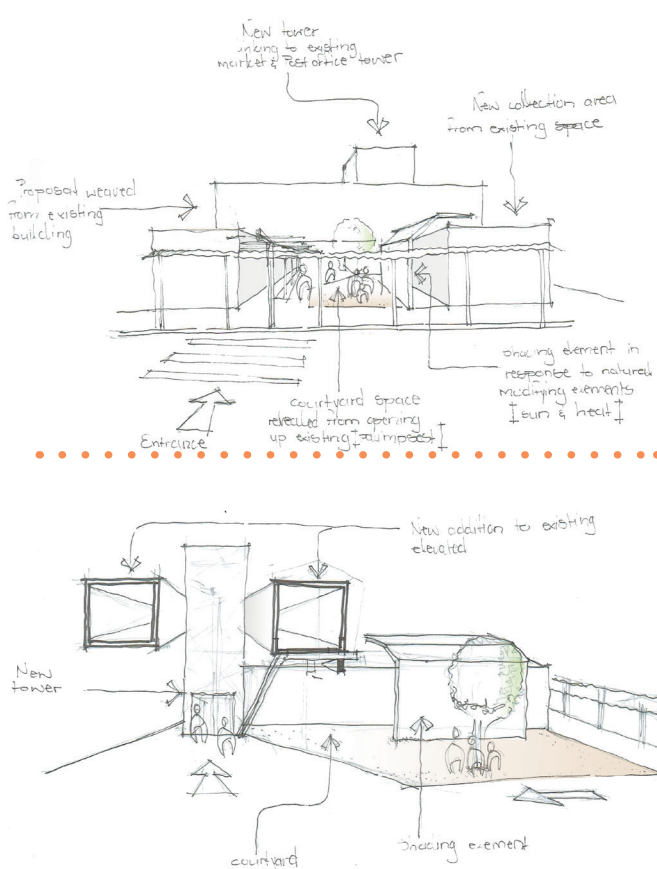
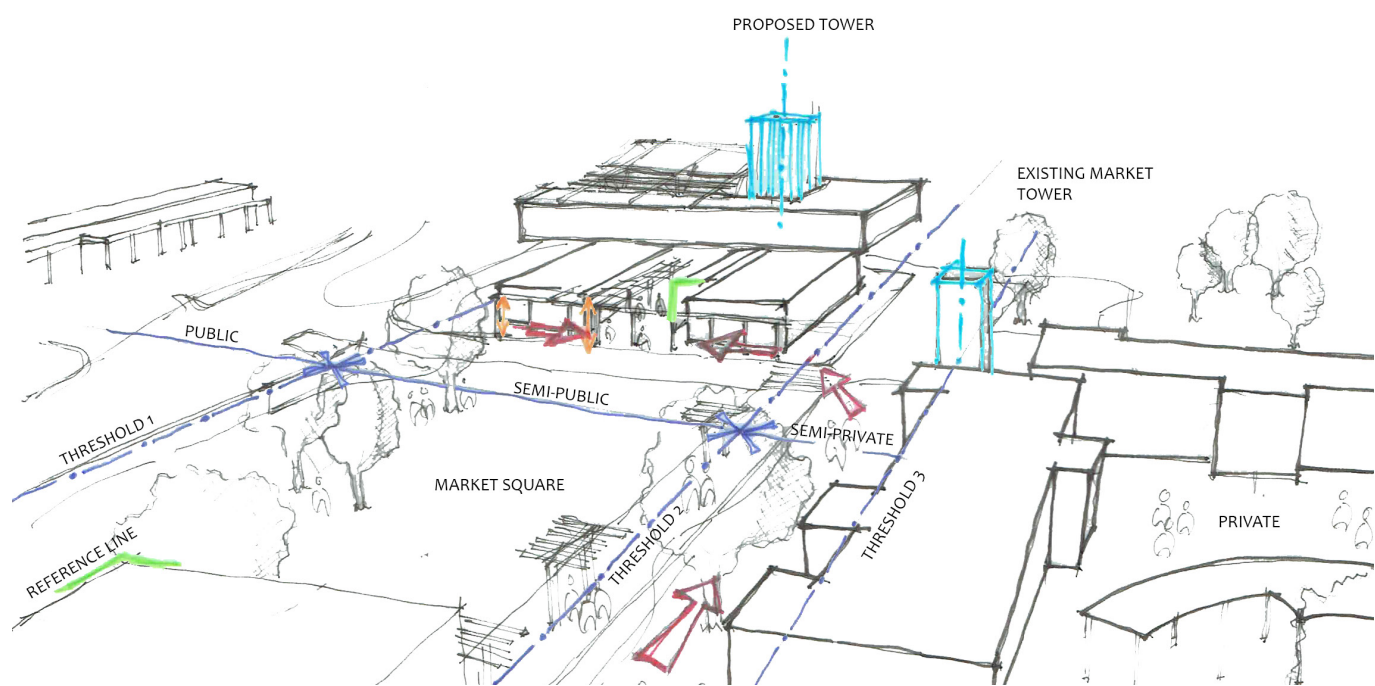


Figure 32: Concept 5 reflection and evaluation 1



- **Concept 5** - Palimpsest and urbanity, exposing the historical layer within the urban context:
- Concept 5 involved observing the town and region as a treasure trove of clues. These could insist on or refrain from a certain design approach. The down-to-earth scale of the town meant that if one were to include a first floor, it had to be as low as possible. Lowering the first floor would ensure that the market square remained prominent and not become over burdened by elevated structures.

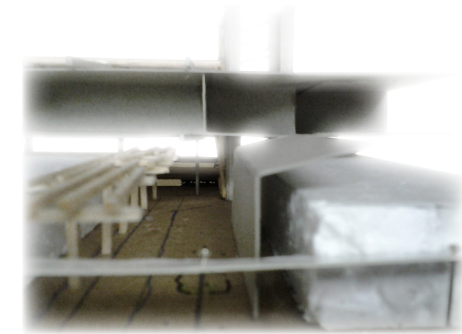
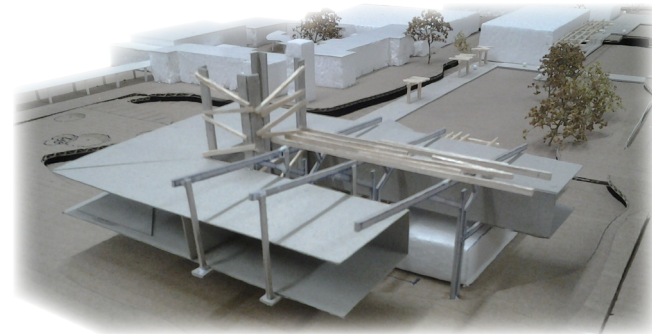


Figure 33: Into the context

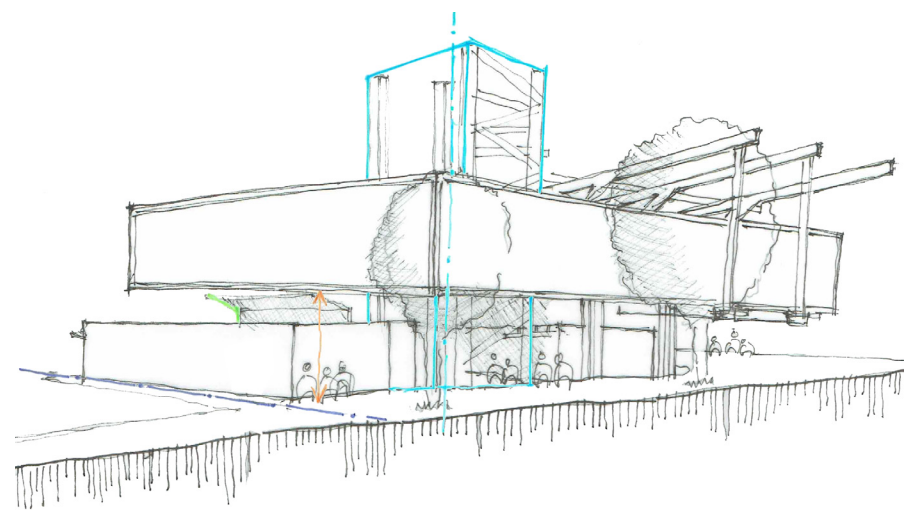
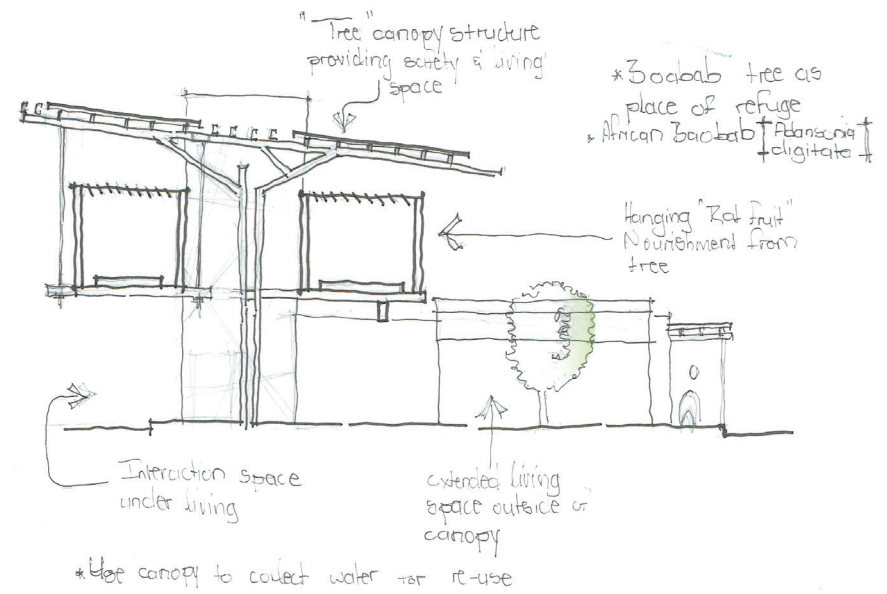
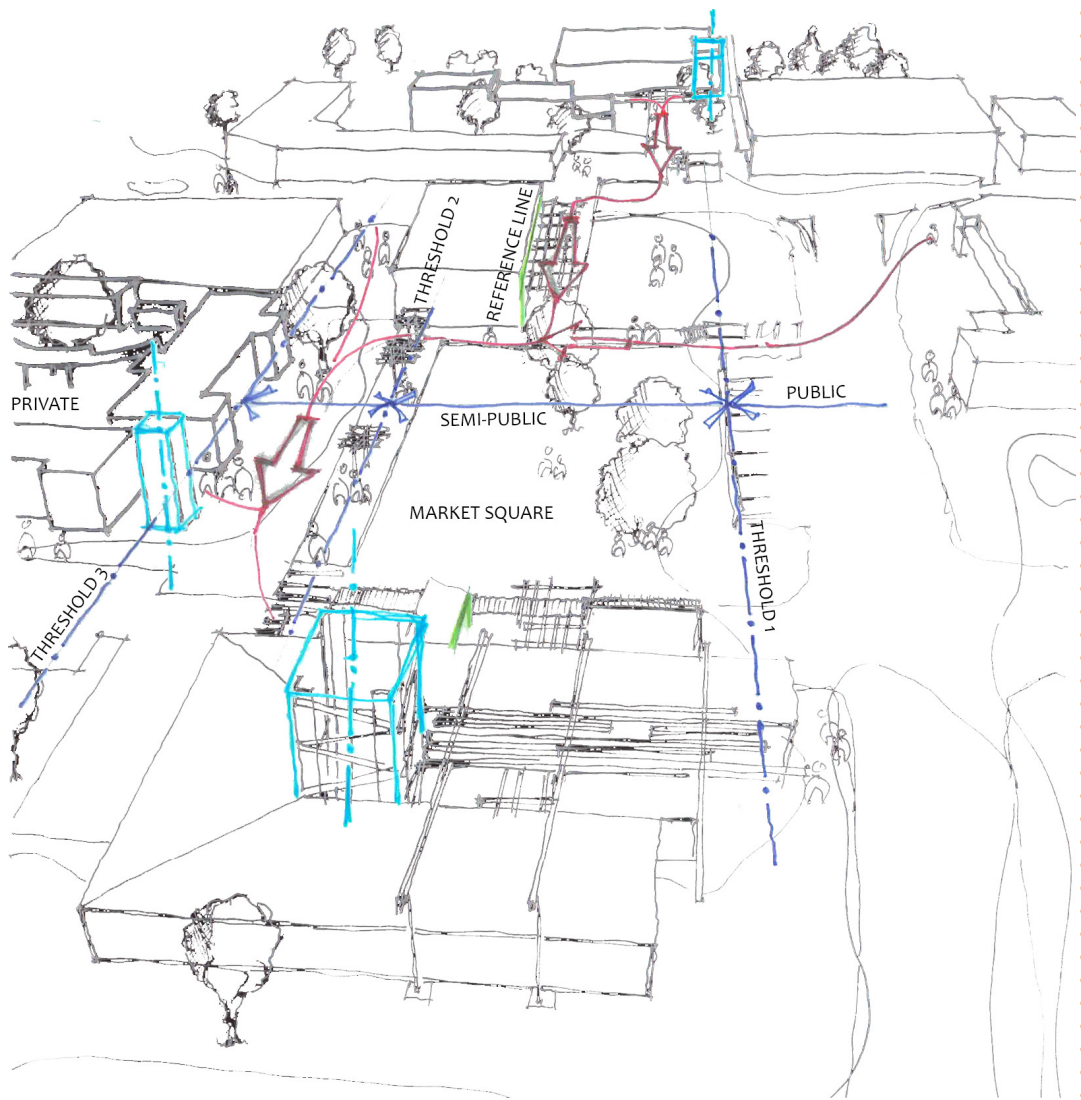


Figure 34: Concept 5 reflection and evaluation 2

Shift/Transformation of identity through spatial evolution.

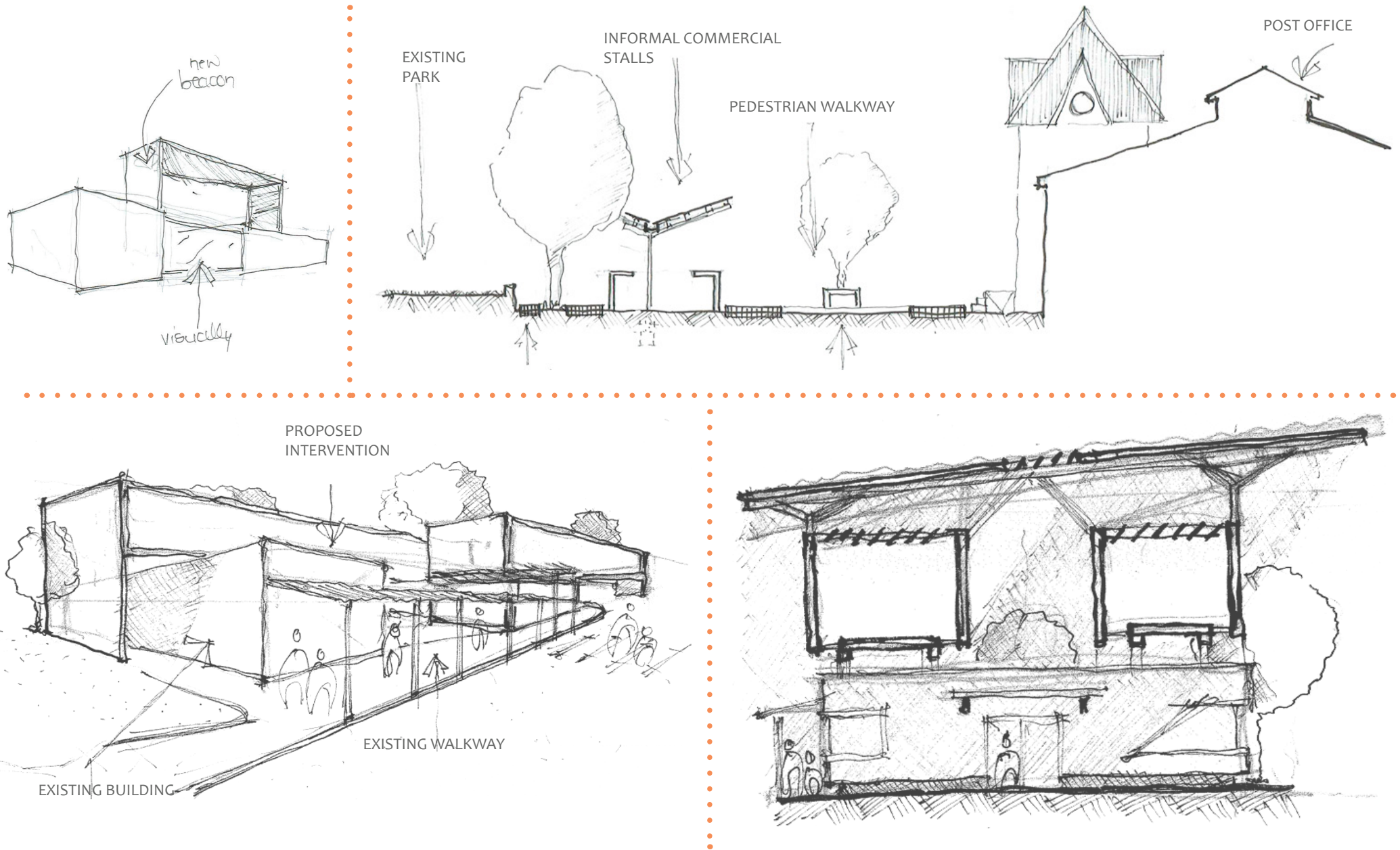


Figure 35: Concept supplementary sketches

Concept 6 - From the river to the water tank tower - a point of reference:

The flow of the town's people was very important and that had to become effortless through spatial bubbles that incorporated courtyards and 'green' spaces. This was further developed using the fish trap that is somewhat similar to the lapa. The lapa becomes a physical barrier whilst the fish trap is also physical, but allows for the visual penetration of the user.

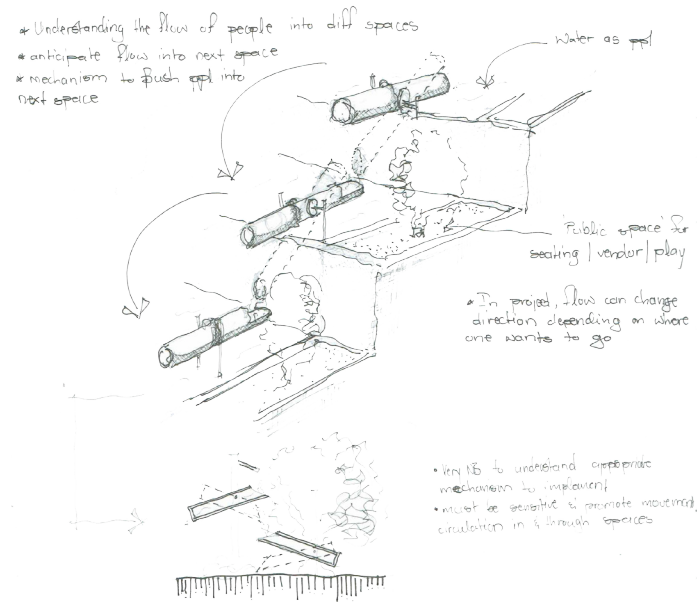


Figure 36: Water and channelling it

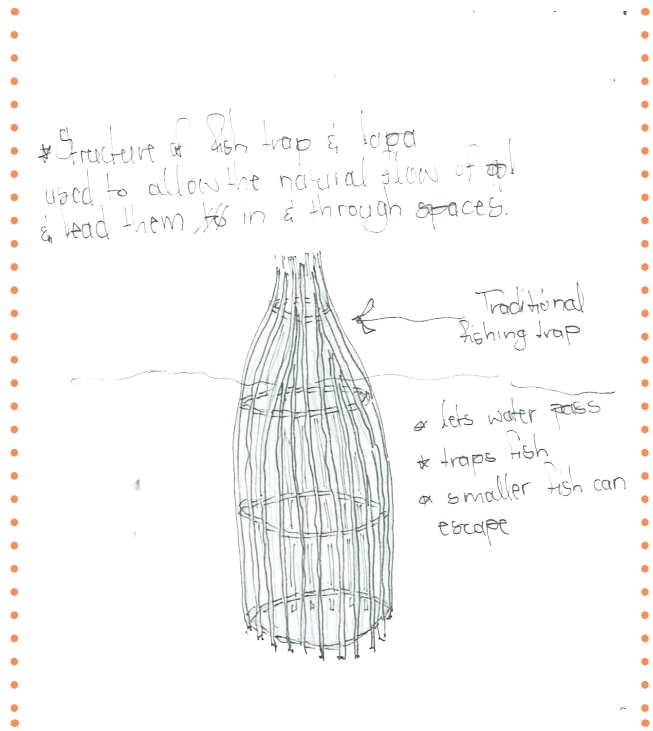


Figure 37: Allowing the flow to continue

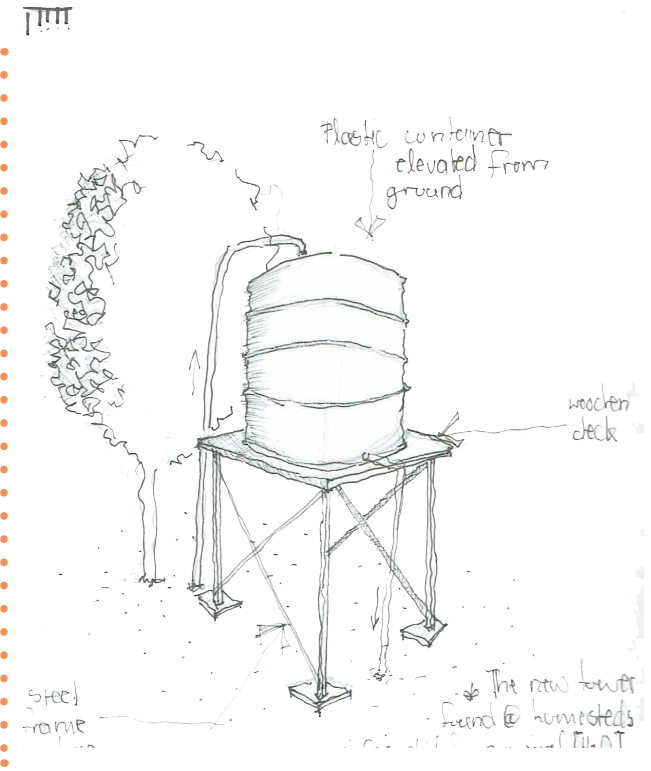


Figure 38: Storing the water

The villages are becoming more developed and the water tank tower is one of the elements used to improve the livelihood in the countryside. The water tank towers are placed at the entrances to the villages and thus become beacons in the landscape and I thus decided to re-interpret the water tank tower using the re-designed 'water tank tower' as the reference point for the proposed intervention.

2. COMPREHENSIVE ANALYSIS

This framework is designed to assist in making decisions and taking actions that are justified as well as unique to the context. Connecting to the existing townscape and finding the appropriate location for the new headquarters are some of the few objectives that are to be achieved in this dissertation



Figure 39: Chobe River and Mud house (middle) in flood area (Mabakeng, 2011: Online)

2.1 TOPOLOGY

The town is small and is in need of civil and social developments that would uplift the urban fabric and attract the passer-by into its core. An Urban Design Precinct Proposal was thus necessary to reveal how and where the extension of the urban intervention should occur for a more natural, social growth of the town fabric. By activating the new links to other parts of the town, a more natural, familiar and friendlier layout was achieved that the rural and urban town dweller alike could inhabit. Correa (1989) describes this as pinpointing the pressure points of an area and adjusting them. This simple, basic action as humble as it may be, has a greater effect on a larger scale as it is truly an urban design approach that has the community's interests at its core.



Figure 40: Ngweze location



Figure 41: Main roads (derived from Google earth, 2012: Online)



Figure 42: Negative nolli (left) & nolli diagram (right)

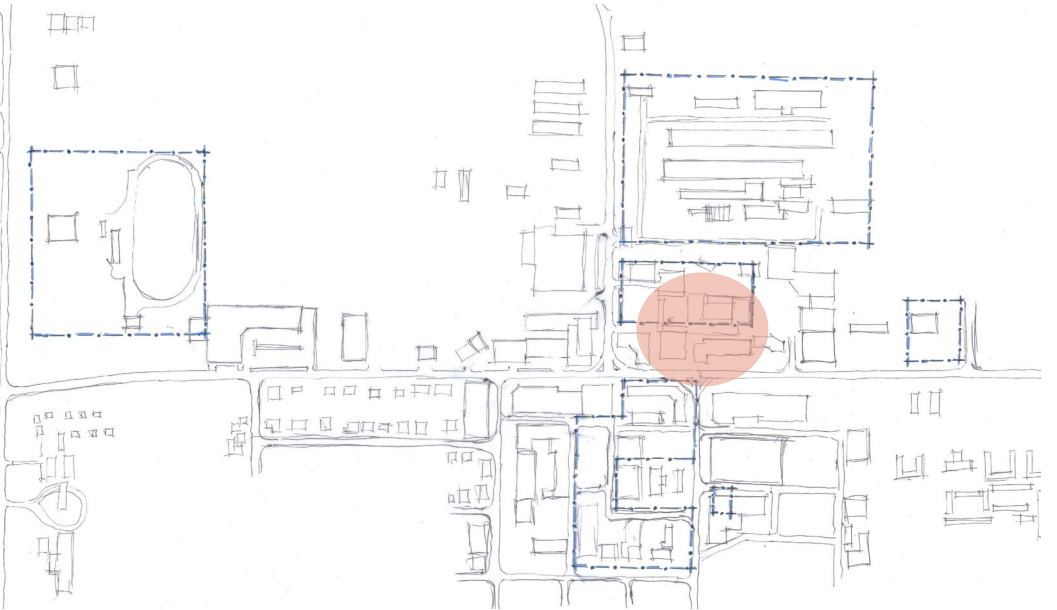
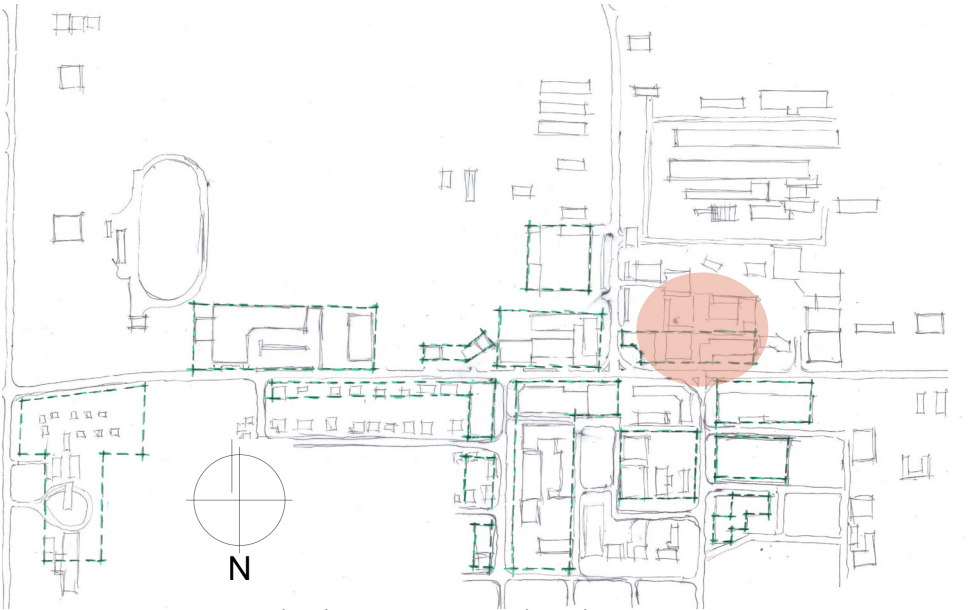


Figure 43: Economic (left) vs social spaces (right)

The nolly diagrams investigate the density, revealing that the town is densely condensed at its core, disintegrating towards the west and east. The open spaces on the outside can be used as the primary locations for the urban design precinct by filtering and weaving through into the town's core. Figures 43 show the social & economic activities in and around the site.

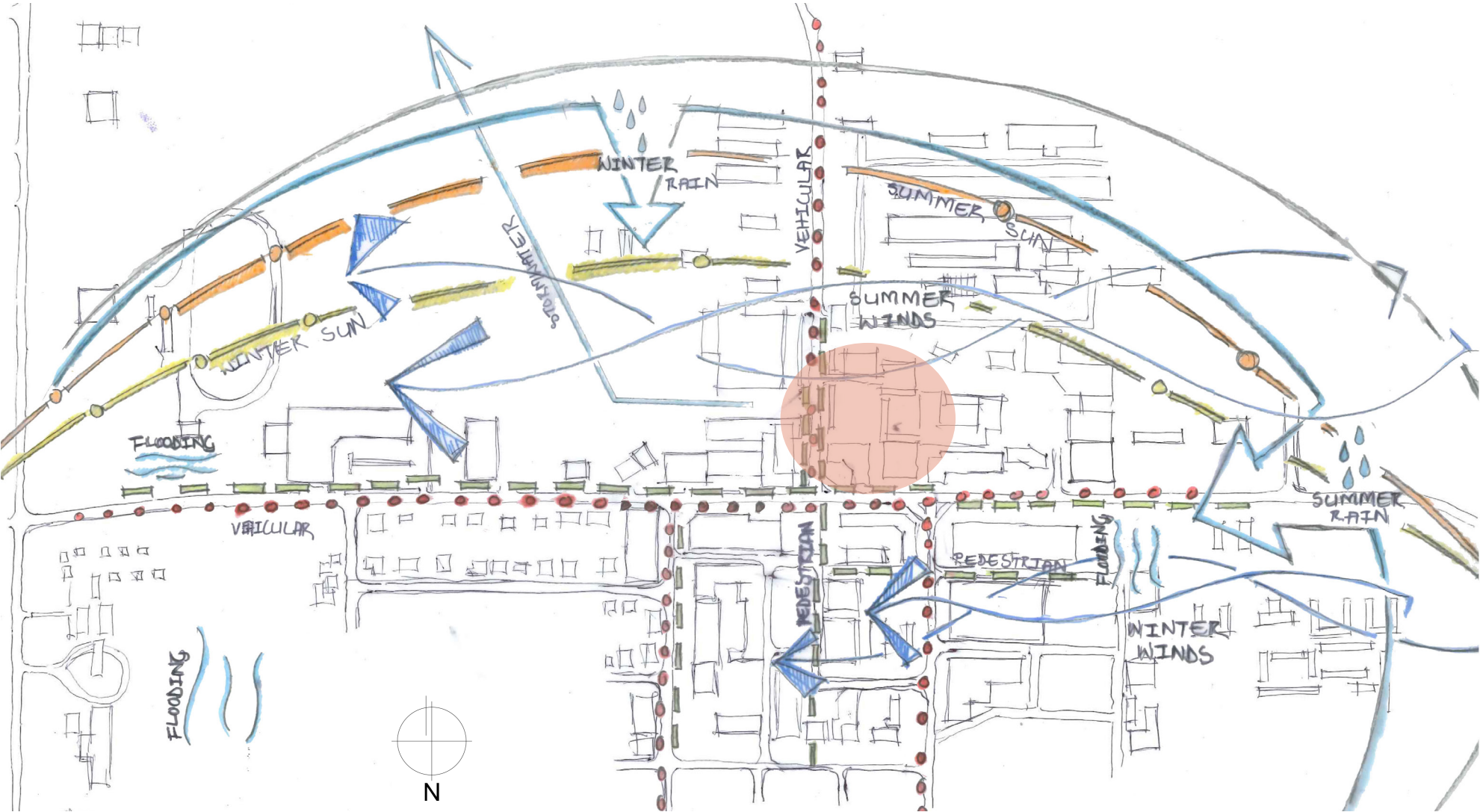


Figure 44: Climatic, pedestrian & vehicular movements

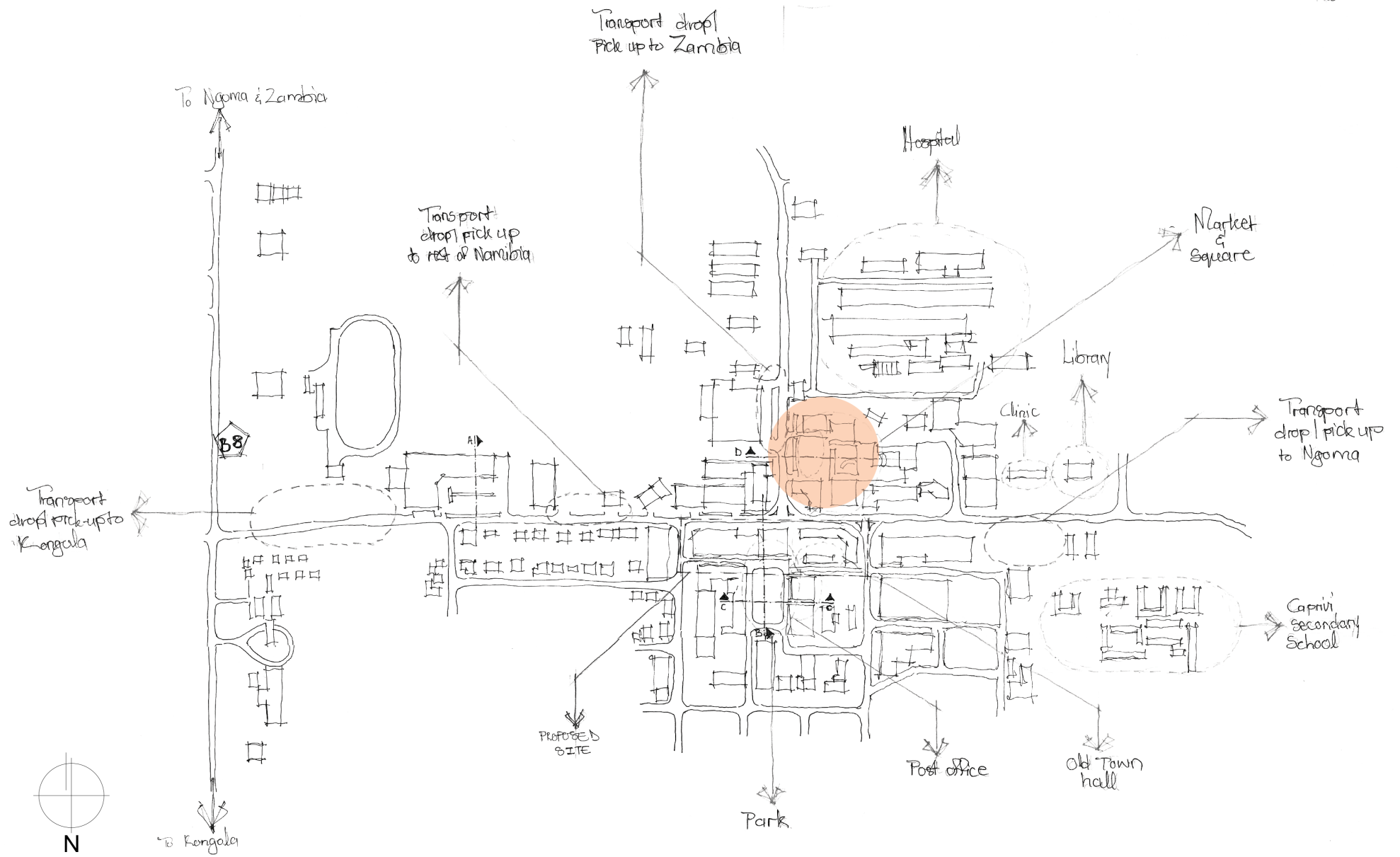
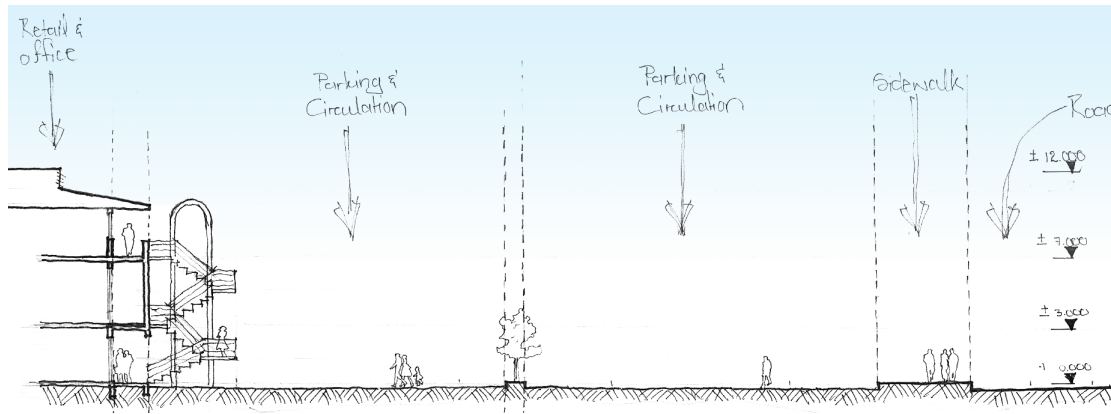
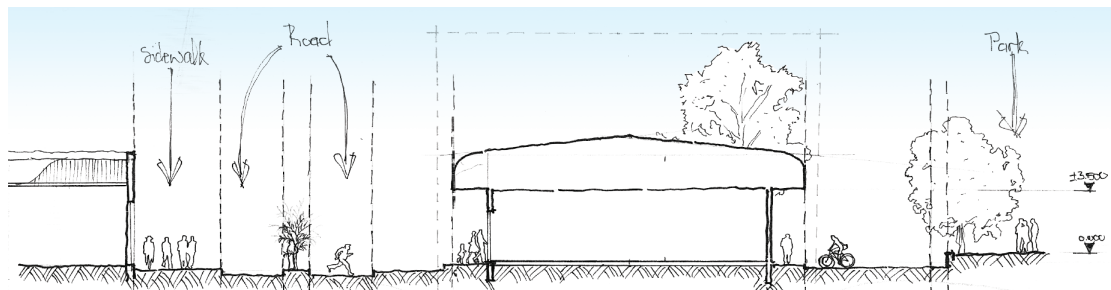


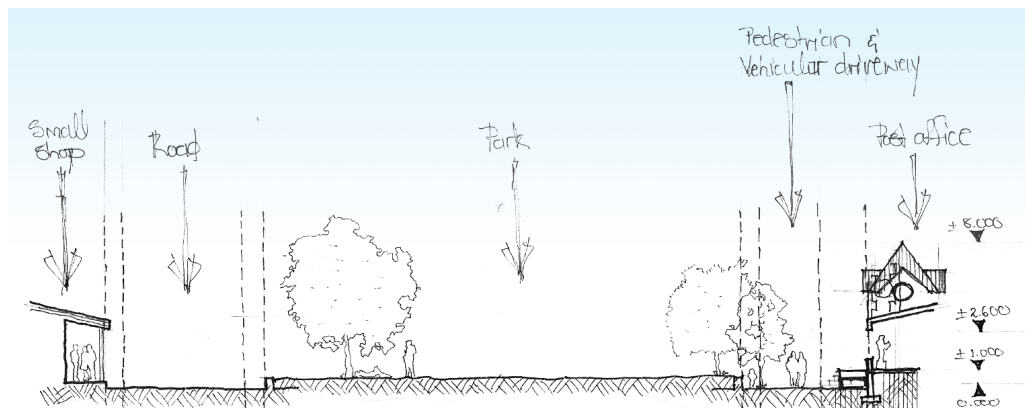
Figure 45: Locality plan of Katima Mulilo



Section A-A: Shopping complex to Hage Geingob Street, shows the vast parking area that could use some urban intervention with the introduction of stalls for vendors and landscaping.



Section B: Illustrates narrow streets with sidewalks for pedestrians. The sidewalk is, though, also used for parking, decreasing the safe space required for pedestrians and cyclists to use. This also shows how the park is set in background, but raises questions as to why the park cannot be visually linked to the street.



Section C-C: The intimate scale of the town is best seen here. The surrounding buildings around the park are low and trees are used to visually decrease their scale just in case they overwhelm the park space.

Figure 46: Sections through the town

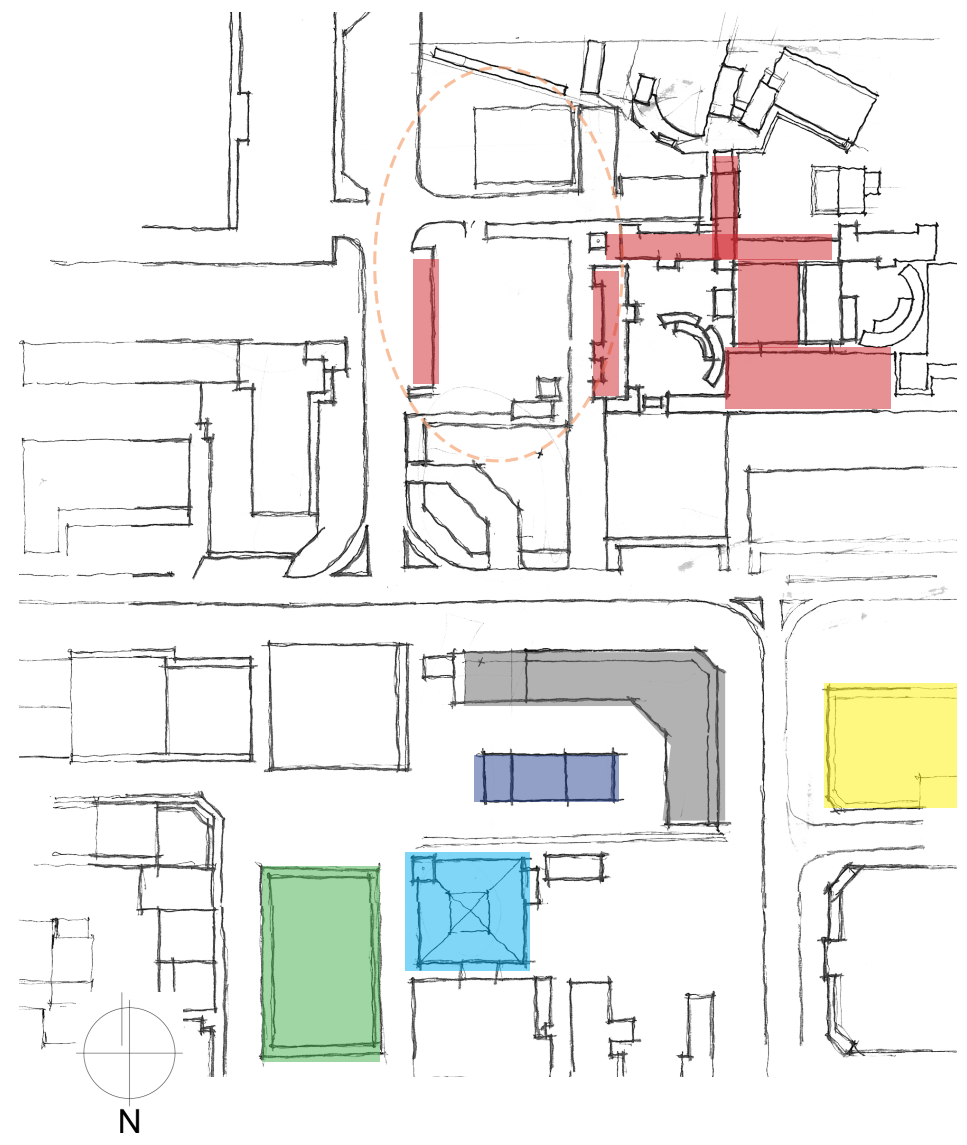


Figure 47: Flow, vendor and obstruction layout

Figure 48: Micro locality layout

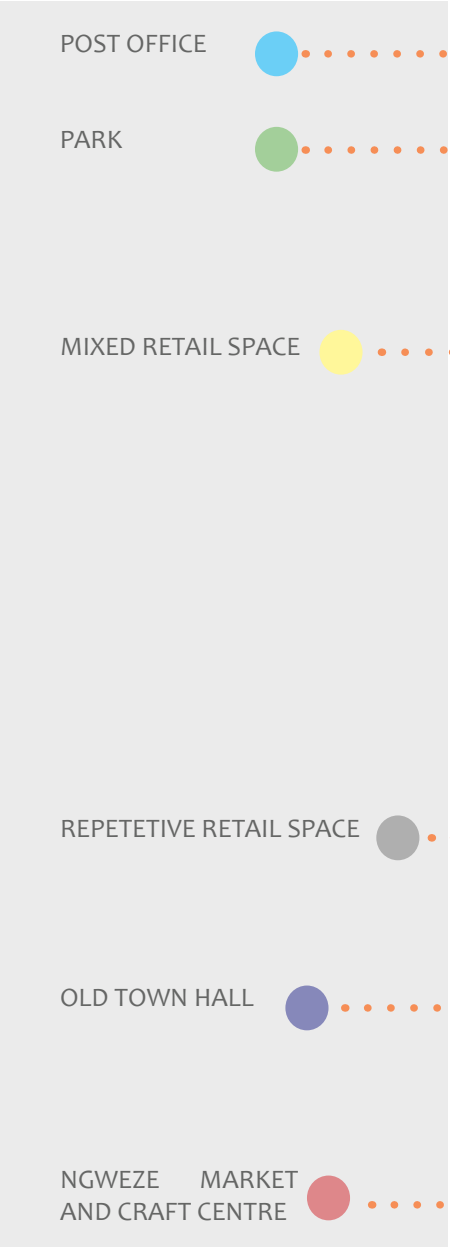


Figure 49: Hage Geingob Street viewed from West (Sanzila, 2015)

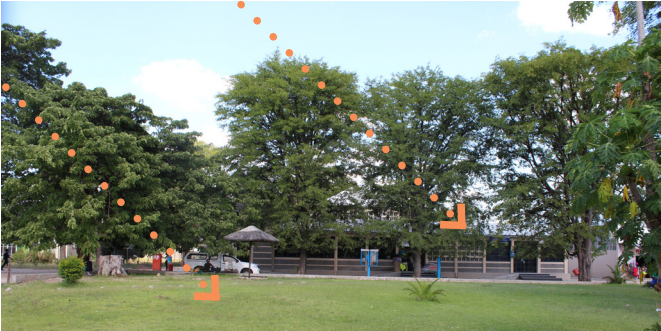


Figure 51: Park with Post Office across



Figure 50: Old town hall next to the Post Office



Figure 52: Ngweze market tower by Mackintosh and Lautenbach Architects

2.1.1 URBAN PRECEDENTS

- Informal Settlement Transformation Programme
SUN Development
- Vilakazi Street Articulated School Fence
UrbanWorks Architecture and Urbanism
- Blurring the Infrastructural Realm
Tina Chee

Informal Settlement Transformation Programme_Khayelitsha by SUN Development

When working within the city or town, one cannot simply ignore the mix of social and economic patterns and elements that make up the urban fabric.

The natural paths and nodes of the user are etched into and onto the site. Erasing them or covering them without a sound reason will most likely result in the intervention being perceived as objectionable.

- 1 Precinct 1
- 2 Khayelitsha Hospital
- 3 Khayelitsha Railway Station
- 4 Harare Police Station
- 5 Harare Urban Park
- 6 Kwamfundo School
- 7 Harare Library
- 8 Harare Square
- 9 Luleka School



Figure 53: Pathway for the urban proposal

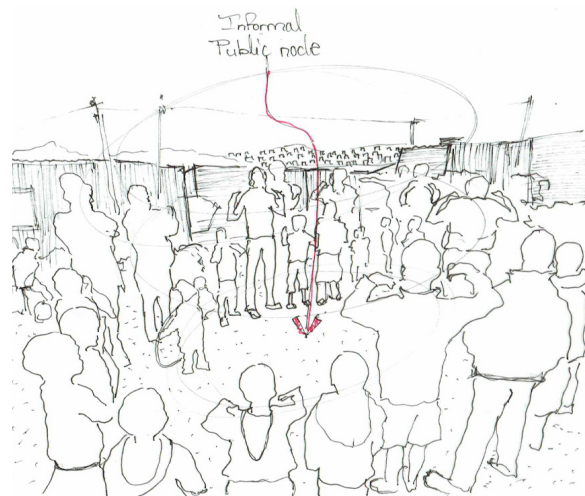
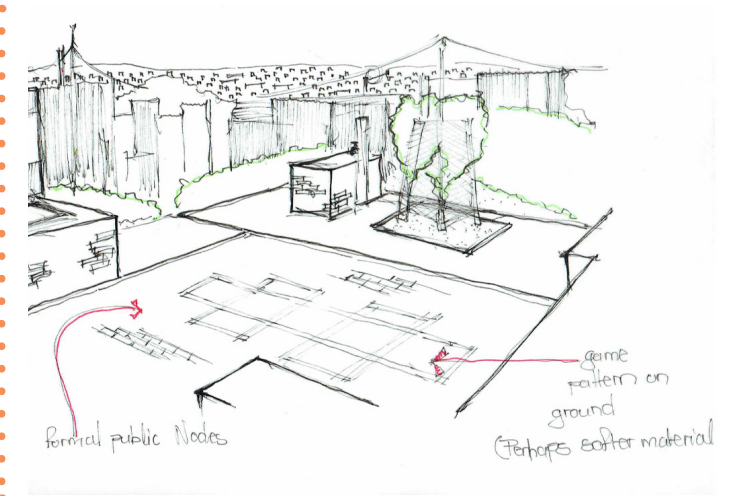
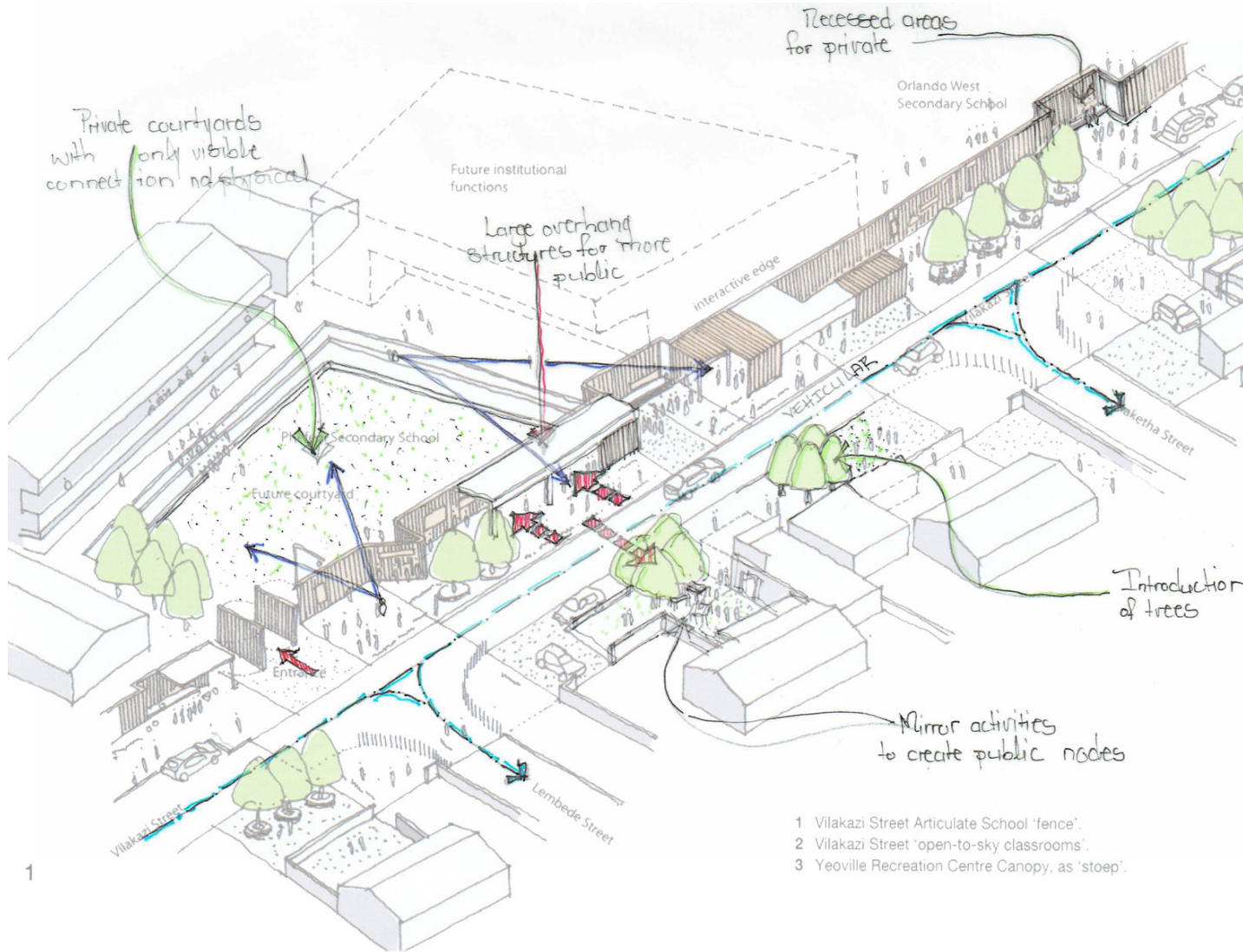


Figure 54: Previous playing area (left) and Re-developed space (right)



Vilakazi Street Articulated School Fence_JHB by UrbanWorks Architecture and Urbanism



Simple informative, emotive interventions are necessary in an urban setting.

These have the ability to create a better social atmosphere that will enhance the interaction of the building with the rest of its context.

Figure 55: Fence proposal analysis and outcomes

Blurring the Infrastructural Realm (Types A-D) by Tina Chee

Types A-D by Tina Chee are a series of solutions to the spatial needs of the machine and man while incorporating and using nature as the link between the two. They focus on the different areas of a path and hint at ways of handling areas where an influx of pedestrians is expected over the vehicles and vice versa. These principles begin showing the necessity of providing seating and proper cover at every area where the pedestrian is a priority as well as making a provision for bicycles.

VARIED PARKWAY EXPERIENCES



USER INTERFACE



DETAIL STREETSCAPE PLAN



TYPE A



TYPE B



TYPE C



TYPE D

Figure 56: Pedestrian, cyclist and vehicular path design



Figure 57: Habana village_ typical hut (foreground) and new hut house (background)



Figure 58: Small retail shop (Sanzila, 2015) and Post office



Figure 59: Ngweze Market by Mackintosh and Lautenbach Architects



Figure 60: Repetitive retail shop

2.2 TYPOLOGY

The conflict leading to independence between Namibia and South Africa did not affect the Zambezi region as much as the north-western and central areas of Namibia. The Zambezi region was left as an area that governed itself. This meant that, it was mostly used as the entrance point for the liberation army into Namibia. The residential areas along the river banks were provided with bomb shelters that together with the old military base are the only signs of conflict preparation in the town. The rest of the town expanded away from the river banks with the town CBD placed between the residences along the river, military base and the rest of the town. The CBD was used as the transition space between the two areas which were most likely white and black.

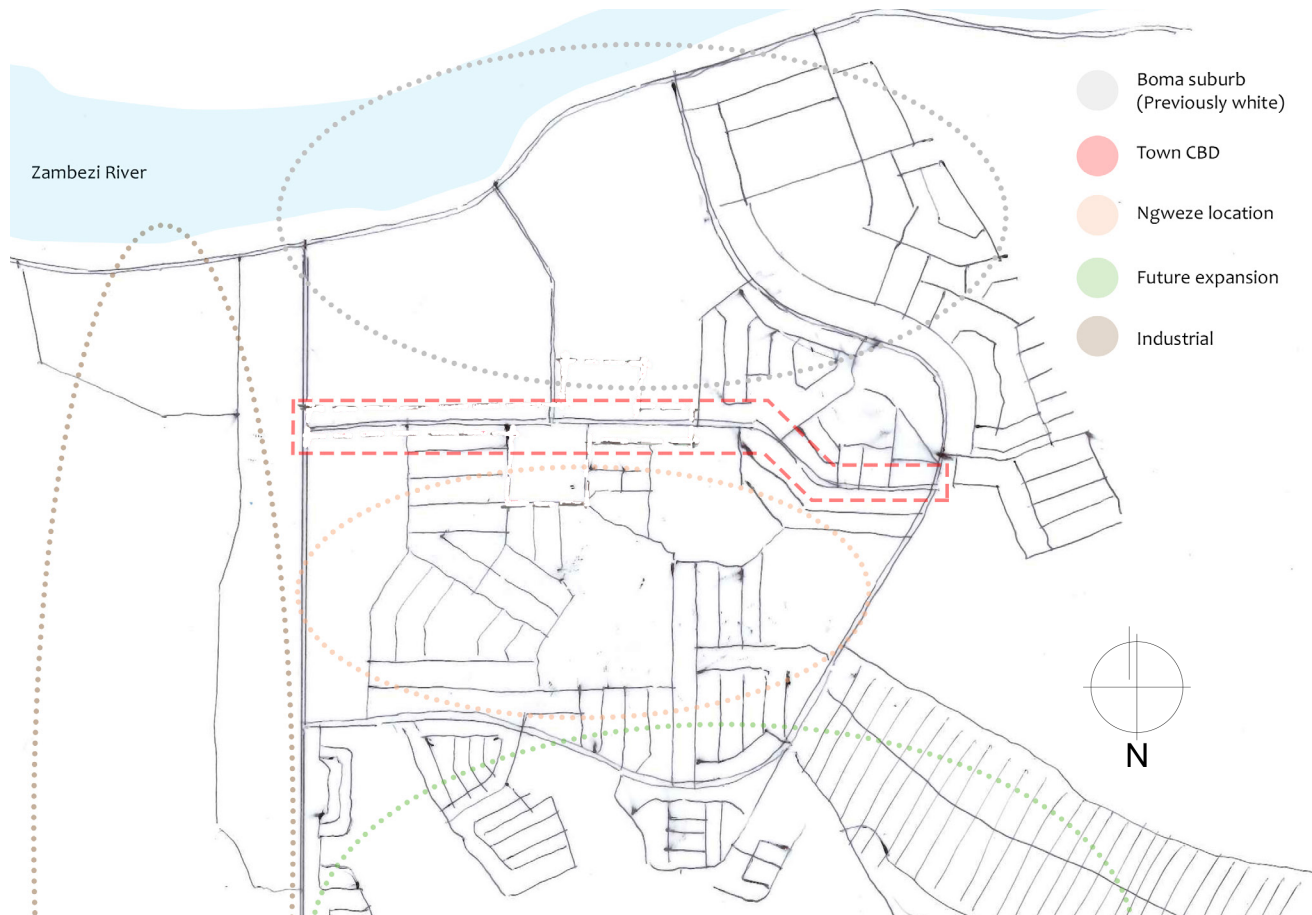


Figure 61: Suburb layout of Katima Mulilo (derived from Google earth, 2012: Online)

The vernacular architecture is simple and designed to incorporate a sense of community within the homestead. This idea is spread throughout the entire rural areas of the region and creates micro-communities within the macro context. The organizational structure of the home within the homestead also uses this system, using mini-thresholds that lead the visitor through the space until it finally culminates in the house.

Connecting the orphans and pensioners to the town and its people is the driving force behind the move to construct new offices by the client. Situated on the same ERF as the Ngweze market and Art and Craft's Centre as well as surrounded by the Post Office, Town Hall, Hospital, Banking institutions, Shoprite and Taxi ranks all within a 5-10 minutes walking distance radius; the chosen site is the ideal location for the new regional headquarters and is in line with their goal and mission statement for the Zambezi region.

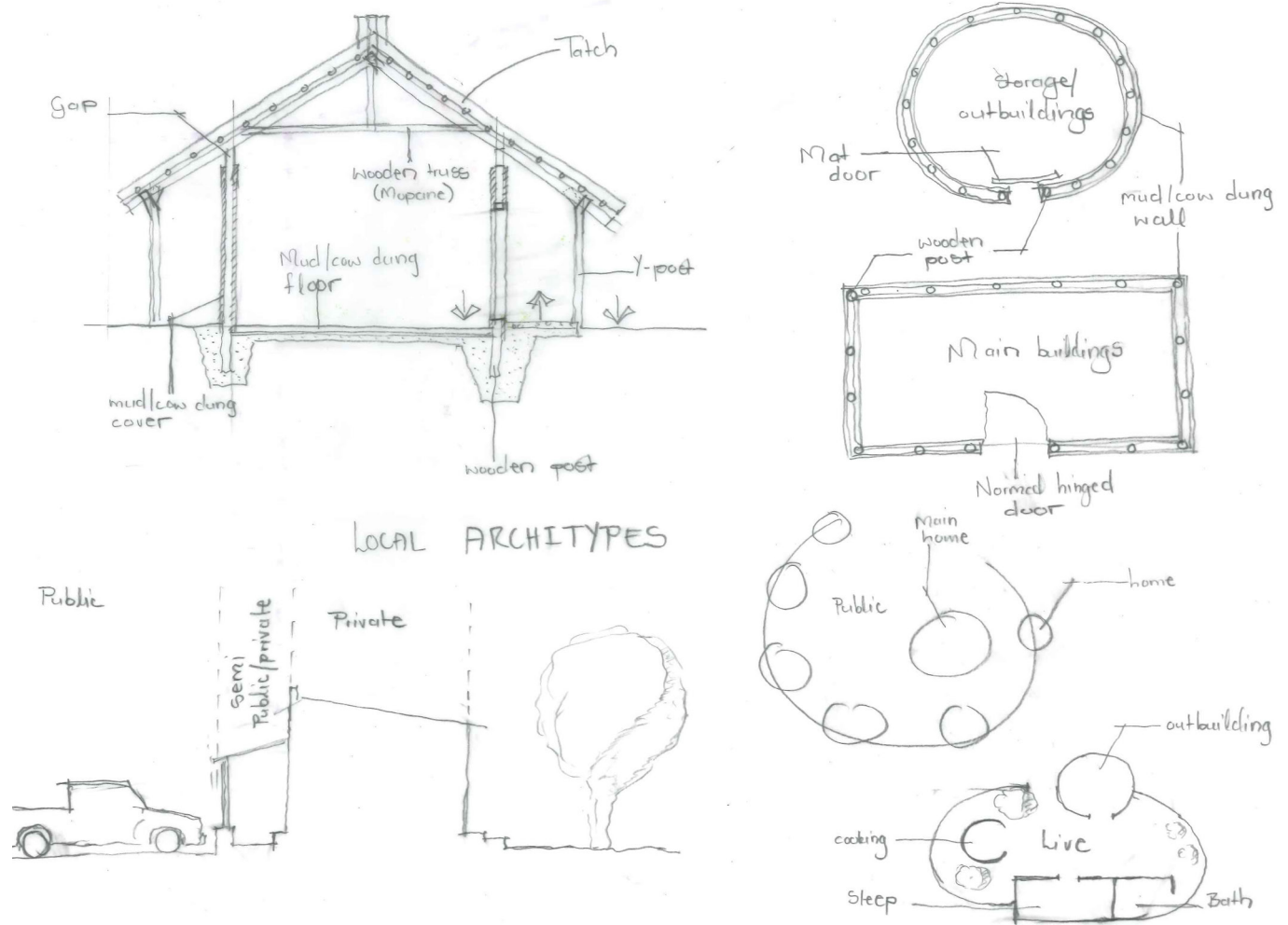


Figure 62: Local vernacular

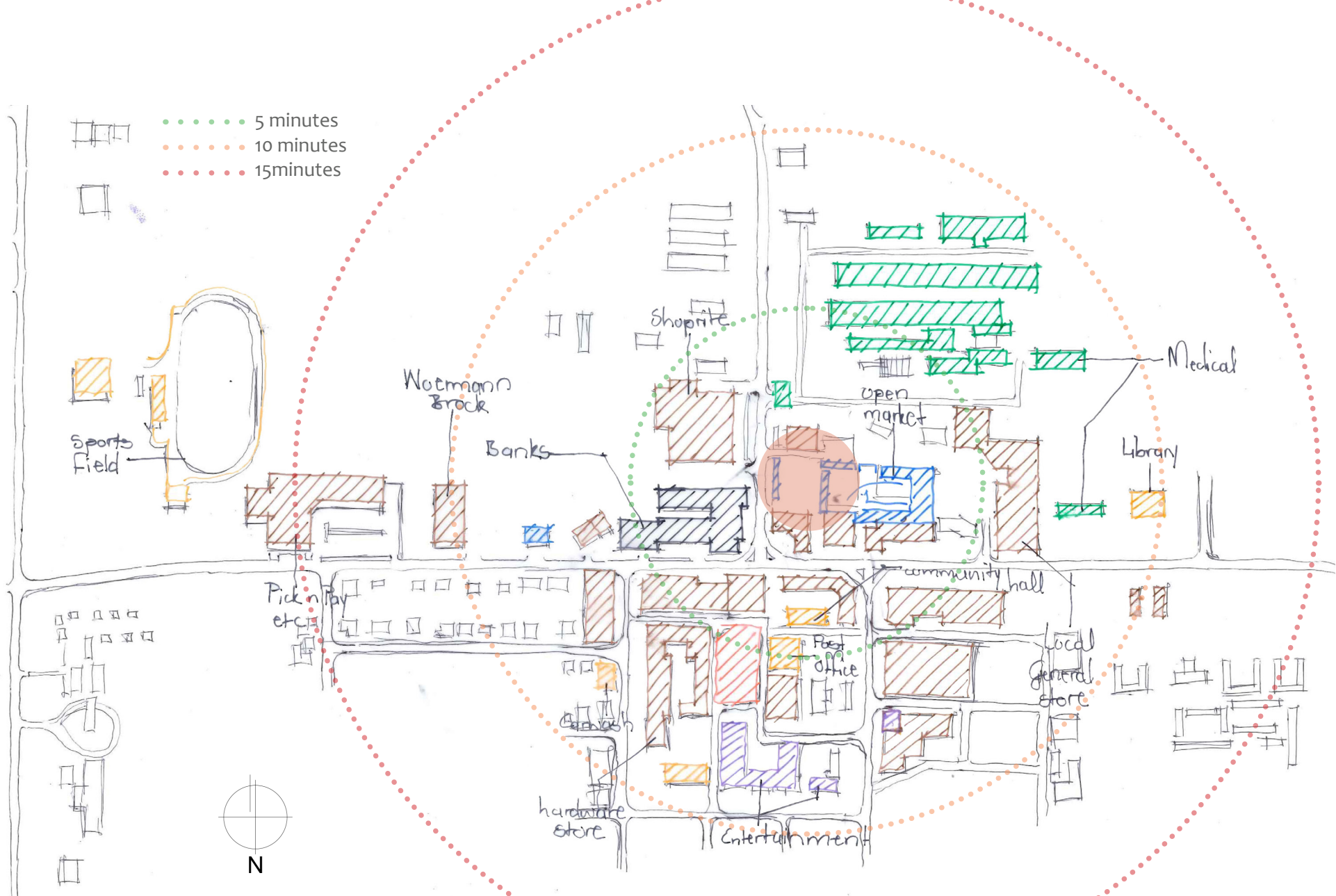


Figure 63: Locality plan illustrating walking distances

Accommodation list for GIPF Regional HQ and Office park_Katima Mulilo_Zambezi Region

Site area	22 962.82 sqm
Allowable coverage	(19518.4 sqm) 85%
Current coverage	(7348.10 sqm) 32%
Bulk	2
Height restrictions	3 STOREYS/10m

Space	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
Entrance (GF)	190	A3 & G1	1 person per 5sqm	32		Male: 1 wc, 1 urinals, 1 hwb. Female: 1 wc, 1 hwb.
Covered entrance	29					
Foyer	22					
Toilets	14					
Waiting area	105					
Reception	12					
Security booth	8					

Space	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
GIPF registration area (GF)	88	G1	1 person per 15sqm	6	Metric Handbook 14 & 15	Male: 1 wc, 1 urinals, 1 hwb. Female: 1 wc, 1 hwb.
3x Consultation	37					
Claims submission	11					
Waiting area	40					

Space	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
GIPF admin department (GF)	187	G1	1 person per 15sqm	29	Metric Handbook 11	Male: 1 wc, 1 urinals, 1 hwb. Female: 1 wc, 1 hwb.
Floor manager's office and store	15					
PA & waiting area	14					
Workspace and store	55					
Boardroom	30					
2x meeting room	31					
Toilets	23					
Kitcehnette	7					
Archives	7					
Refuse area	5					

Space	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
GIPF executive department (FF)	203	G1	1 person per 15sqm	28	Metric Handbook 11	Male: 2 wc, 3 urinals, 3 hwb. Female: 5 wc, 3 hwb.
Regional director's office	18					
HR director	9					
Finance director	9					
Reception & waiting area	27					
Workspace and stationery store	56					
Boardroom	23					
Private break away	21					
Kitchenette	10					
Toilets	20					
Store	7					
Archives	3					

Library (UGF)	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
Library (UGF)	258	A3	1 person per 5sqm	31	Metric Handbook 32	Male: 2 wc, 2 urinals, 2 hwb. Female: 5 wc, 3 hwb.
Entrance lobby	41					
Security booth	10					
Toilets	24					
Kichenette	6					
Foyer and lobby	22					
Media room	22					
Book shelf area	17					
Reading area	10					
Group room	16					
Office	11					
Children's area	18					
Magazines and newspapers	38					
Balcony	23					

Net area	926
-----------------	------------

Additional	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
Additional	463	n/a	n/a	n/a	n/a	n/a
Circulation (19%)	176					
Structure (31%)	287					

Parking requirements	G1_1 parking bay per 25sqm	A3_1 parking bay per 66sqm
Parking	19 parking bays	3 parking bays

Space	Area	Occupancy	Design Population	Actual population	Reference	Ablution requirements
Total	1389	n/a	n/a	126	n/a	Male: 7 wc, 8 urinals, 8 hwb Female: 13 wc, 9 hwb

New Coverage upon completion	(8737.1) 45%
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UNIVERSITY OF THE FREE STATE	DEPARTMENT OF ARCHITECTURE	CONS 7908	VERNON MWAZI 2005101791
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Figure 64: Namibian government crest: Online

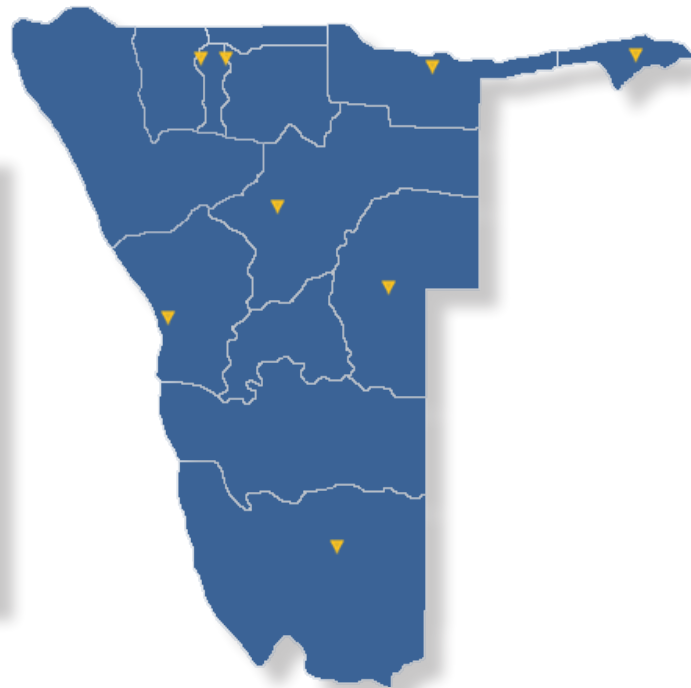


Figure 65: GIPF regional office locations: Online



Figure 66: GIPF clientele: Online



Figure 67: GIPF logo: Online

2.2.2 CASE HISTORY PRECEDENTS

- Roots, Forms and Relevance: Typological Patterns
by Prof. Gerald Steyn

Roots Forms and Relevance_Typological Patterns by Prof. Gerald Steyn

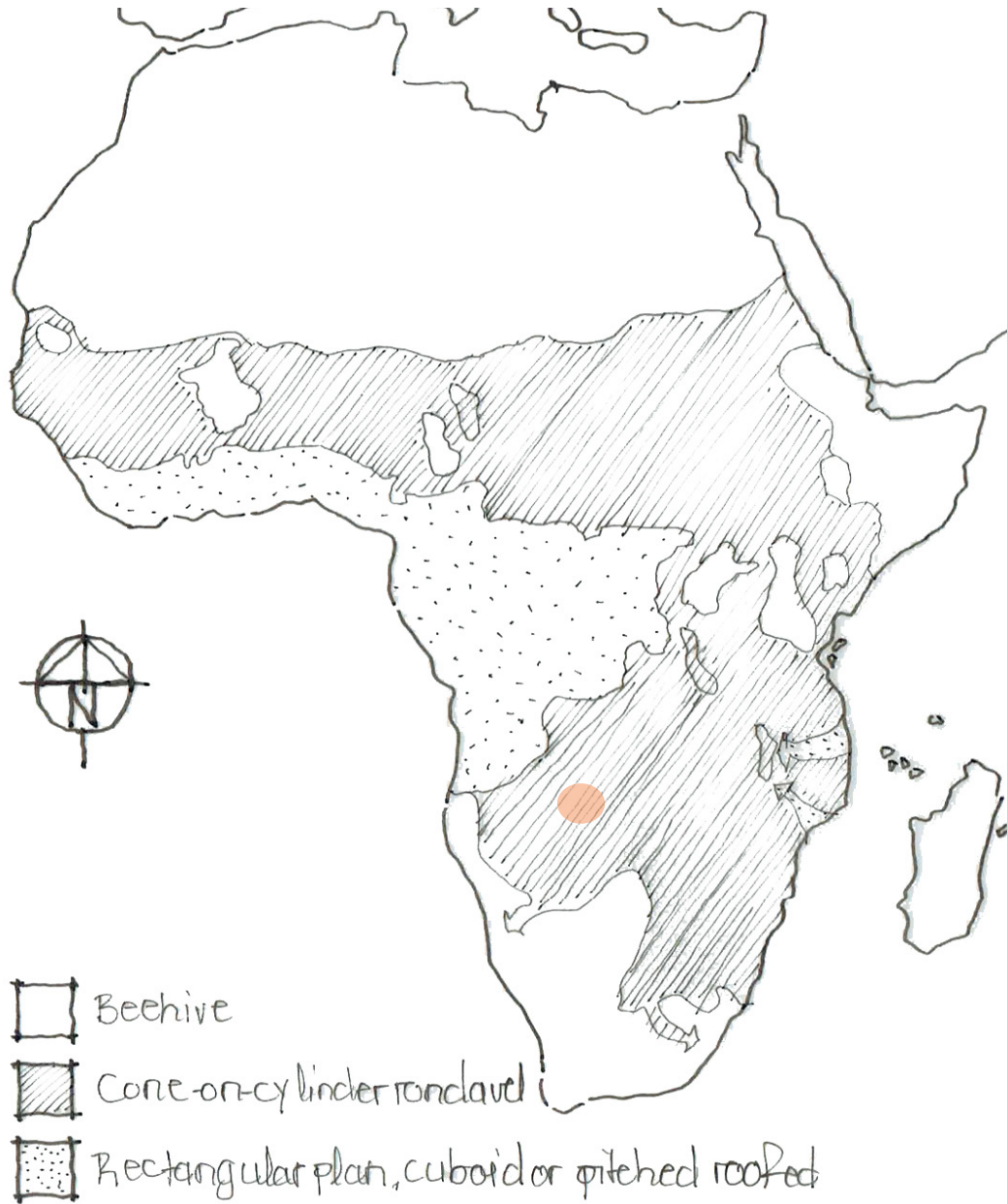


Figure 68: Housing forms in sub-Saharan Africa (derived from Steyn, 2006)

- Through the decades there has been a movement in Africa concerned with generating an African way of building.
- As in any other debate, it is important to understand the historical significance of such a topic so as to put forward valid suggestions and arguments.

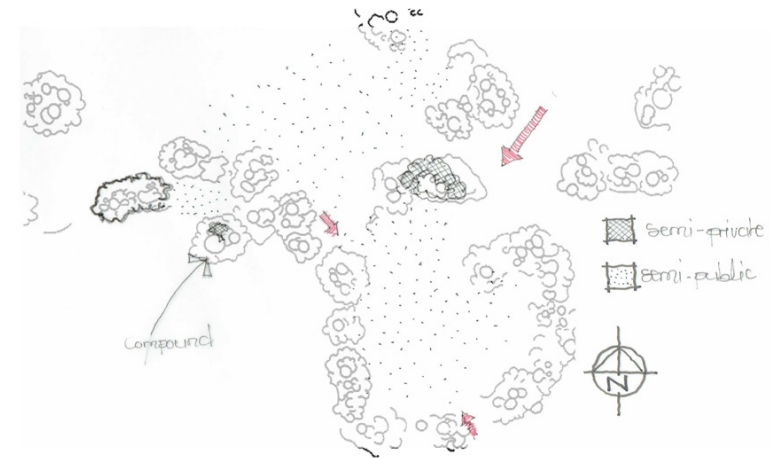


Figure 69: Ruin layout of Tswana village (derived from Steyn, 2006)

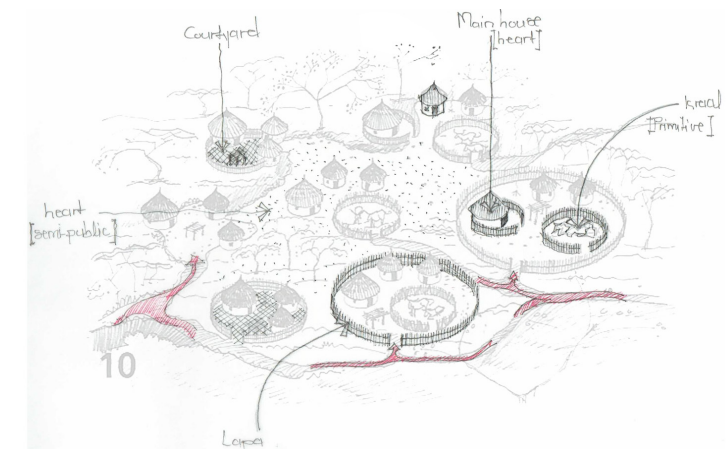


Figure 70: Typical homestead configuration in southern Africa (derived from Steyn, 2006)

2.2.3 TYPOLOGICAL PRECEDENTS

- Mapungubwe National Park Interpretive Centre
by Peter Rich
- Salam Centre for Cardiac Surgery
by Studio Tamassociati
- SIOC Community Development Trust Office Building
by CUBE Architects
- Women's Health Centre
by FAREstudio

Mapungubwe National Park Interpretive Centre by Peter Rich

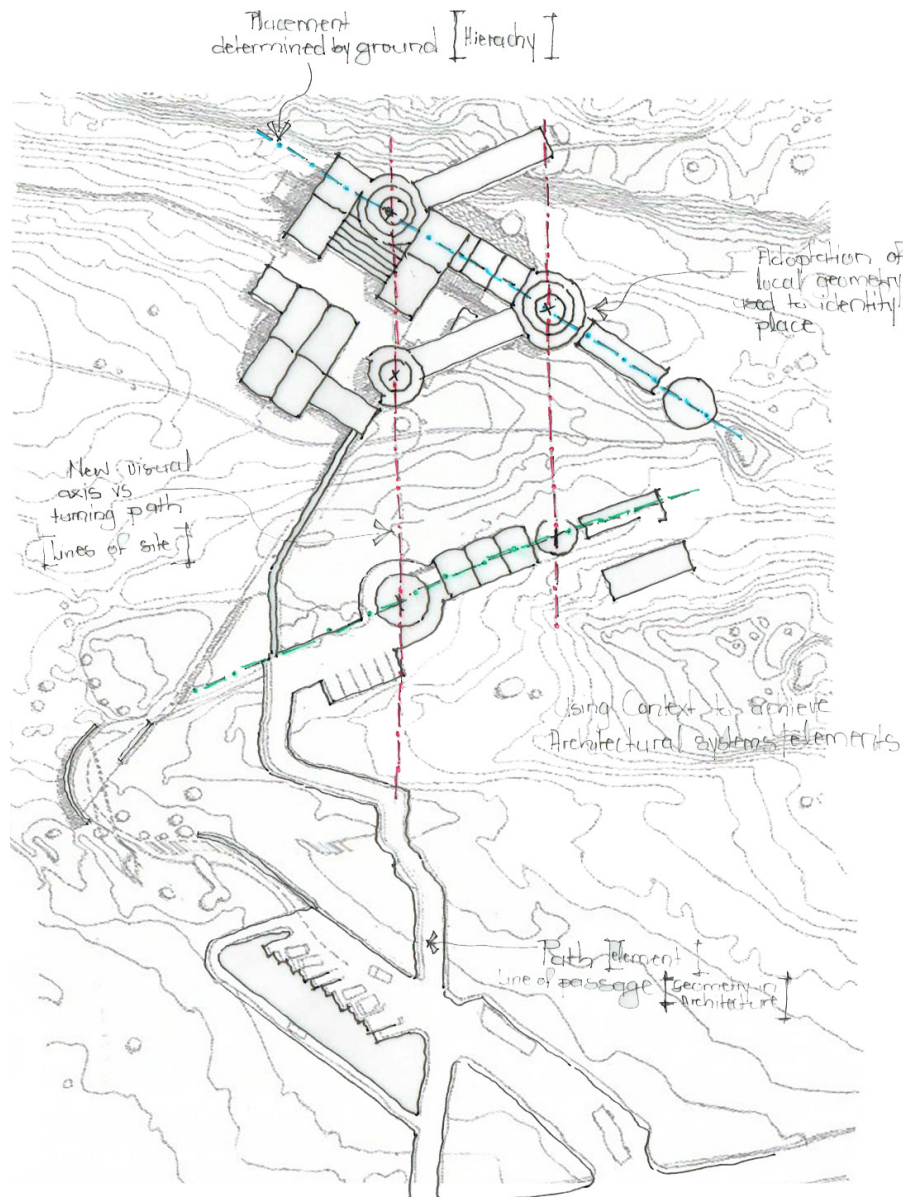


Figure 71: Reconfiguration of typical village homestead using straight principles (derived from Ramage et al, 2009)

The African typological model is organic in form and cannot be adjusted or adapted from the European models.

These models are beautiful and work well in the European city, but the question remains whether they can be copied and be imposed on the African context.

Perhaps a re-investigation of the traditional patterns and models is exactly what is required to properly understand the local African context within which we are working.

Salam Centre for Cardiac Surgery_Khartoum_Sudan by Studio Tamassociati

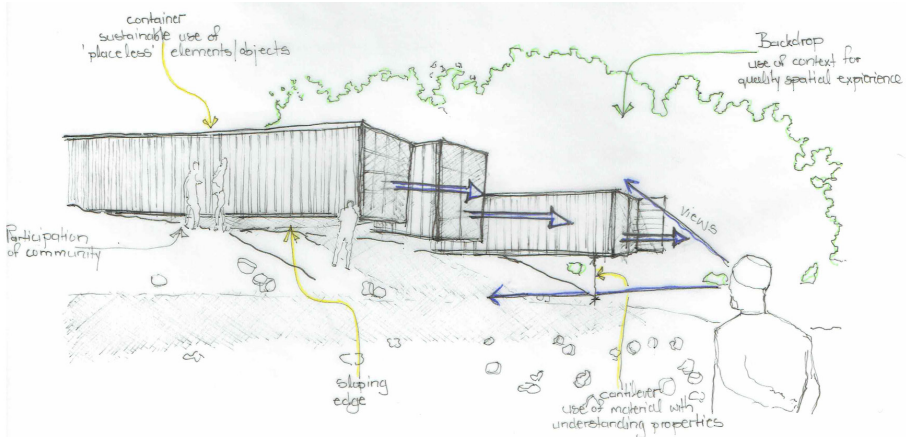


Figure 72: Using the terrain to create unique morphological approach (derived from Fernandez-Galiano, 2011)

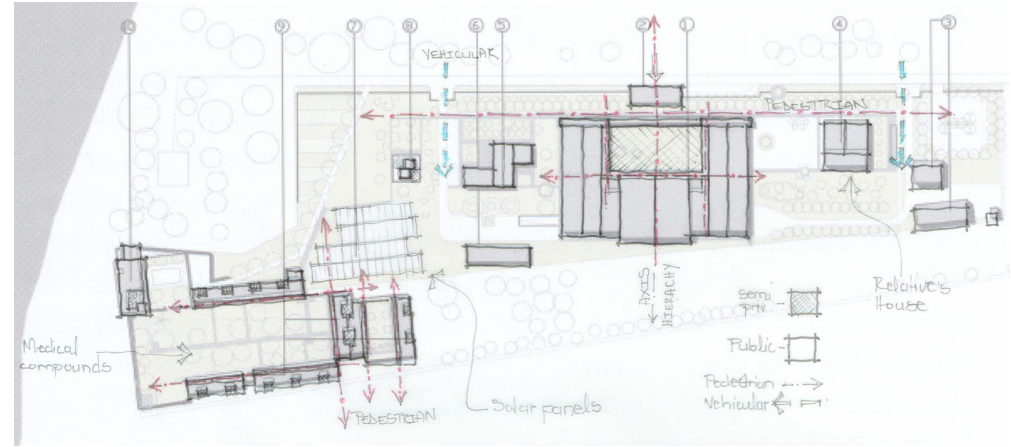


Figure 73: Importance of unobstructed circulation (derived from unknown, 2013)

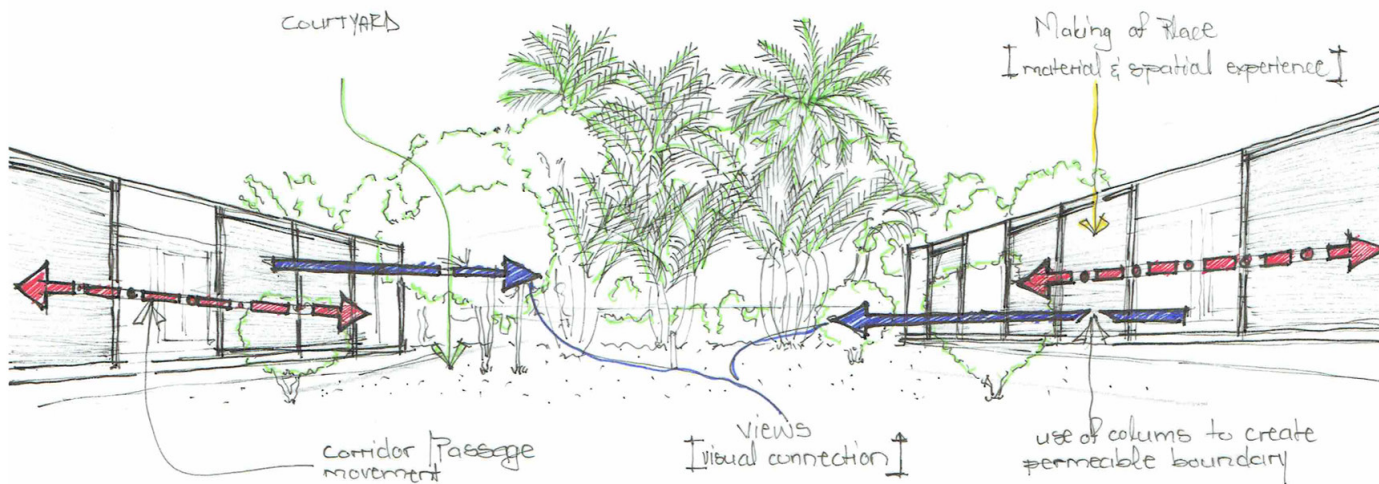


Figure 74: Views from circulation paths (derived from unknown, 2013)

The type of building that I am proposing is a juxtaposition of functions ranging from economic to social activities. The Centre will require offices, boardrooms and small media rooms which will be used to engage the public.

The precedents chosen range from centres constructed to assist people to spaces with a myriad of functions such as waiting areas, courtyards, walkways, etc.

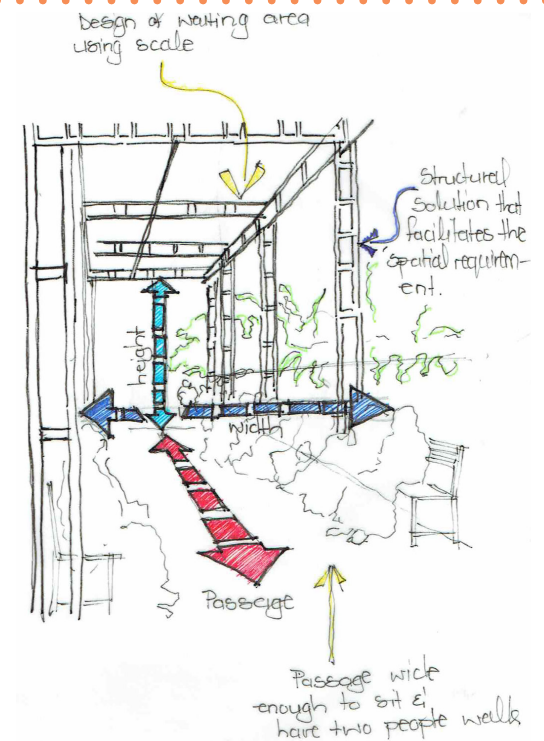


Figure 75: Appropriate scale along path (derived from unknown, 2013)

SIOC Community Development Trust Office Building_Kathu_S.A. by CUBE Architects

Chosen for its similar functional use, the building illustrates how the functional spaces can be arranged to be closer to the entrance and within visual range of the front desk. Access to the public spaces was also made clear with as few obstructions as possible. Apart from this, the design was done to blend into its landscape through its roof design and material selection mimicing the Acacia tree and red earth of the area.

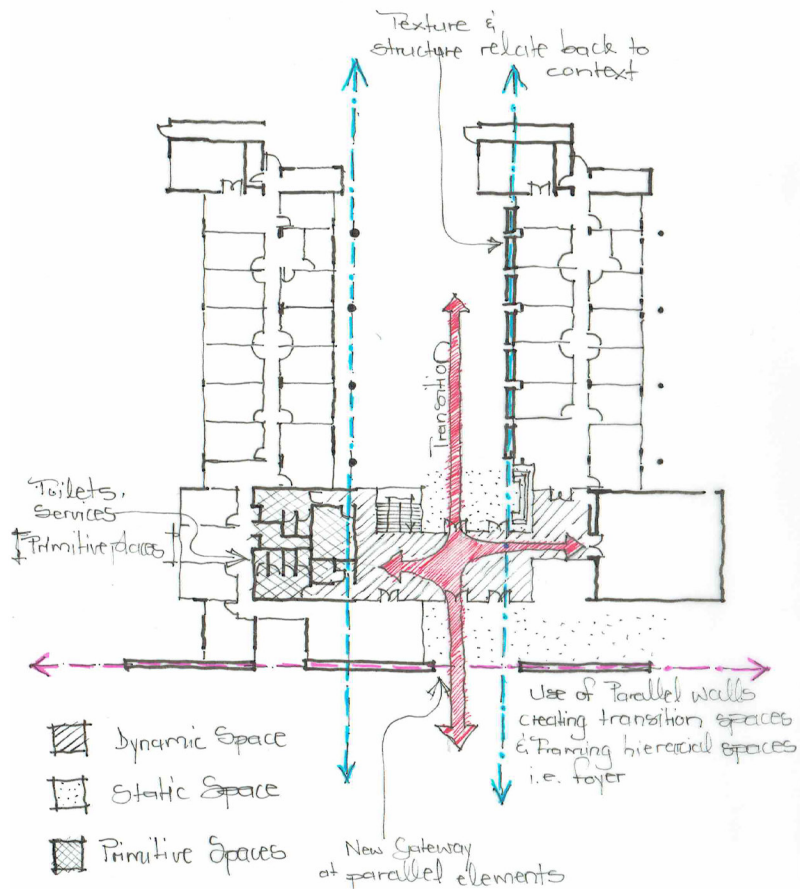


Figure Figure 76: Client flow through the building (derived from Olivier et al, 2013)

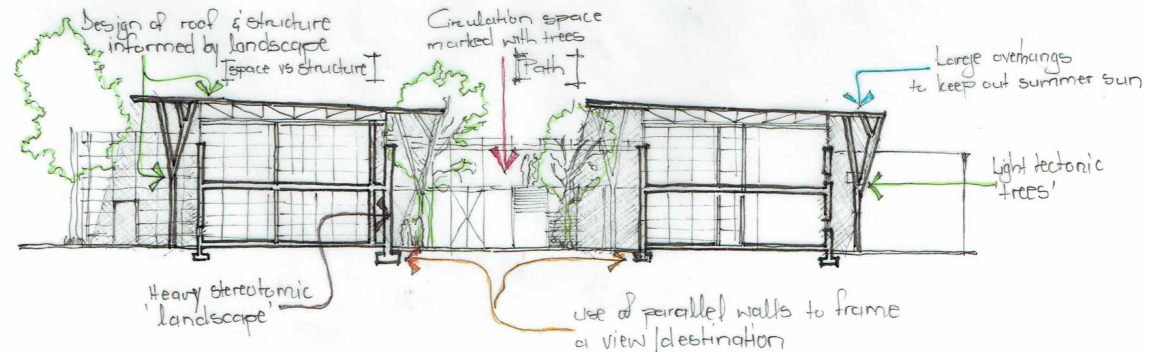


Figure 77: Architectural elements modified by the climate and context (derived from Olivier et al, 2013)

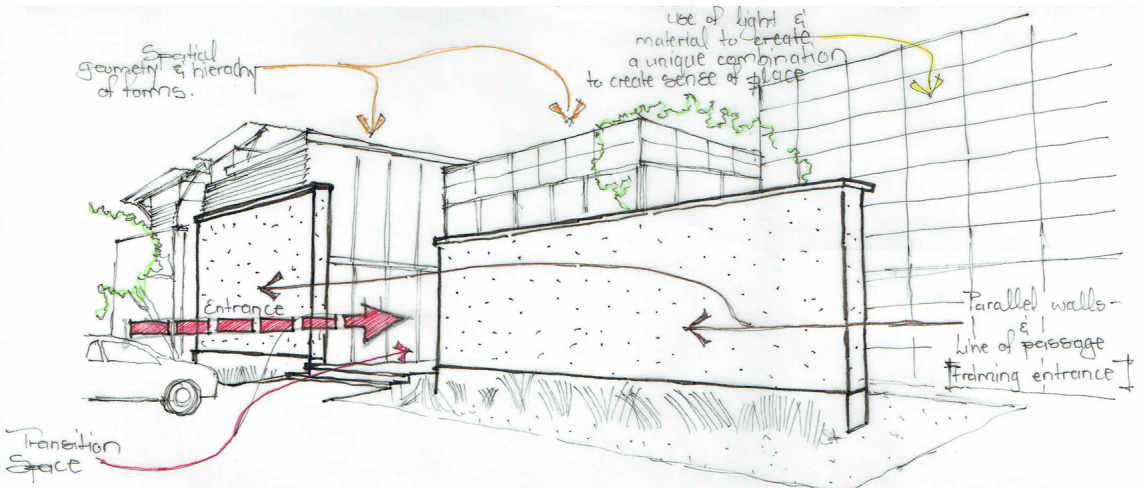


Figure 78: Articulation of entrance into the building (derived from Olivier et al, 2013)

Women's Health Center_Ouagadougou_Burkino Faso by FAREstudio

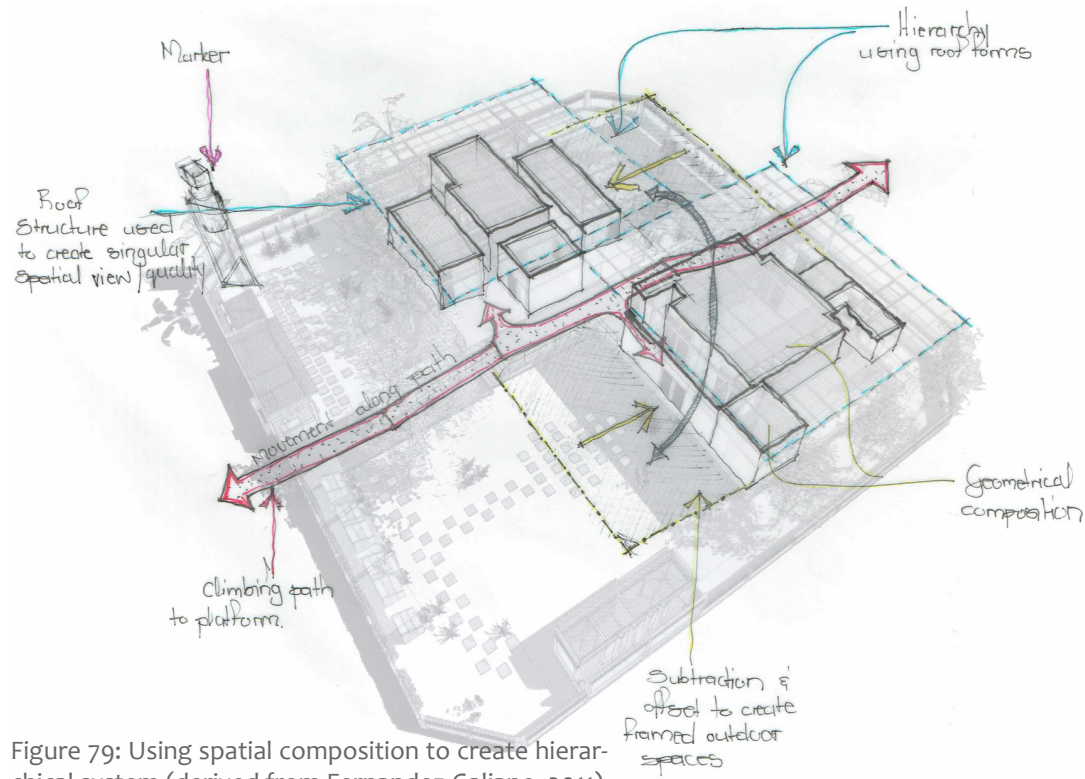


Figure 79: Using spatial composition to create hierarchical system (derived from Fernandez-Galiano, 2011)

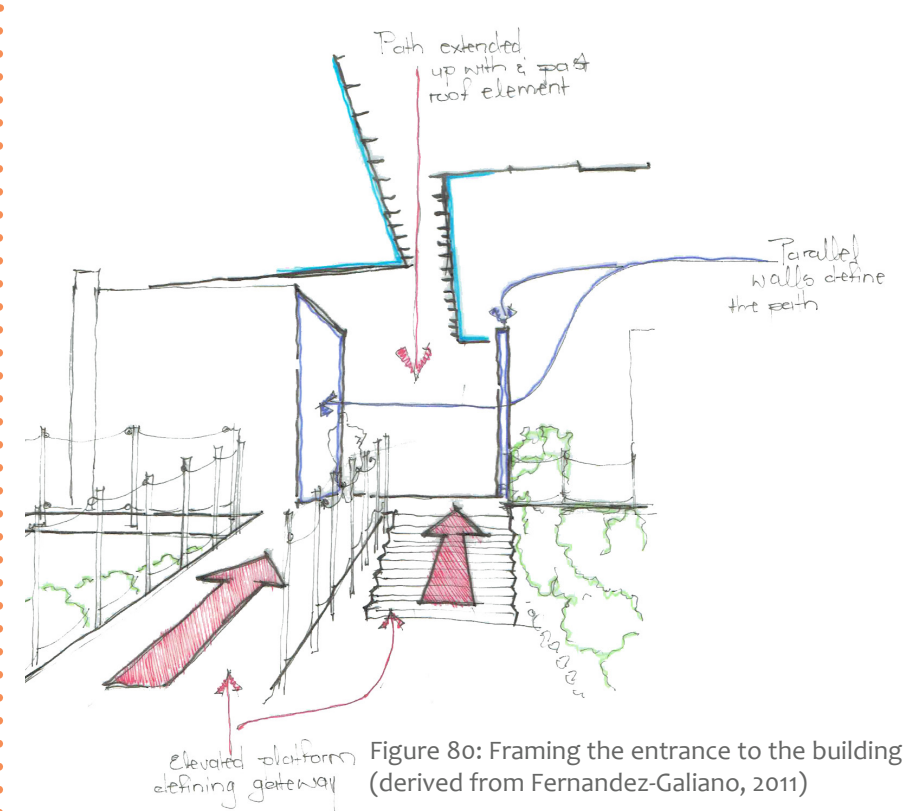


Figure 80: Framing the entrance to the building (derived from Fernandez-Galiano, 2011)

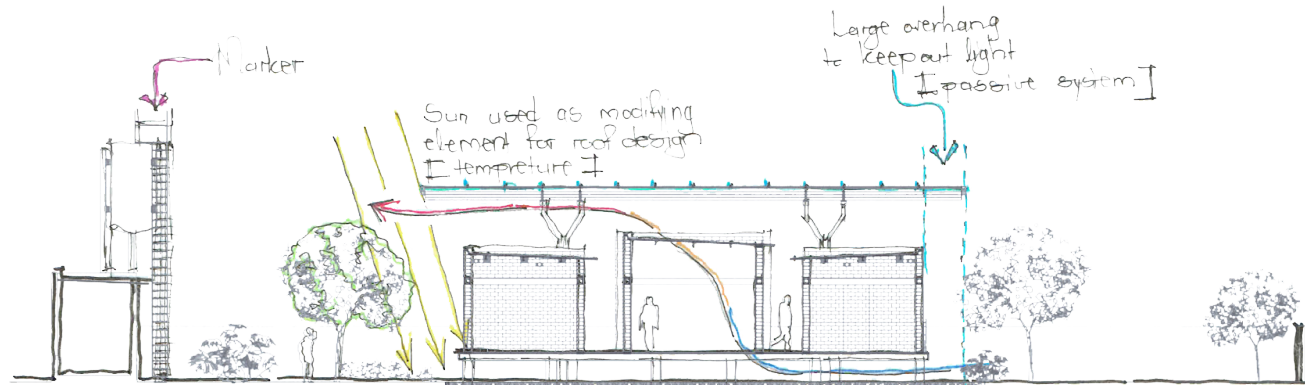


Figure 81: Simple passive cooling systems 1 (derived from Fernandez-Galiano, 2011)

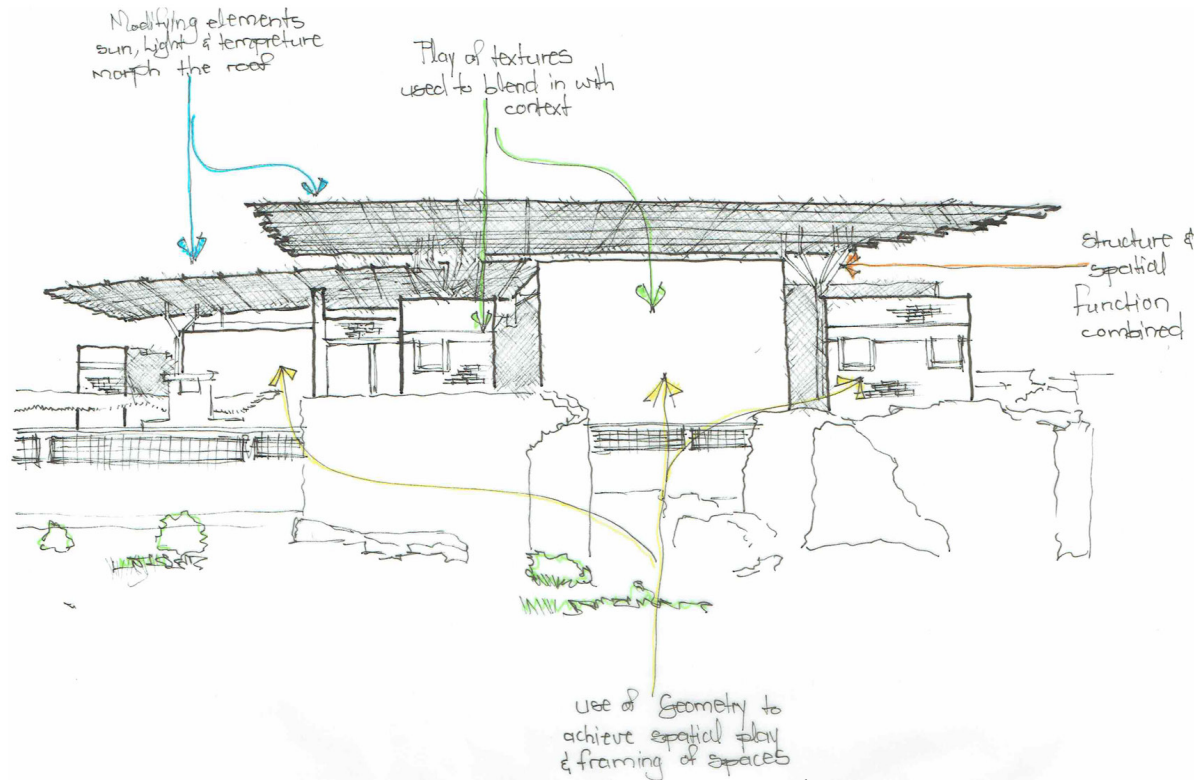


Figure 82: Architectural elements morphisms due to climatic conditions (derived from Fernandez-Galiano, 2011)

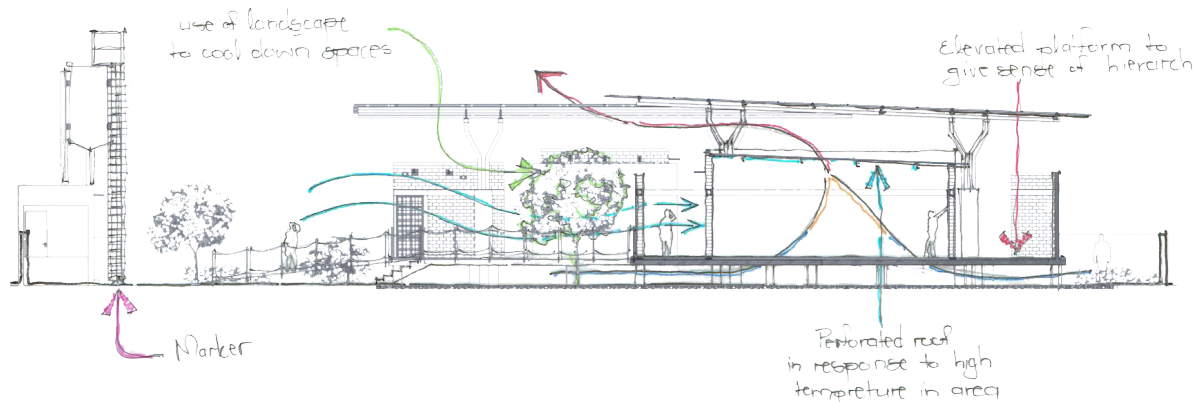


Figure 83: Simple passive cooling systems 2 (derived from Fernandez-Galiano, 2011)

The choice and use of material play an integral role in the creation and identification of place in communal centres. The firms/designers of the various projects presented in this category chose their materials based on the budget as well as contextual background.

Each design was a deeper response to the context in more than just using locally available materials, but clearly modifying the elements (floor, wall and roof) to identify place.

The properties of materials should be seen as a source of inspiration so as to create an entire object that has a unique configuration that places it within its context and still performs the functional duties that it was intended for.



Figure 84: Bridge over the Zambezi River into Zambia



Figure 85: Crossing into Botswana (Mwazi, 2014)

2.3 MOPHORLOGY

For this dissertation's literature review, I explored various theories by Tzonis, Olivier, Noble, Hauge, Frampton, Correa and De Bruyn. They touch on identity and place as well as topics aligned with them. These range from material, memory, history, sustainability, critical regionalism, interpretation and space. Some of the theories are against the use of history as an element necessary for this investigation whilst the rest are in favour of it. This approach was taken so as to realize a thorough understanding of the process of interpreting, identifying and application of the conceptual framework is realized.

Ultimately the discussion will comprise two parts, being the exploratory concepts (where the idea of the authors are discussed to establish the direction of the architecture with regard to the authors' theories, which can be pitted against each other) and grounded concepts (the concepts used due to their case study approach).

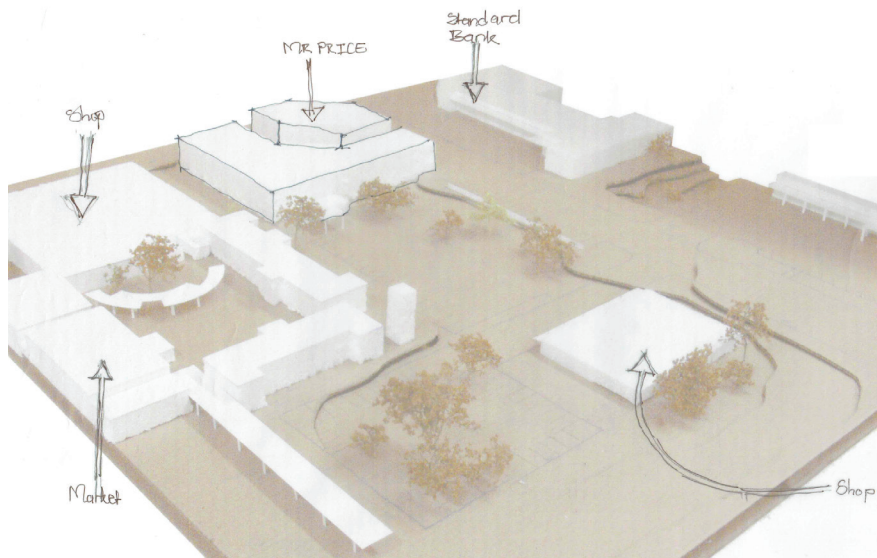


Figure 88: Existing townscape model

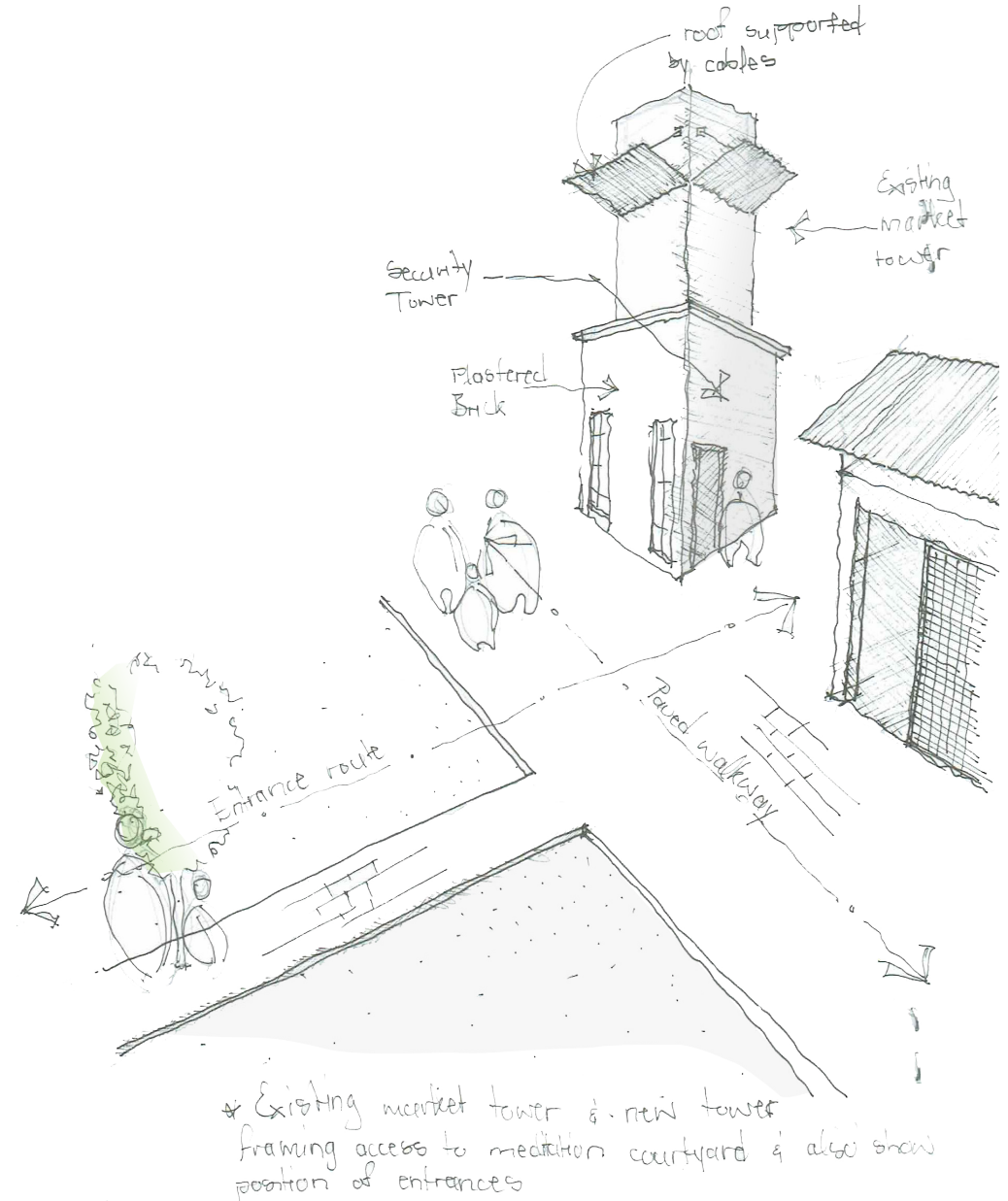


Figure 87: Market entrance from the west

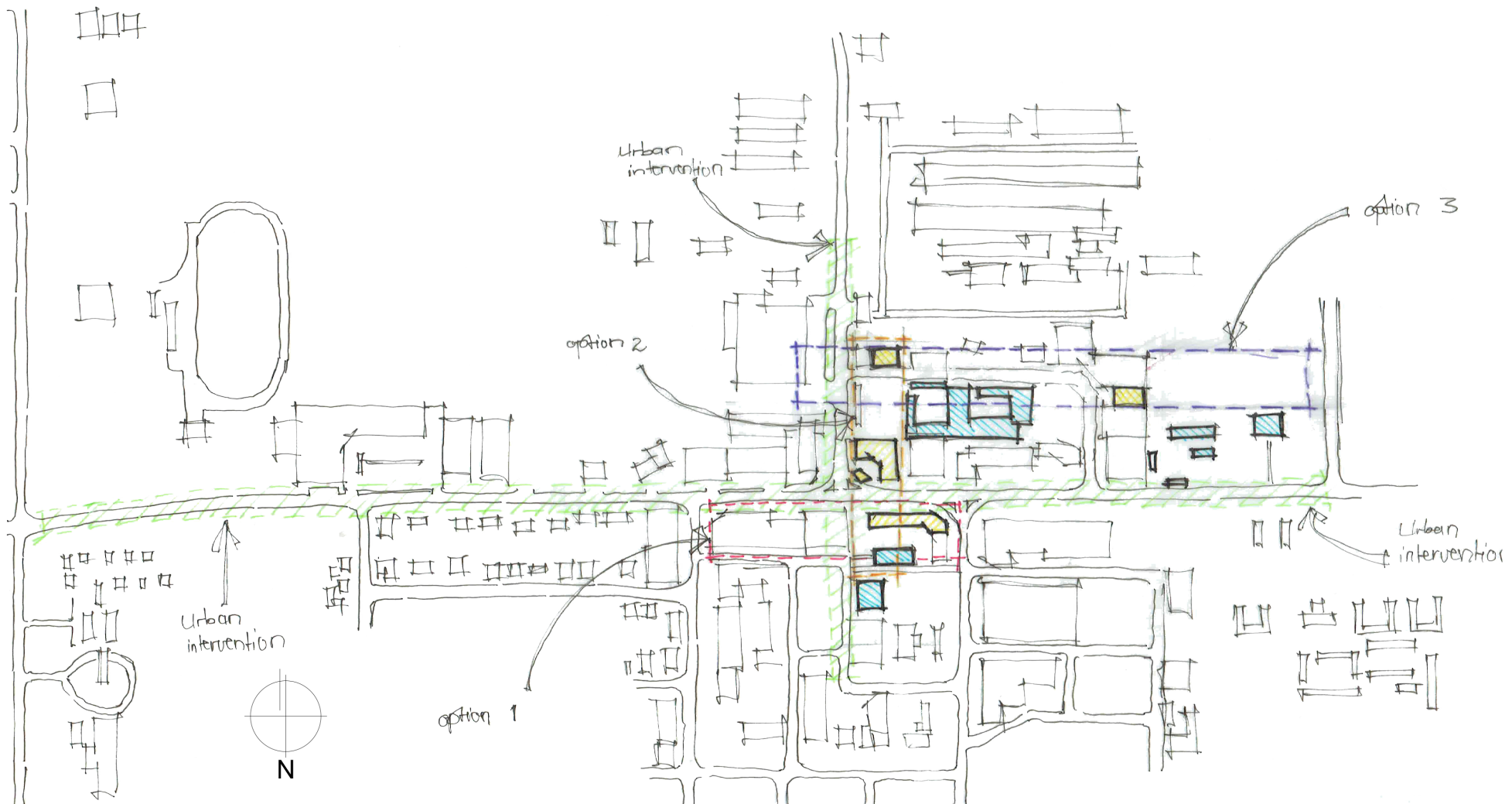


Figure 88: Town layout illustrating locations investigated for the proposal

2.3.1 TOWARDS A DESIGN METHODOLOGY

The Zambezi region has become a prominent entrance or exit to Namibia via the Trans-Kalahari highway. Through its two border posts with Zambia and Botswana which are 10km and 60km away (figure 3), it receives a diverse number of goods and people into the country, making Katima Mulilo a very important gateway into the country but yet one does not feel any unique energy emanating from the surroundings or its activities.

The “*human spatial perception is changeable and continually shifting and it is intimately tied to the emotional value humans attach to certain spaces and places*”. (Viljoen and Van Der Merwe, 2004: 3). These words should serve as praise and warning for works that are introduced as social celebrations. In the case of Katima Mulilo it should be seen that due to the lack of social interventions, if the design does not begin reigniting the town, it can be overlooked and become a mere truck stop. To avoid this, Frampton (1996: 468) suggests that one must investigate theories that are rooted in the phenomenological significance on the specificity of place whilst Tzonis and Lefaivre (1996: 486) insist on the use of the local design elements as a way of tackling a universalist order of architecture that frequently dominates or oppresses the local archetype.

All three are advocating a response that gives preference to a vernacular typology, heavily influenced by all the cultural, traditional, mystical and historical aspects of an area and its people. Frampton’s ideas are more relevant to the spatial qualities of a place whilst Tzonis’ and Lefaivre’s will be predominantly applied on the materiality and structural composition of this dissertation.

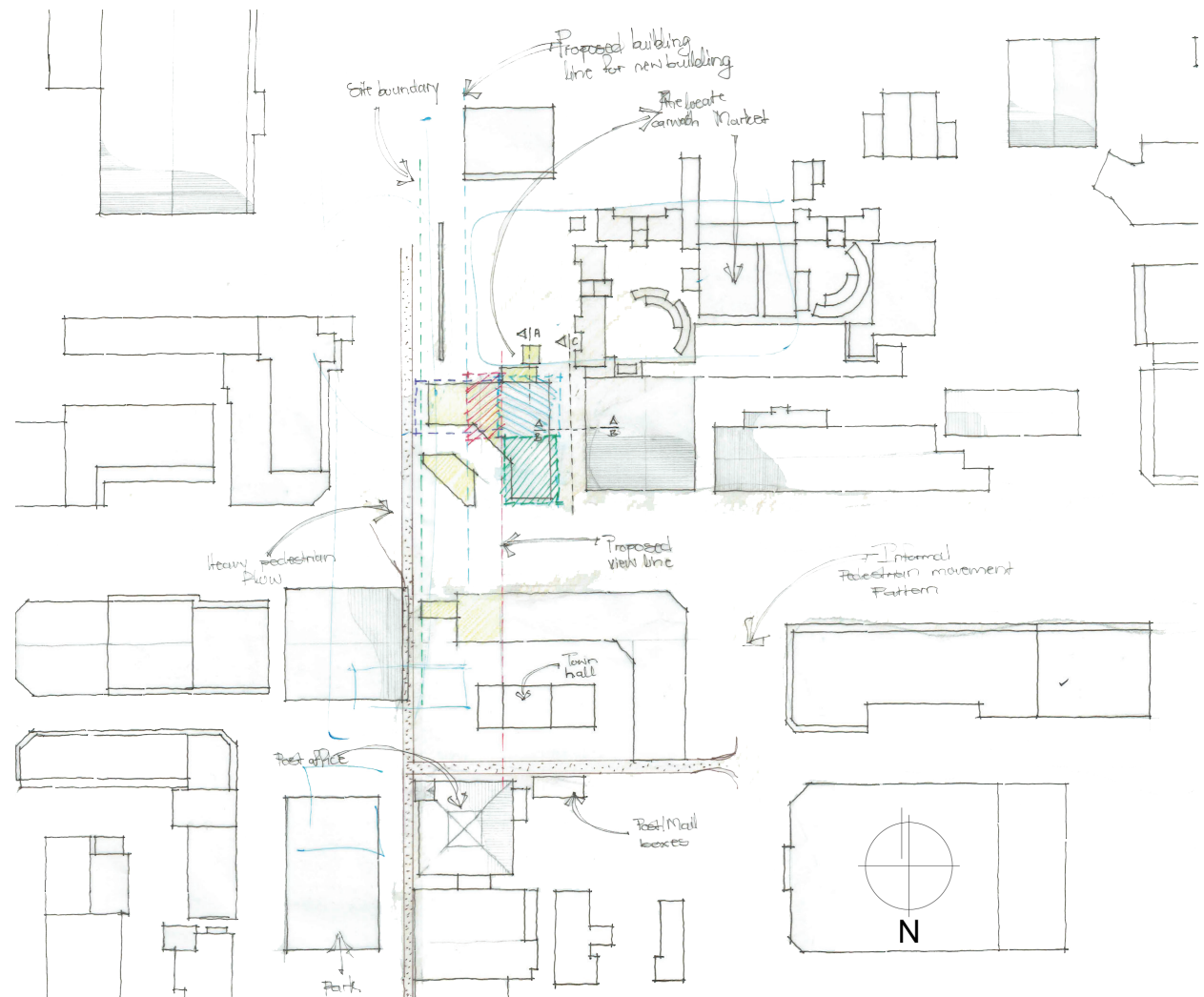


Figure 89: Chosen site with proposed urban intervention

URBAN

Namibia is a developing country and the rural living as well as the behavioural patterns are still highly influential in the smaller towns such as Katima Mulilo. Correa (1989: 13) believes that the developing country cities (in/or this case a town), are embedded in the socio-political climate of the area and due to that, test the humanity of the rural visitor against the more industrialised urban setting. This prompted the proposal to address the existing urban issues or lack thereof. Sustainability thus also became crucial in this dissertation and Olivier (2011: 74) argues that it overlaps many components and not just the usual social, political and economic factors. The 'fourfold' as described by Heidegger (as cited in Olivier, 2011: 74) are the other components, and are described by Heidegger as earth, sky, mortals and divinities. Olivier states that these must always be taken into consideration before commencement of a project. The earth is the gift that we must cherish and nurture, otherwise we will end up destroying this bearer of life and ourselves whilst the sky is the metaphoric reminder that exists that the mortal is able to surpass his/her own limitations (Olivier, 2011: 75-76).

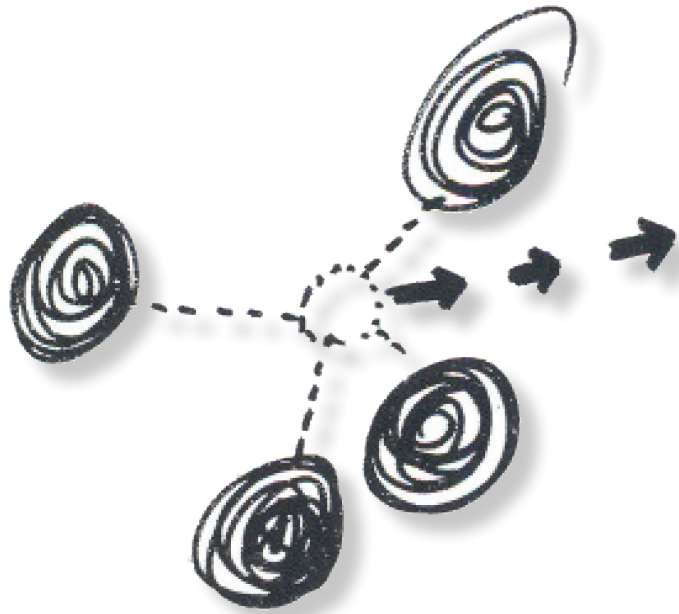


Figure 90: Village cluster as described by Correa suggesting that social spaces be centrally located with new developments to the boundary and eventually a cluster of such villages is formed (Correa, 1989)

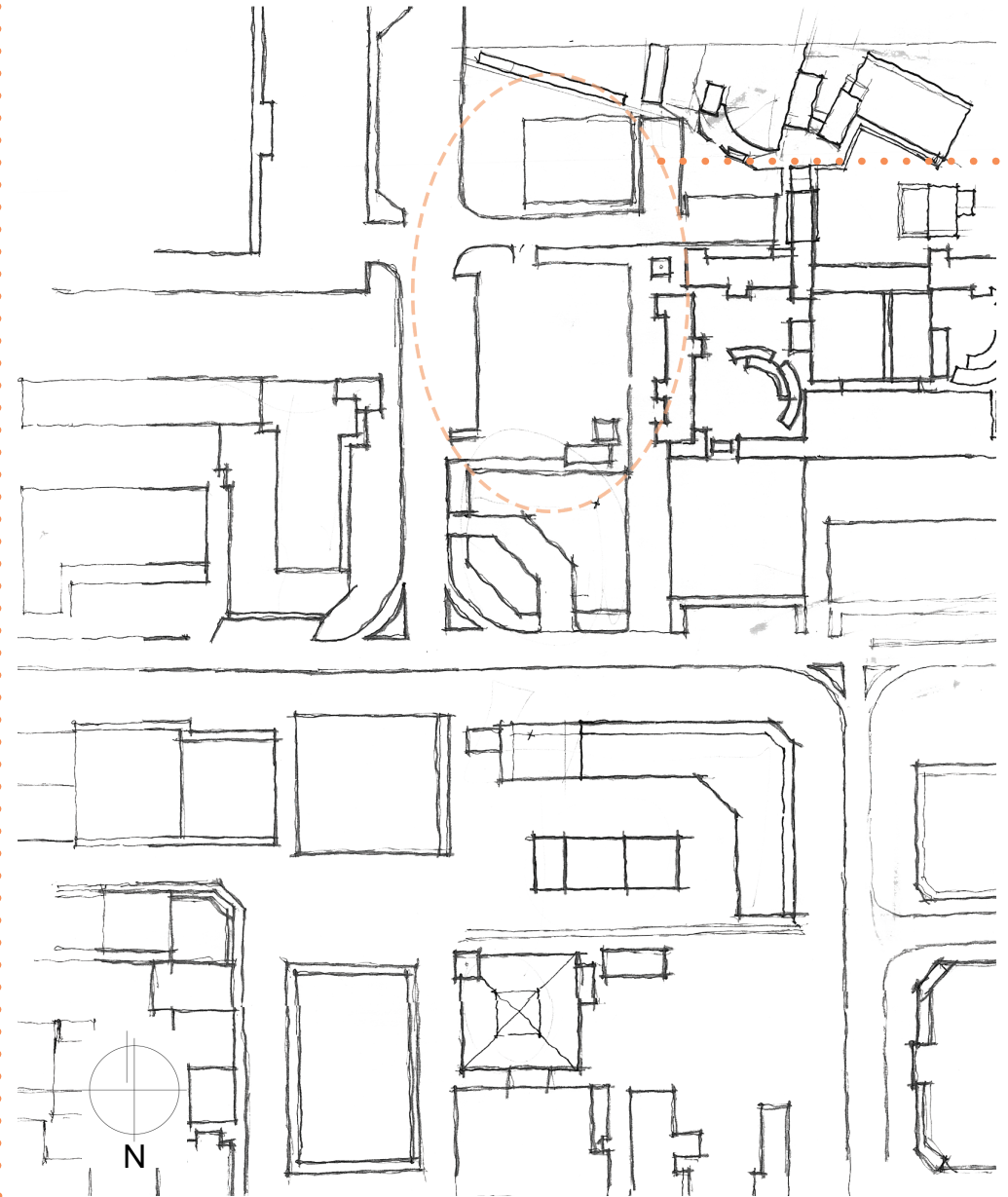


Figure 91: Micro-level layout of site

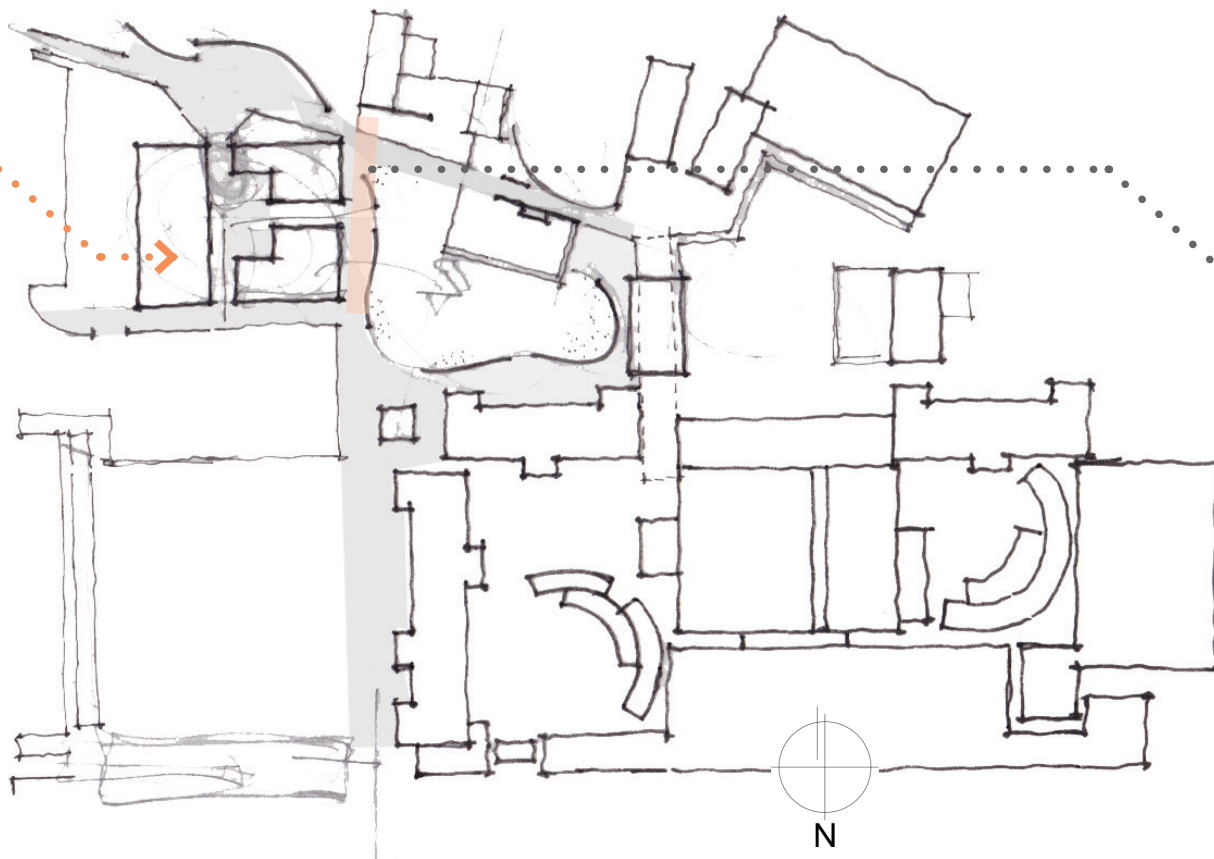


Figure 92: Market urban intervention proposal

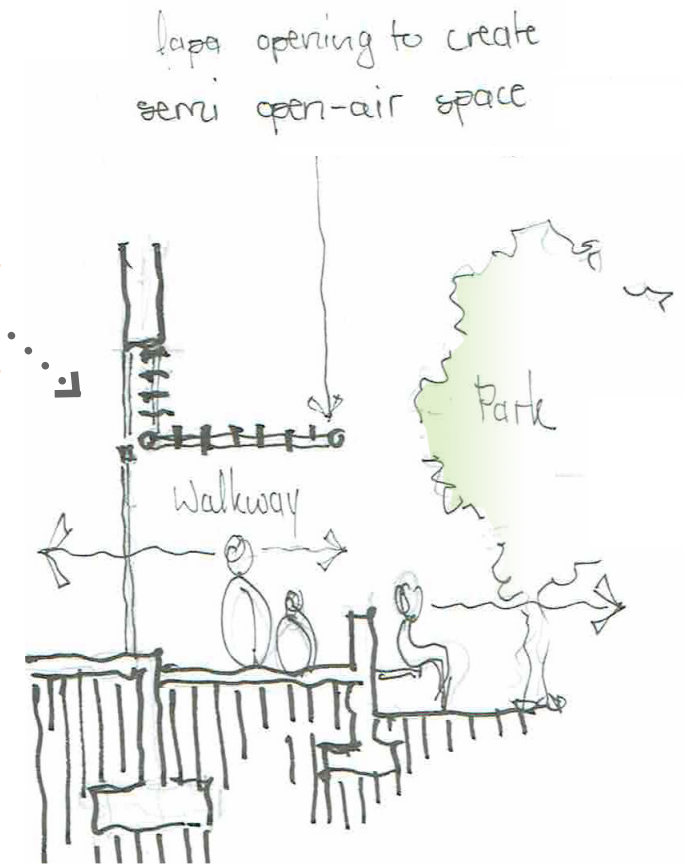


Figure 93: Possible handling of building edge with pedestrian walkway

Through the analysis of the town as illustrated above, it emerged that it does not have an adequate urban layout to cater to the pedestrians and cyclists who are by far the larger groups in terms of modes of transportation. An Urban Design Precinct was crucial and it also aided in determining the location of the design. Sastrowardoyo (Sastrowardoyo, 1983: 40) is of the opinion that:

“ A definite set of identities will help to form a well-knit community. A well-knit community serves as the basis of great vitality which is required to give birth to the creativity of its people, which in turn throws light upon all aspects of life. ”

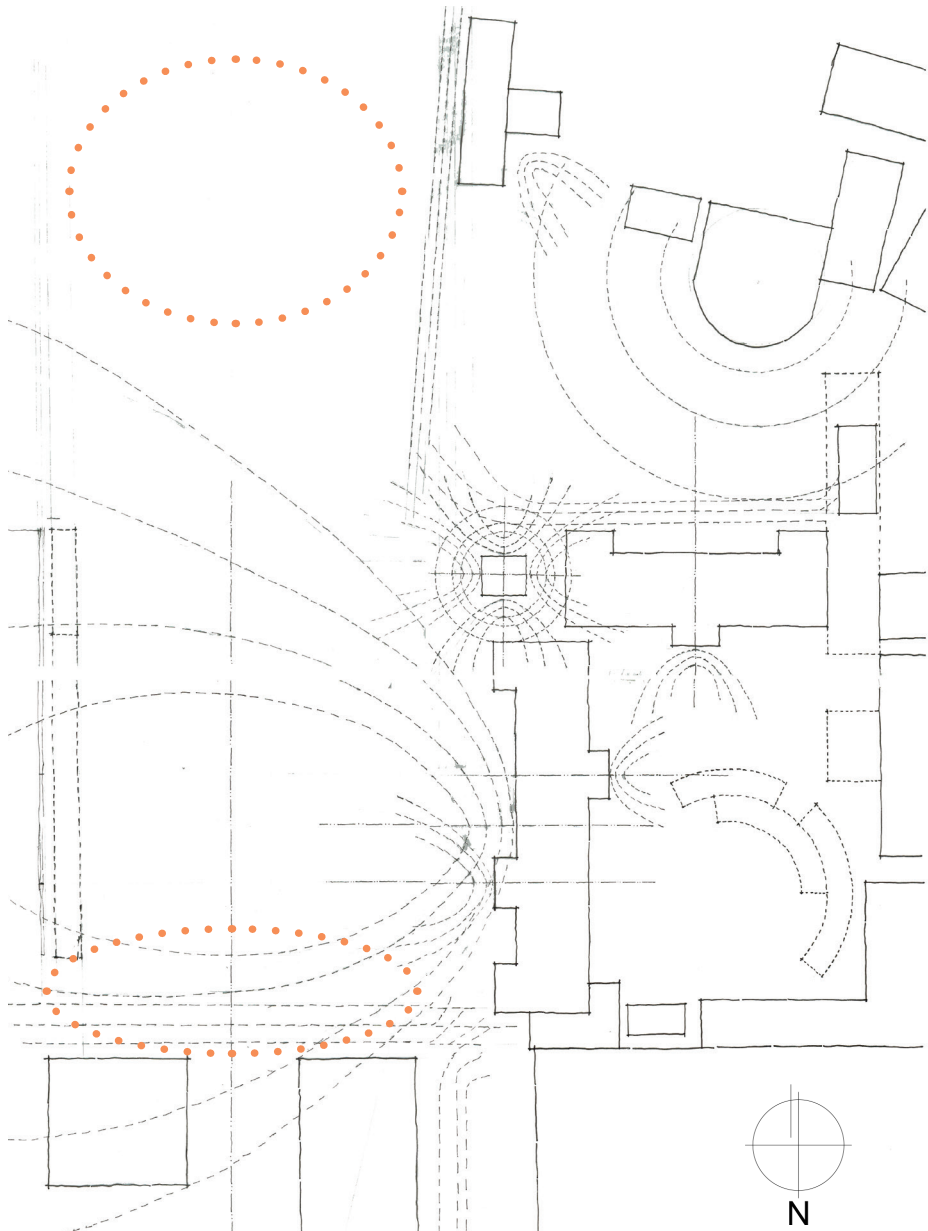


Figure 94: Radiance study as per Von Meiss' principles

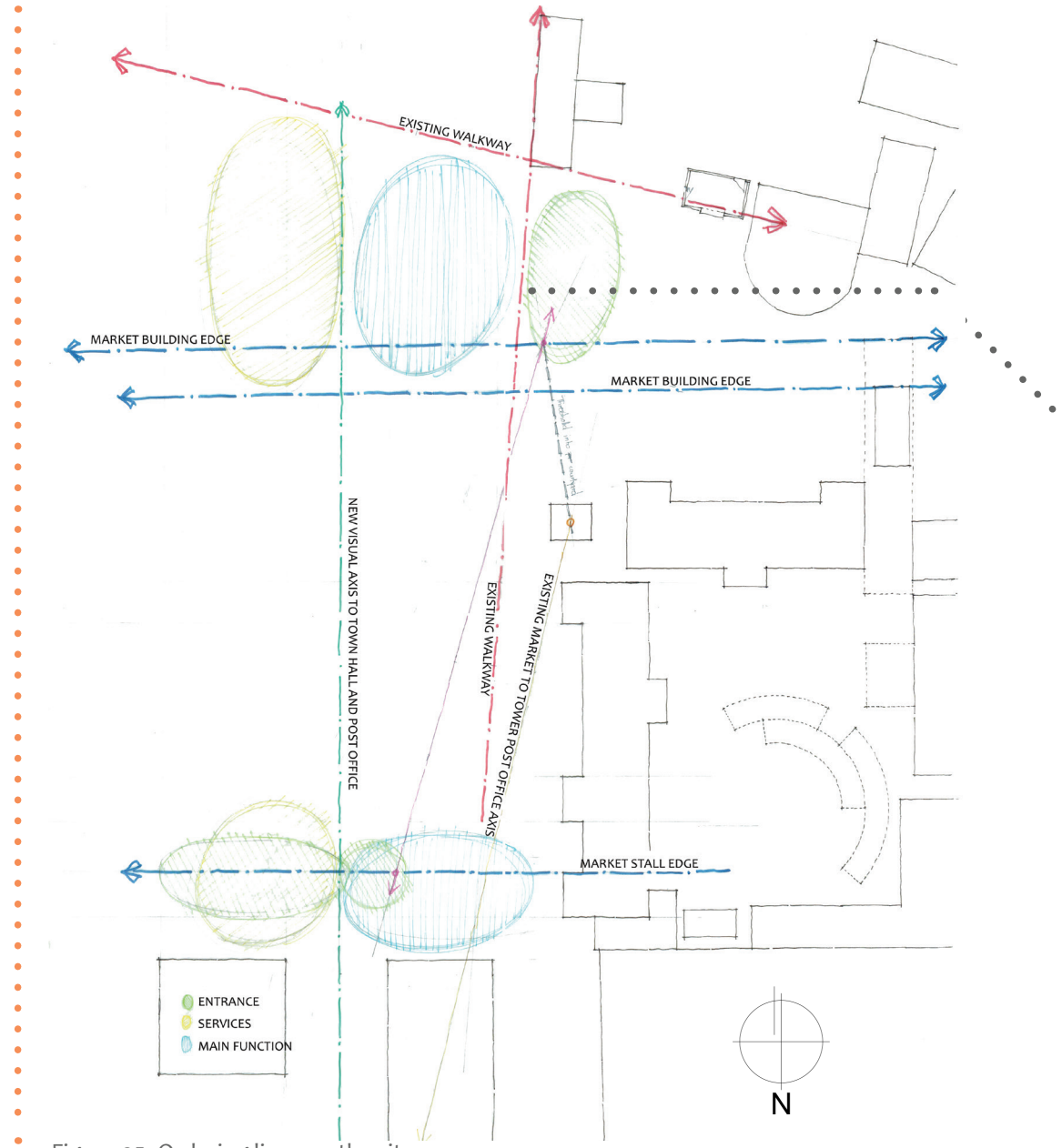


Figure 95: Ordering lines on the site

Considering the fact that the proposed location of the design was determined through the urban analysis, the placement does not disrupt the existing harmony. It can be concluded that the urban harmony and the town character were actually enhanced, giving me the opportunity to understand the unique ‘place-ness’ and tectonics of Katima Mulilo (Frampton, 1996: 468). The harmony can then be linked to the identity of the town and together will hopefully begin initiating a dialogue and interaction between each other (Sastrowardoyo, 1983: 43) exposing identity, its importance and link to orientation and place. Hauge (2007: 45) trusts that:

“ The places in which people have lived also influence their environmental preferences and affect the kind of environment they may seek out or prefer. However, the converse is also true: places are also influenced by people’s identities. ”

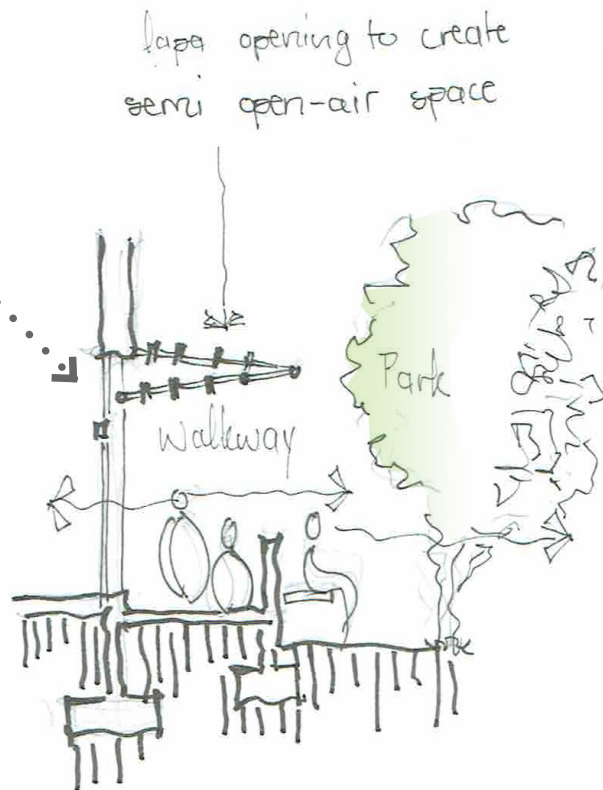


Figure 96: Possible handling of building edge with pedestrian walkway 2

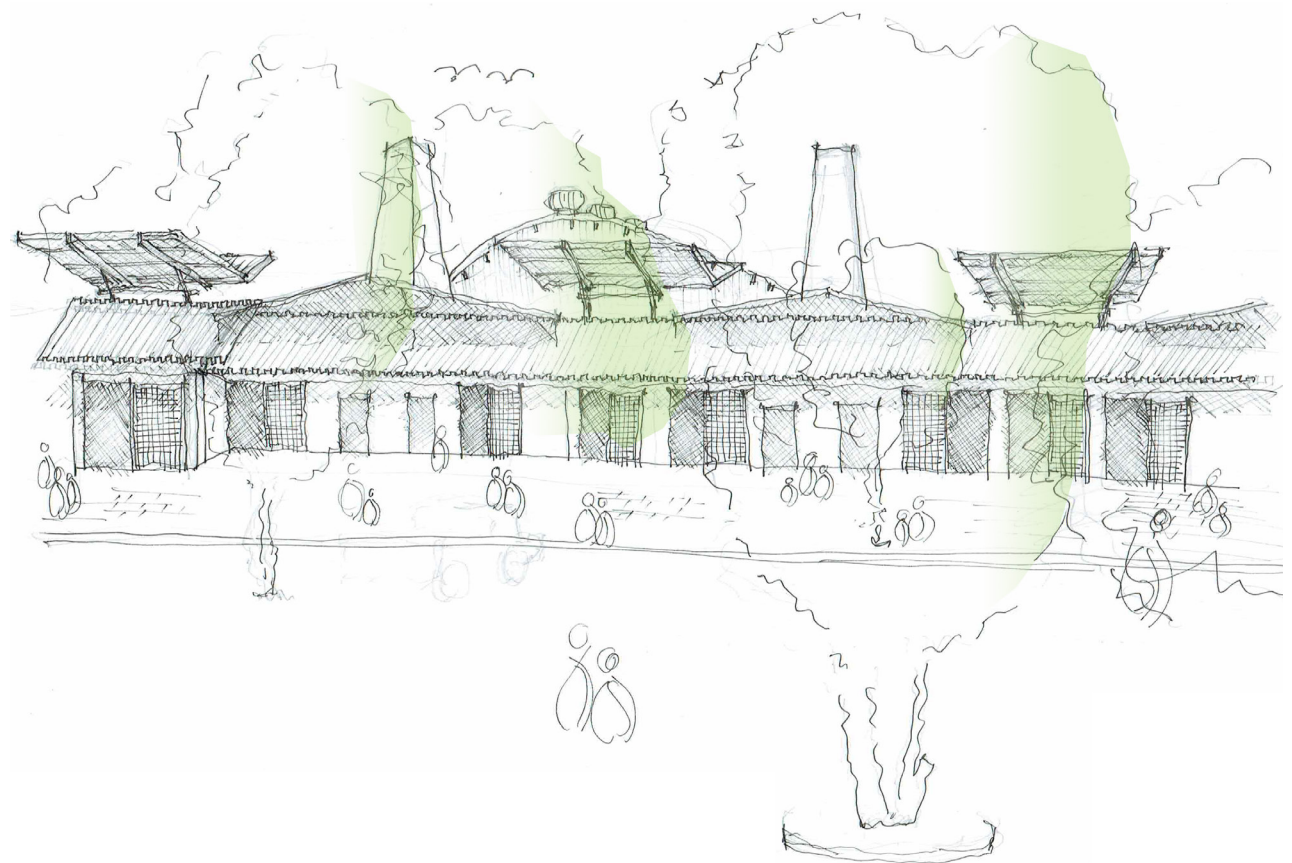


Figure 97: The roofs of the Ngweze market

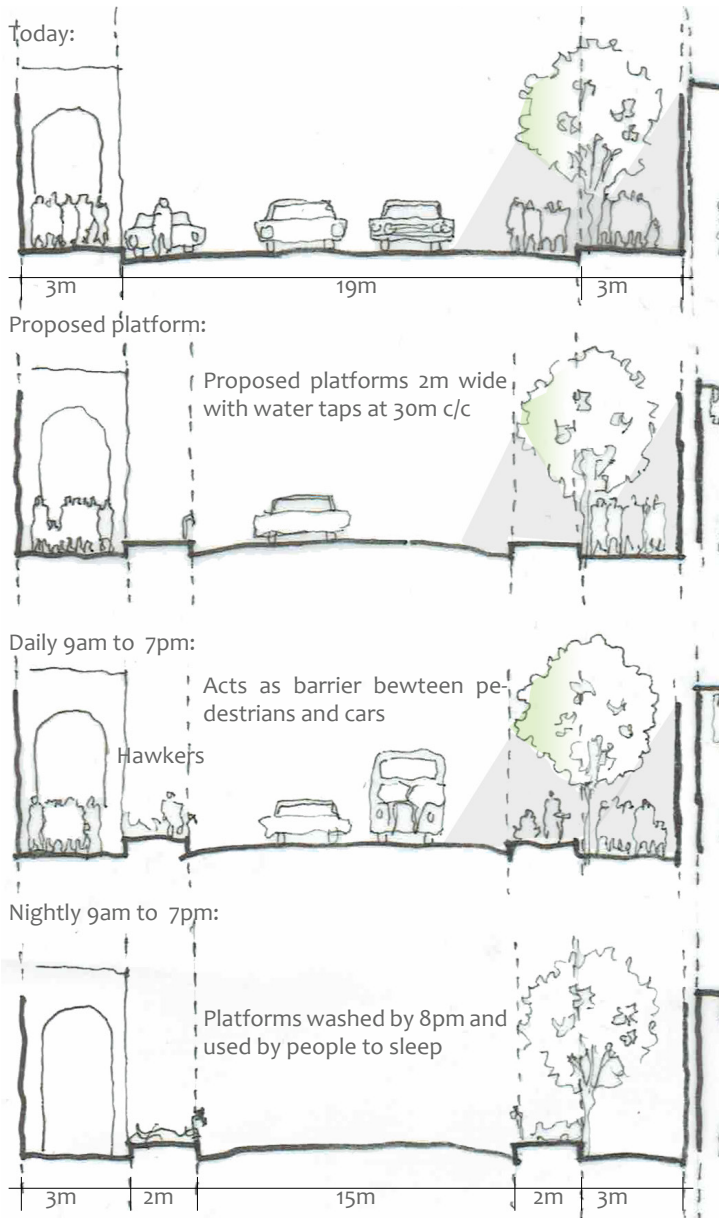


Figure 98: Correa's suggestion of the street development (1989)

The diversity of the community will also have an effect on the identity as Hauge suggests above. Also as part of his endeavour to develop a connection between identity and place, he (Hauge, 2007: 45) states that three premises have been developed with regard to this topic: the place-identity premise, the social identity premise and the identity premise process. Of the three premises, I would like to refer to social identity premise because it is concerned with how the community order and understand their environment, to develop what I would like to refer to as a social or collective identity. Twigger-Ross (as cited in Hauge, 2007: 47) believed that the social identity premise was conveyable and can evolve so as to include facets of place. What is most important about Twigger-Ross' notion of identity and place is that she emphasises that the identity (meaning) of a place is not permanent, because the place changes over time and is dependent on what is held dear to the individual and community at that specific time. This romantic relationship between the building and the viewer allows for a poetic dialogue that initiates the act of "... defamiliarization..." that Tzonis and Lefaivre (1996: 483) define as "identifying, decomposing, and recomposing elements" that were then used as the process of analysing the Zambezi region and Katima Mulilo.

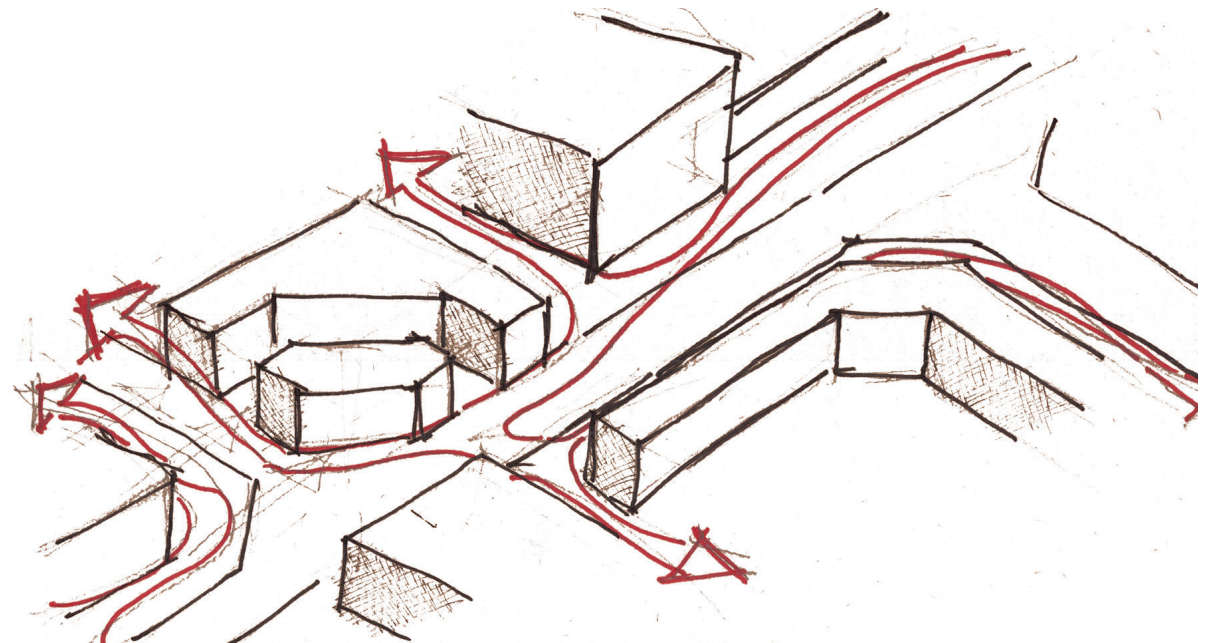


Figure 99: Possible implementation location for Correa's suggestions

The Ngweze market and Art and Craft's Centre which is deeper into the town and by my observations successful because it has managed to house about 90% of all the vendors found in the town centre has its own unique location, and the design is key to its success. With different types of stalls each housing different rituals such as eating, bartering and hair braiding to mention but a few, the market also addresses the socio-economic condition of the town by providing a space where firstly, the community can interact with each other and secondly, where they're financial prosperity can be realised. The most important feature is that it was designed as a meeting place for various kinds of activities and people from all walks of life, and has been accepted as well as been utilised to its maximum capacity. Additionally it has attracted more people who are now selling their products in the vicinity. The scale of the market is very delicate and should not be disrupted because if it is, the feeling of the space will be lost and result in the dismantling of the 'place-making' rituals. That is why it is important to ensure that a thorough scrutiny of the proposed design will be done throughout the entire design synthesis process. Care must also be taken that the heights and volumes of the proposed design do not overpower the market, otherwise the same interference that was discussed earlier will be carelessly repeated once more. Eventually this has established that the market is a catalyst with the potential to activate the area and also determined the design's location.

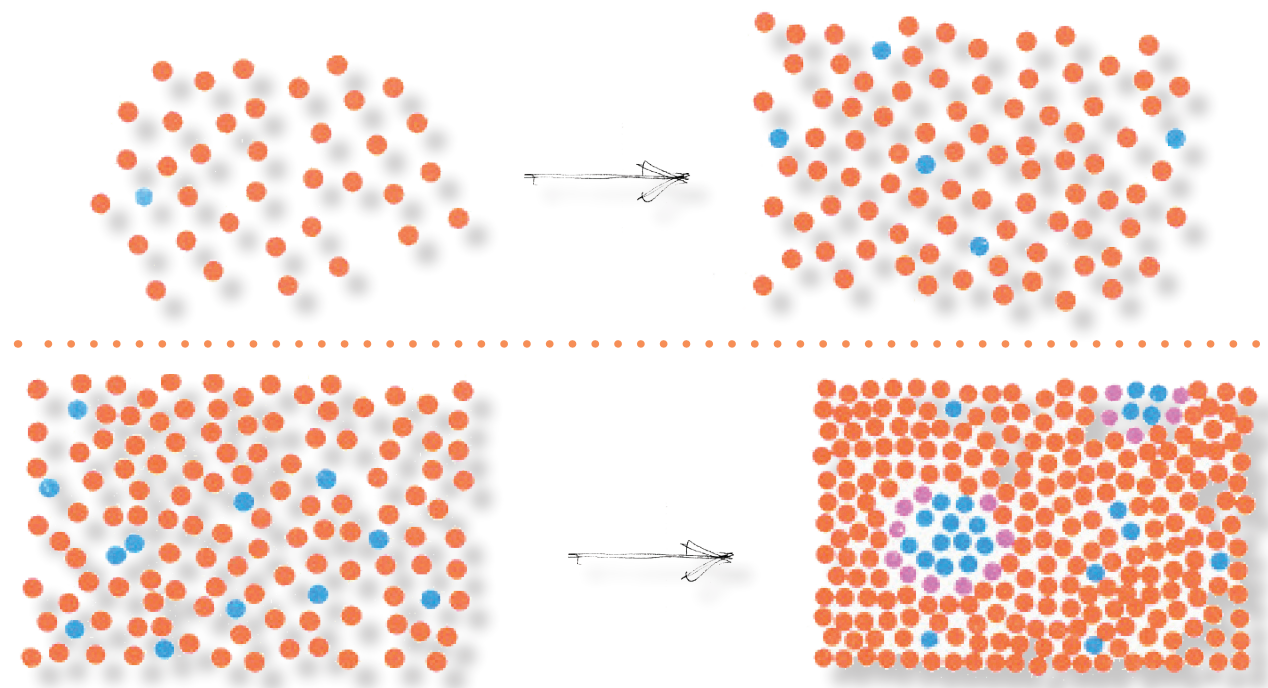
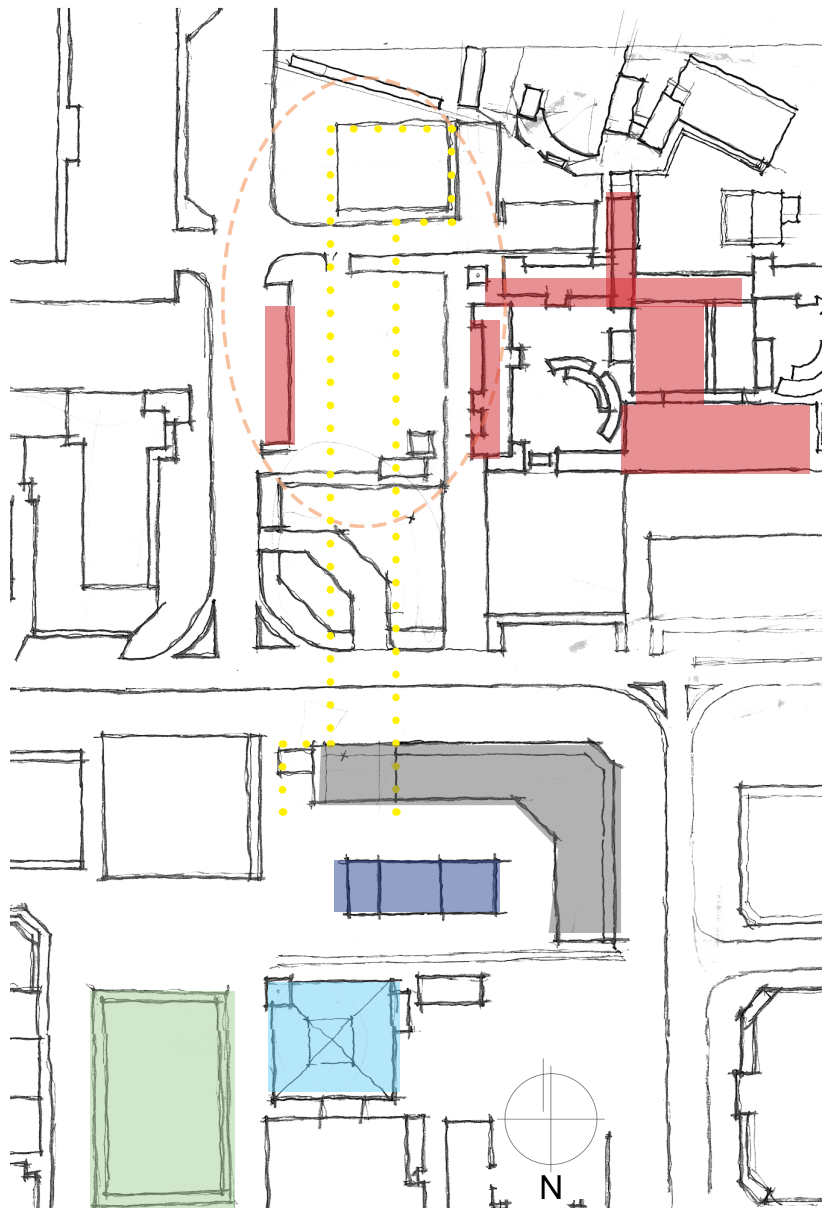


Figure 100: Individual to social identity patterns as described by Correa (Correa, 1989)



- SITE
- DEMOLITION
- RETAIL
- OLD TOWN HALL
- POST OFFICE
- NGWEZE MARKET
- PARK

Figure 101: Proposed urban demolition

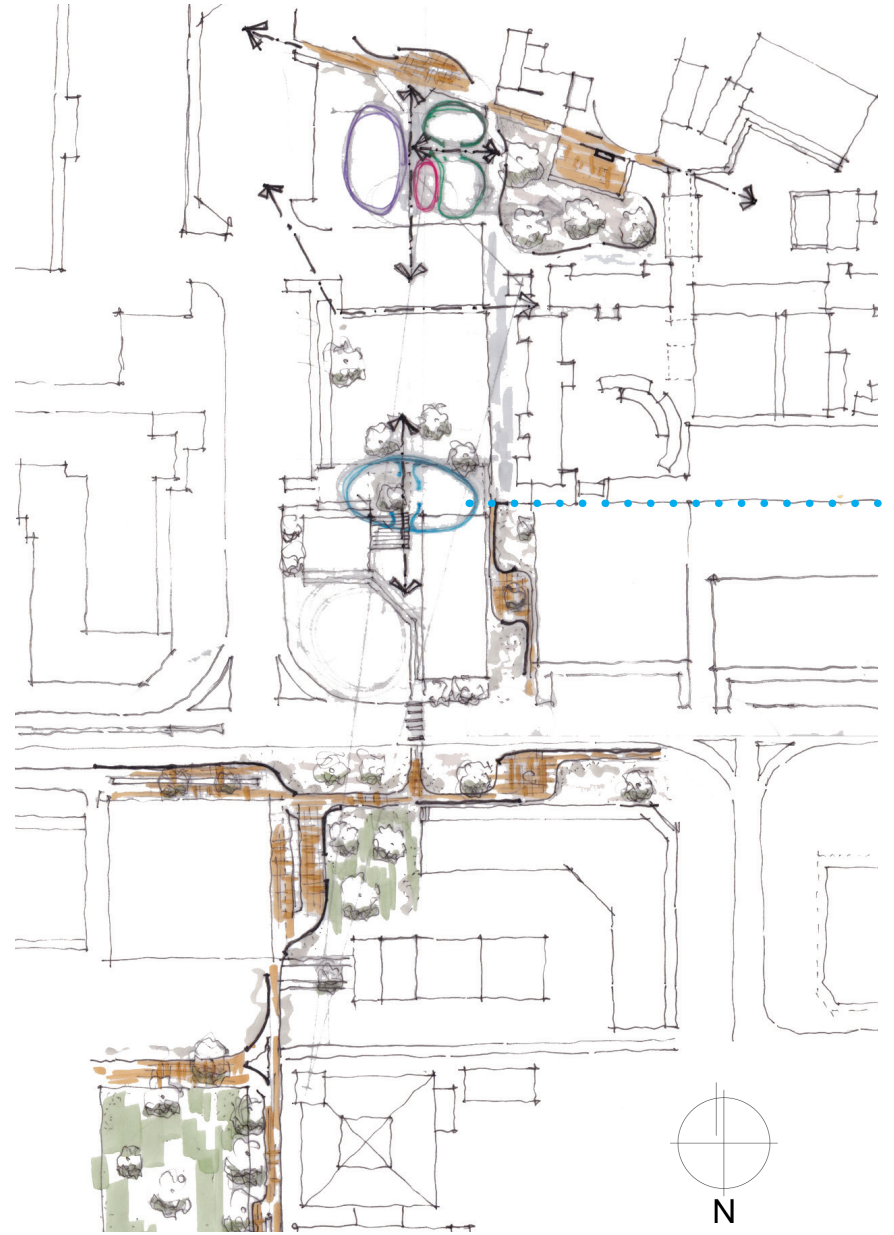


Figure 102: Urban precinct design proposal

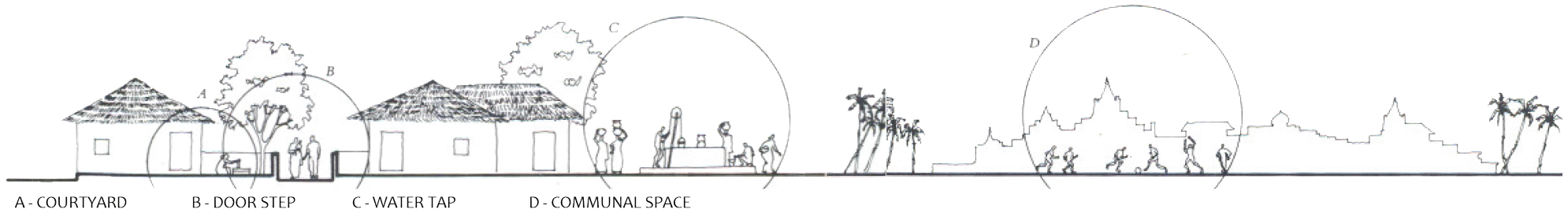


Figure 103: Correa's hierarchy of spaces (Correa, 1989)

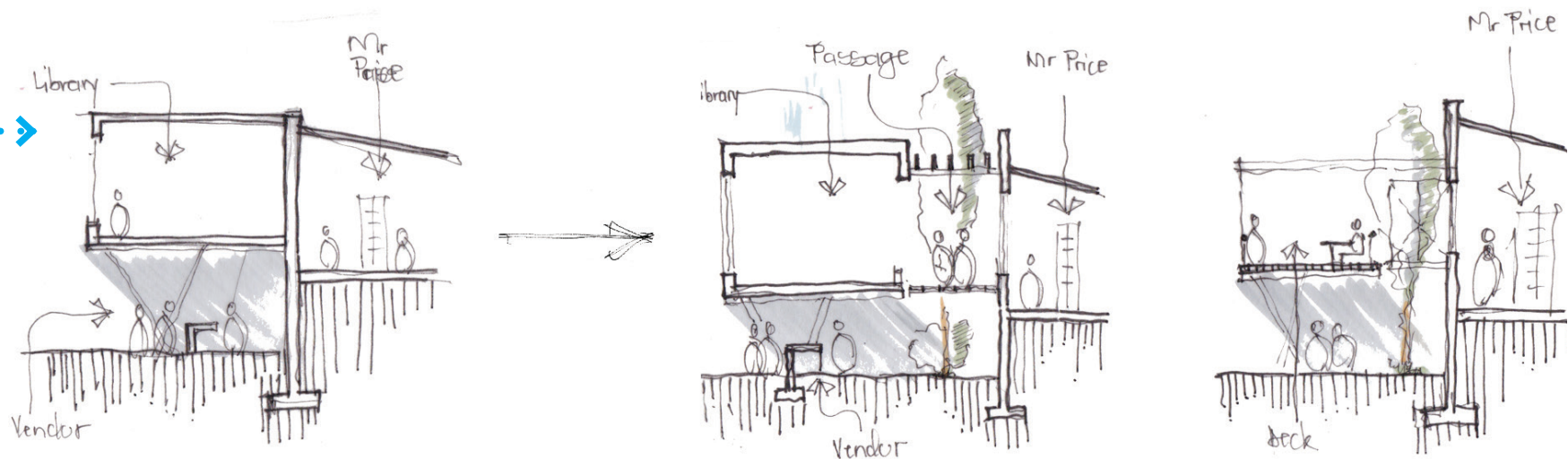


Figure 104: Section sketch design development through existing and new library

In order to establish the specific spatial situation or character of the chosen site, Pierre von Meiss' (1990: 96) method of understanding space, illustrates that an object is not isolated to itself but in a relationship with the other volumes and limits. This relationship is where space begins to form and was used in

accordance with Hauge's disposition that the details of place and identity must be fully explored so as to achieve a comprehensive investigation closely related to the town.

As part of the attempt to establish the "...new landscape..." that Correa (1989: 24) refers to, the entire

town was examined so as to determine the living patterns, life-styles etc. that are integral to the social society. Spaces that allow the community to interact with each other are also necessary in any town or city whether it is developing or already developed and both these spaces can be covered and/or open to the sky (Correa, 1989: 32-33).

INTERPRETATION AND IDENTITY

It has always been known that Architecture is a by-product of the context in all its various aspects (physical, ideological, historical etc.). Some would argue that my statement is incorrect or naïve to a certain extent but whether the contextual influences were used or not used as a source of inspiration, the end result is always a response to the context. Gadamer (as cited in Webster, 1982: 98) advised that as one embarks on the journey of interpretation and identification, it is important to understand and note one's own perceptions and/or misconceptions of the thing. Only then will the result yield an intersubjective dialogue between the truth (past) and preconceptions (present) that might exist so as not to taint the identification process. Olivier (2011: 75) states that humans are desiring beings that wish to articulate their desires, projects and fears; and that the cultural and linguistic space of tradition, where we wish to practice our desires is the earth. I believe architecture that does not acknowledge its context is a meaningless object devoid of the characteristics of the space, of tradition and let alone identity and simultaneously losses what Frampton (1996: 468) calls the “... *oneiric essence of the site*”.

Identity is perhaps the single most significant factor that influences architecture in terms of its aesthetics, spatial character, poetics and radiance. This alignment of people to a specific identity is imaginably the reason they are so protective of their culture and beliefs, because it was crafted by their survival techniques passed down from previous generations (Webster, 1982: 94). It can also be seen as the creative statement of cultural life (Sastrowardoyo, 1983: 43). Hauge (2007: 44) states that architecture, the built and natural environments can significantly impact a person's identity. One of the key aspects used to determine and explain identity is interpretation, and this then suggests that before one begins the task of identifying he or she must understand and devise a method of interpretation that will remain mostly objective, but why ‘mostly objective’ and not ‘entirely objective’? Before answering that question, it is important that we establish how to identify. Olivier (2009: 407-408) suggests that we identify by ‘looking and symbolically placing meaning to something’ and he also urges that this act of ‘looking’ together with symbolism as a possible solution and not an absolute answer of how to identify.

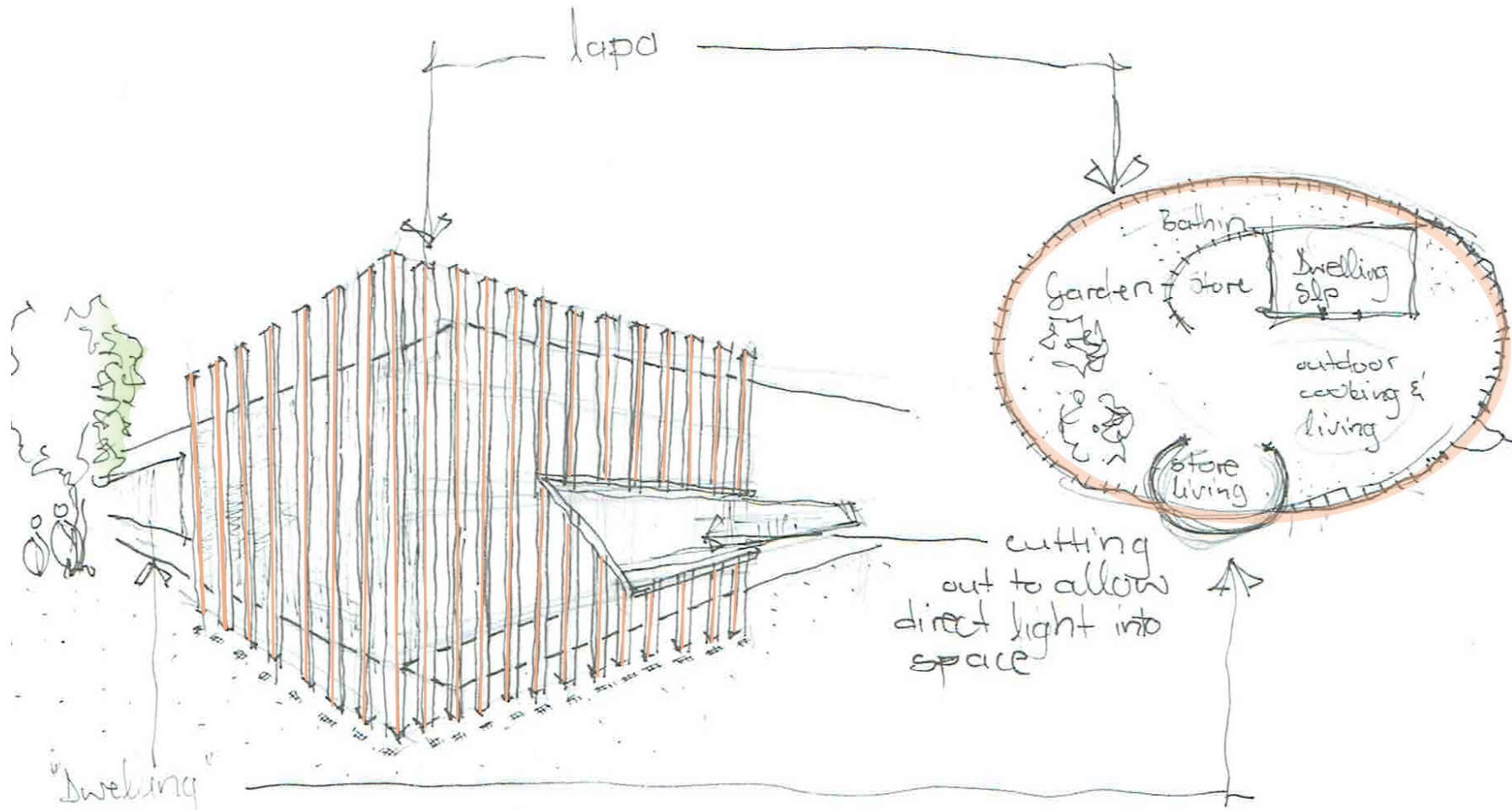


Figure 105: The lapa and its re-interpretation



Figure 106: Market entrance from the north by Mackintosh and Lautenbach Architects



Figure 107: Market square, currently the parking by Mackintosh and Lautenbach Architects

Objectivity and interpretation are related, Steven Webster (1982: 91) regards ethnography, hermeneutics and epistemology as tools essential to the act of identifying. Webster quotes Evans-Pritchard as stating that in order to identify accurately, one must immerse him or herself into the culture, customs and beliefs of the people who are being investigated, but this is not the only requirement. Being human involves that we always have our own perception of what we are seeing and as subjective as these thoughts are, it is an absolute necessity to also include them in our interpretation. By so doing, we respect both the host and reader and ultimately have an interpretation that is 'mostly objective' and partially subjective as well as come to a specific interpretation of culture, customs and beliefs leading to an identity classification that is unique and cannot be found anywhere else in the world (Webster, 1982: 93). The divinities as named by Heidegger (as cited in Olivier, 2011: 77) earlier, are an ambiguous element of the law of the fourfold, but still very important. Divinities can be described as the ability to find the source of meaning (identity) to something, this is individual to each person and is the set of rules that one uses to live by and are instinctively (unconsciously) produced.

As stated above, the town expanded rapidly in the form of foreign owned shops resulting in an identity shadowed by interference. I agree with Sastrowardoyo (1983: 44) that this occurs when the identity of the individual becomes more important than that of the community because the dialogue between the members ceases to exist. Through the touch stone investigation described under the conceptual framework heading, the townscape is interpreted as being based on a grid layout, devoid of adequate public space. The earlier years of development also had this grid layout, but at least seemed con-

cerned with the growth of public space around the public buildings. The second part of the touchstone, saw the town metaphorically dissected and opened up, possibly revealing spatial configurations that begin resembling those found within the African village/settlement. Later this adaptation of the of the African village/settlement was taken a step further by the use of the ordering lines unique to Katima Mulilo, thus also setting out the construction boundaries for the design intervention.

The process of interpretation clearly revealed that the identity of Katima Mulilo is a product of various components, making it a complex concept that is not determined by ordinary scientific methods of investigation. The fact that looking and symbolism are interwoven in the act of identifying, the notion of the image also becomes relevant as part of the interpretation investigation. Olivier (2009: 408) argues that the mirror-image (a thing's image and not the thing itself) being studied is a misrecognition with its own distinctness and that the distinctness "... implies that an image is distinct in the sense of being discrete, distinguishable from other entities, and indeed, from other images." This might be contradictory but if we substitute thing with town, we understand what Olivier was trying to elaborate here is that the town's image is distinct from the town and has a unique identity. This can thus be viewed as the 'looking' aspect of identifying as coined by Olivier. Due to the rural influence on the town, the animistic and climatic (Ee, 1983: 84) conditions were also added to the components to be investigated and because they are rooted deep within the community, they had clues of what the proposal can begin addressing as part of its contextualization.

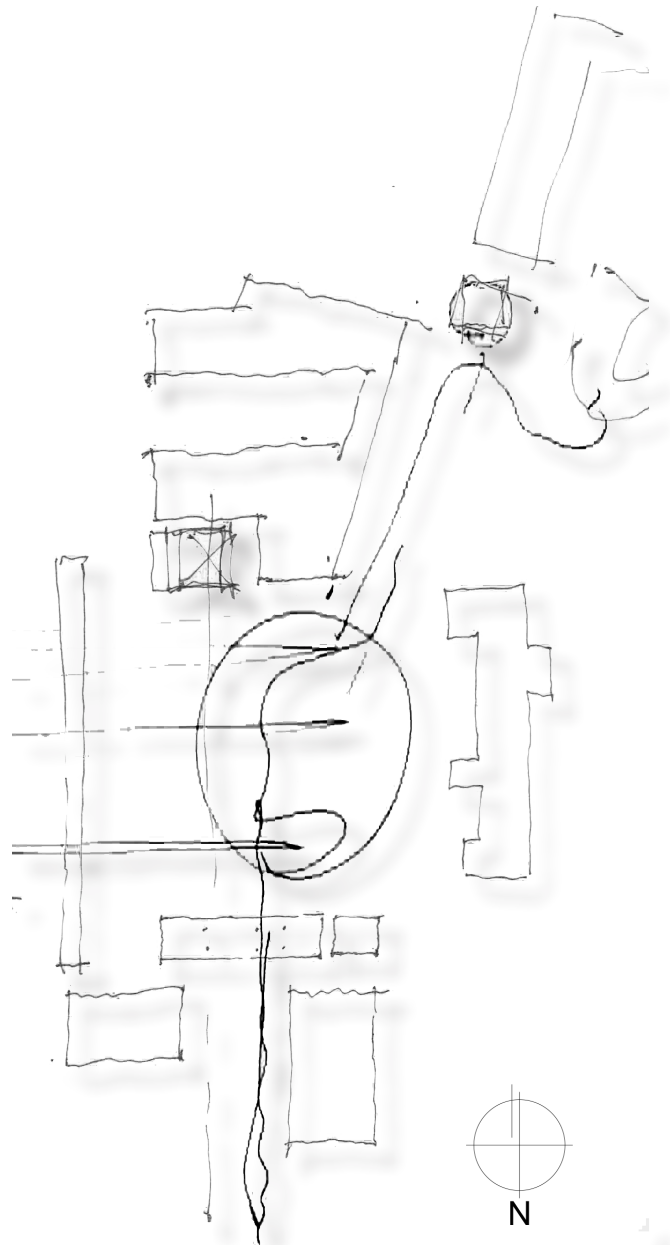


Figure 108: Conceptual path design through the square

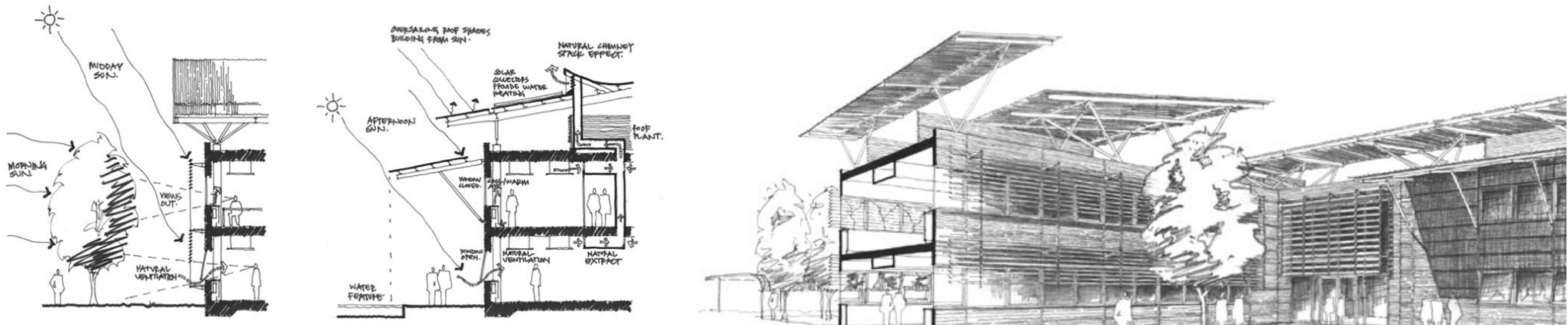


Figure 109: British embassy in Harare section (left) and architectural element composition 3-D section by the Manser Practice

The second phase is the symbolism aspect and after having established the identity of an image, Olivier (2009: 409) suggests that we commence this phase by identifying the objects around the thing. This is where we place meaning to the rest of the picture and endeavour to find a holistic classification that takes the entire context into consideration. Olivier (2009: 409) describes this as when an object is somehow surviving on its own accord. Here we must investigate the object as well and truly discover what the object means at a meso-level. If not we will view it and accord meaning that is otherwise universal. This type

of identifying is highly reliant on time and space and I believe that the things or objects that are subject to this are normally the material, its use and technique used. The analysis of the traditional hut affirmed the use of mud mixed with cow dung (wall and floor), thatch (roofing material) and tree trunks (post and truss construction) as possible construction materials.

Later the thatch was replaced by corrugated roof sheeting and this is proof of the effect time has on the building techniques. Its use over thatch is purely functional and logical as it is more durable, fire resis-

tant and cheaper to acquire and maintain. This type of logical reasoning is the manner in which the rest of the objects were analysed as this was how the community was now thinking about their built environment, but is the loss of techniques such as the one evident in the wall roof connection not detrimental to the local built environment? Should it rather not be adopted, readapted or reinvented to match the specific time and spatial quality depicting the mind set of evolutionary community?

This evolutionary symbolism as I call it, can be thwarted by a human emotion called stagnation. Olivier (2009: 409) uses it to describe it as self-pride and is so familiar to each and every one of us. It is the refusal to adapt and regards identity and symbolism as permanent, even while this is not entirely true. If identifying is the act 'looking and

symbolising' and it is subject to a specific time and space, it can be permanent, but only to that time. With new eyes on the thing a change is possible. This change will come from the younger generation who are from a different era and experience the materials and all other elements in a totally different capacity than their predecessors. This allowance for change is called the "...shifting field" (Olivier, 2009: 409) and

is an intrinsic part of our animal instinct which we practise individually on every object we come across, thus meaning that change is welcome and only natural but what implication do these acts of interpretation and identifying also have on history, memory and materiality?



Figure 110: The embassy in the landscape (left) and courtyard space in the centre (right) by the Manser Practice

HISTORY, MEMORY, MATERIALITY

Due to the complexity of the identifying process and the fact that the community still publicly practise the traditional way of living, it was very clear that further investigations into the overall identity were necessary. Tzonis (2012: 45) speaks of history as the “... *study of the past*” and believes that this investigation should be concerned with political and social relationships, cultural and traditional factors. Just like Tzonis, I too firmly believe in this investigation method that does more than just specifically look at the past but aims at understanding why the past occurred in the manner that it did. In this way we also acknowledge my statement at the beginning that whether the contextual influences are used or not used as a source of inspiration, the end result is always a response to the context.

De Bruyn (2011: 45) suggests that cladding whether it be stone, thatch, mud hut construction, is an instinctive rebound to an inaccessible past and used as a mechanism for the psychological comfort from the dreaded villain which is time and space. De Bruyn sets off insinuating that this is one form of response to the context that can be taken and also describes it as safety mechanism that does not wish to alienate the built environment from the community.

The buildings in the central business district of Katima Mulilo are constructed using the typical brick-mortar construction method and none use local materials linked to the rural areas (these still have traditional building techniques from the past). In addition to the concept of cladding, De Bruyn (2011: 45) adds the term ruins to it. He describes ruins as “... *physical remains with no obstruction of original use or function, in fact uninhabitable*” (De Bruyn, 2011: 46). The town centre has no such cladded ruins visible at all, in fact the only response that resembles cladding or ruin are the covered walkways (constructed from IBR roof sheeting on steel structure) that protect the user from the sun and rain, but can these be seen as a return to the inaccessible past that he speaks of? This inaccessible past (De Bruyn, 2011: 48) that we are trying to return to is said to belong to the classical and medieval ruin and one begins getting the sense that perhaps it is not wise to embark on this journey of cladding and ruin. How then do we identify and place meaning on these materials if not referring to the past? How does my notion of evolutionary symbolism measure this phenomena of history vs material?

Tzonis (2012: 46) defines architects as social scientists who study the interaction between the built environment and the user to establish success or failure of the designed product. Furthermore, Tzonis is of the opinion that the architect pursues Locke's (as cited in Tzonis, 2012: 46) law of obtaining knowledge through observation and viewing all phenomena of the world as materials. Just as was discussed above under interpretation and identity, time is indispensable when using history as a tool for acquiring knowledge. The disunity of time as a factor from the forces that formed the choices that lead to the certain historical development, detaches the meaning making the relationship between the built environment and human interaction worthless (Tzonis, 2012: 46). Additionally, both Tzonis (2012: 47) and De Bruyn (2011: 47-50) view the use of history, cladding and ruin as a system that is focused on the aesthetics of architecture and almost a desperate attempt at anchoring the built environment into the natural landscape through the use of the never changing, permanent cladding and ruinification. The individual identity here becomes the aspect that takes centre stage, where the individual uses their historical background (memory) to perform this act of cladding and ruinification, thus creating worthless response on a more communal social level.

However, Noble (2013: 183) notes several of Semper's contributions as critical to the topic of symbolism of material, its use and application. Correa (1989: 42) also mentions that the local architectonic systems are more successful when applied correctly and that they and their socio-economic relevance are more appropriate to the situation (in this case, Katima Mulilo, Zambezi region). Noble (2013: 183) believes that Semper's work bestows essential conceptual frameworks (on cladding and reification) that allow the artist to move beyond:

"...material 'honesty' (that is associated with Modernism), and the arbitrary application of styles and symbols (that is associated with Post-modernism)" as well as explain the "...process of material transformation (stoffwechsel), through which materials are linked to metaphor and to tectonic memory".

The application of styles and symbols originates from the feelings that the artist and community have at the time of the design conception and fundamentally been influenced by the periodic changes that occur in style and therefore in my opinion become temporal in nature (Tzonis, 2012: 47). What then happens to the permanence mentioned by De Bruyn? Earlier I spoke about the villain that is time and space, De Bruyn (2011: 51) describes it as “terror” and it involves the use of history, cladding and ruin in a veil of interference. Local material use as was done in the past thus becomes unacceptable because it is not used or applied in a manner that depicts the true meaning of the material but rather as a copy of the past into an era that has a completely different style and symbol. Marc Bloch and David Fischer (as cited by Tzonis, 2012: 48-50) warn that this has and can still lead to tasteless anachronistic expressions of identity of the material and haphazardly be mistaken as the solution to a design problem. Olivier (2011: 76) suggests that there are two aspects of the sky (fourfold) just as important when looking at materiality which he calls ‘projection’ and ‘falling’. He pits these two together vs each other saying that:

“ Projection here means the ineradicable capacity of individuals to appropriate a given situation and transform or elaborate on it creatively, even if the tendency to fall back into the comfort zone of tradition and custom...”

Here Olivier encourages the artist to challenge the past and have a morphological approach that is new but yet sensitive and refers back to the past.

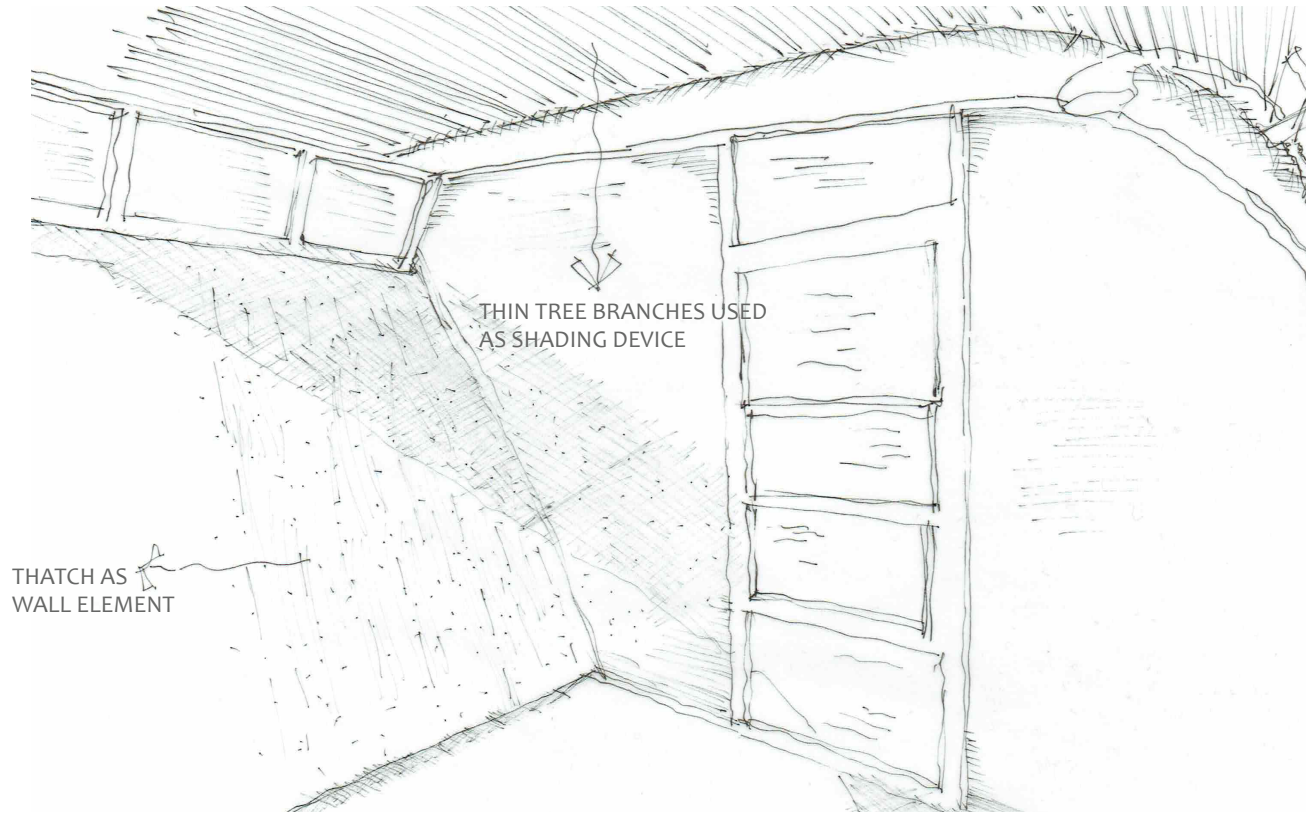


Figure 111: Subtle vernacular material use in contemporary design by Elmo Swart Architects (devised from Kim, 2011: Online)

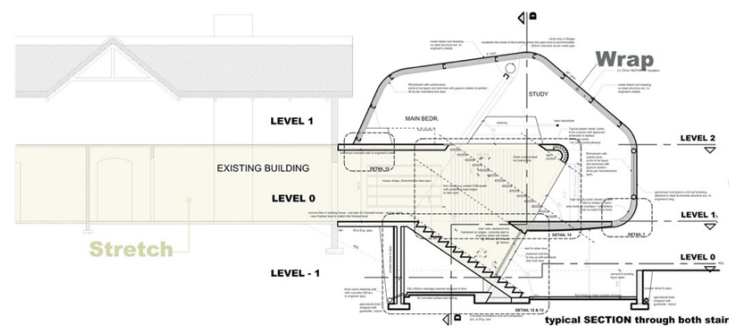


Figure 112: Cross section (left) and exterior view (right) by Elmo Swart Architects (Kim, 2011: Online)

Just like Tzonis and De Bruyn, Semper (as cited in Noble, 2013: 184) also disagrees with the materialist, although not on the same principles but on the exact opposite where he states that they are concerned with the building materials and its construction's inherent logic as opposed to the architectural expression that distinguishes material artistic application from the structural aspect. According to Noble (2013: 185) craft and materiality seem to be more relevant to Semper as an identifying tool than the concept of history vs material. Semper (as cited by Noble, 2013: 185-186) formulates three hypotheses that elaborate his concept of craft and materiality where he mentions that:

Each material has its own logical connection between the techniques suited to it and its character. The logical connection is also linked to the history of the material. In this first hypothesis Semper (Noble, 2013: 186) as interpreted by Noble suggests that there are a centres, roof, enclosure and floor elements that can be identified in the built environment. Katima Mulilo has the post office as the centre of the town, but the centre most influential in this thesis is the market. It draws people from all over the region to come sell and/or buy from a diverse list of items, ranging from food, crafts, cloth, and traditional medicine but to mention a few making it the catalyst for the activation of the roof, enclosure and floor. It becomes undeniably clear that this type of organisation is applicable to the design to be proposed due to its rural urbanity that it must also address.

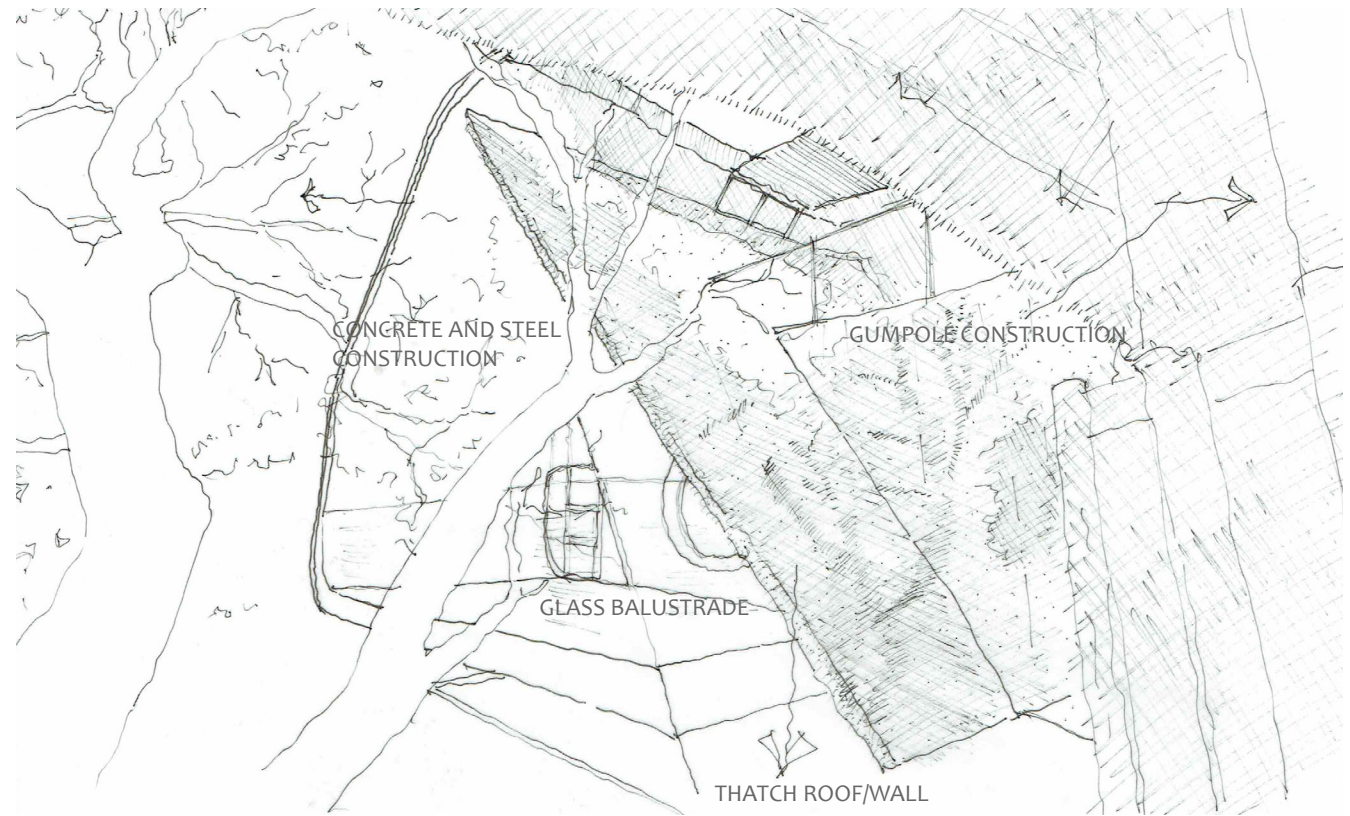


Figure 113: Combination of vernacular material and contemporary material by Elmo Swart Architects (devised from Kim, 2011: Online)

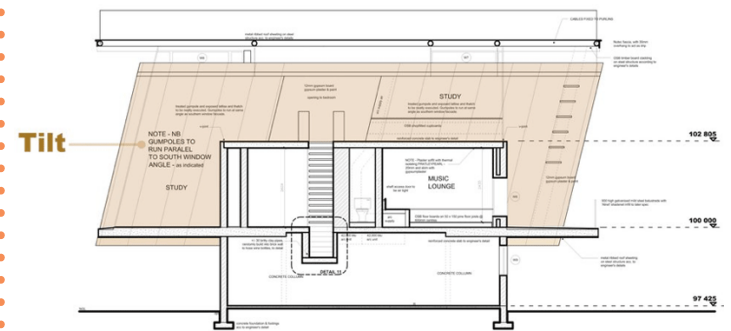


Figure 114: View from terrace (left) and longitudinal section by Elmo Swart Architects (right) (Kim, 2011: Online)

Secondly, he states that the relation between the material and its history allows for the development of new motifs, a process that he terms metamorphosis. This metamorphosis gives rise to artistic representation through figuration and is concerned with decoration, patterns and arrangements. Semper (as cited in Noble, 2013: 184) as stated above believes there is a need to separate from the materialists who focus strictly on structure, but I believe motifs (technique) are born with the idea of structure in mind. Excluding it would mean discarding the history altogether and objectively looking at the material which is impossible because once we begin formulating ideas of how to fix the material we immediately think back to how it was done in the past. Only through this analysis and understanding will we truly be able to apply the concept of metamorphosis and figuration more artistically. As one reads the article Material, Motif and Memory, we see the same sentiment from Noble although it is not expressed in a similar sense. Noble quotes Podro (2013: 187) as saying that Semper was interested in how the motif can be integrated into the design and Noble interpreted that showcasing how the material is constructed would be the most likely be the answer to this. The modifying of the material occurs from the primitive type to the primordial, the latter being the where architectural creation unfolds.

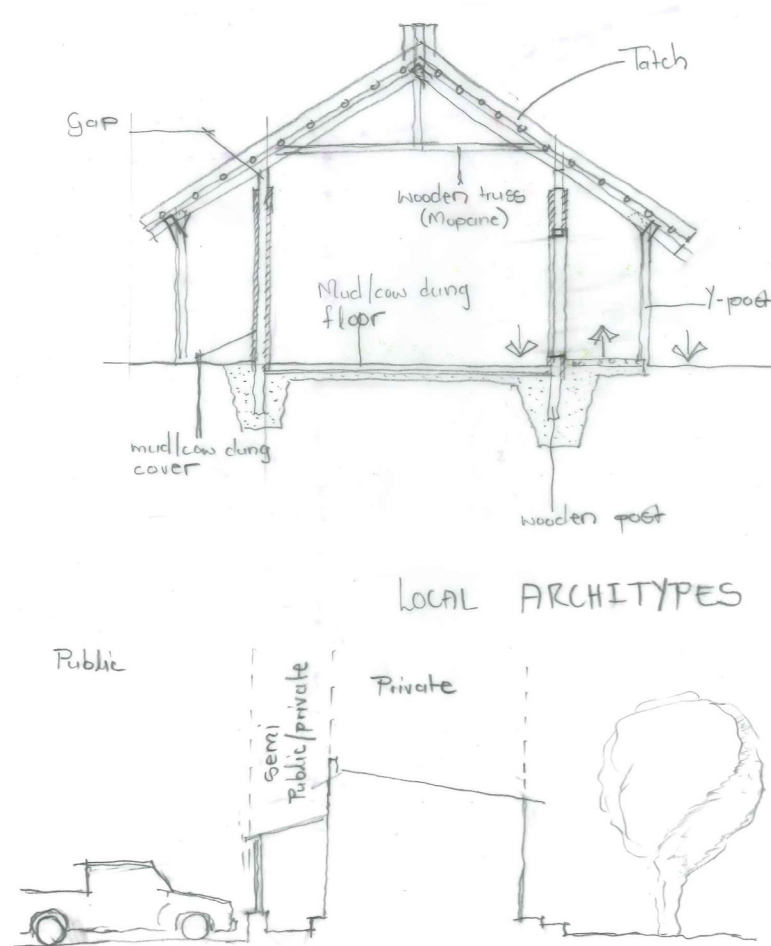


Figure 115: Typical hut (rural) construction (top) and retail (urban) space (bottom)

The most important of his hypotheses is the idea that the motifs are not limited to the specific material but can actually be carried over to other materials. This is useful for acknowledging the past via a new material creating a combination of past and present whilst adding some artistic representation to the material and space known as 'material metaphor' (Noble, 2013: 188-189). Semper gives the example of how the enclosure can adopt the motifs of other materials. The traditional lapa of a Zambezi homestead has

a barrier of about three to four metre high reeds surrounding the individual houses of the community. This was the primitive type but in my design solution, it will be modified to a more primordial status, becoming more than an enclosure and hopefully shift into a spatial threshold (open and covered walkways) that acts as a gateway into the GIPF tree-shaded courtyard (Noble, 2013: 188) enhancing the closed room to open to sky space (inside vs outside) ratio (Correa, 1989: 34).

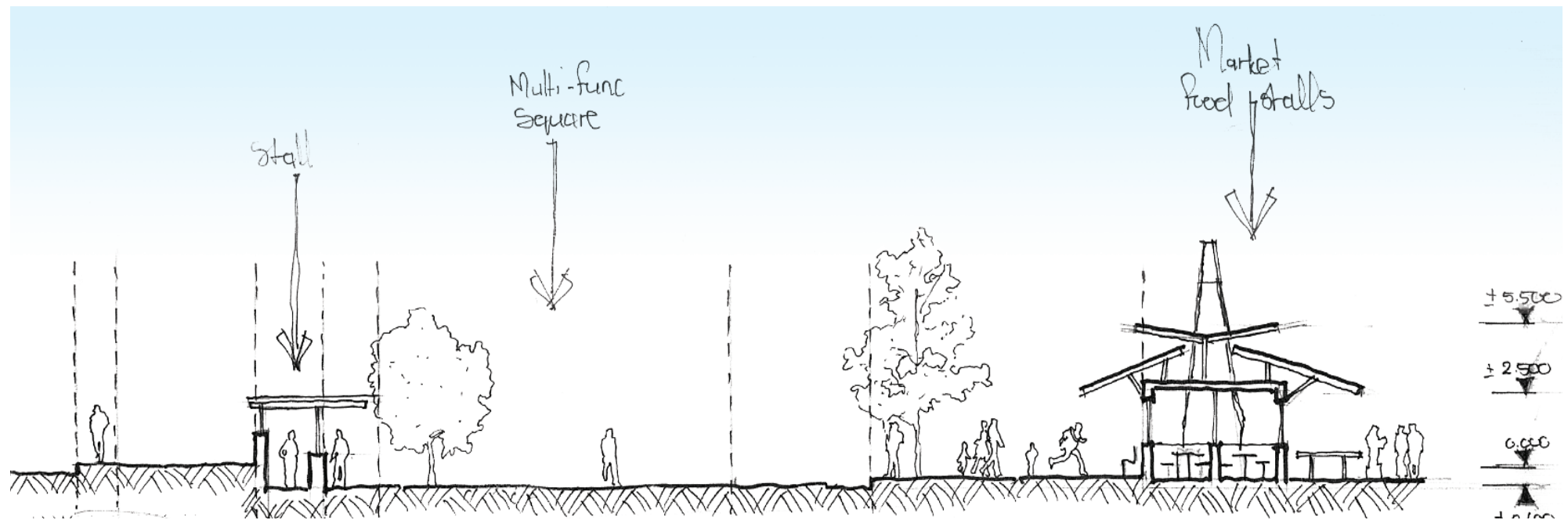


Figure 116: Section D Begins revealing the spatial quality evident at the site



Figure 117: Total Service Station _ Dec 2012



Figure 118: Ngweze location _ March 2013



Figure 119: Hage Geingob Street at Pick n Pay _ Dec 2014



Figure 120: Post Office main entrance (far left) _ March 2015

2.4 TECTONICS

An intense investigation into the local construction methods must be done so as to understand the hut as basic as it is and this is the main structural objective of this thesis. The results of such an investigation could yield valuable information and hidden techniques that have been passed down from previous generations.

These building principles could well be the key to successfully designing not only an aesthetically pleasing contextual building, but a structural system that is unique to its context and is rooted in the past, growing into the future show-casing the ingenuity and skills of the ancestors and climatically responding to the weather elements that if not handled properly could negatively affect the internal spatial environments ruining the entire design.

It is therefore imperative that the local typologies be well understood and integrated with more contemporary concepts/ideas to successfully create a building that begins stimulating the users and passers-by by making reference to the now hidden techniques that are unique to the area whilst connecting it to the current and new improved technologies developed from around the world.

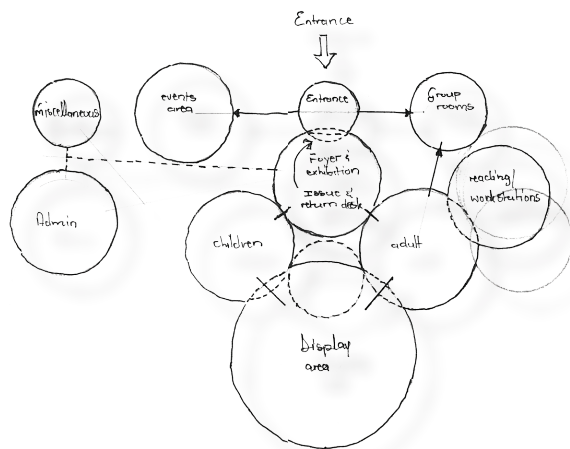


Figure 121: Small Library diagram (devised from Adler, 1999)

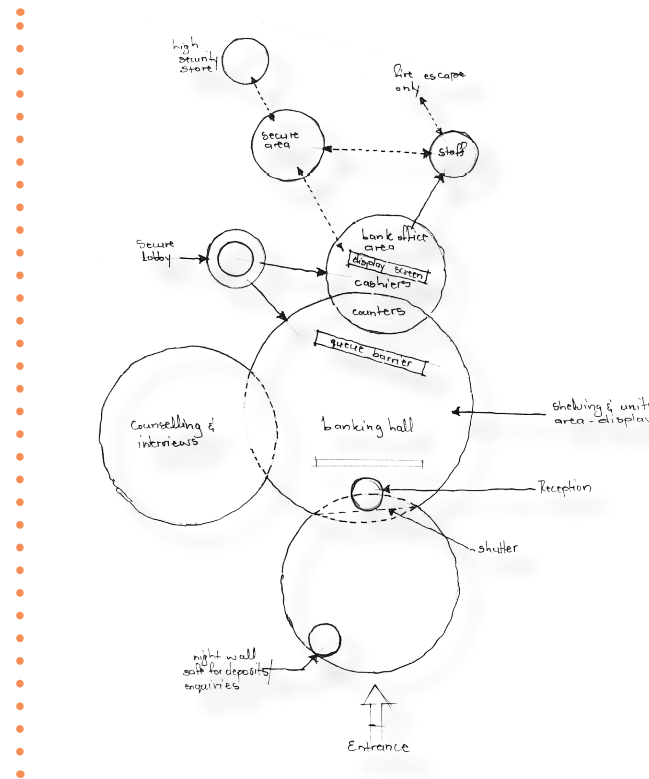


Figure 122: Bank diagram (devised from Adler, 1999)

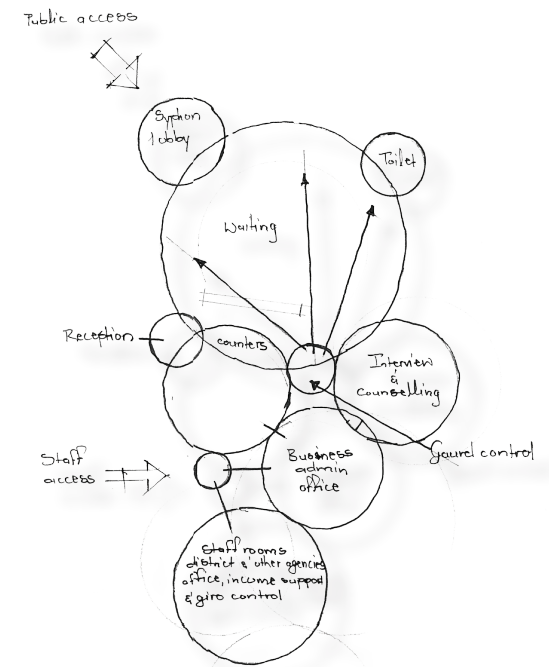


Figure 123: Benefits Agency diagram (devised from Adler, 1999)

The structural resolution must effectively begin a dialogue using an architectural language that will relate to the rural typology that is mostly familiar with the user-client. Inspiration for this resolution will be derived from the existing structure within the townscape but mostly from the composition of the rural hut. The tectonic detailing will not be a mimicry of the hut, but will rather be dictated by the material's qualities and properties. The dialogue that will be generated through the stitching of these numerous vernacular aspects will ensure that the proposal is in line with

the identity of the Zambezi region and its people, resulting in a harmonious compilation of designed space and its structural resolution, and thus becoming a catalyst for the act of place-making.

The typical rural construction is temporary and decays over time if not maintained properly. This is due to the nomadic lifestyle of the people who are mostly livestock farmers and would occasionally relocate their cattle and herdsmen looking for greener pastures. The decaying structures would

leave clues in the landscape and tell the story of the previous parasitic symbiotic relationship that once existed between man and nature.

The existing rural typology of the Zambezi region mainly comprises mud mixed with cow dung, tree poles and thatch construction. These materials are very common due to their availability and affordability. Within the urban townscape, conventional brick-mortar construction is used due to the level of complexity and skill available for such construction.

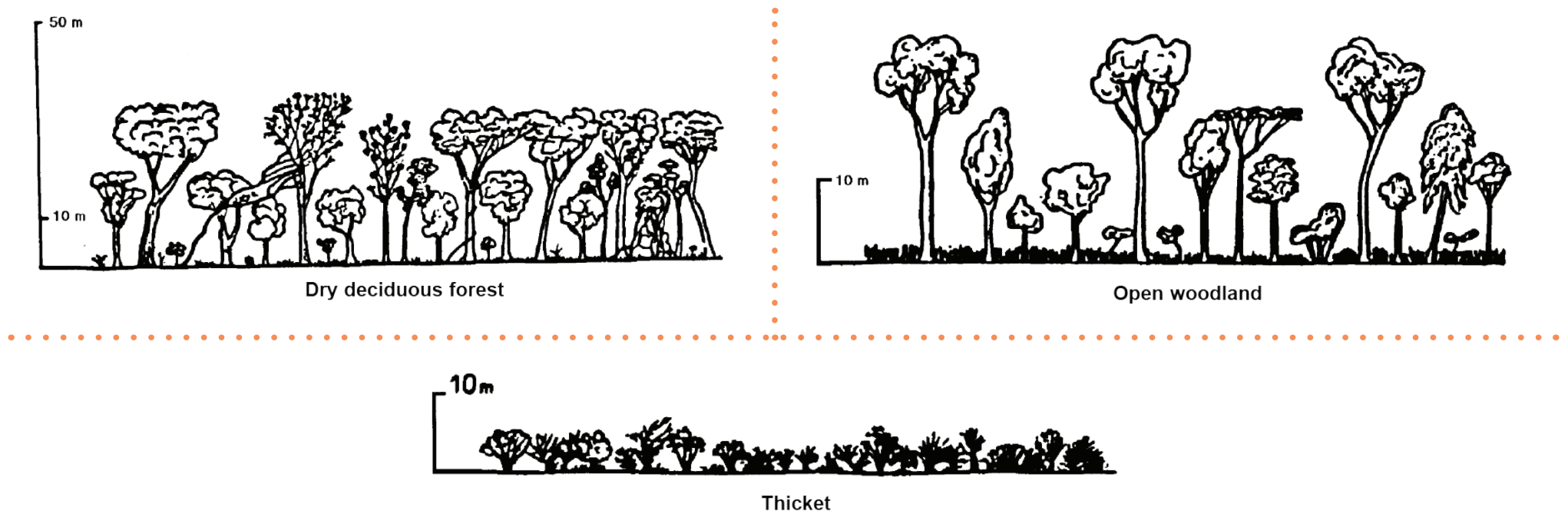


Figure 124: Forest types (UNCED, 2000: Online)

2.4.1 CLIMATIC ZONE

The site is located -17.5 Latitude ($17^{\circ}30'00''S$) and +24.26 Longitude ($24^{\circ}15'36''E$), in the small town Katima Mulilo found in the Zambezi region of Namibia. With its woodland forests and open grassland plains, the Zambezi region is best classified as a combination of the classical and romantic landscapes, each having characteristics that provide clues as to how to respond climatically as well as structurally.

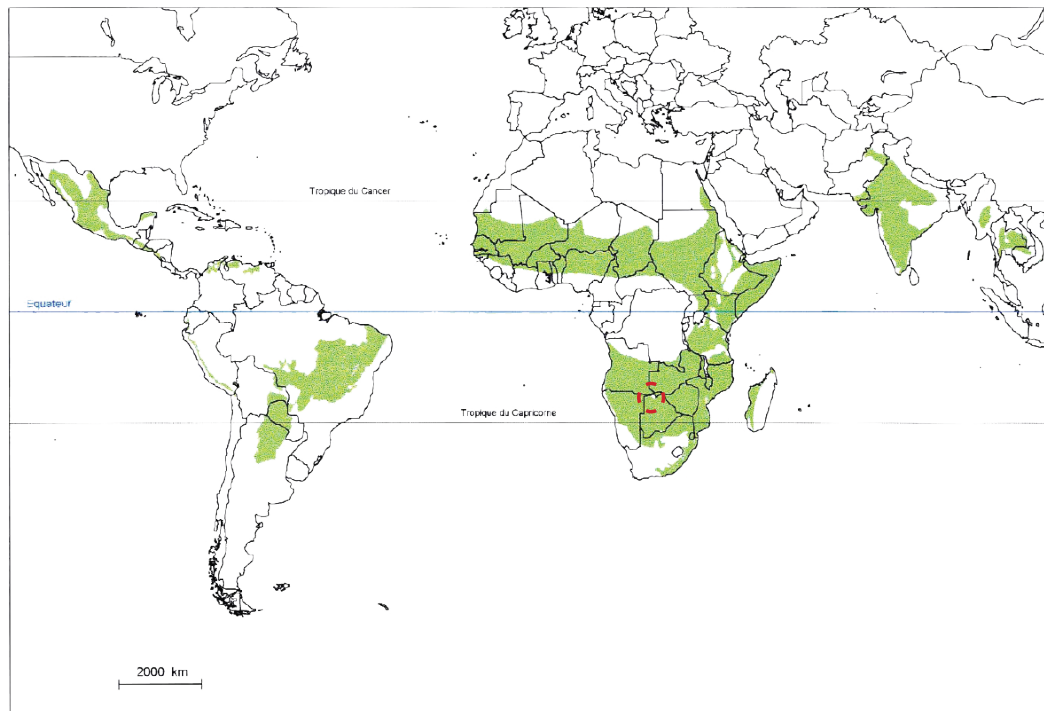


Figure 125: Dry tropical forests (UNCED, 2000: Online)

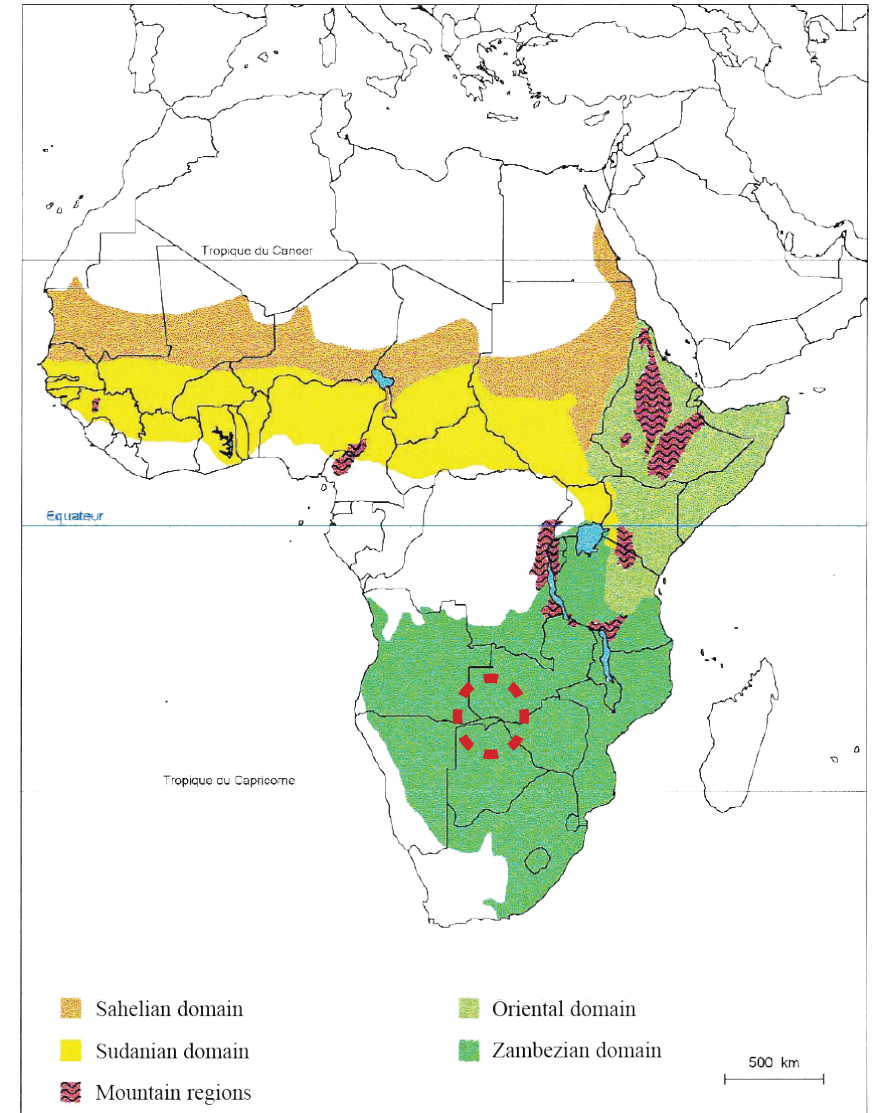


Figure 126: Phytogeographic domains (UNCED, 2000: Online)

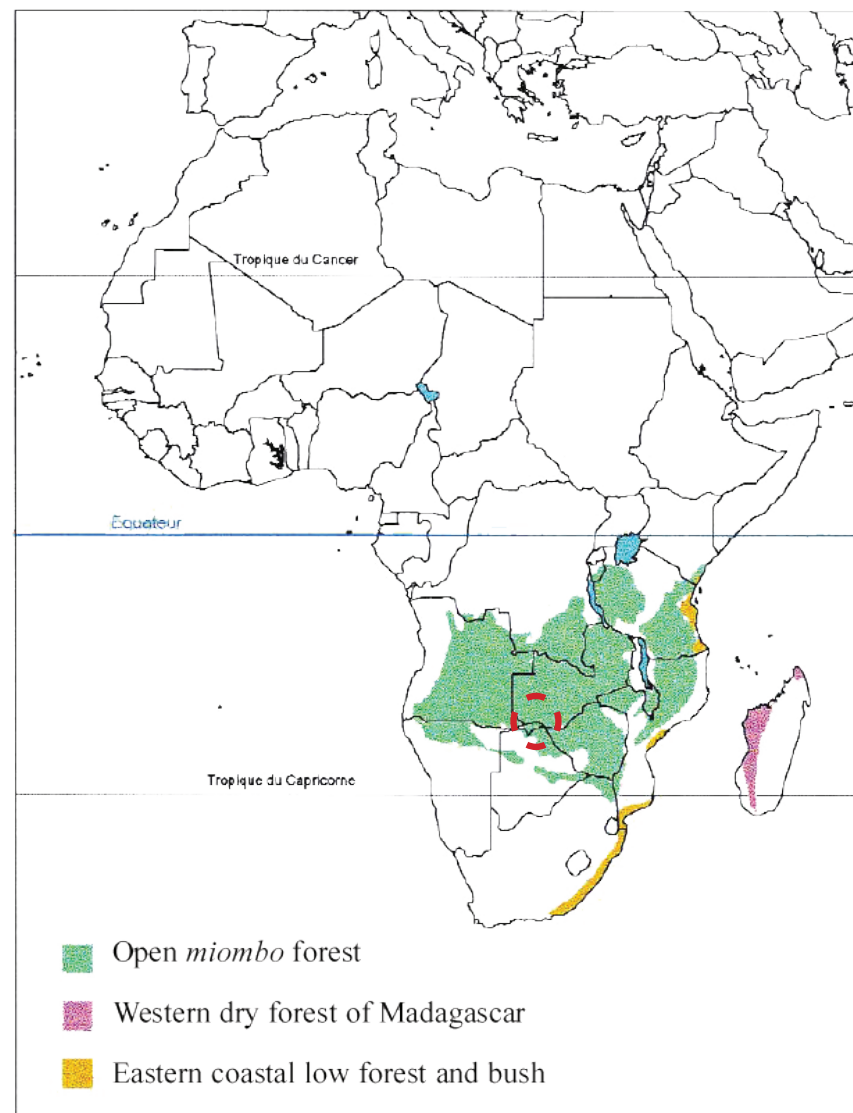
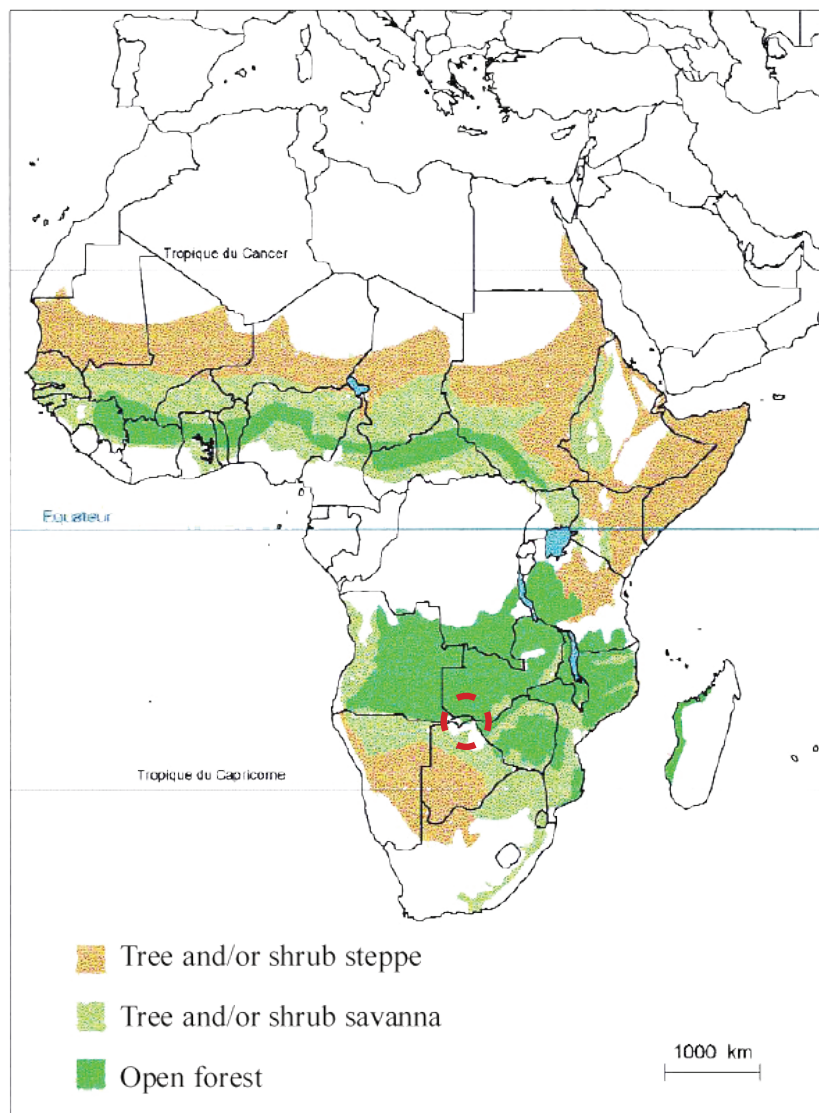
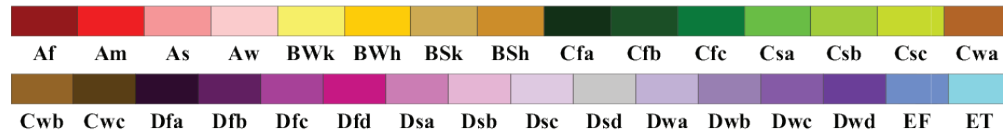


Figure 127: Map of dry plant formations (left) and open forests south of the equator (right) (UNCED, 2000: Online)

World Map of Köppen–Geiger Climate Classification

updated with CRU TS 2.1 temperature and VASClmO v1.1 precipitation data 1951 to 2000



Main climates

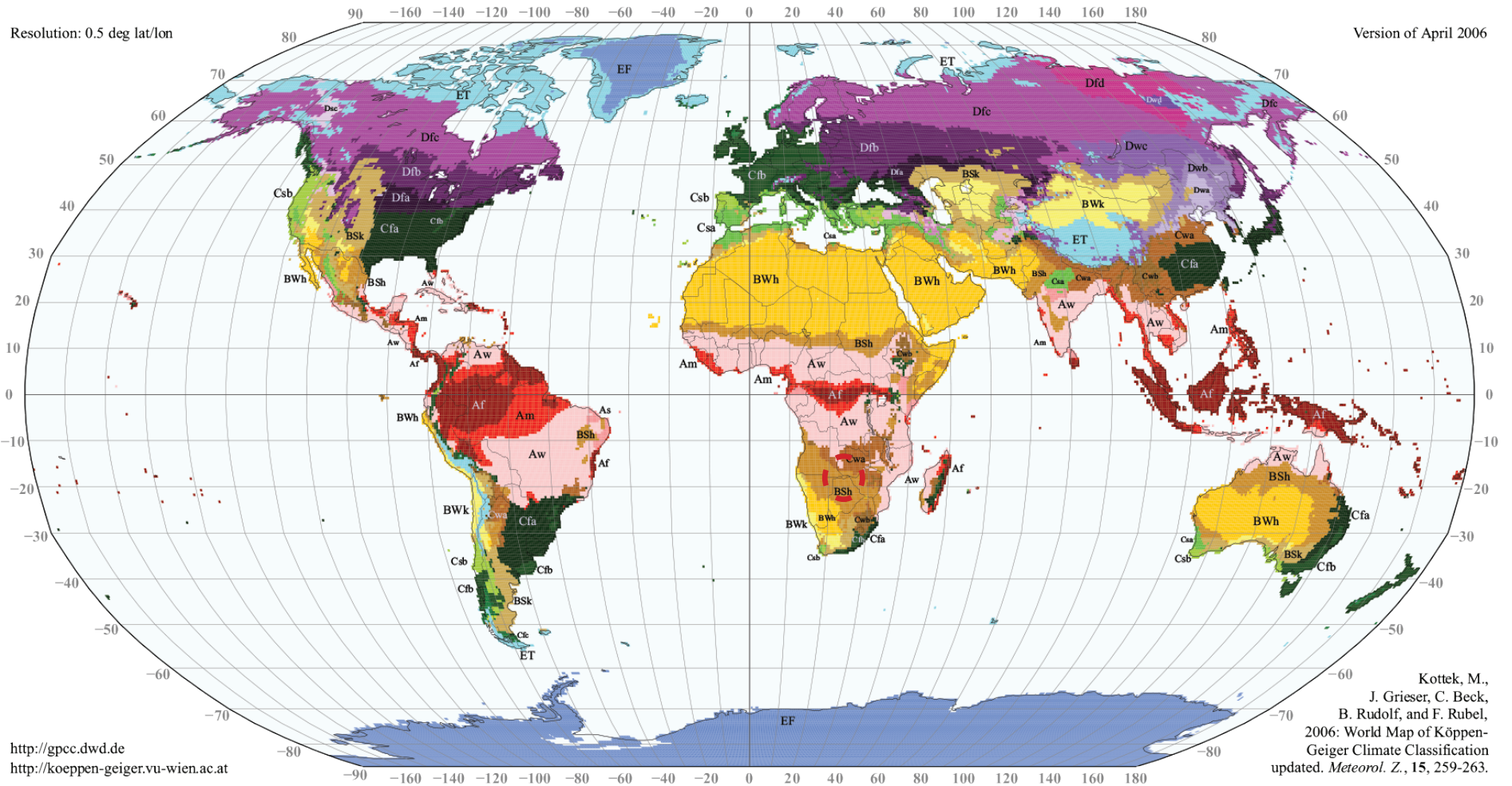
- A: equatorial
- B: arid
- C: warm temperate
- D: snow
- E: polar

Precipitation

- W: desert
- S: steppe
- f: fully humid
- s: summer dry
- w: winter dry
- m: monsoonal

Temperature

- h: hot arid
- k: cold arid
- a: hot summer
- b: warm summer
- c: cool summer
- d: extremely continental
- F: polar frost
- T: polar tundra



<http://gpcc.dwd.de>
<http://koeppen-geiger.vu-wien.ac.at>

Kottek, M.,
 J. Grieser, C. Beck,
 B. Rudolf, and F. Rubel,
 2006: World Map of Köppen–
 Geiger Climate Classification
 updated. *Meteorol. Z.*, 15, 259-263.

Figure 128: Köppen–Geiger climate zone world map (Kottek et al, 2006: Online)

The Köppen-Geiger climate classification system places Katima Mulilo in a climatic zone that is arid (main climate), steppe (rainfall) and hot arid (temperature). As can be seen on the graphs, the mean temperatures are high, meaning that the extreme between the minimum and maximum day temperatures are low and thus the proposal need not have the heavy stereotomic construction as the rest of the interior country that is more desert.

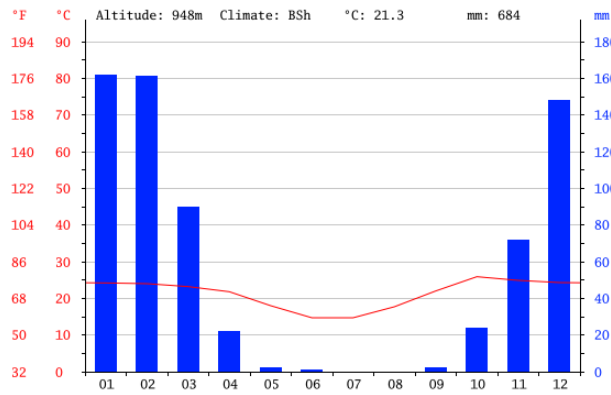


Figure 129: Climate graph of Katima Mulilo (Schwarz [n.d.]: Online)

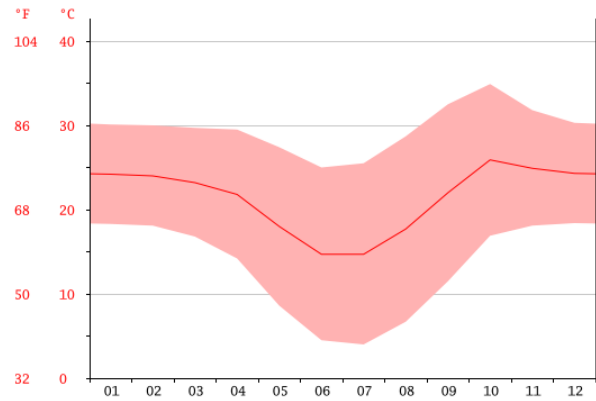


Figure 130 Temperature graph of Katima Mulilo (Schwarz [n.d.]: Online)

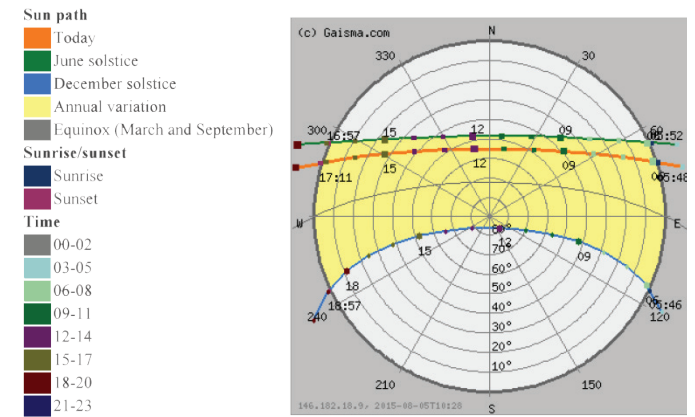


Figure 131: Sun path diagram (Tukiainen, [n.d.]: Online)

2.4.2 MATERIALITY

The local rural materials are being used due to affordability and availability. However, the play of the tectonic vs stereotomic elements in the proposed building will result in the use of:

- 50-70mm Ø thick tree branches,
- Plastered brick wall and light steel weight wall construction,
- Glass,
- Structural steel construction,
- Corrugated roof sheeting and
- Possibly, off-shutter concrete.



Figure 132: Tree posts used as load-bearing structural element (Madina Industrial Corp, [n.d]: Online)



Figure 133: Grass used as roof cover component (ImageStack, 2015: Online)



Figure 134: Adobe bricks used as infill material (TravelPod, [n.d.]: Online)



Figure 135: Plaster brick (Suryakanta, 2015: Online)



Figure 136: Concrete construction (Jonathan, 2011: Online)



Figure 137: Steel construction (Stainless Structurals, 2014: Online)

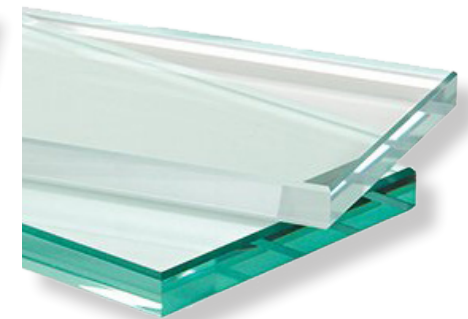


Figure 138: Glass as wall component (Gerry's glass, [n.d.]: Online)

2.4.3 CONTEXTUAL SETTING

During the rainy period, the town and region (emphasis on the former) as a whole receive heavy rainfall becoming swampy and muddy and covering everything from people to cars, while flooding in the rural areas forces the people to evacuate and vacate their homes due to the rising water levels. Upon their return, their homes would have collapsed and property would be damaged.

Currently Katima Mulilo has an inadequate storm water system and this results in severe ponding in certain areas of the town. The proposed site topographical condition is one of such areas. There is about a two metre height difference from the edge of the road down into the market square.

One way of possibly tackling the storm water runoff would be to channel it to the courtyard or park spaces that have been identified or are to be developed with the proposed intervention. A secondary alternative would be to raise the structure allowing for the natural flow of the streams underneath the building.

This is a contrast to the heavy, earth-bound construction that is evident in both the rural and urban fabrics, but begins questioning the historical construction method and also suggests subtle alternatives that can be used to counter the forces of Mother Nature.

Heat must also be taken into consideration as another “modifying element” (Unwin, 2007) as described by Simon Unwin in *Analysing Architecture*. Summer temperatures can be as high as 40°C with winter minimums only decreasing down to 12°C. To avoid unbearable internal environments the following must be implemented:

- Limit direct sunlight into the building,
- Avoid unnecessary heat gain,
- Design of passive ventilation systems and
- Roof design that filters light into the interior.

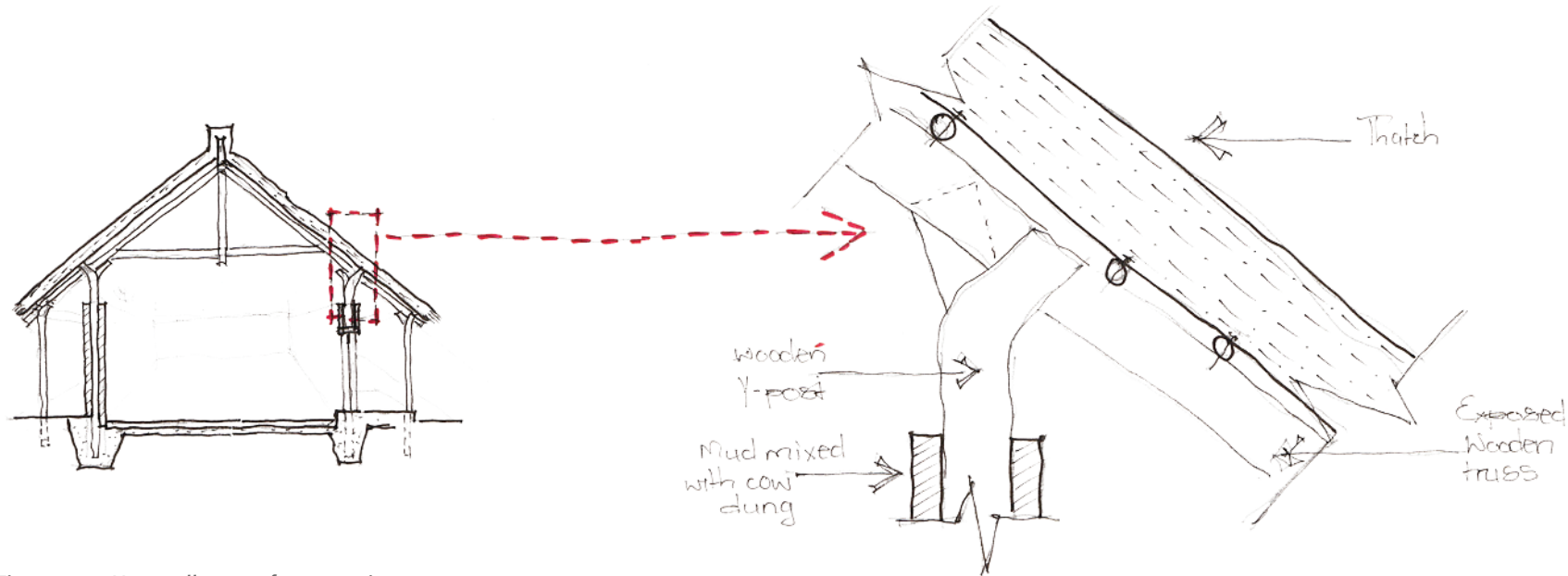


Figure 139: Hut wall to roof connection

The rainwater from the summer rains can also be collected and used to cool the spaces as it flows underneath and past the building.

Wind does not blow vigorously around and through the site because of the large trees in the vicinity, but the cool breezes that originate from the shaded areas can be harvested or mimicked for the areas in and around the proposed building and spaces.

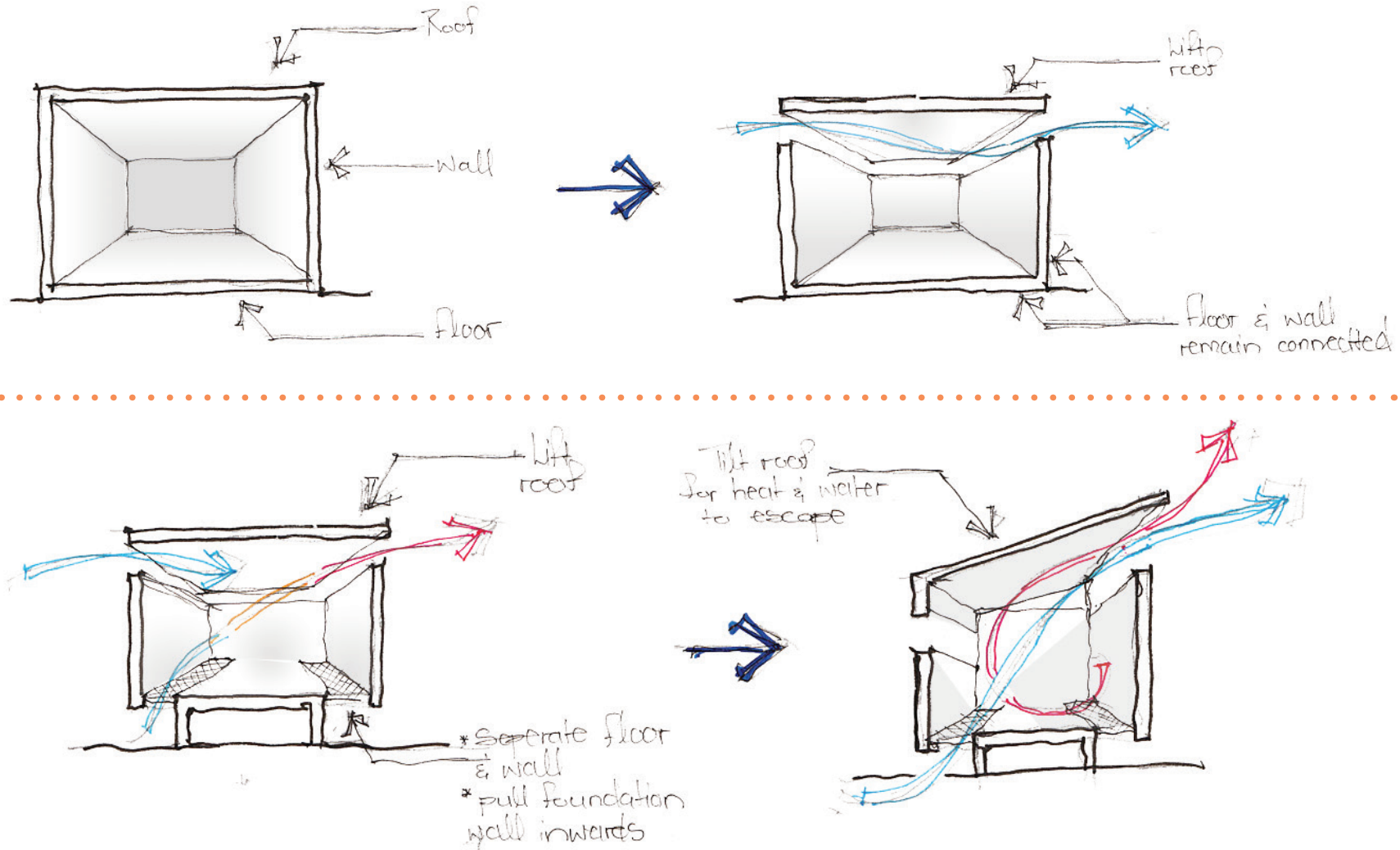


Figure 140: Wall-to-roof connection adjustment into proposed structure development

2.4.4 TECHNICAL PRECEDENTS

- Westcliff Pavilion
by Gass architecture Studio
- Women's Health Centre
by FAREstudio

Westcliff Pavilion _ Johannesburg _ South Africa by Gass Architecture Studios:

The pavilion was constructed using steel due to the access difficulties, steep slope and in order to have a minimal impact on the environment.

The architect, GASS architecture studio, wished to use the local natural stone found in the area. The manner in which the local material was implemented resulted magnificent suspended natural stone wall.

As part of their response with the steel frame, they decided to explore the traditional stone wall by also lifting it, creating an unbelievable solution to the problem they were faced with.

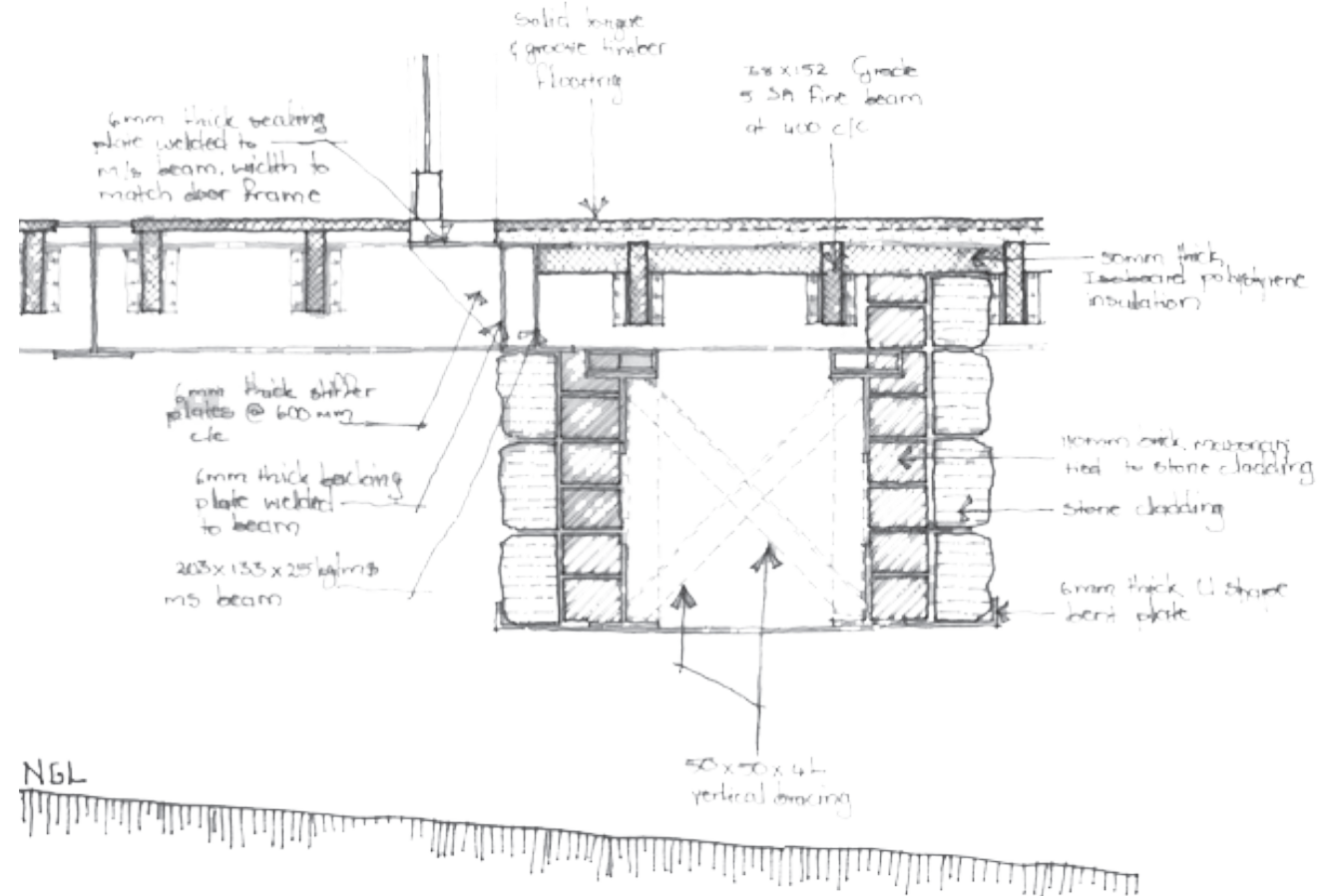
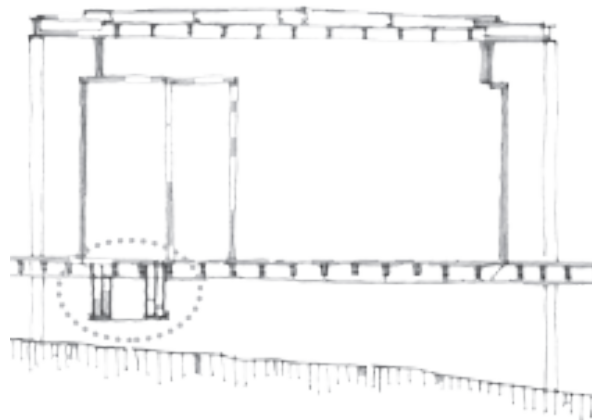


Figure 141: Cross section (left) & floating wall detail (right) (derived from Louw, 2014)

Women's Health Centre_Ouagadougou_Burkino Faso by FAREstudio

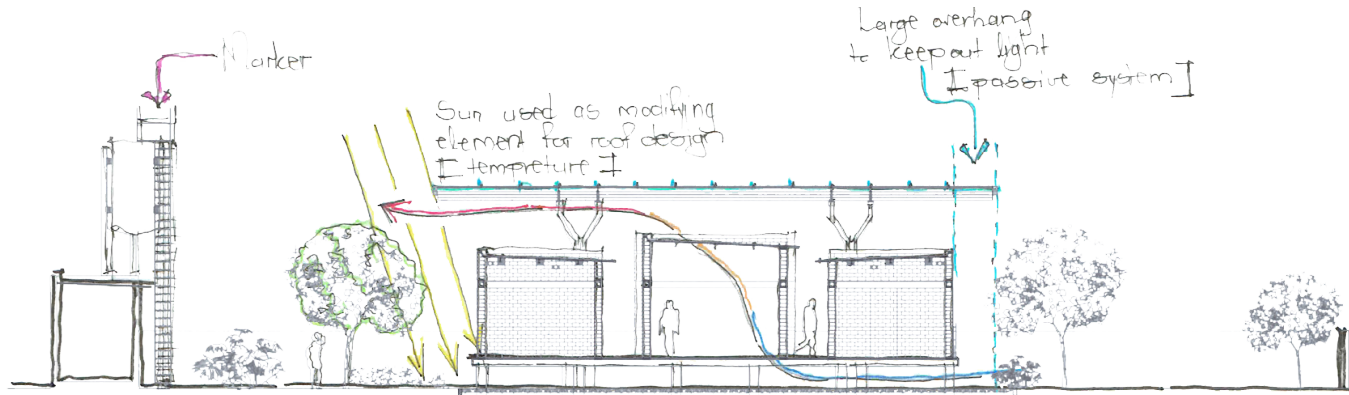


Figure 142: Section through living/office spaces illustrating how lifting of building assists passive ventilation systems (derived from Fernandez-Galiano, 2011)

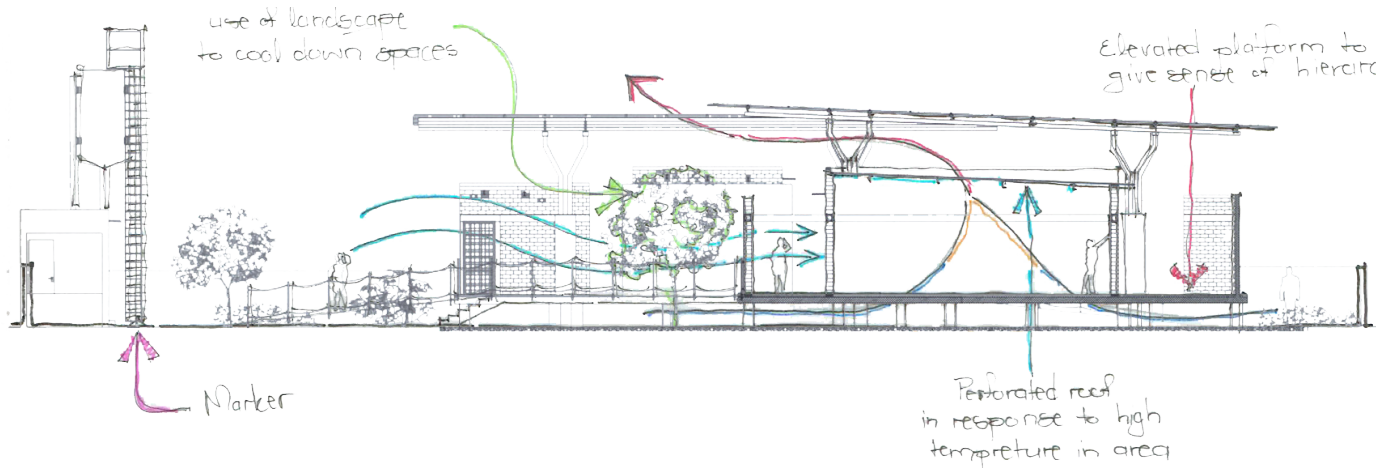


Figure 143: Section through block and front of centre illustrating use of vegetation and roof overhang to cool spaces (derived from Fernandez-Galiano, 2011)

The centre is located on the rural outskirts of the capital city, Ouagadougou. The district is in a dilapidated condition, but there are still people living in the area and there was a need to provide this centre for the emotional and physical well-being of the women in the area.

The floor level was raised to keep dust and mud out, simultaneously living up to the cleanliness that is

expected of a health facility. This floating floor also allows cooler air to come up from underneath the building, into the interior spaces and out resulting in a passive cooling system.

The harsh sun and heavy rainfall further prompted a response that resulted in the large roof structure that covered all the buildings of the centre and allowed for the double layered roof construction. This layered

construction aided the passive sustainable design systems that were achieved and kept the total construction and running costs at a minimum. The roof structure was also incorporated to harvest the rainwater and direct it to the front courtyard spaces and garden.

The client had a brief and desired to adapt the typical typology and reinvent it into a contextual response that will draw people to the complex aiding in their outreach programmes.

Precedent studies that will help aid in achieving the mentioned goals/systems have been re-

searched and investigated. Merely copying the structural solution may not always be the answer, but it may be required to adapt the detail and make it more applicable to the context and materials chosen for the construction.

The construction of such public buildings within the

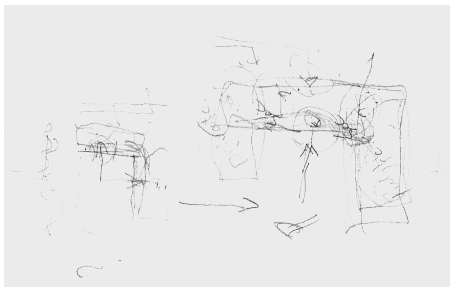
urban context must always respond to the environment and acknowledge the challenges to be expected. A structural system that is a combination of the historical, social, economic and natural forces of the area will positively anchor itself by becoming part of the existing fabric without seeming alien and deflecting the intended user.

2.5 THE WAY FORWARD

The complexity of the town demanded that it be seen as a cell, and just like a cell, it has many components that work together to keep it alive. This model of viewing the site can also be applied to the macro and meso-analyses of the region and country, and because of this, the design will be harmoniously rooted in the context and result in a product that is useful to the community. The harmonious integration of the design will thus achieve the following:

- Interaction with the community
- Acknowledge the built environment, both rural and urban,
- Creative application of the material so as to give thanks to the lessons learned from the past.

The Urban Design Precinct is flexible and identifies pockets of spaces that need further development and just like the market, will become the catalyst for the development of the civil service (referring back to the post office, hospital, town hall etc.) pocket of Katima Mulilo, the other pockets can be activators of their own precincts such as transport or recreation.

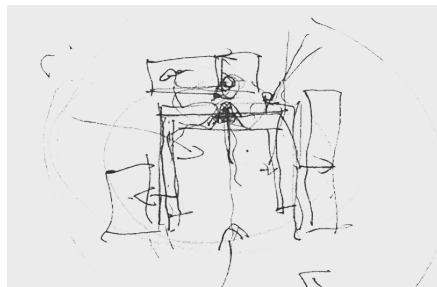


Noble's observation of Semper's writings provides or lists the types of concepts that are available to the artist (in this case, the architect). All three can be used separately or intertwined to formulate a myriad list of options for an approach that acknowledges complexities between:

- Materiality vs history
- Materiality vs craft
- Material as structure vs Material as decoration

These together with Oliver's notions of projection and falling, simply mean that we should transform our way of viewing and applying materials and be careful not to rely on history as a solution and copy the past, thinking we are answering the morphological problem in an appropriate manner applicable to this day and age.

Although Semper focuses on the material as decoration, I still consider the aspect of structure as an integral part on the application of the material. With this transference of memory through the material, it can be concluded that the understanding or interpretation of the motif or material metaphor will never be the same throughout the community especially if the source of such is not rooted in the historical back-



ground of the material and society. In so doing, the ideas by De Bruyn and Tzonis become inconsistent with the objective of this investigation. The coded message being relayed within the historical wavelength is more often than not missed resulting in the instructions of how to use space and material into a contextually spatial experience being lost in translation. The technique, application or motif need not be ancient and both the artistic and scientific aspect of architecture must understand that it is a variable dependent on time scripted with the coded message that is history (knowledge).

The law of the earth also begins coaching the mortal to always take the climatic conditions of the area, and manipulate the building elements that are the roof, earth connection, and archetype of the proposed building, creating a design that is old and new at the same time. This is where we begin applying the motifs of traditional (vernacular influence) building techniques and remember that we need not copy the entire traditional archetype, but rather elements that are relevant and reflect the layers of knowledge gained through time. Only

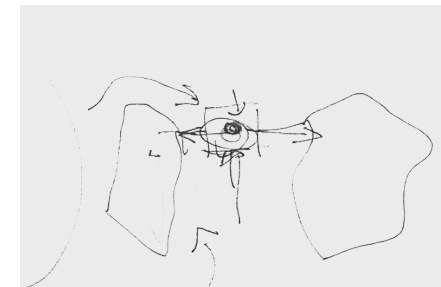


Figure 144: Movement conceptual sketches (options 1-3)

through this referral to the ruin, cladding, history and sacred laws can the culture be understood and interpreted into an architectural form informed by its context and deemed truly sustainable.

With all the principles stated above having been investigated and taken into consideration, the objective is that the design explores all the avenues of local and global elements resulting in an architectural approach or design method that is international but not international in the sense that it is global and looks like something in Cuba, China, Germany, but that we acknowledge the differences of the different parts of the world and have the final design portray this by it primarily showcasing the culture of the area but simultaneously reflecting the global character of the world through its material use.

The title 'Shift/Transformation of Identity through Spatial evolution' is exactly as it reads. The composition of space has always had the ability to enhance or destroy one's perception of a place. This mostly occurs when there is no spatial connection of the building to its surroundings. Thinking critically and basing every design decision on the context is the only way to begin contextualizing the design and carrying through the energy and feeling embodied within the place.

PART 3

DESIGN SYNTHESIS AND TECTONIC DEVELOPMENT

The design synthesis will thus be the response of these components stitched together.

1. DESIGN SYNTHESIS

With the aid of the quantitative site analysis, the prime location & accommodation list were generated. The user-client & the activities they embark on upon arrival in town were also clearly identified.

The Cognitive site analysis together with the identification of the user-client began hinting at the type of language to be employed for this project choice. Some of the few elements that were revealed was the design of outdoor courtyard spaces by way of placement of the building & also the flow between the larger 'open-air' public spaces.

Supporting Precedent studies showcasing similar typology & socio-economic conditions were investigated so as to develop an understanding of various options that can be adopted & adapted to the client's brief & accommodation list.

Most of the Qualitative analysis will be used here to begin demonstrating an approach that has the aura of the context embedded in it.

The touchstone primarily focused on acquiring an understanding of the urban framework and demonstrated the need to 'cut away' parts of the town fabric so as to achieve the 'socio-urban' objective.

The Historical & Cognitive analysis together with urban precedent studies were tools used to understand the daily rituals of the inhabitants of the region. Thus nodes of interest were also identified & connected via urban interventions that allowed the town dweller to move from one place to another safely & comfortably.

The user-client needs and requirements prompted an investigation into recuperation spaces out of the public realm. These spaces would have to have seating and play spaces for the elderly and young. The form-giving was determined by way of scale & radiance analysis. Local building techniques & materials also contributed to the nature & feel that was achieved.

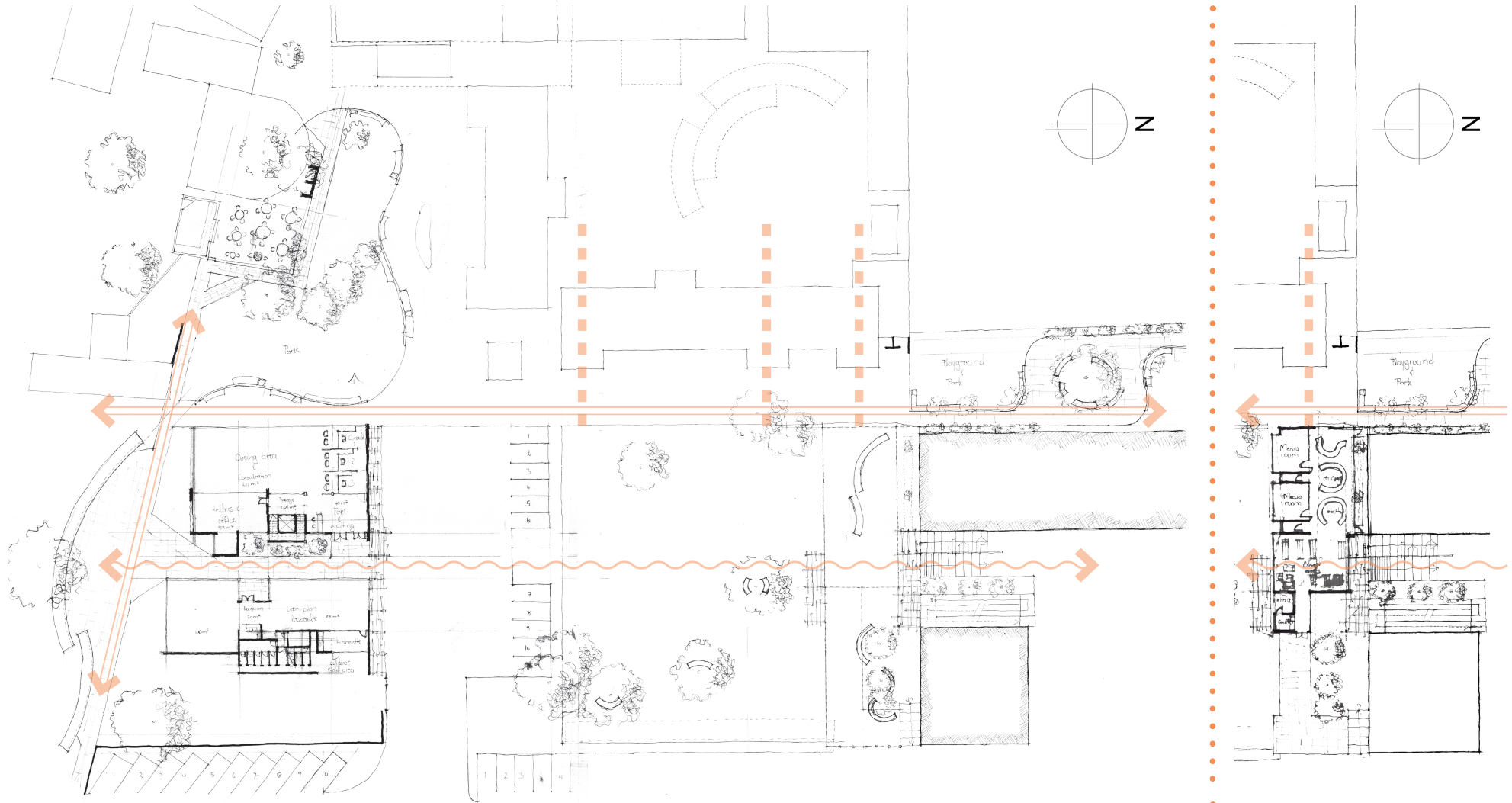
1.1 SKETCH PHASE DEVELOPMENTS

Sketch development 1

■ ■ ■ market rhythm

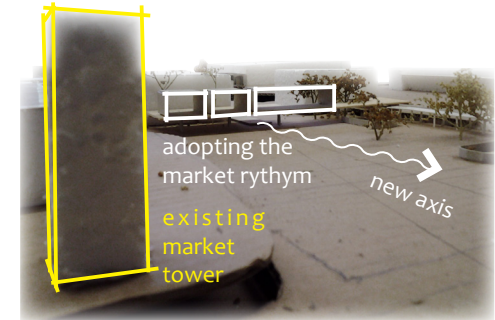
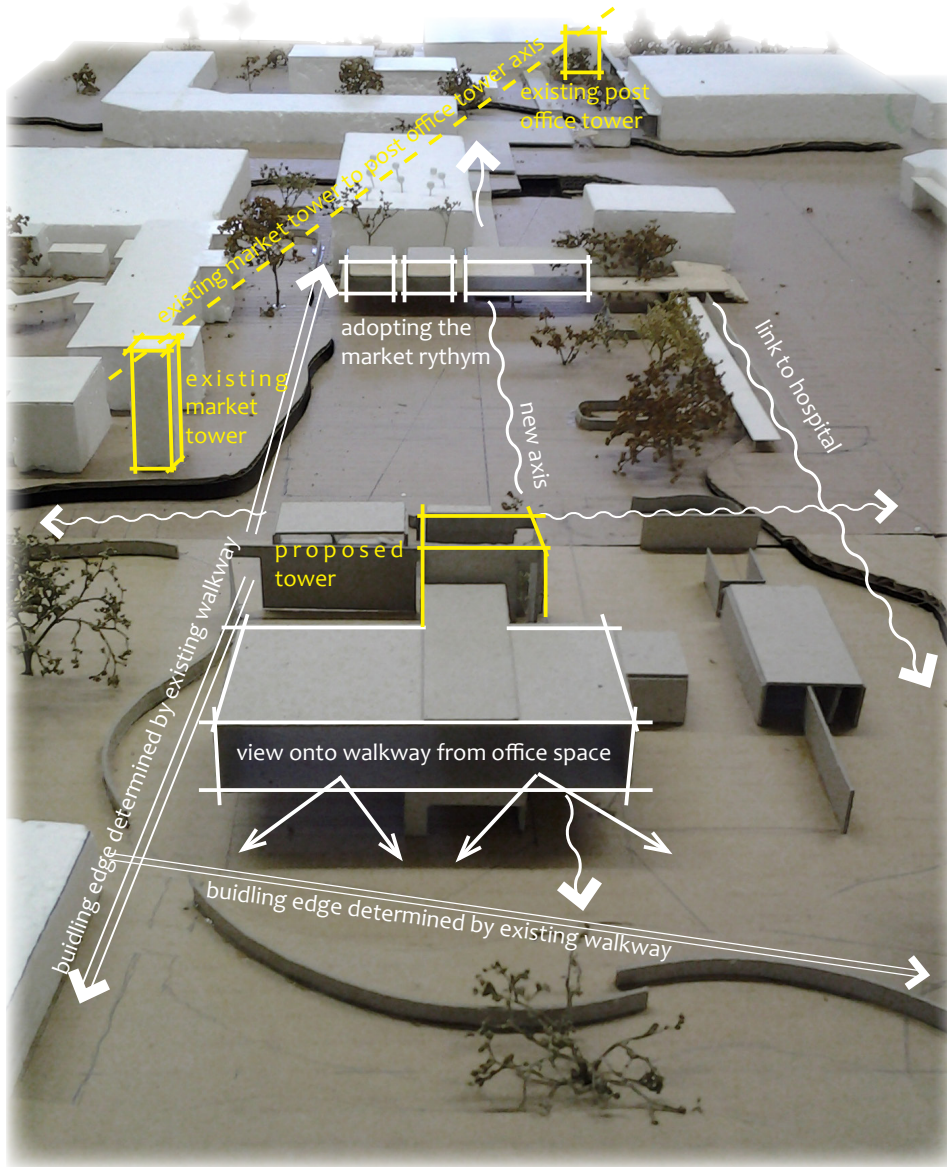
~~~~~ new axis from old town hall

==== existing walkways



Ground floor plan

First floor plan



**Aim:**

- Acknowledge the market square by splitting proposal and placing buildings adjacent from each other
- keeping the delicate scale by placing first floor office to the back
- Keep existing walkways open and link using the new axis

**Point of departure:**

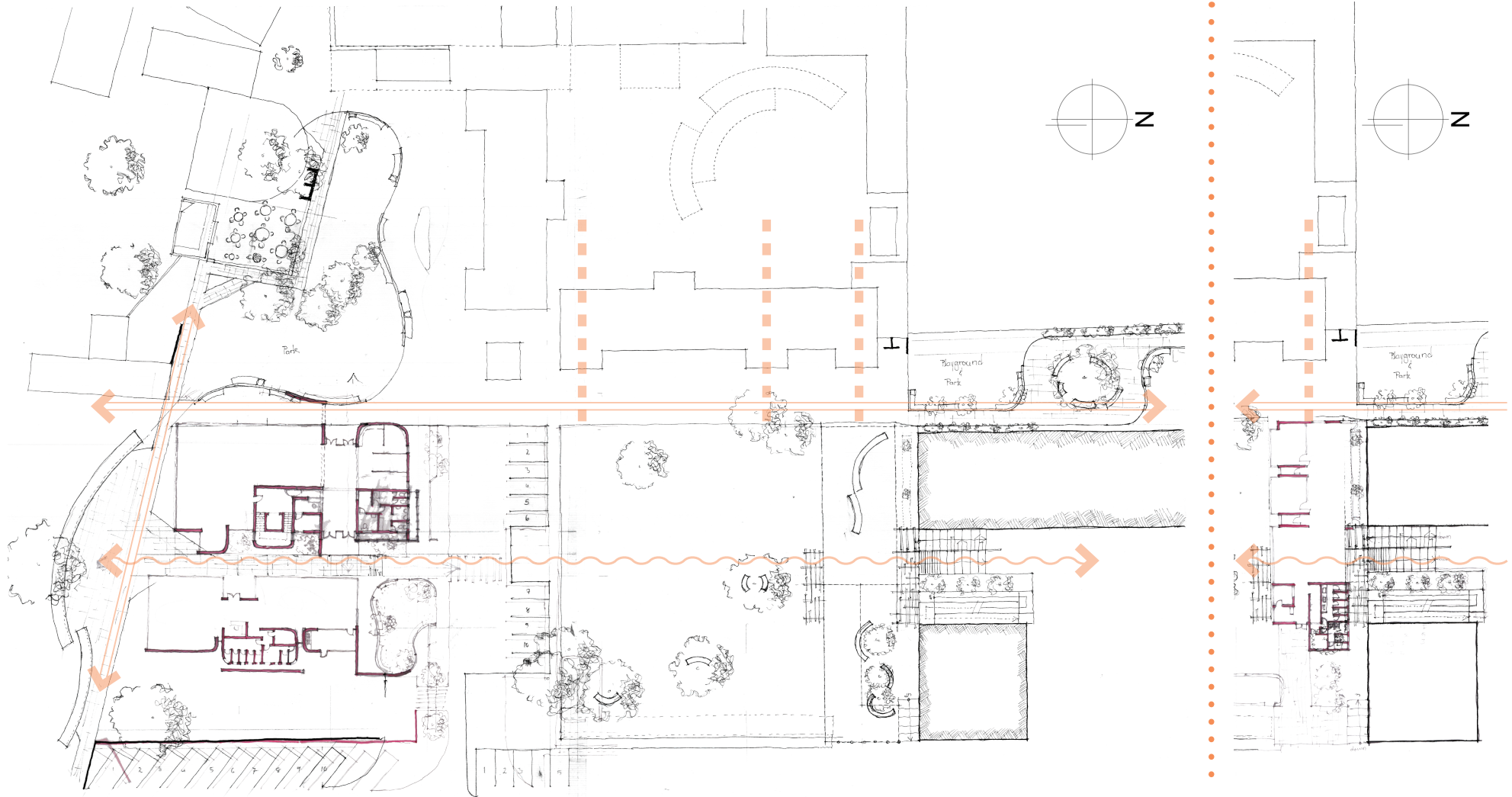
- Proposed tower position is obstructs is functionality
- The market square is not framed properly
- Using the new axis to connect to existing walkway suggests that the connection point be a space of hierarchy

# Sketch development 2

■ ■ ■ market rhythm

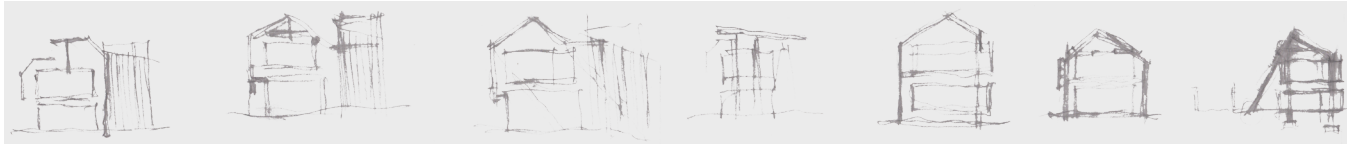
~~~~~ new axis from old town hall

==== existing walkways



Ground floor plan

First floor plan



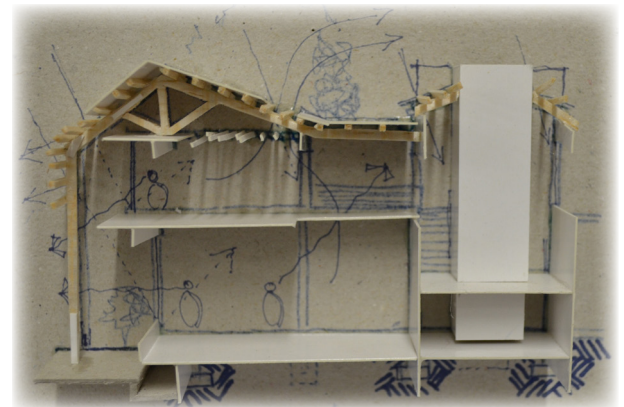
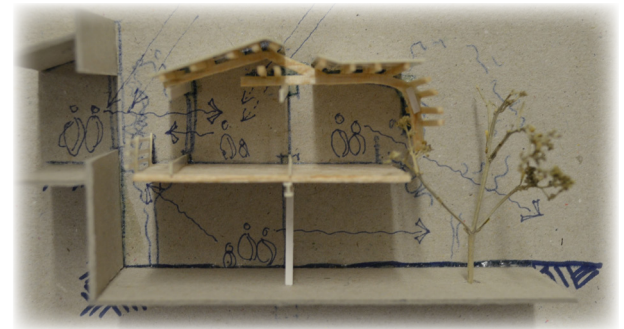
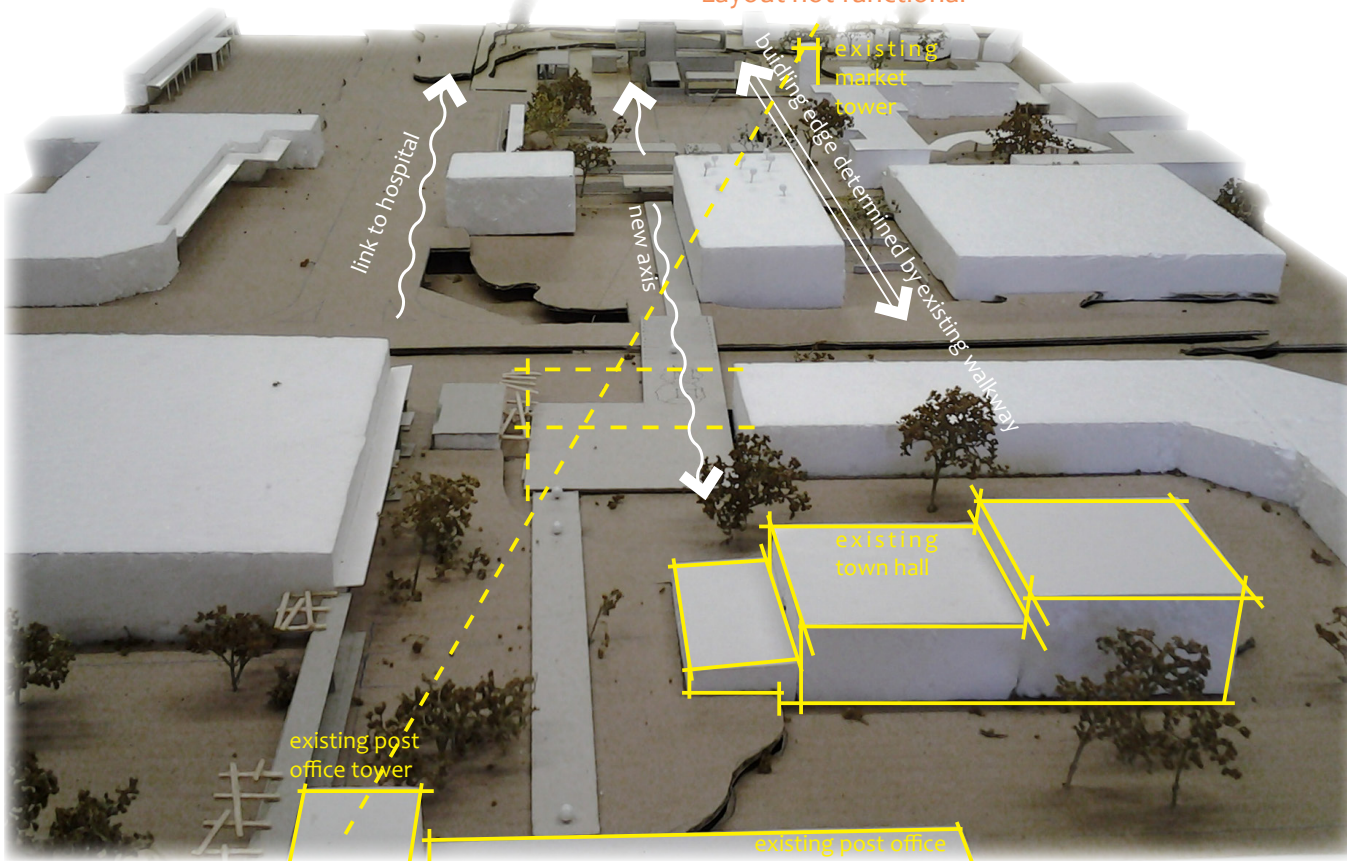
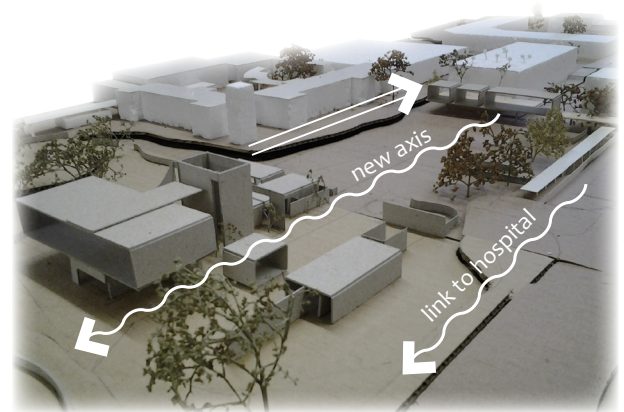
Section development

Aim:

- Designing the section for a better connection to the walkway and market
- Planning layout adjusted to be reminiscent of rural homestead for more contextual urban approach

Point of departure:

- First floor office space did not address the square
- Section design did not correlate with morphological desired outcome
- Proposed entrance and tower were still hidden
- Layout not functional

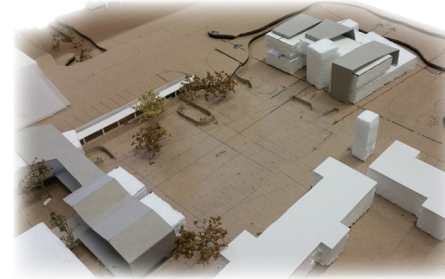
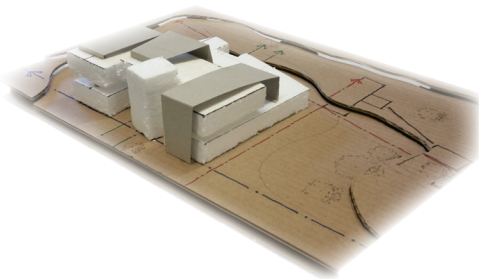
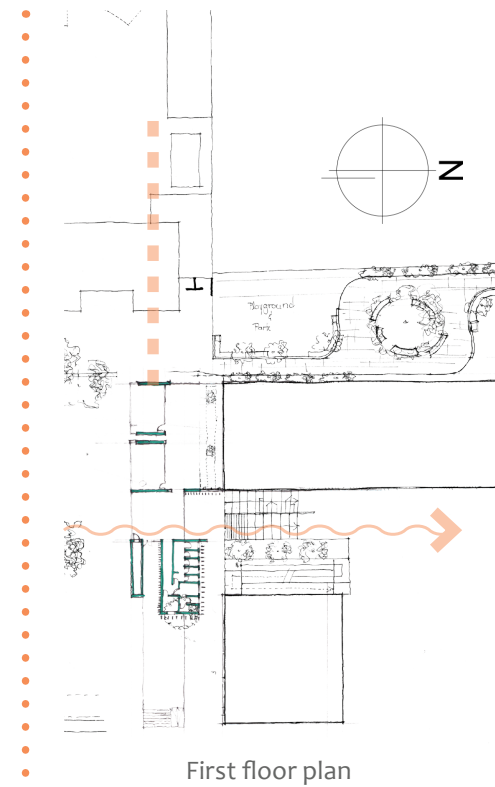
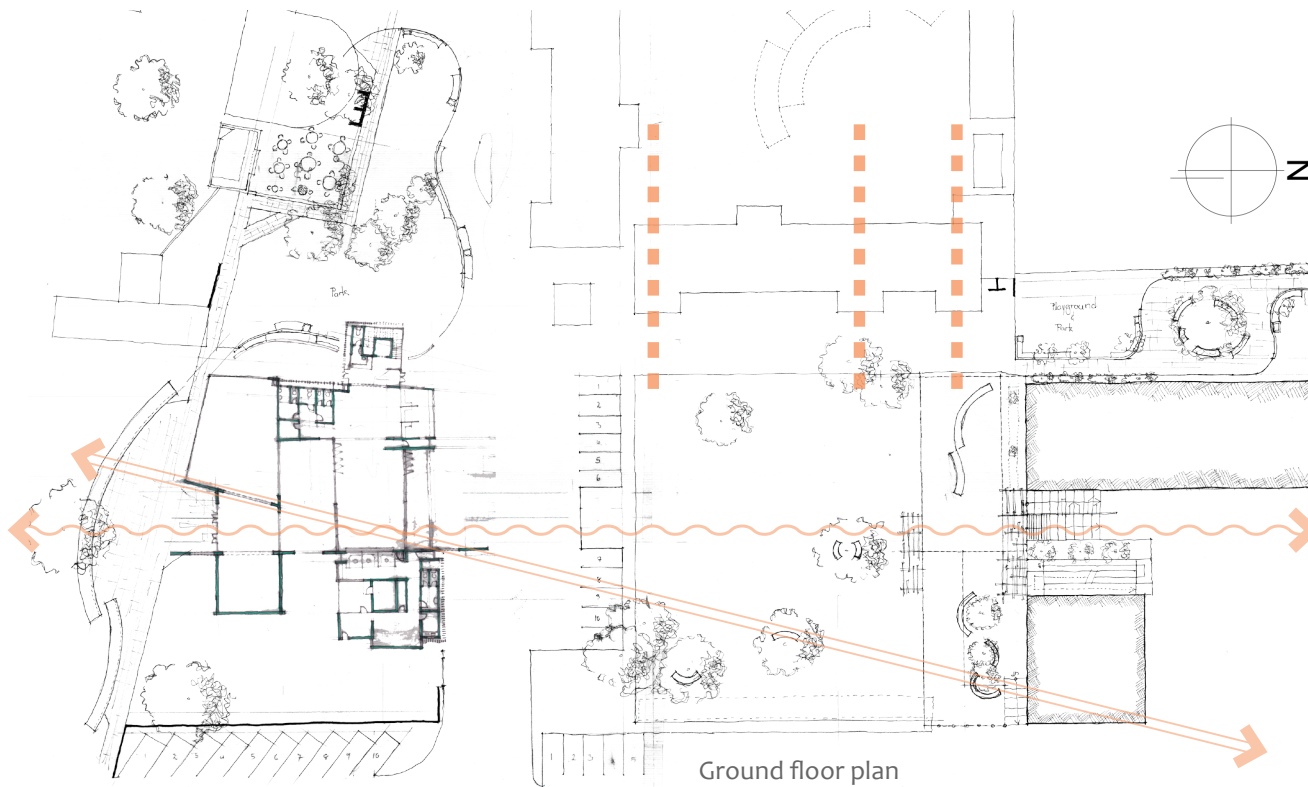


Sketch development 3

--- market rythym

~ new axis from old town hall

== use of contextual lines (market to post office)

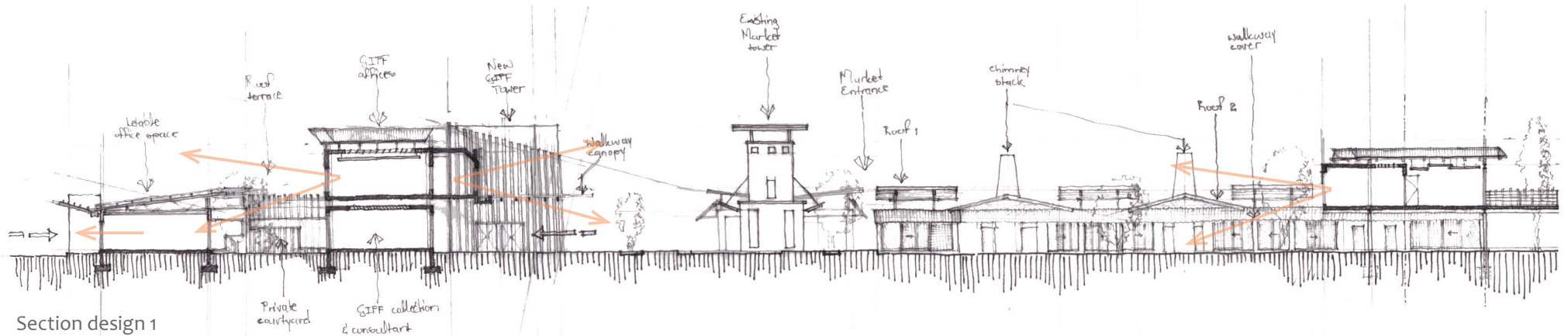


Aim:

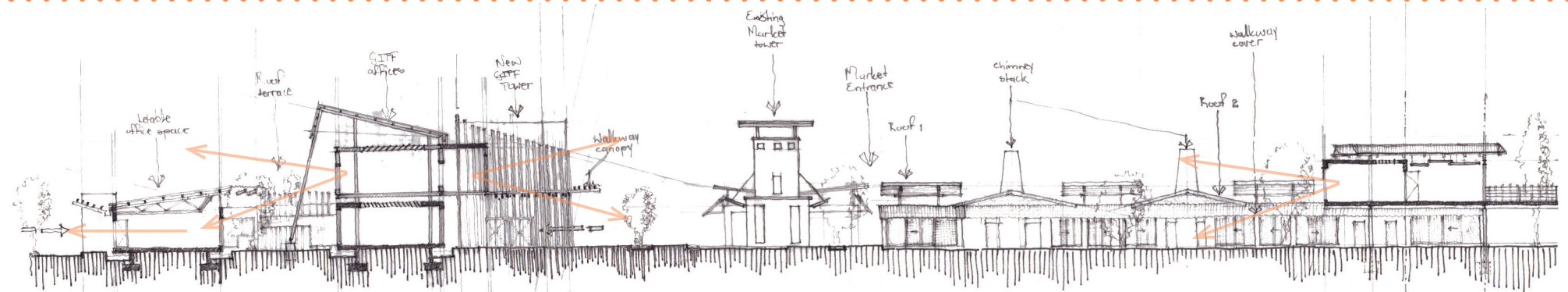
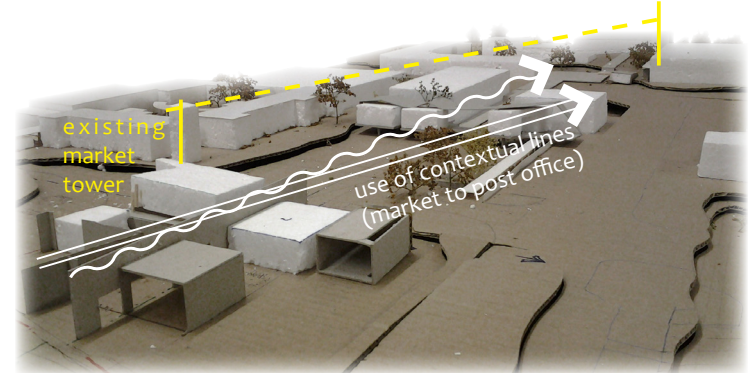
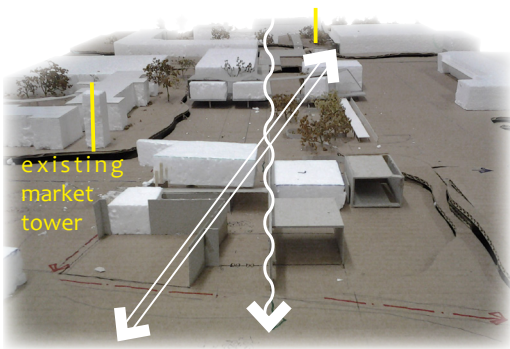
- More communal planning
- Articulation of roof design to enhance connection to context

Point of departure:

- No indication of entrance position (right)
- 3D spatial arrangement is detached and too solid (left)



Section design 1



Section design 2

Shift/Transformation of identity through spatial evolution.

Sketch development 4



Figure 145: Woonhuis Laren_ Netherlands (top and bottom) (MAAS, [n.d.]: Online)



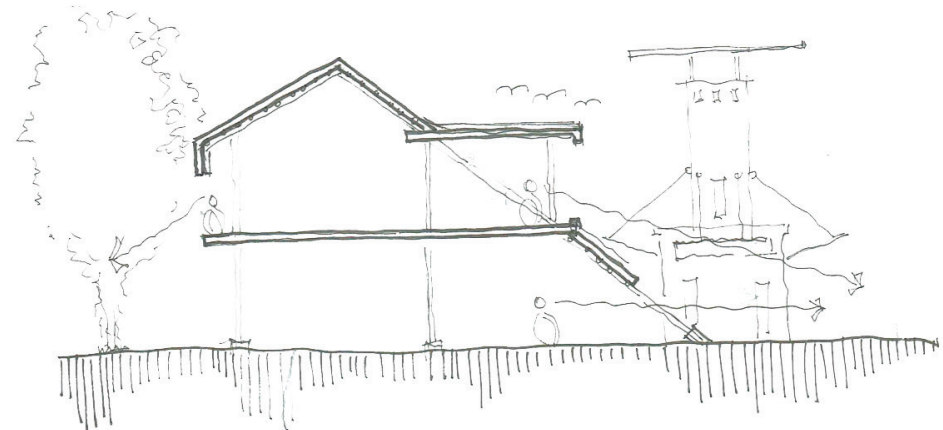
Figure 146: Townhall Midden in Delfland (centre and right) (Simons et al., 2012: Online)

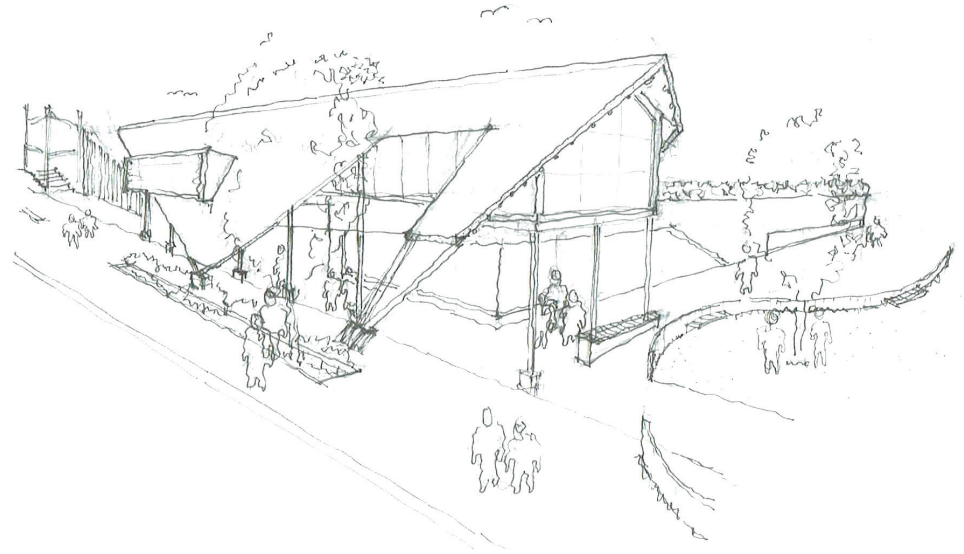
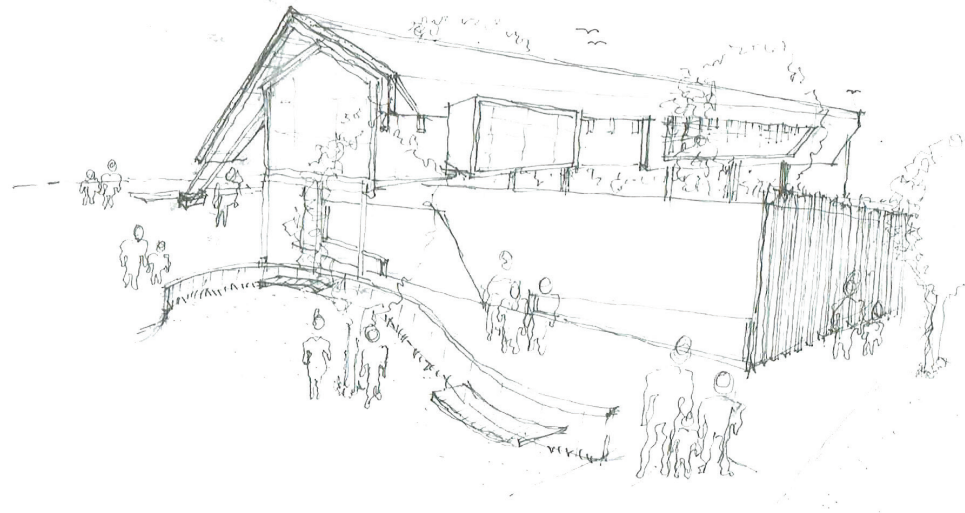
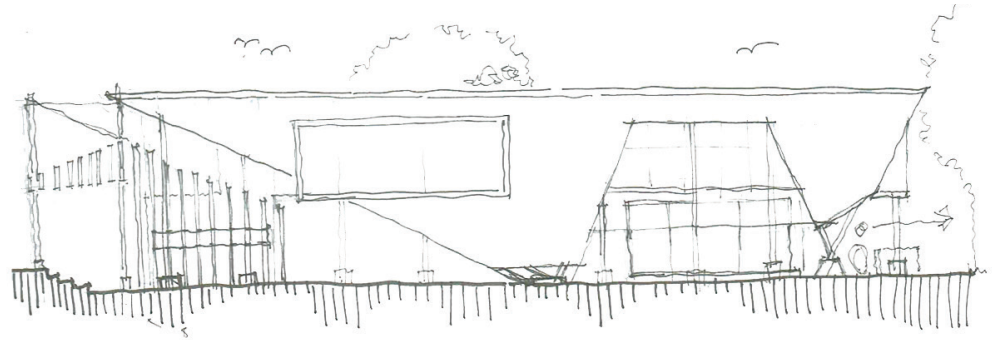
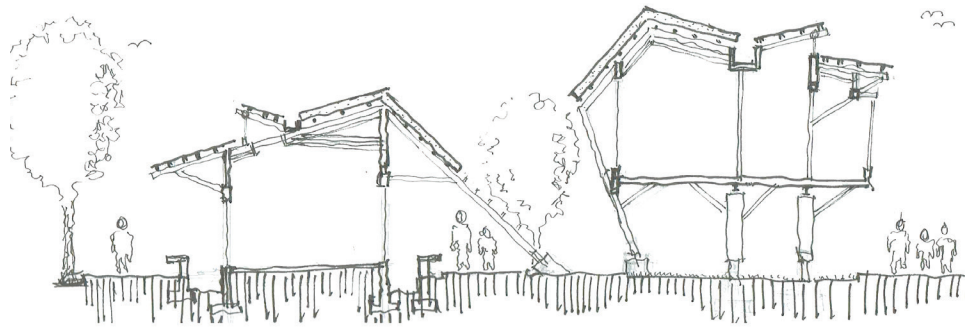
Aim:

- Investigate vernacular roof material as possible roof cover
- Using the adopted market rhythm to create 'viewing boxes' in office space

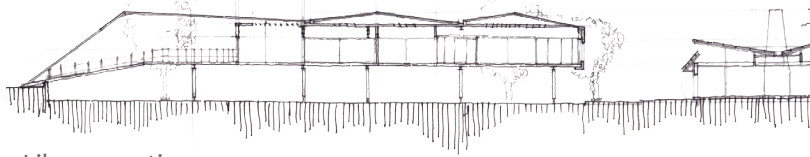
Point of departure:

- Requirements for thatch construction produce a high roof that overwhelms the market and its square
- Relates back to Folker's findings that communities do not like to be cast back into history, it would have worked if it was a residential project

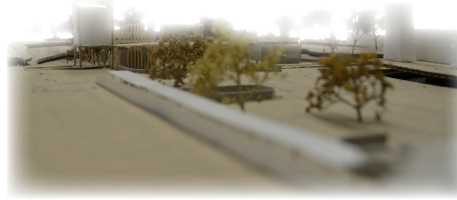




Sketch development 5



Library section

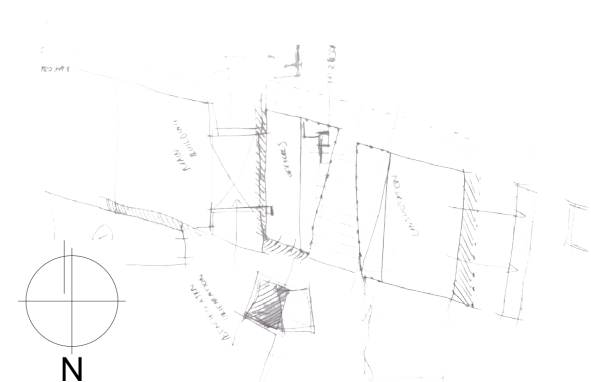


Aim:

- Using existing ordering lines to generate spatial arrangements and linking two proposals using market rhythm

Point of departure:

- Roof design worked on section, but failed to address the urban context on morphological approach
- Proposal was too dispersed for its function
- Proposed tower position needs to be revised



Ground floor conceptual sketch

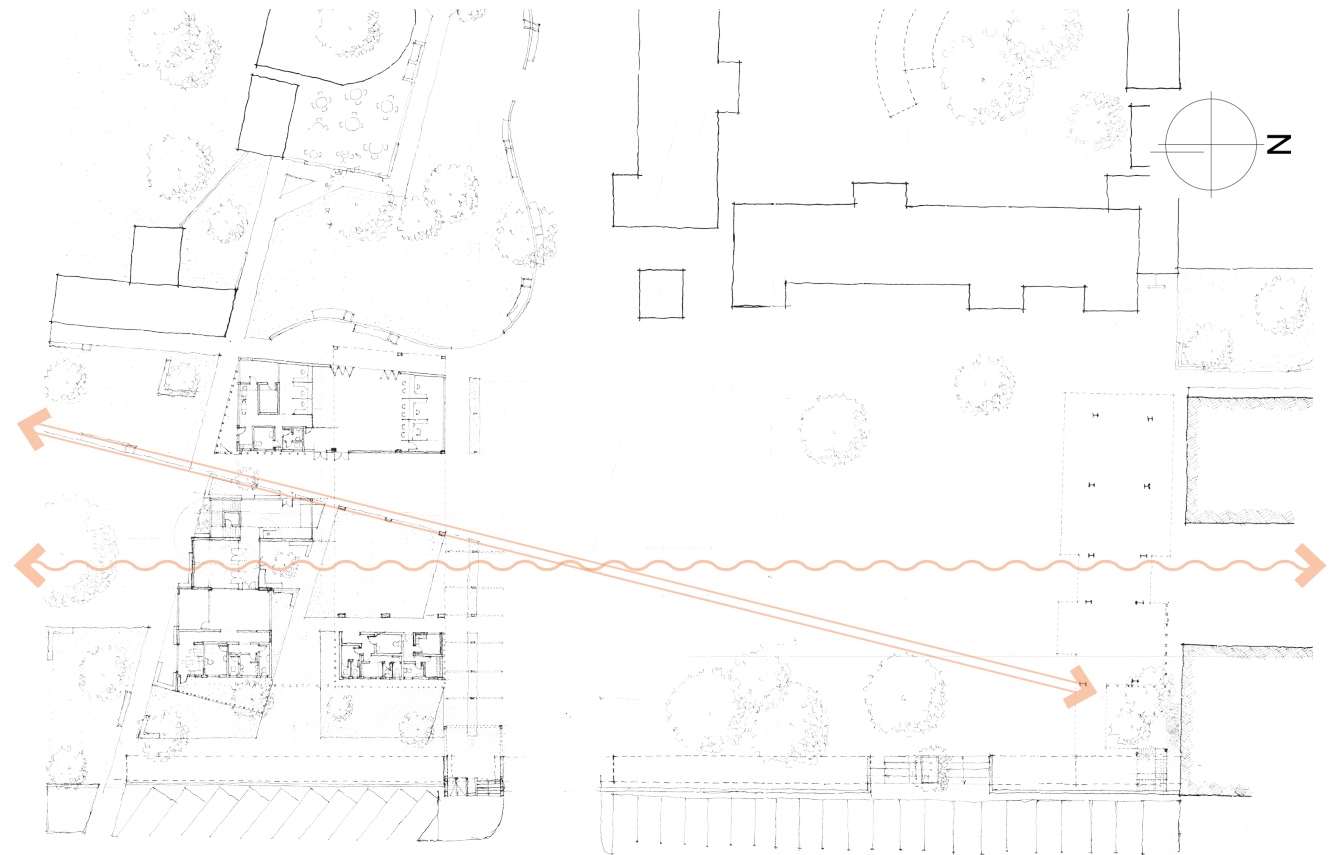


Ground floor conceptual sketch development

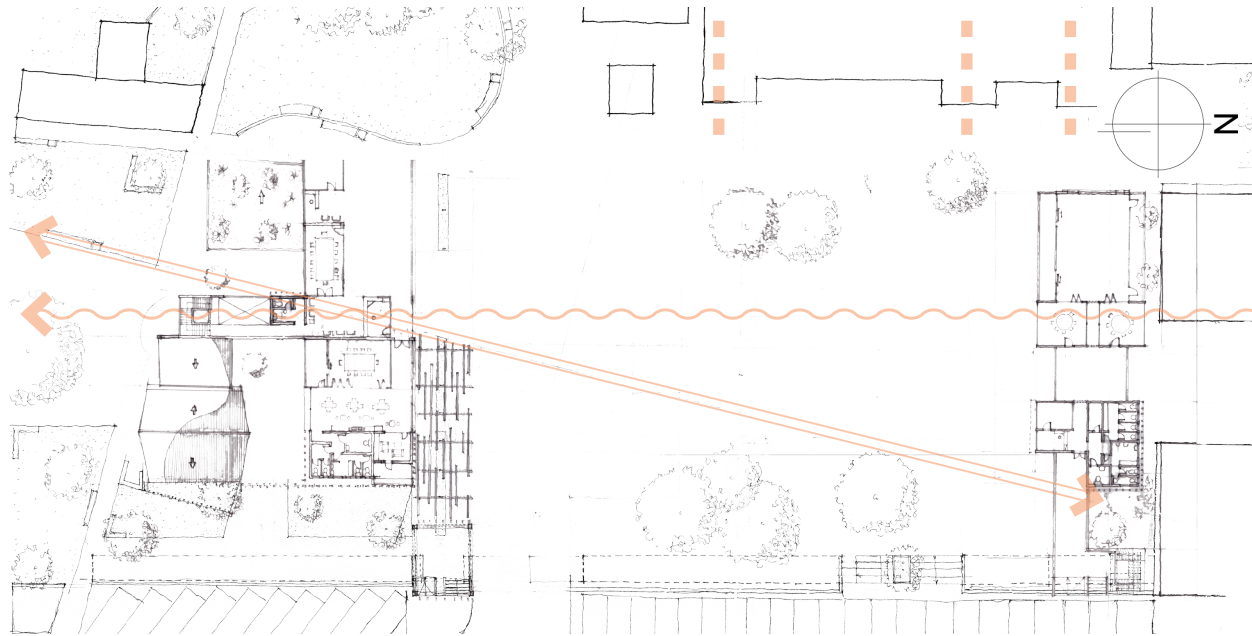
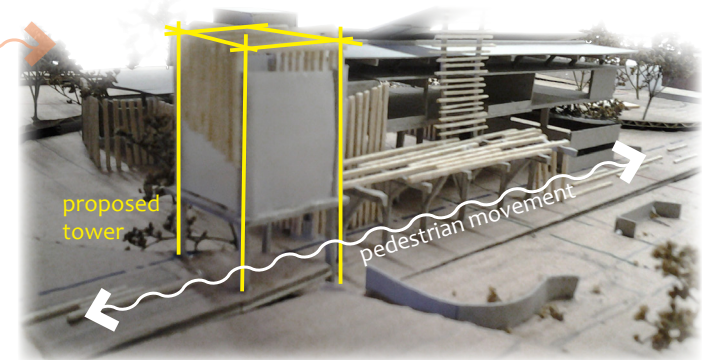
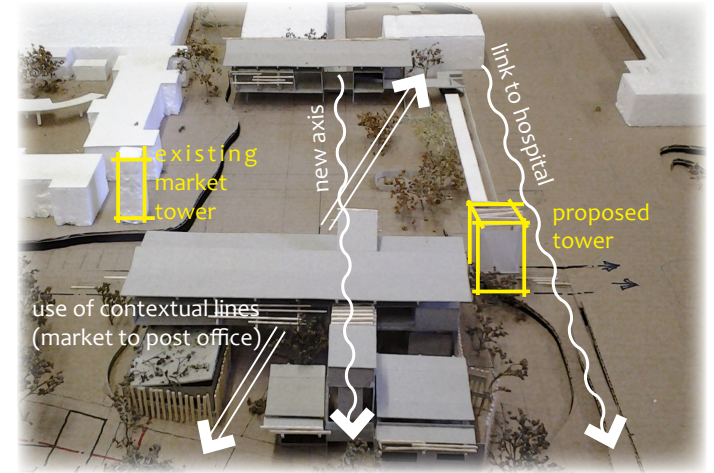
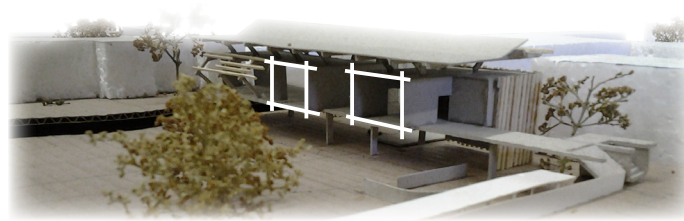
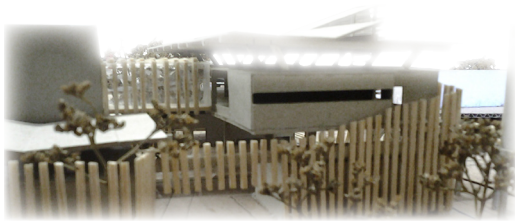
■ ■ ■ market rhythm

~~~~~ new axis from old town hall

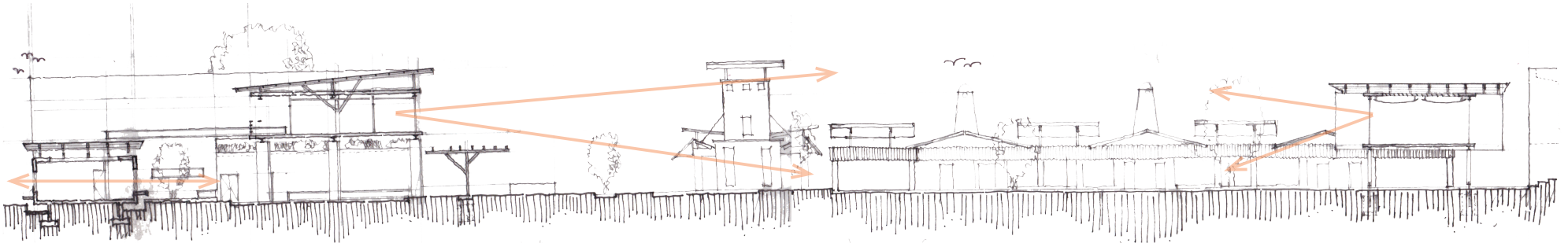
==== use of contextual lines (market to post office)



Ground floor plan



First floor plan



Longitudinal site section proposal

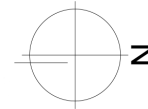
*Shift/Transformation of identity through spatial evolution.*

# Sketch development 6

■ ■ ■ market rythm

~~~~~ new axis from old town hall

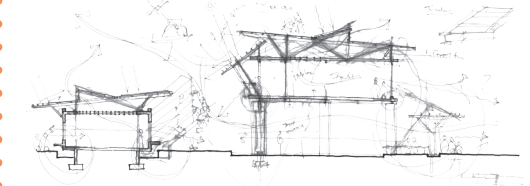
==== use of contextual lines



Ground floor plan



First floor plan



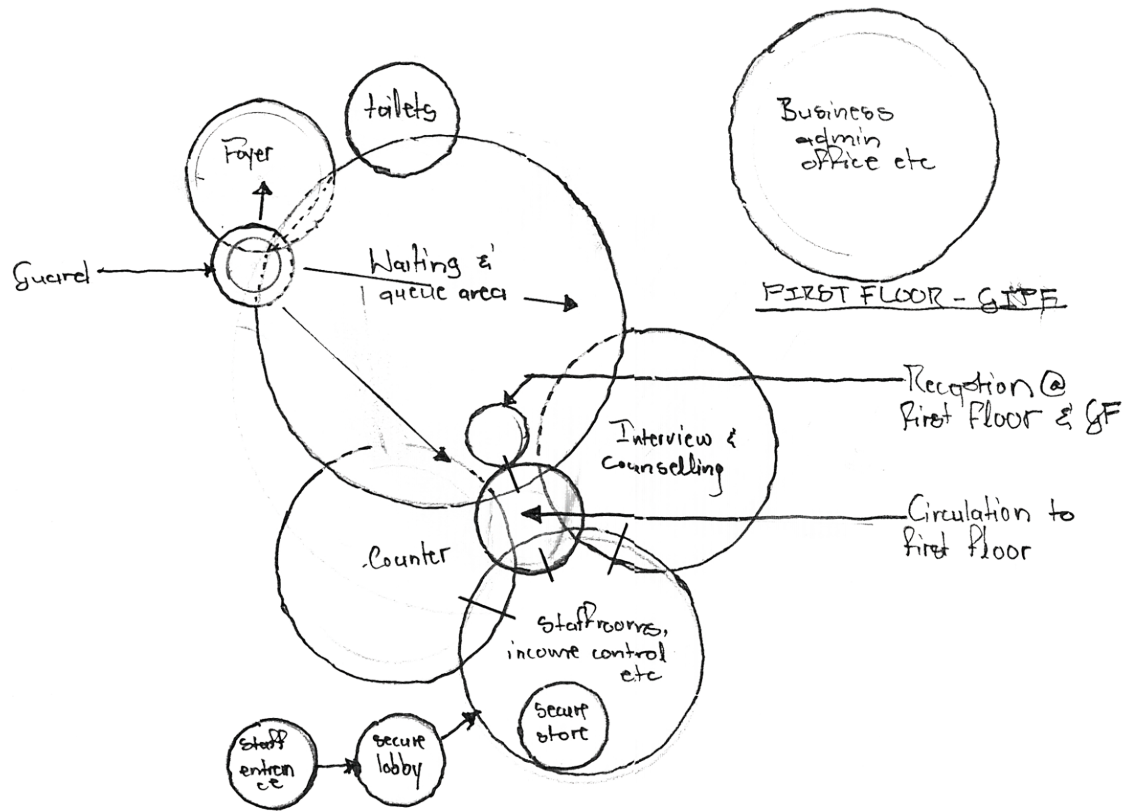
GIPF HQ section development

Aim:

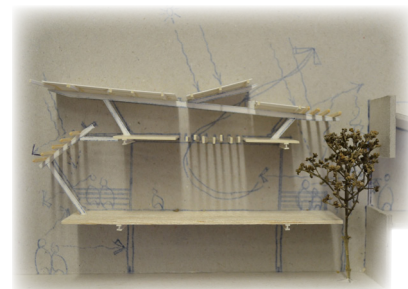
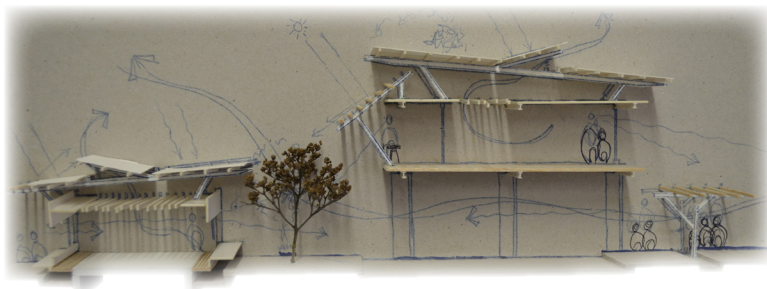
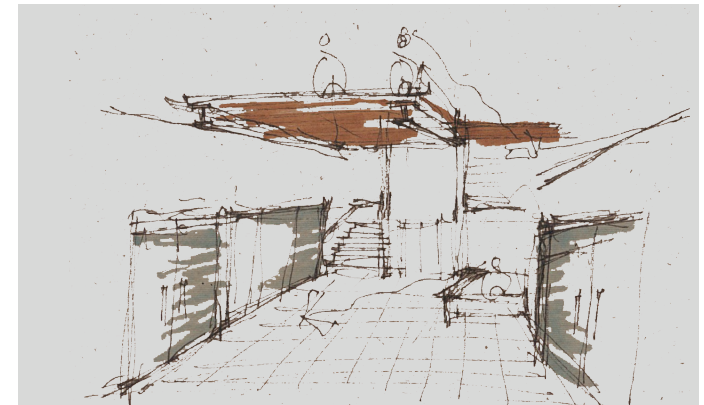
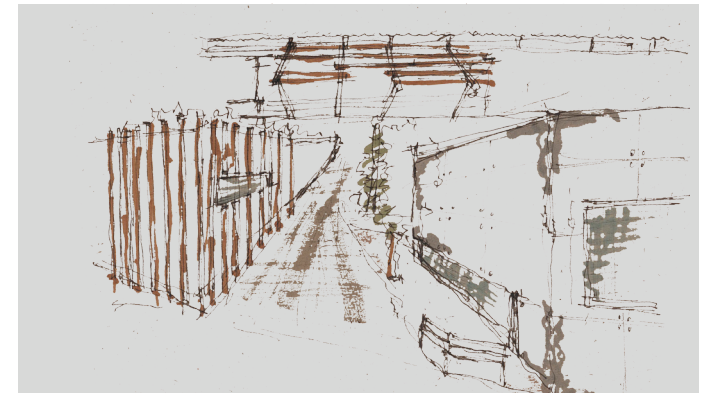
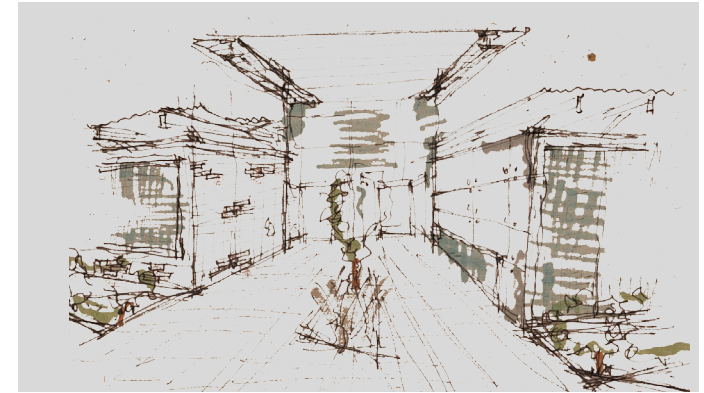
- - Consolidate required spaces to also have a functional approach
- - Modify roof elements for solar panel fixing and rainwater harvest
- - Lift the building as a response to flooding in the area

Point of departure:

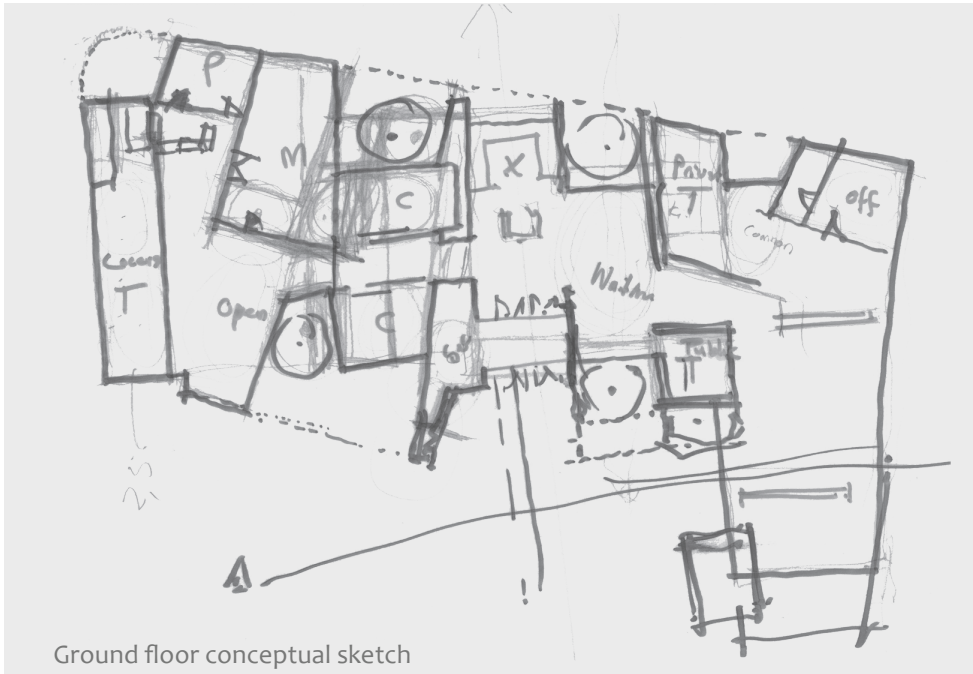
- - The consolidation begins to work, but loses the communal qualities achieved in previous development
- - Further investigation is required for the functional use of the building



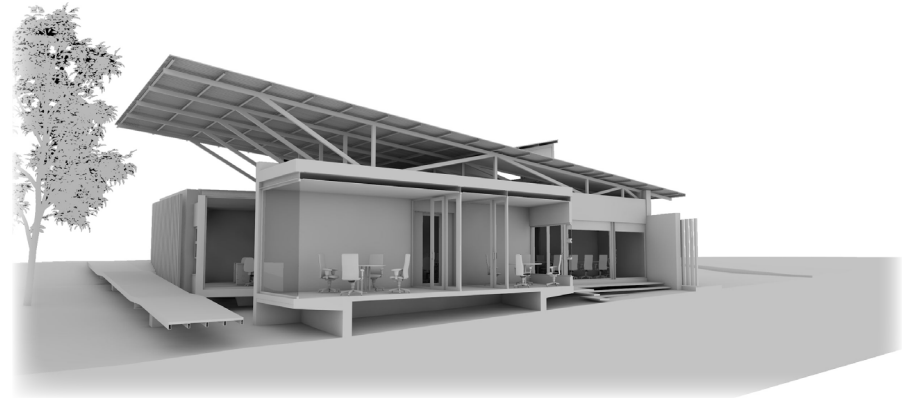
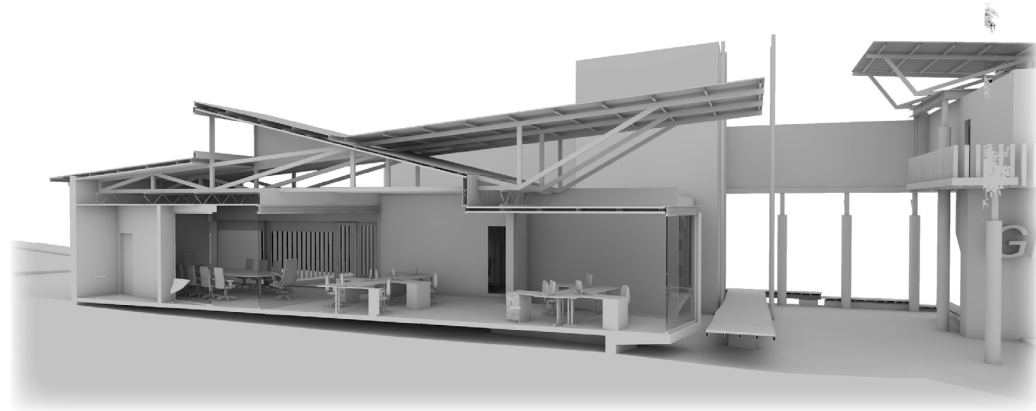
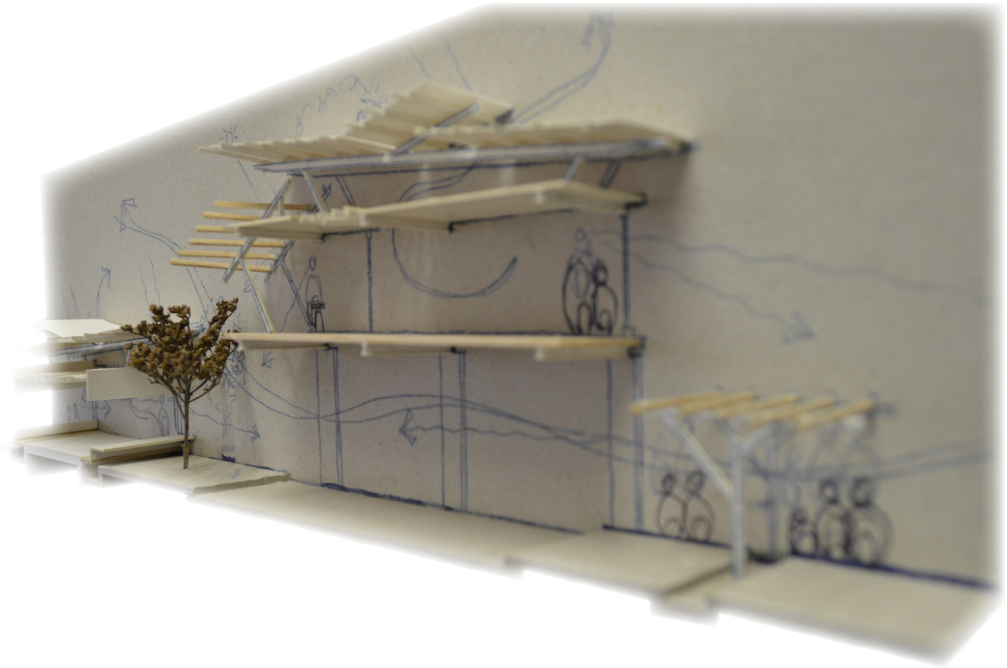
Proposed GIPF HQ diagram

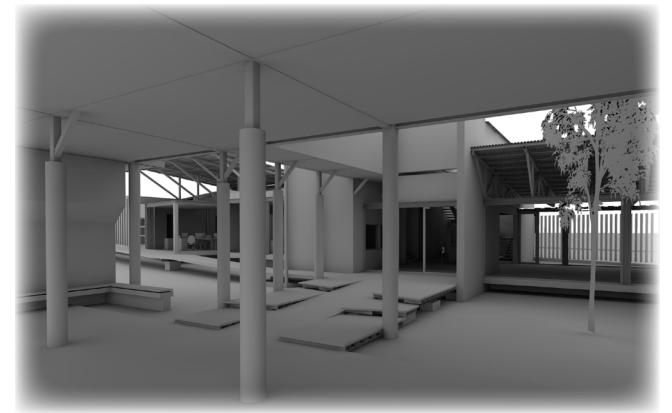
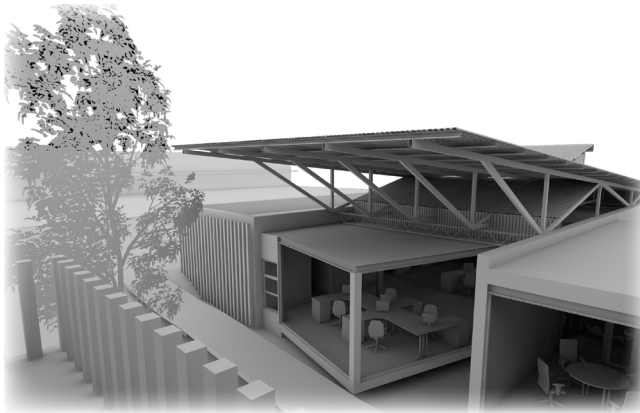
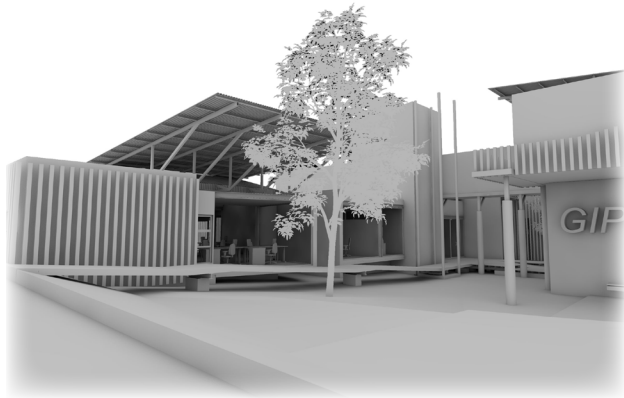
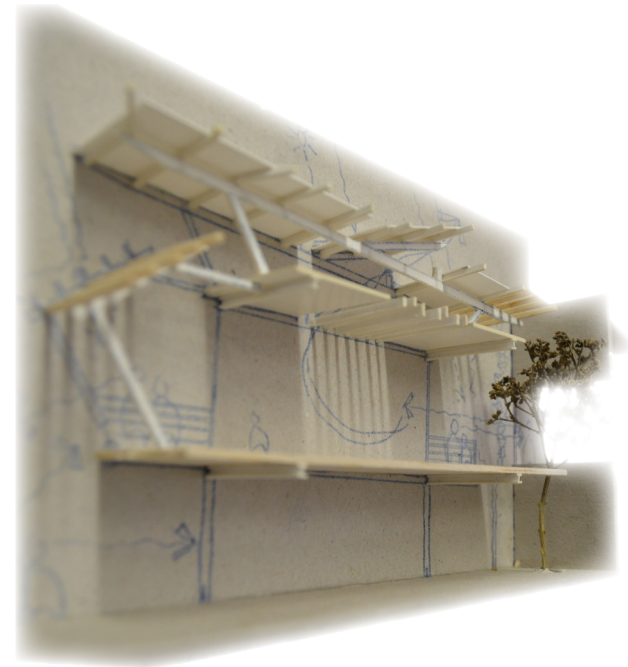


Shift/Transformation of identity through spatial evolution.



Ground floor conceptual sketch





Shift/Transformation of identity through spatial evolution.

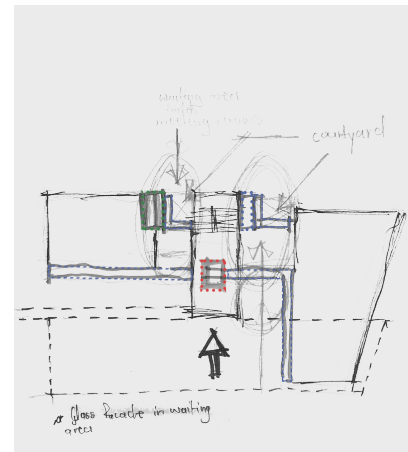
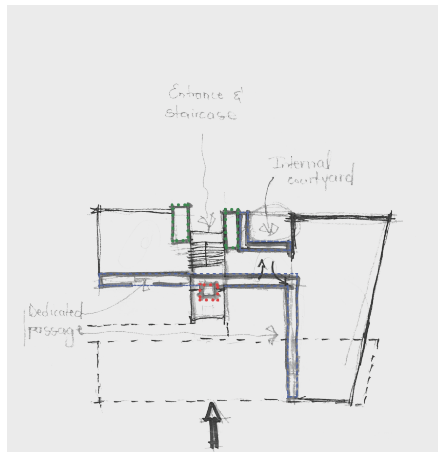
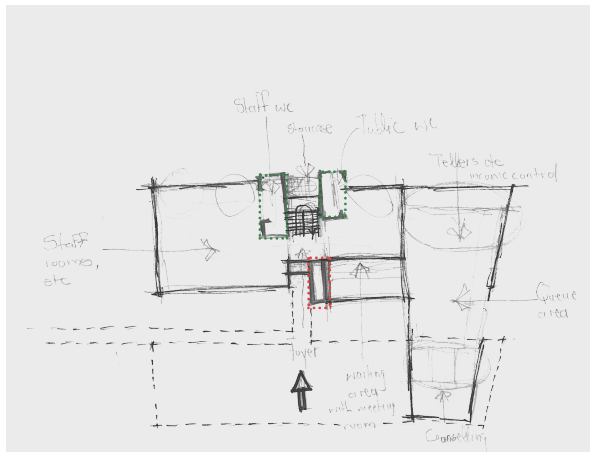
Sketch development 7

new axis from old town hall

use of contextual lines

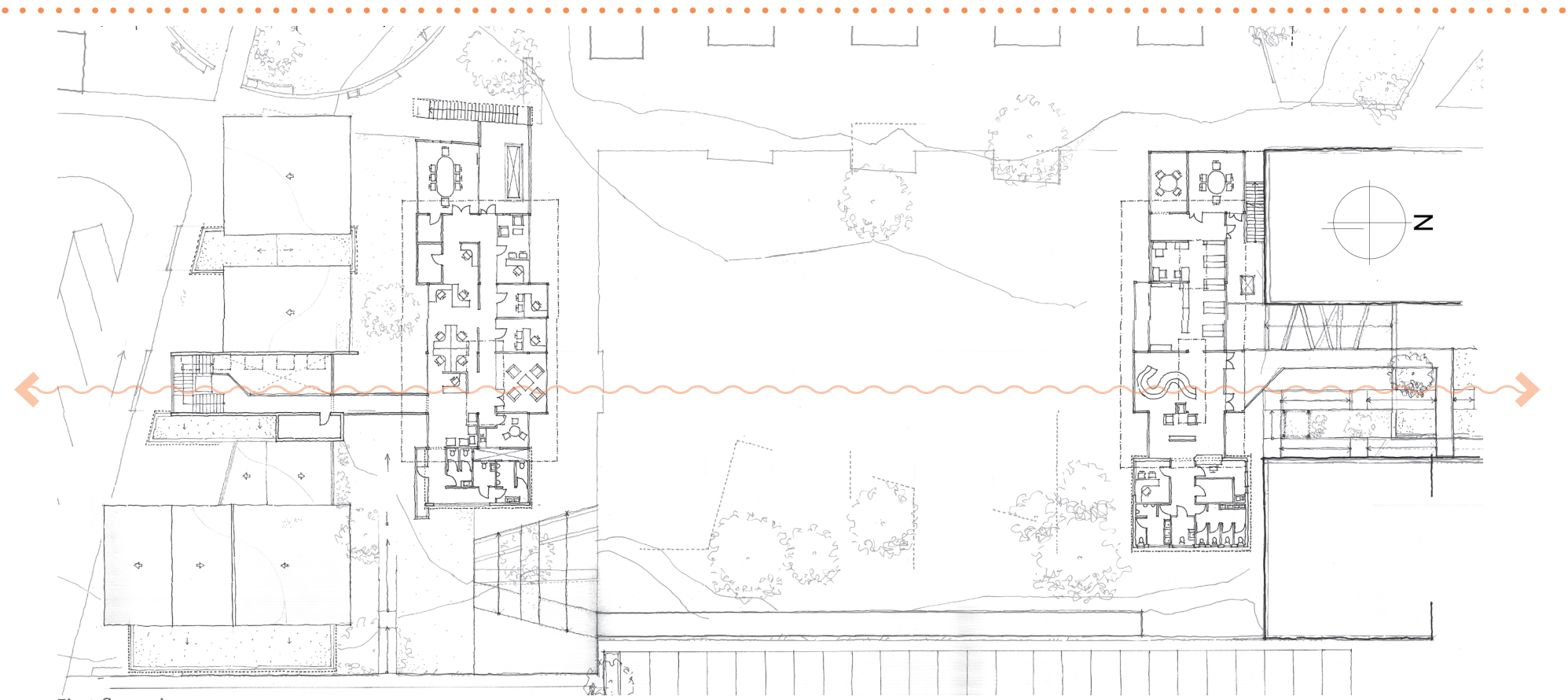
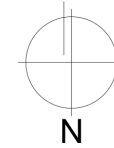


Ground floor plan



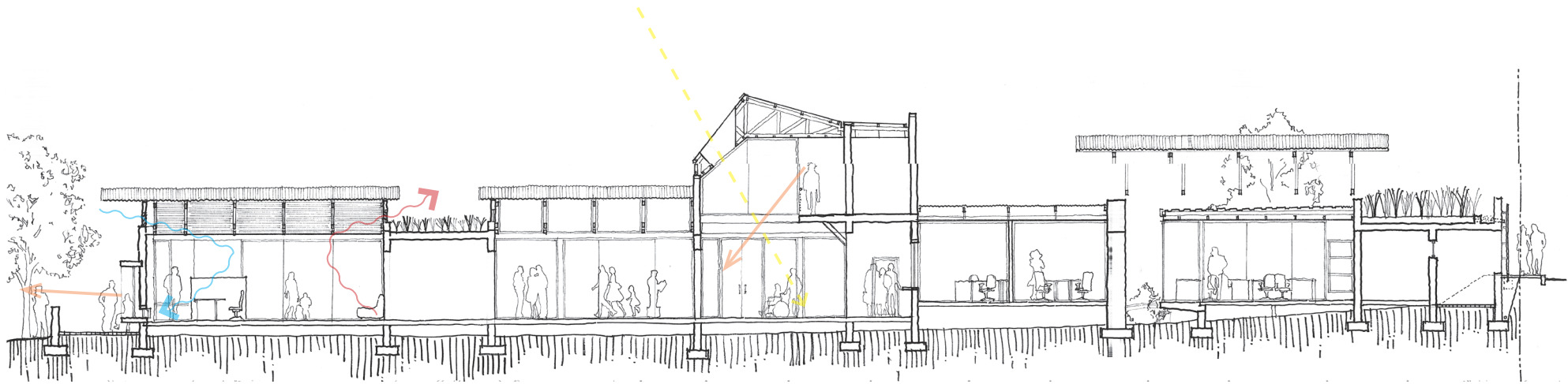
Allocation of services

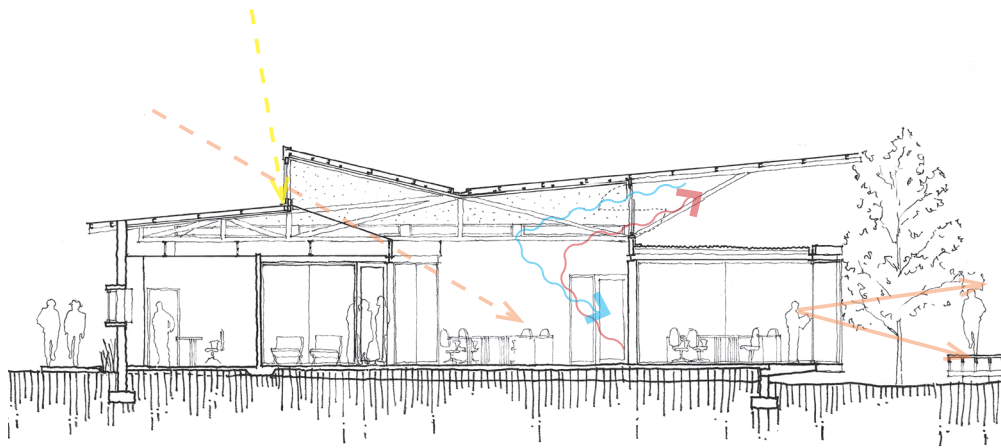
- Ablution block
- Circulation
- Tower element



First floor plan

Shift/Transformation of identity through spatial evolution.



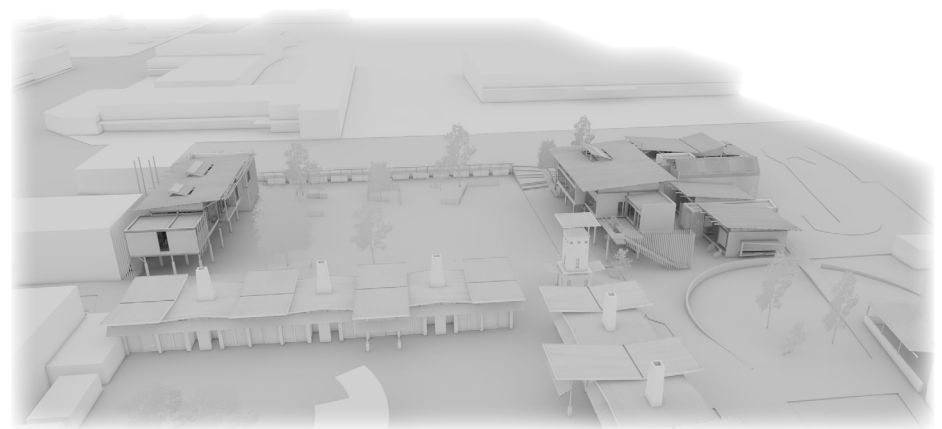


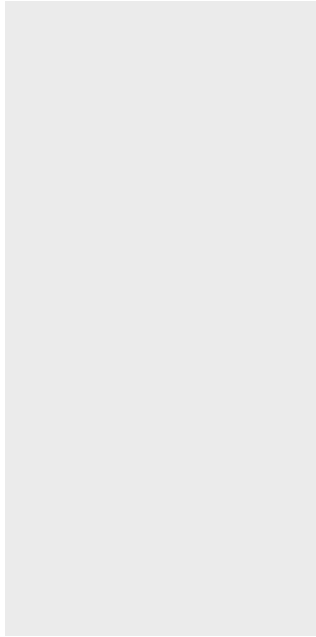
Aim:

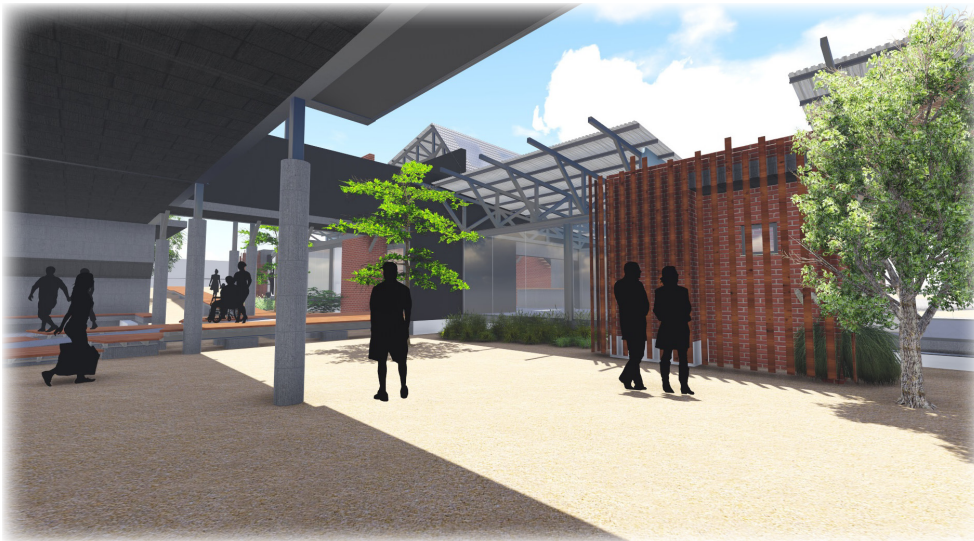
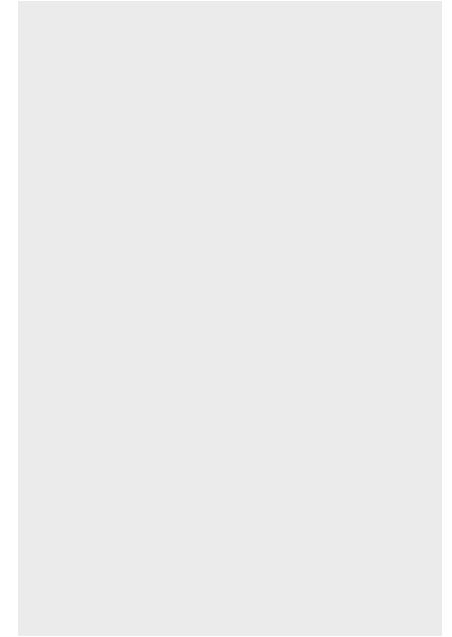
- Floating roofs to investigate possibility of double roof system
- Spatial volumes verification
- Investigation of natural lighting possibilities

Point of departure:

- Roof construction was problematic with regards to waterproofing and load bearing support
- Final morphological composition is still not fully intergrated, especially the central circulation core

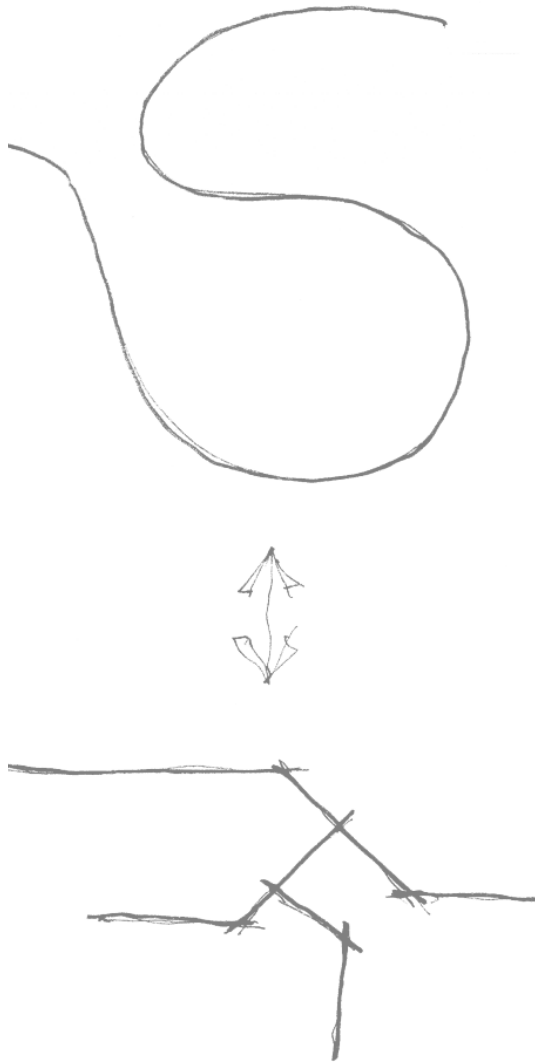




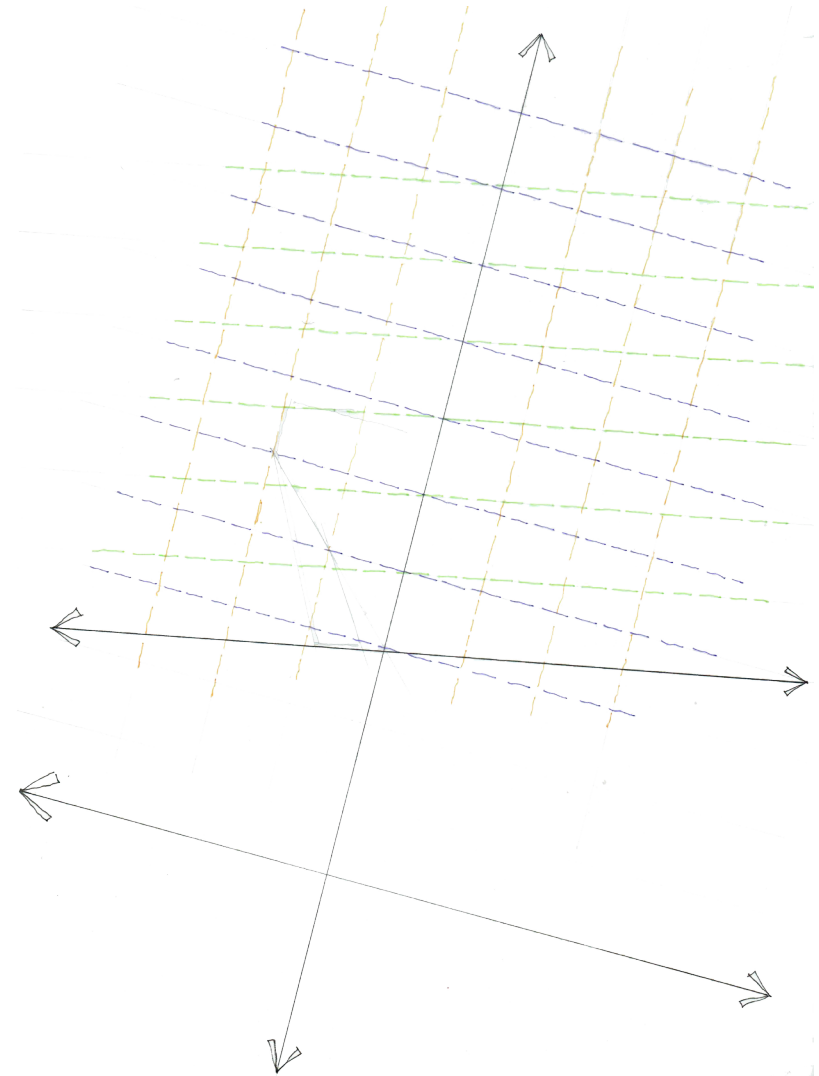


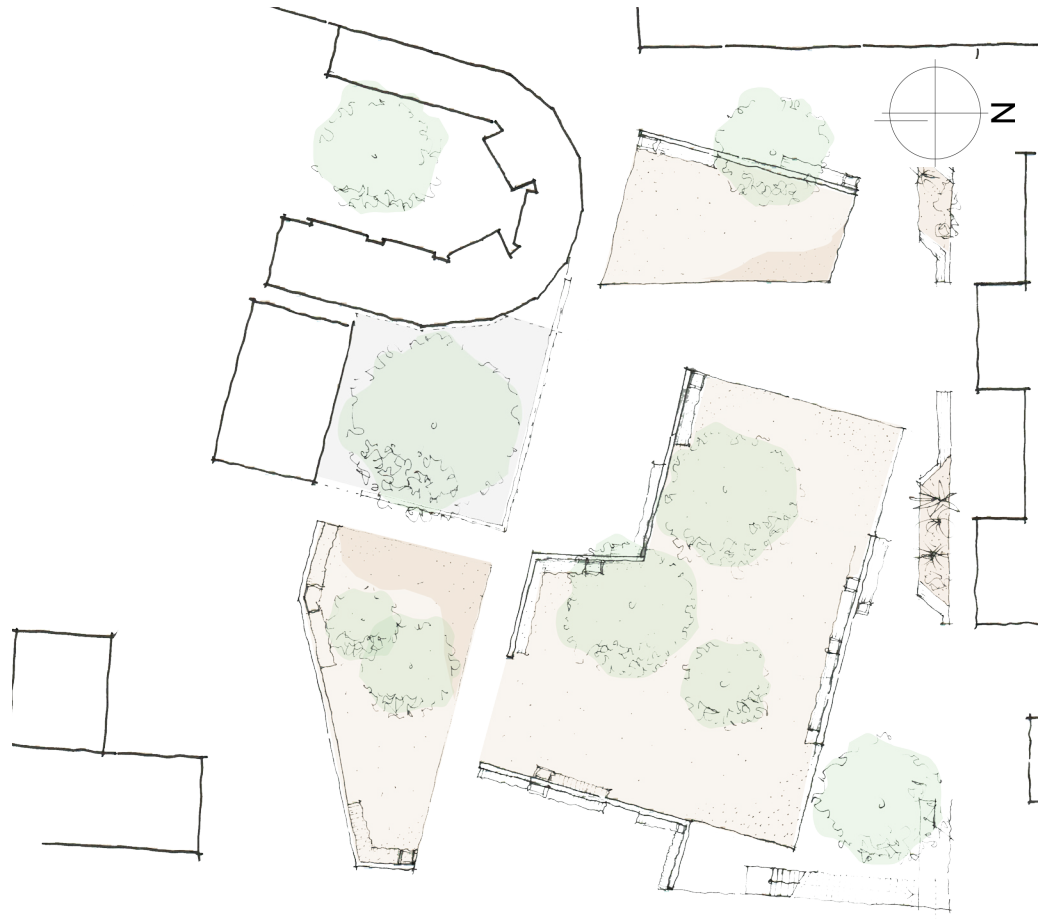
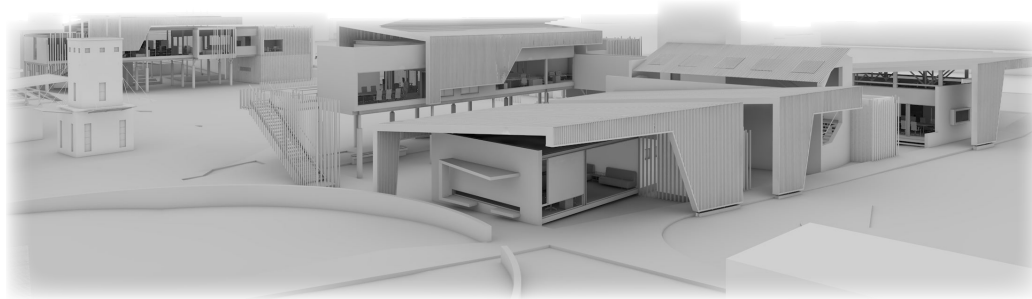
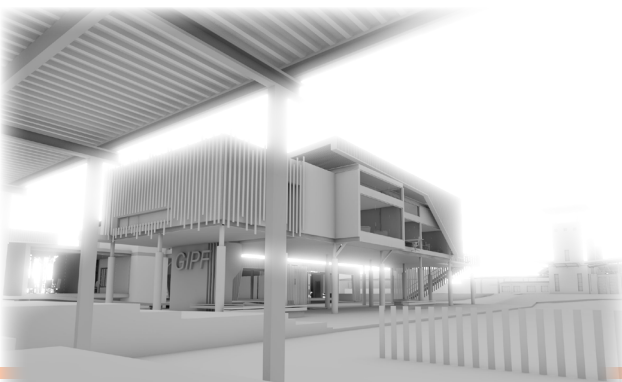
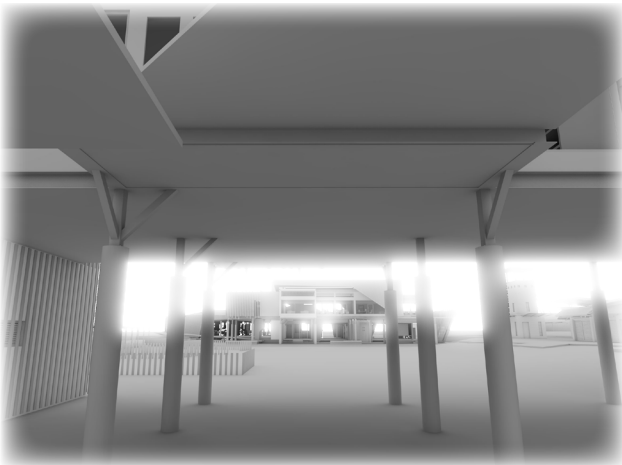
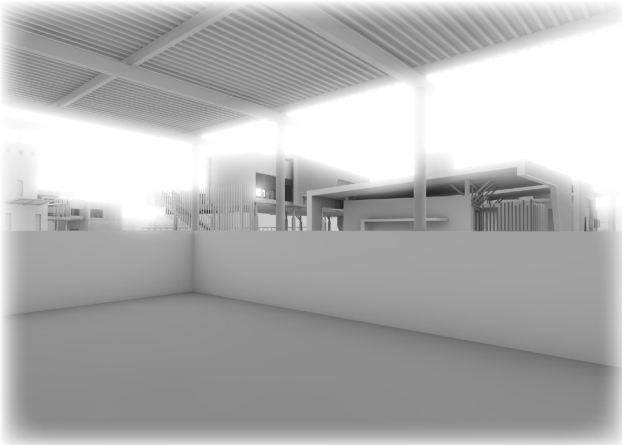
Shift/Transformation of identity through spatial evolution.

Urban precinct



- Aim:
- - Design of a modular system that can be used throughout the entire town using the market as the catalyst. (right)
- Point of departure:
- - Initial proposal used the conceptual idea of the organic homestead as generator for the urban precinct design (left)
- - A more relevant contextual approach was necessary (right)





Shift/Transformation of identity through spatial evolution.



Proposed urban design



Existing alleyway from Hage Geingob str to the market



Existing parking north of market



Proposed relocation of parking to allow for green space between proposed building and market

The final urban proposal aimed at reigniting the public spaces around the town.

The development of the side walks and alleys livened up the entrance into the market square and also anchored the proposed design into its's context.

Further emphasis was put on the connection of outside to inside spaces, the transition between these was softened through the use of thresholds and openings within the building solidity, allowing for light penetration onto the spaces at the entrances of the buildings.



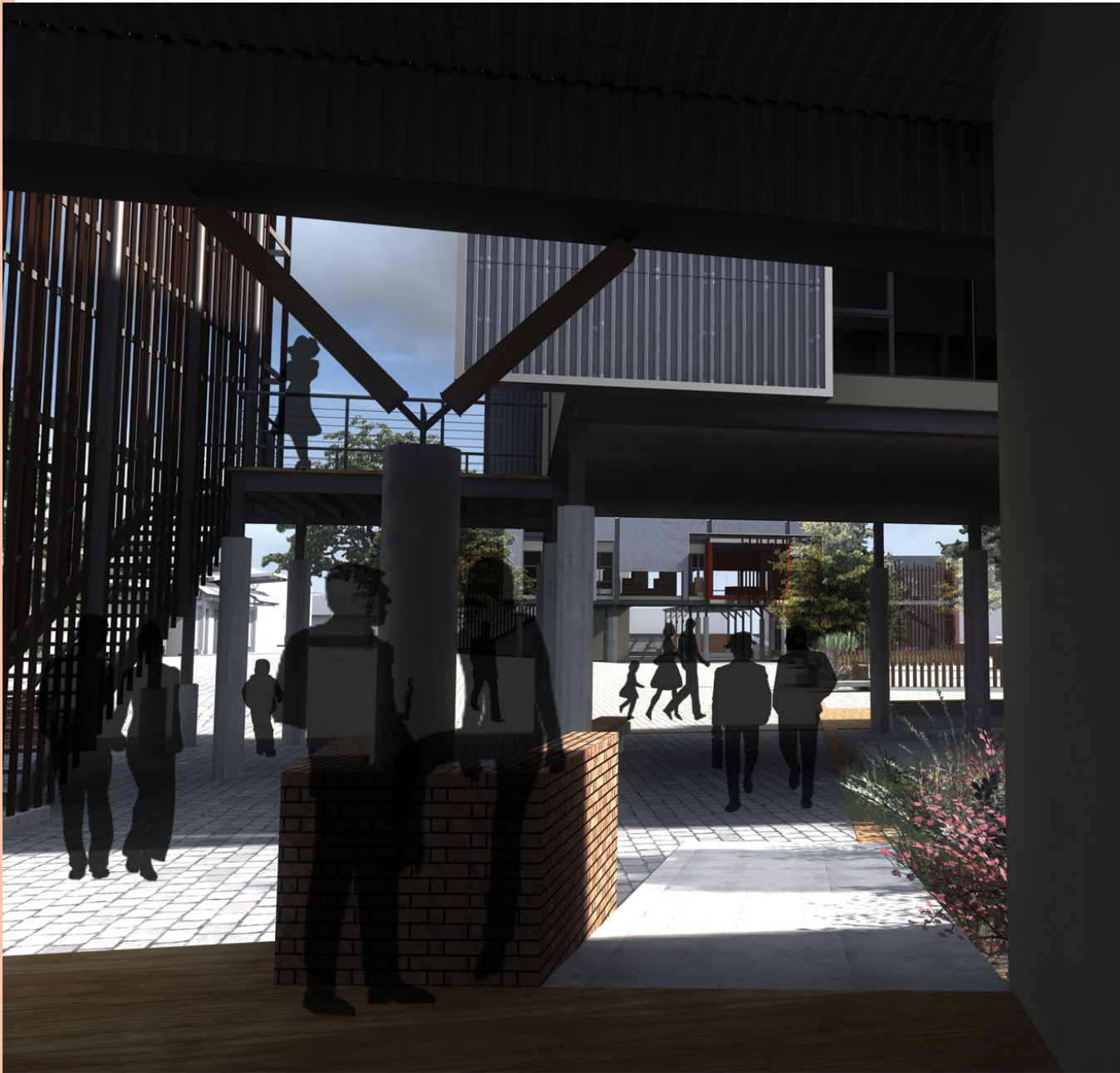
View from inside the workspace area to market square



Proposed library entrance



Design proposal from Hospital Rd



View from GIPF entrance to market square



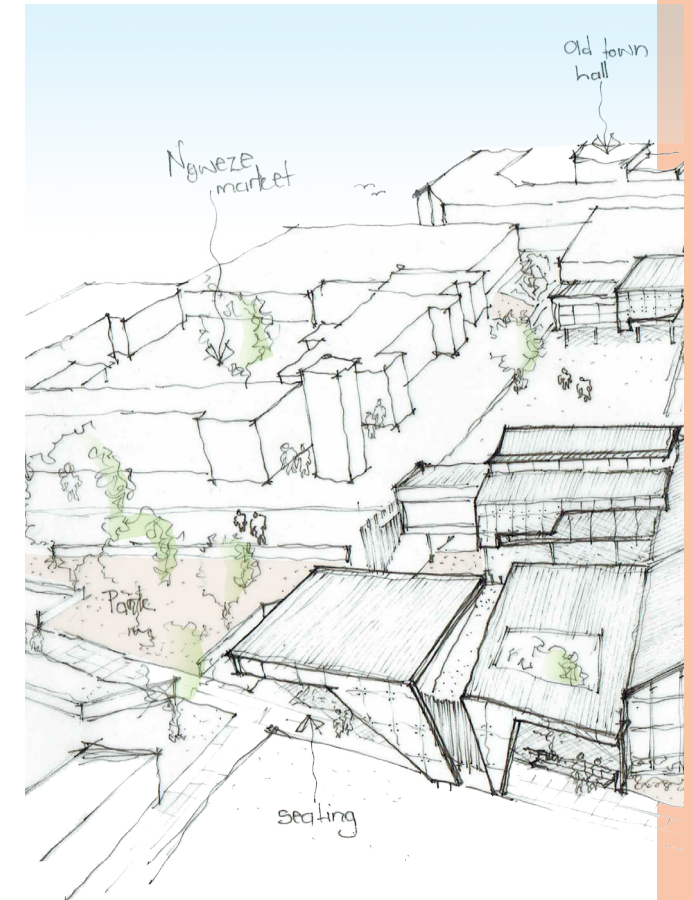
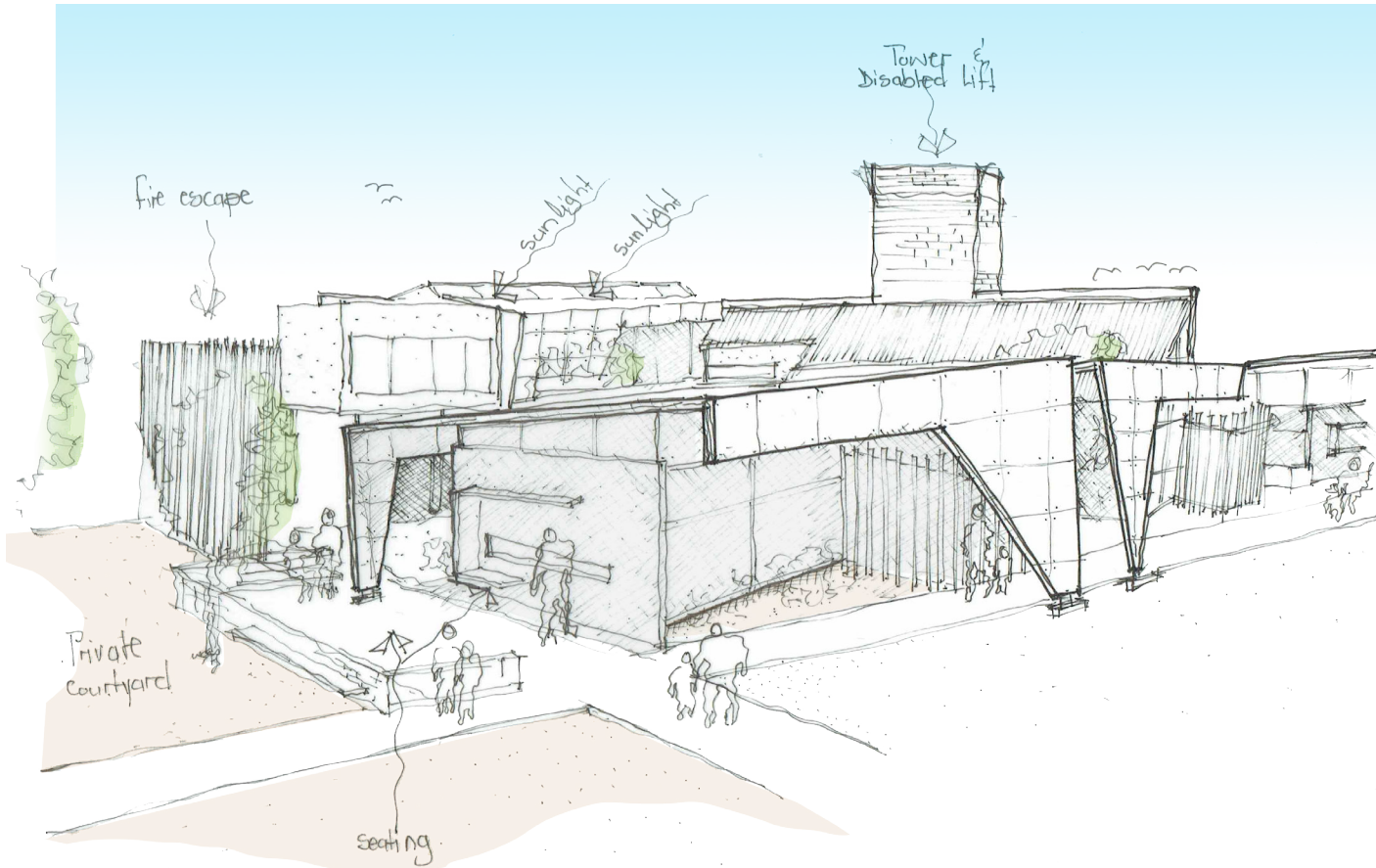
View from green space to market square

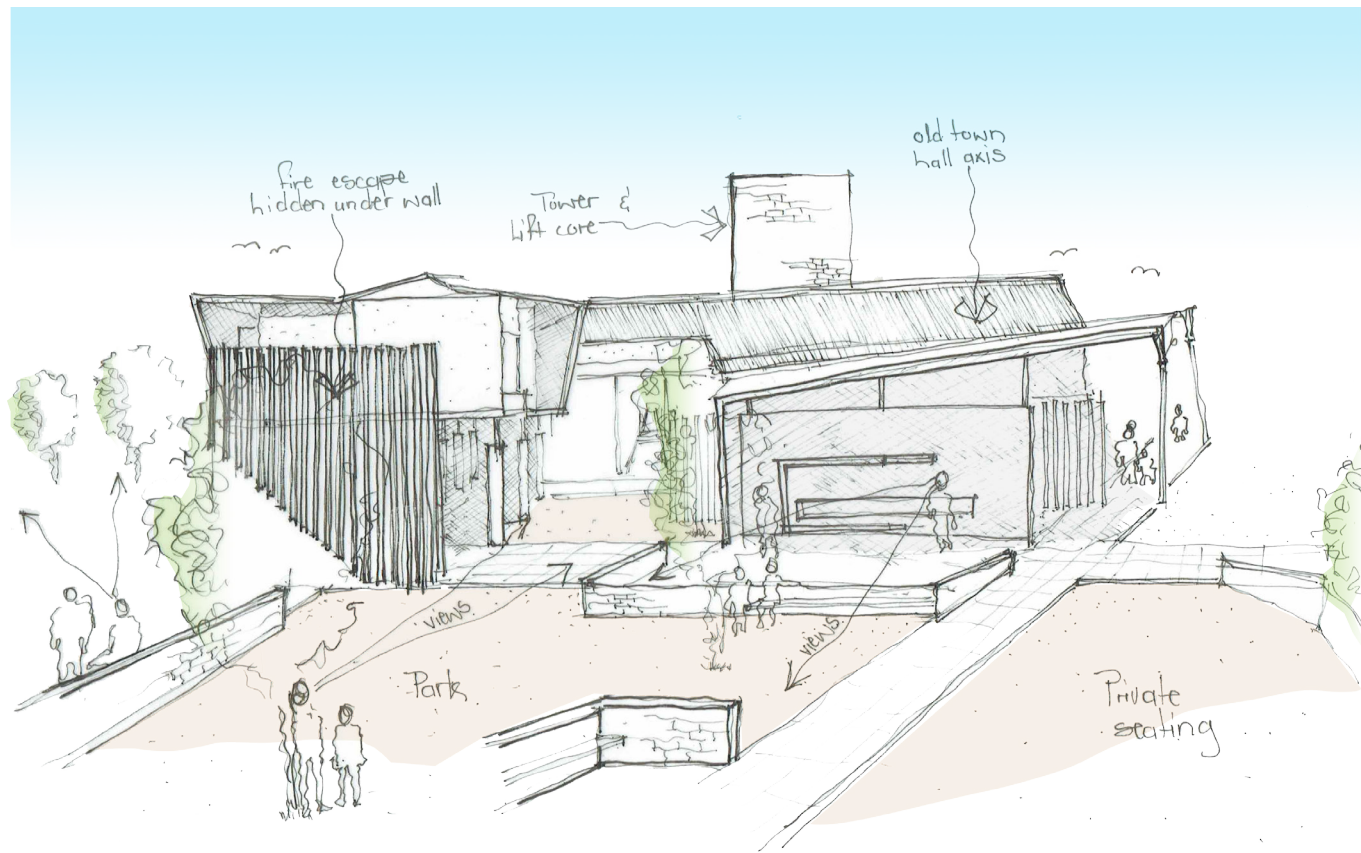


View from alley way over looking market square

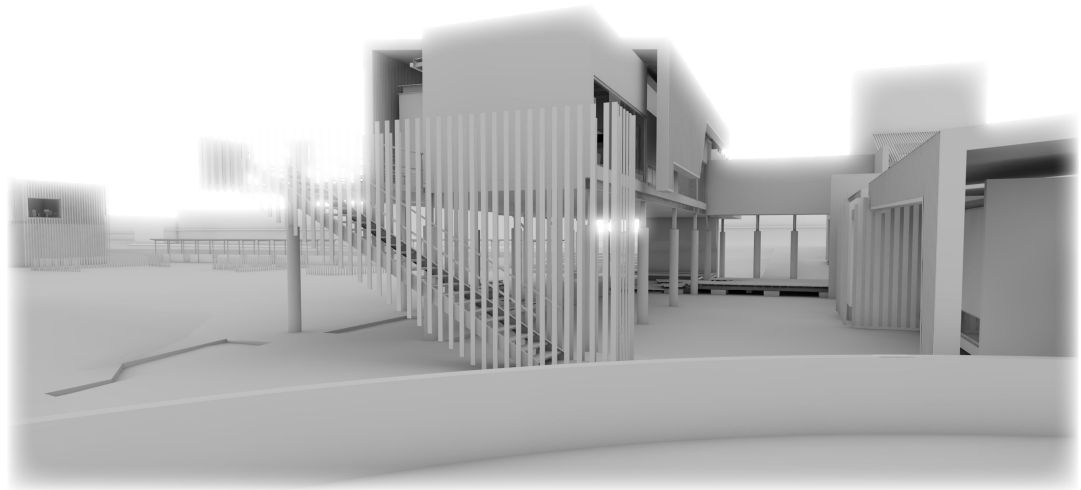
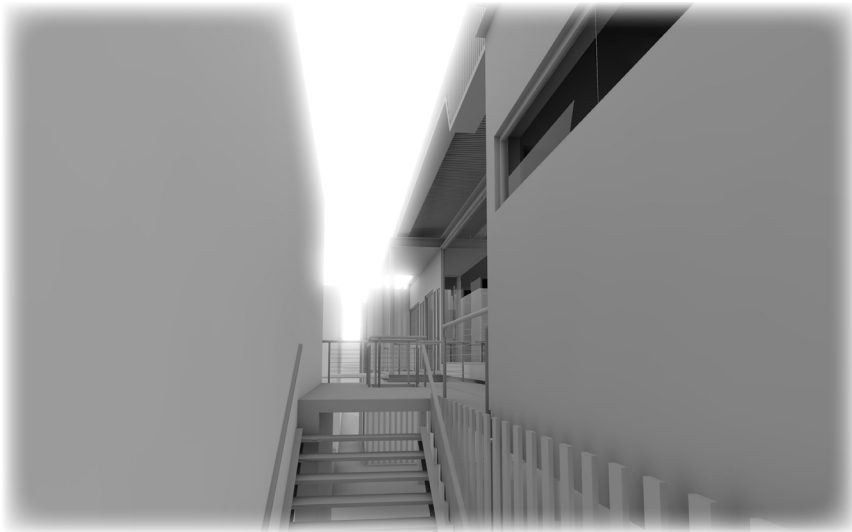
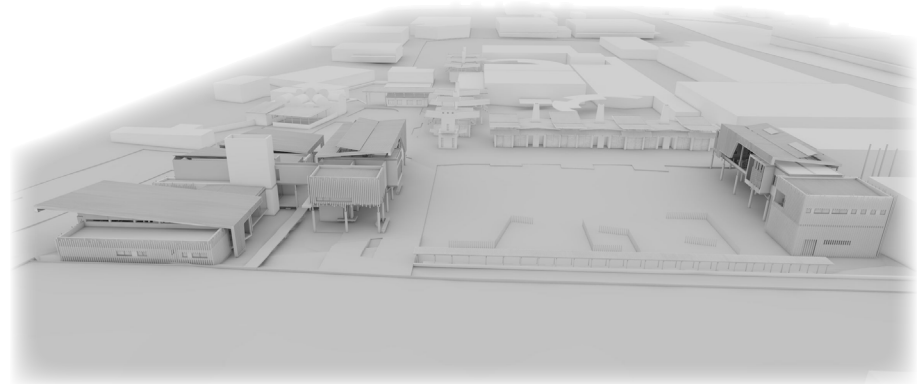
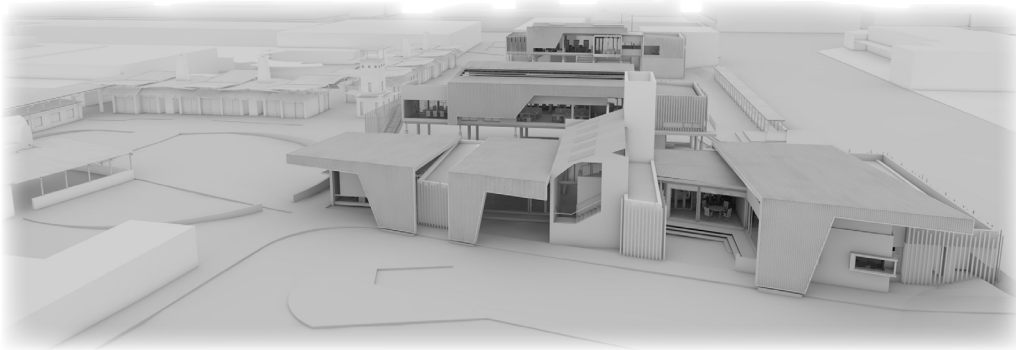
Shift/Transformation of identity through spatial evolution.

Architectural proposal





Shift/Transformation of identity through spatial evolution.



Aim:

- Provide a purely functional approach that supplements the conceptual ideas
- Incorporate the urban design with the design for a grounded proposal
- Design the roof as a combination of the typical hut and contemporary hut

Point of departure:

- Functional spatial relationship was solved but the urban integration was compromised
- Provide urban intervention underneath the office block to invite and lead the user to the entrance
- Public toilet location to be investigated and perhaps moved to a better
- Because the entrance moved and is now in the background, the new tower must be clearly visible from Hospital Road as well as Hage Geringob Street
- Parking layout must be altered for better circulation in and out of parking layout





Ground floor plan

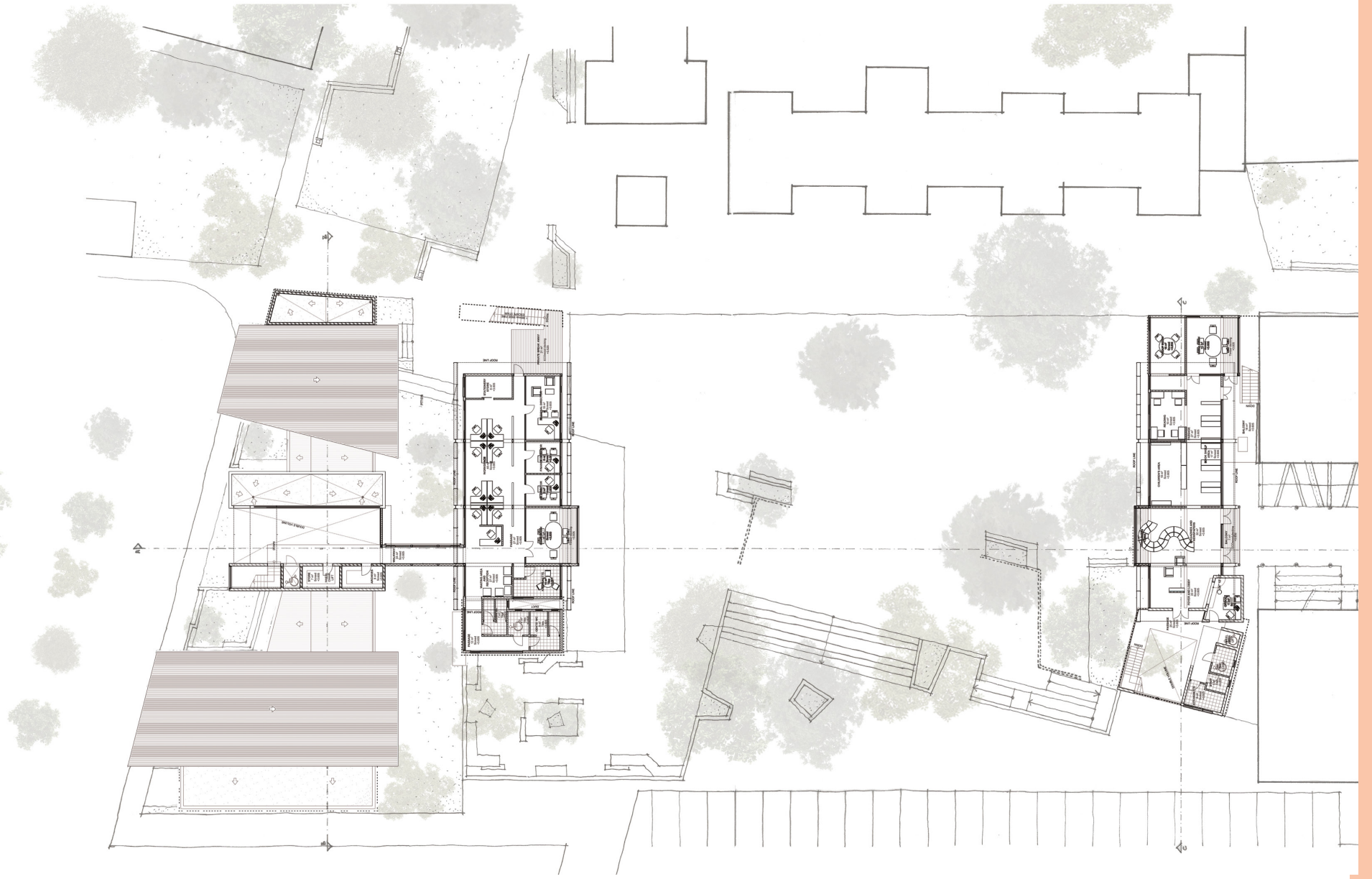


Ground floor analysis and building location

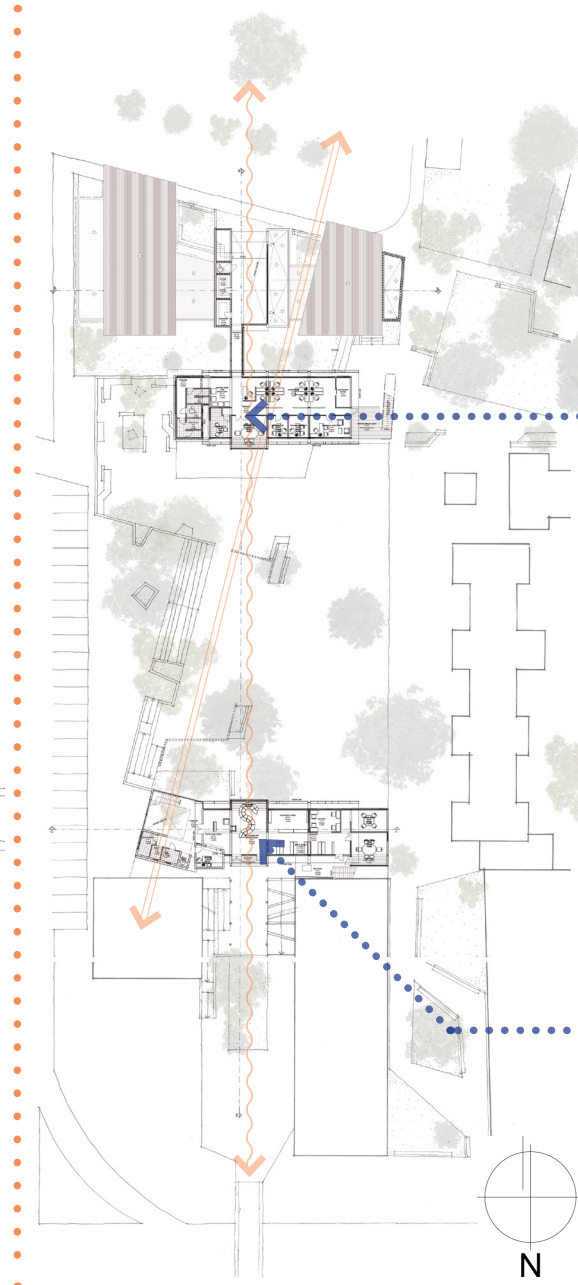
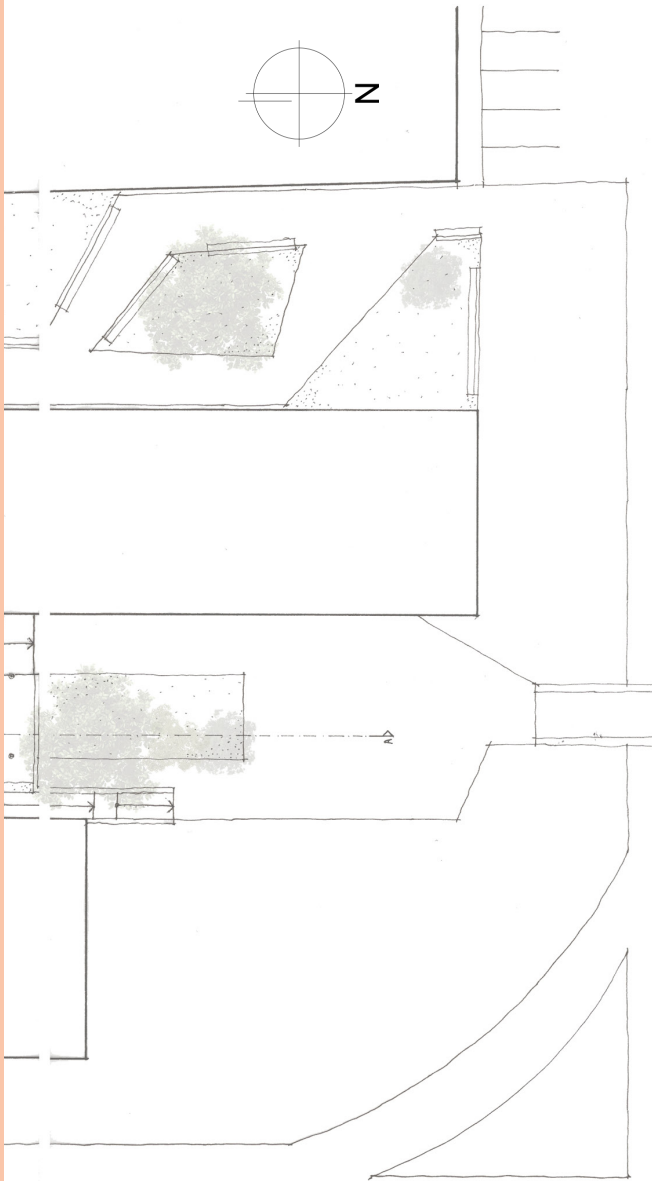
ordering lines of existing as **guideline**

- — — — market rythm
- use of contextual lines (market to post office)







First floor plan



First floor analysis and building location

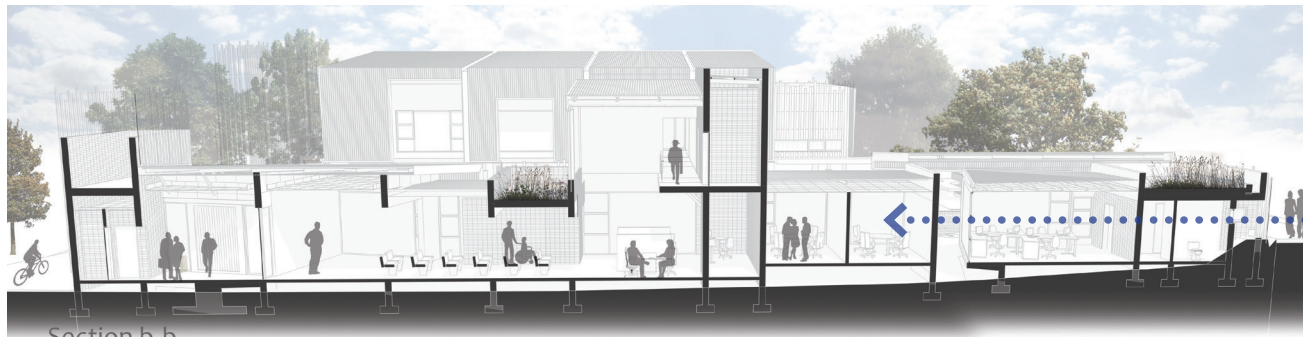


ordering lines of existing as **guideline**

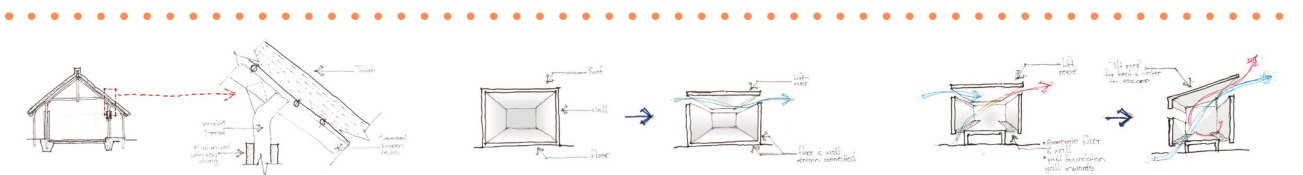
-  new axis
-  use of contextual lines (market to post office)



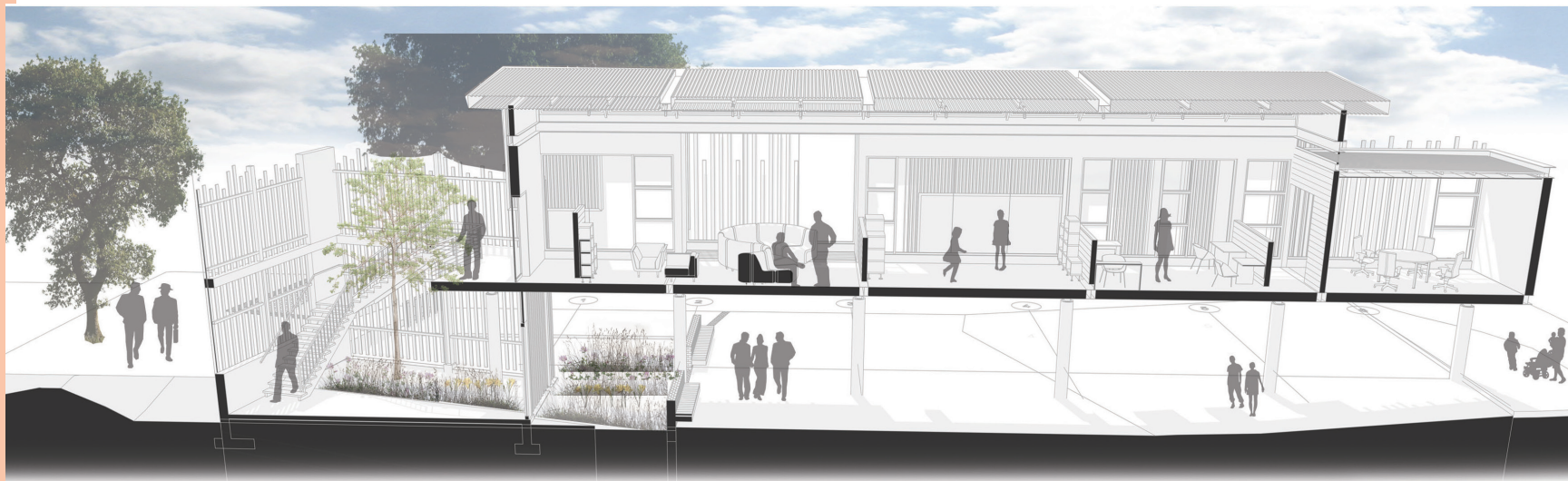
Section a-a



Section b-b



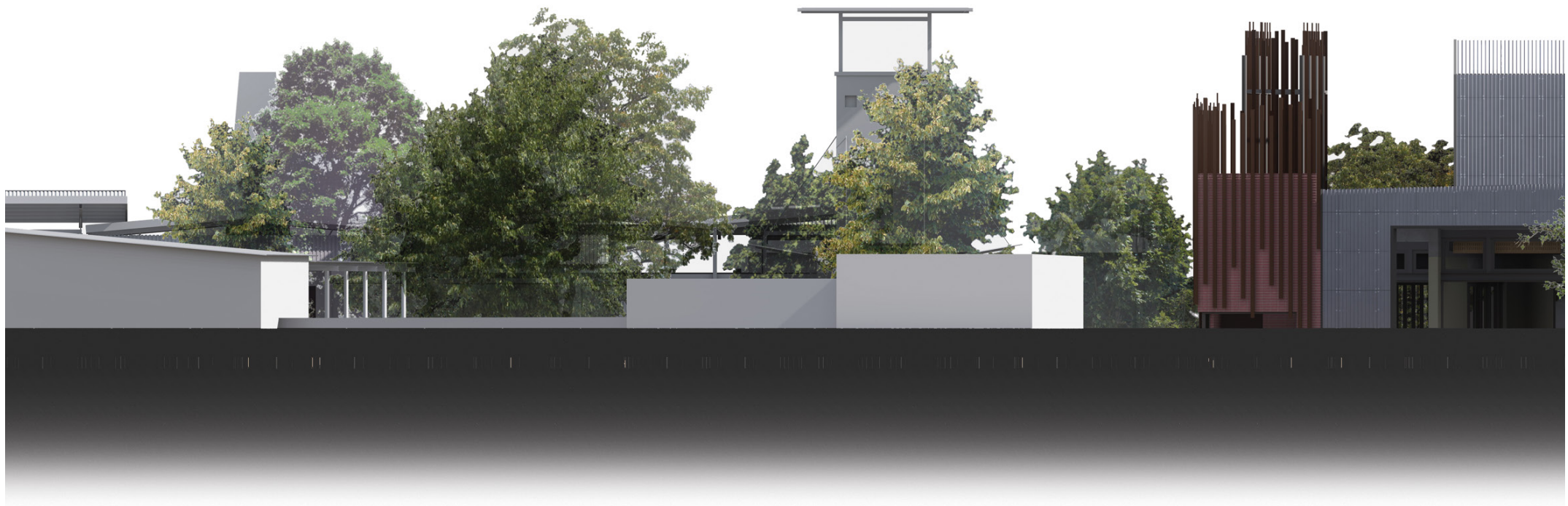
Looking out from the meeting room into the square



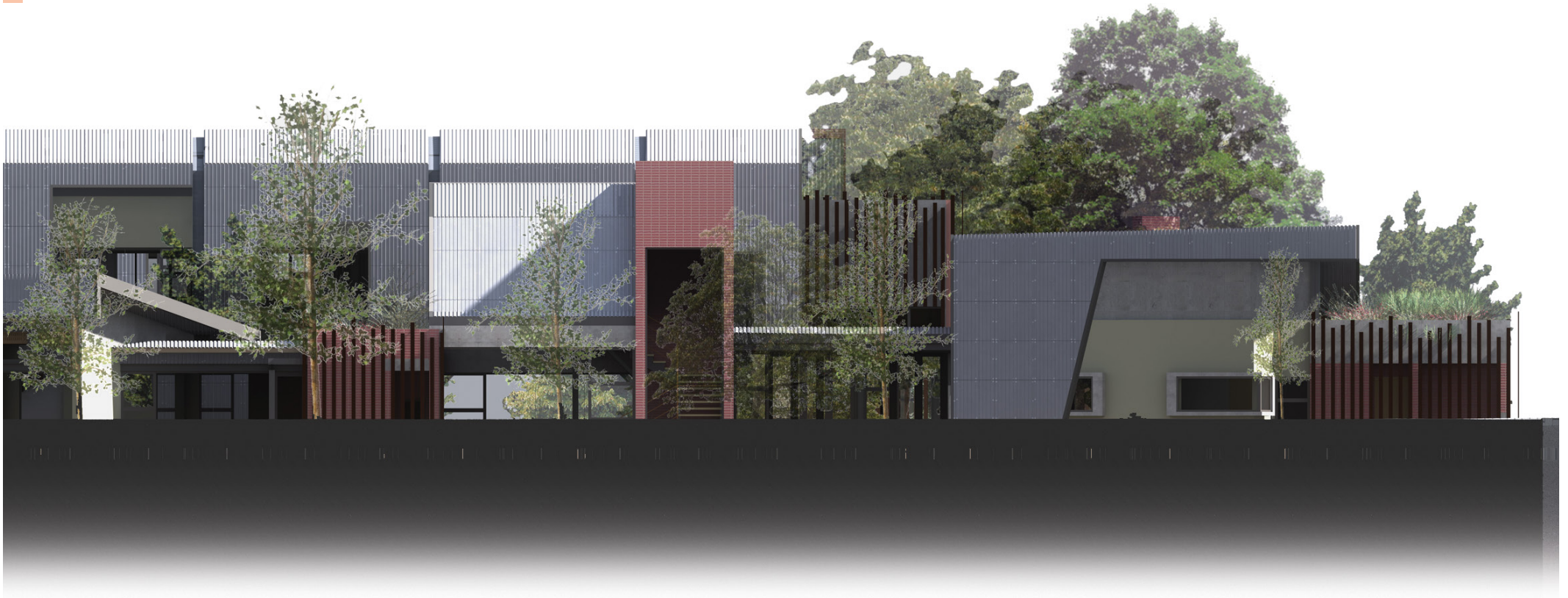
Section c-c

The connection of the exterior and interior was done to create comfortable spaces so the lowered scale of the proposal would not feel forced onto the occupants.

Shift/Transformation of identity through spatial evolution.



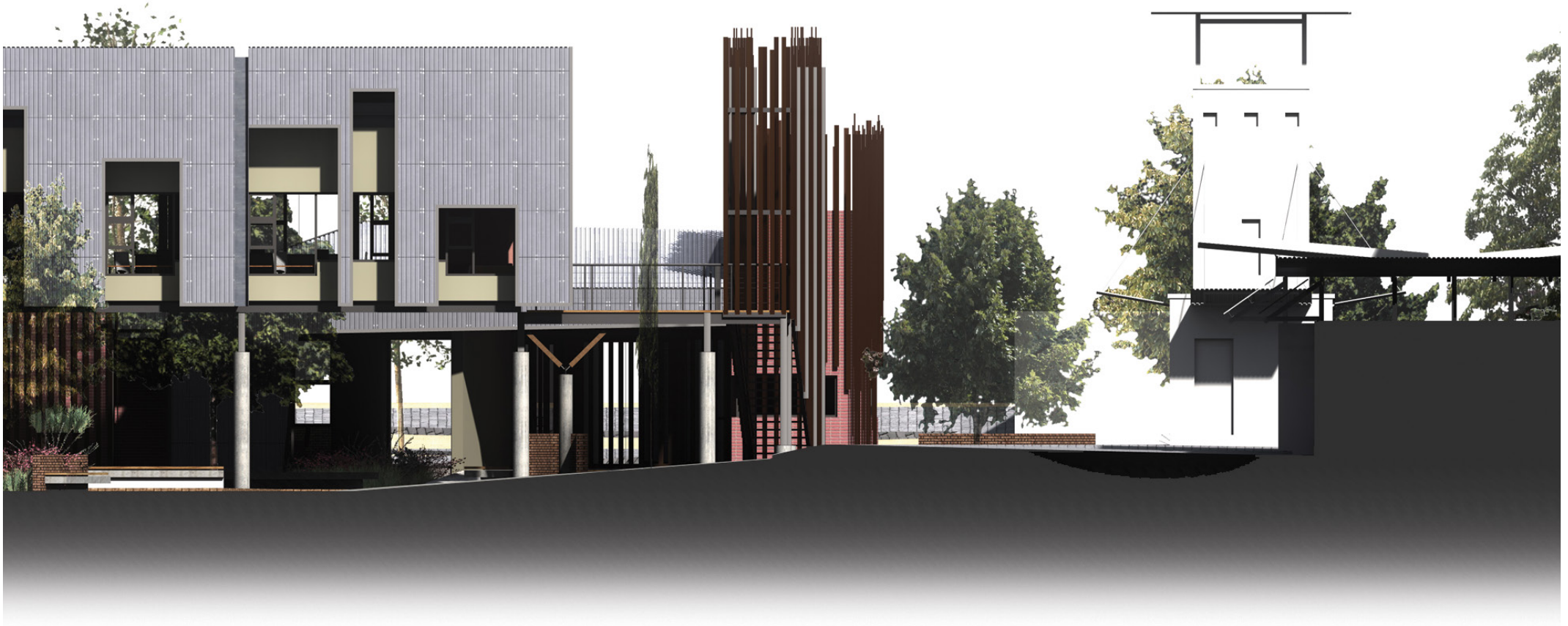
GIPF North Elevation



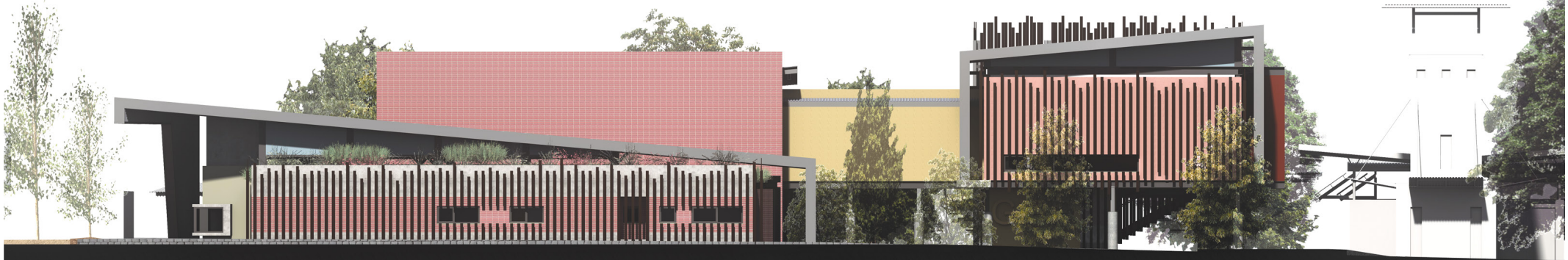
Shift/Transformation of identity through spatial evolution.



GIPF South Elevation



Shift/Transformation of identity through spatial evolution.



West Elevation



GIPF HQ from market entrance platform



Library North Elevation

Shift/Transformation of identity through spatial evolution.

2. TECTONIC DEVELOPMENT

The structural resolution must effectively begin a dialogue using an architectural language that will relate to the rural typology that is mostly familiar with the user-client. As stated above, the approach was resolved to have more stereotomic archetype that was found in and around the private areas of the building while the tectonic elements placed in the more public.

The effect of the site investigations resulted in a layout organisation around courtyard spaces that mimicked the typical rural homestead with its pockets of communal spaces between the village houses. This organisation allowed for use of air currents that developed to assist with the thermal control of the building. In addition to this, the roof was modified by the climatic conditions and resulted in the main structures being able to shed the rainwater so as to minimise the possibility of water penetration into the building as well and also allow sunlight into the interior spaces.

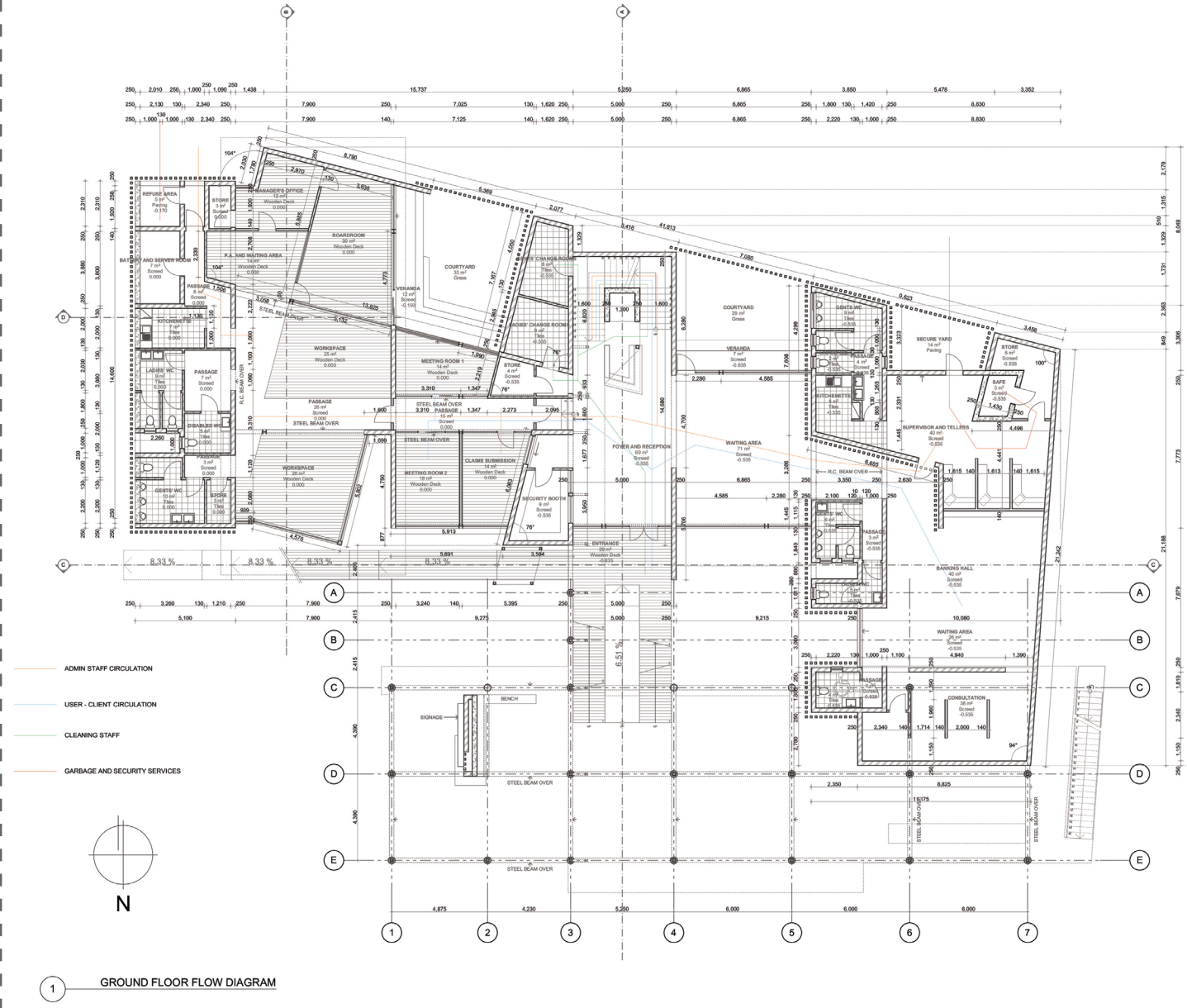
The structural grid designed for first floor support was done in accordance with the urban influences that dictated that certain paths and walkways be emphasised and be highlighted. The columns were used to continue the paths and walkways of the urban landscape into the building and the new 'green yard', further rooting the design into its context using the structure and not only the conceptual underpinning.

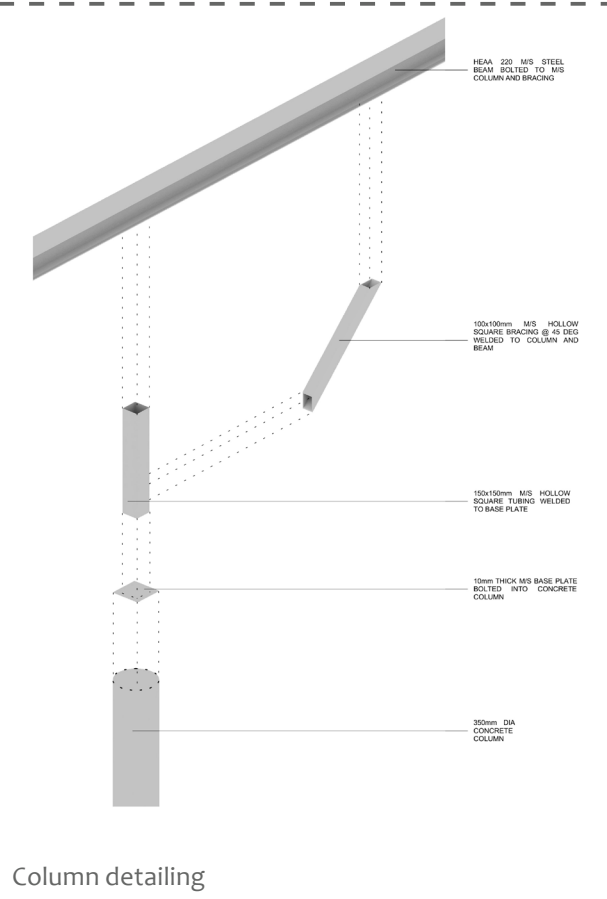
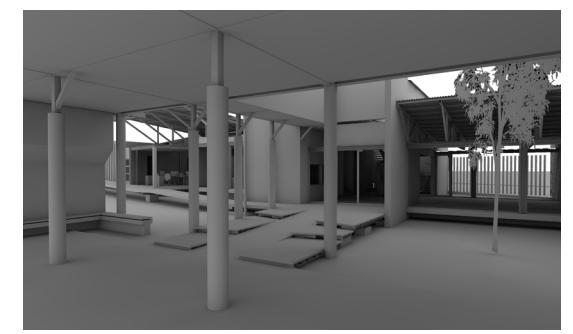
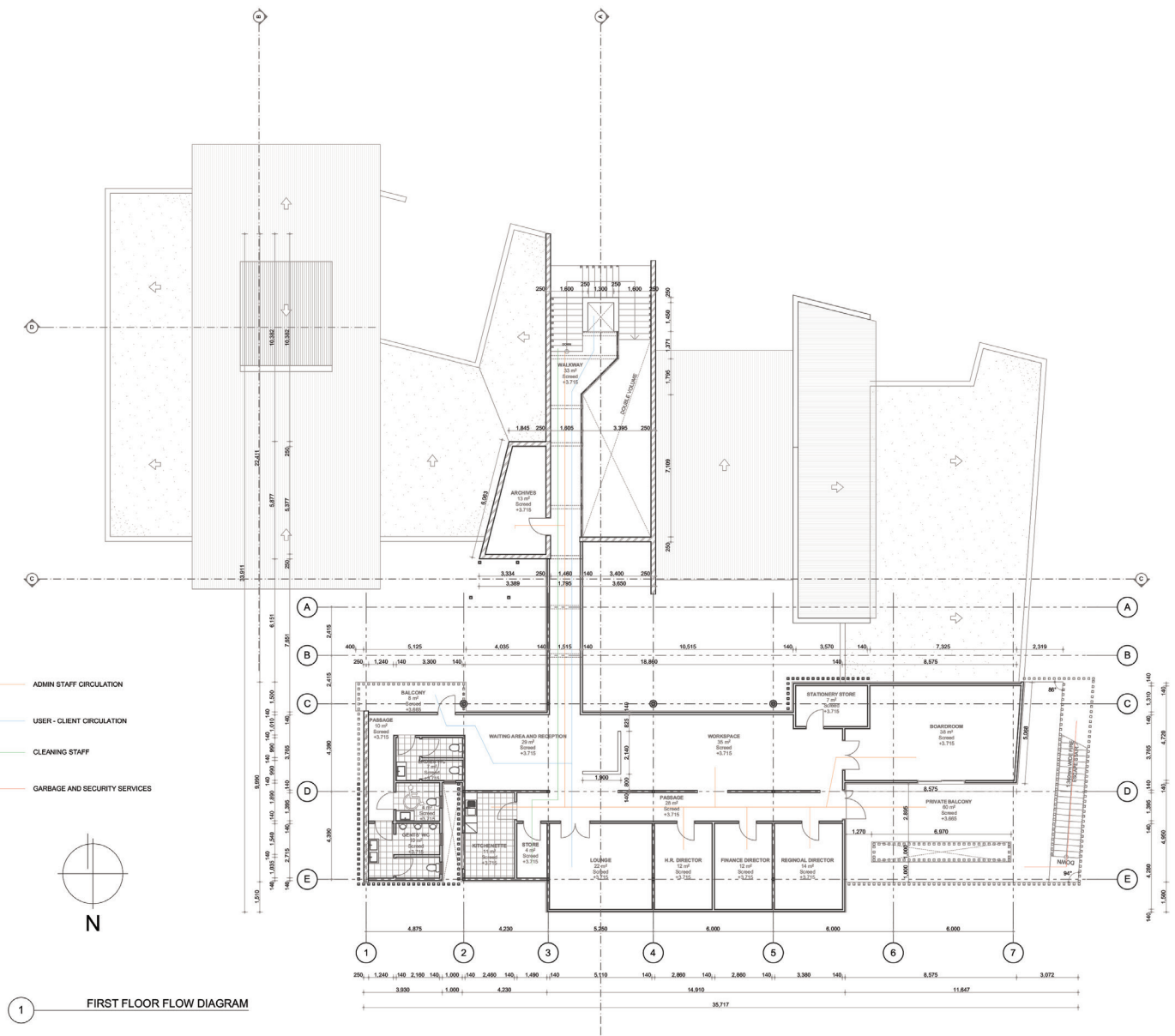
2.1 TECHNICAL DEVELOPMENT

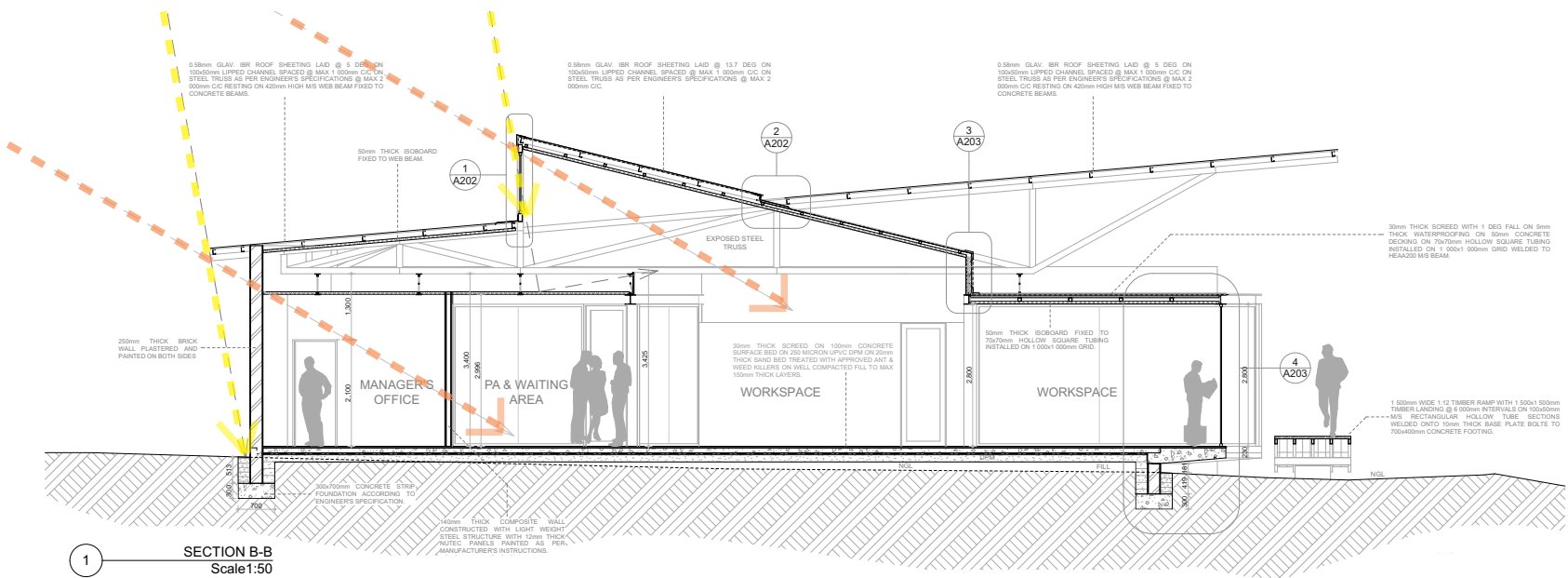
Tectonic 1

Aim:

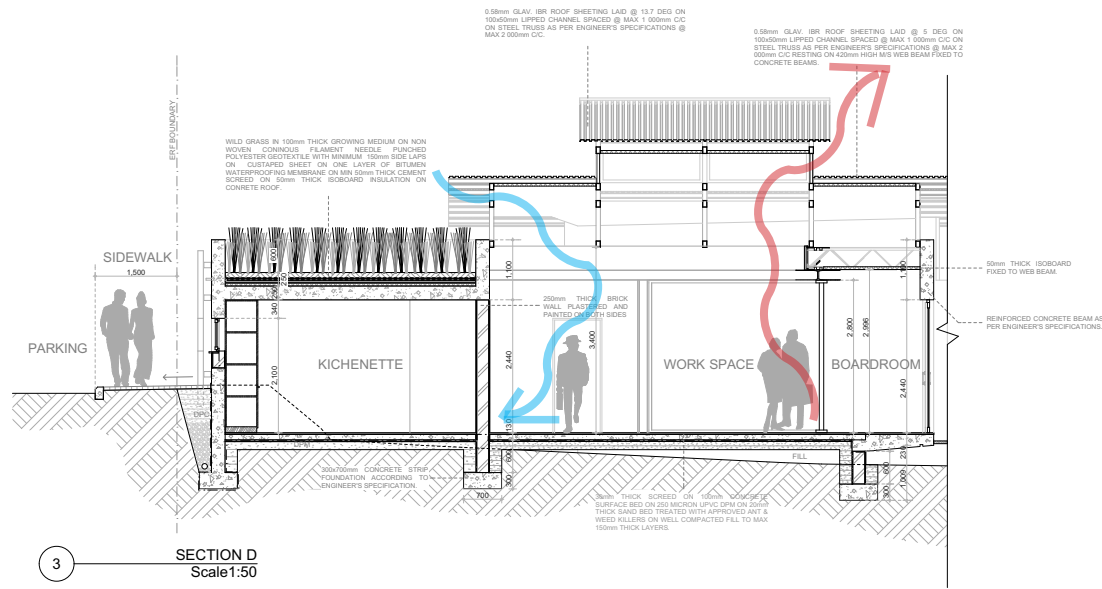
- Fulfill the required accommodation list as per clients brief
- Detailing of roof and floor slabs to achieve the element of a 'floating hut'

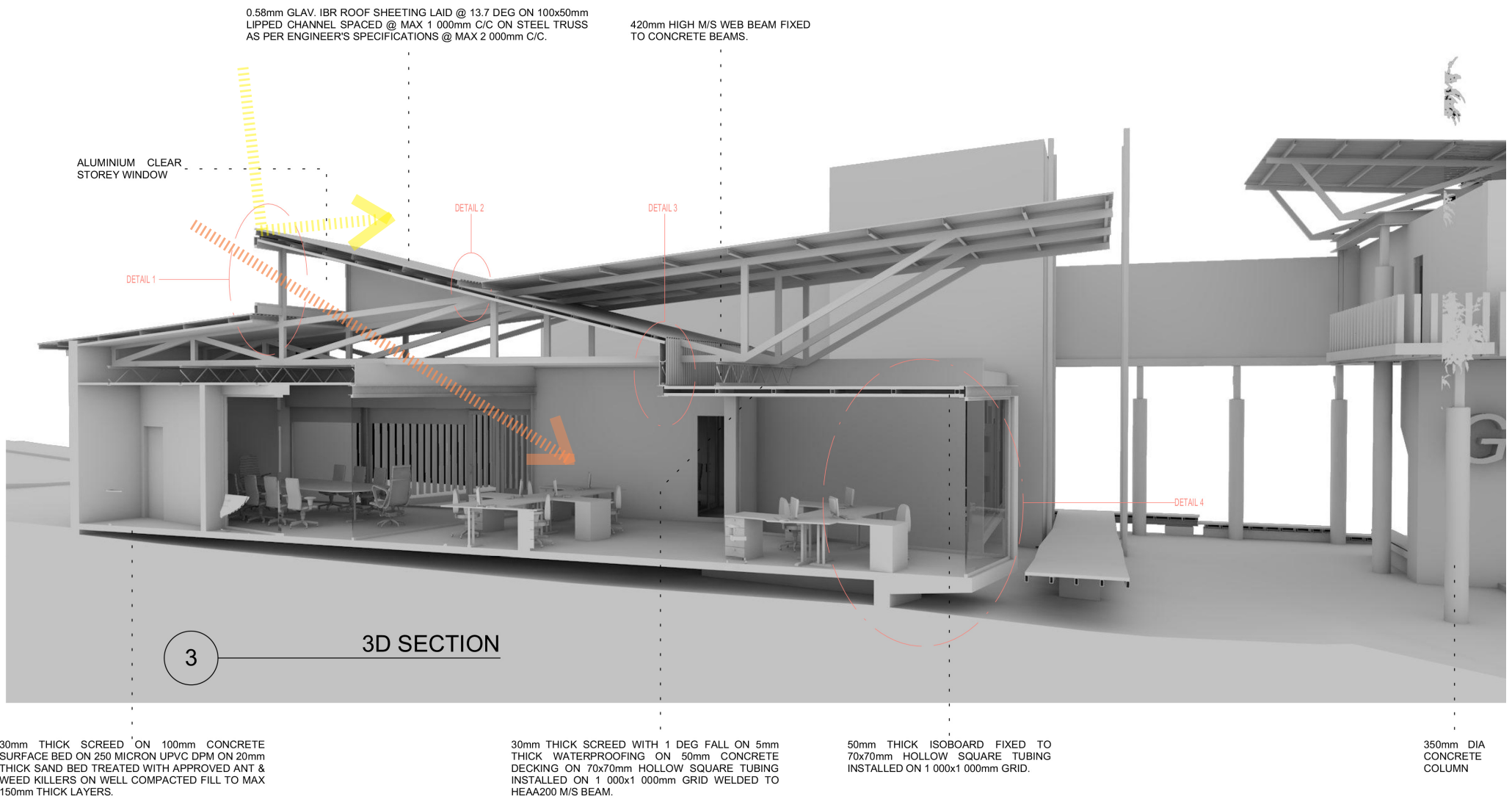


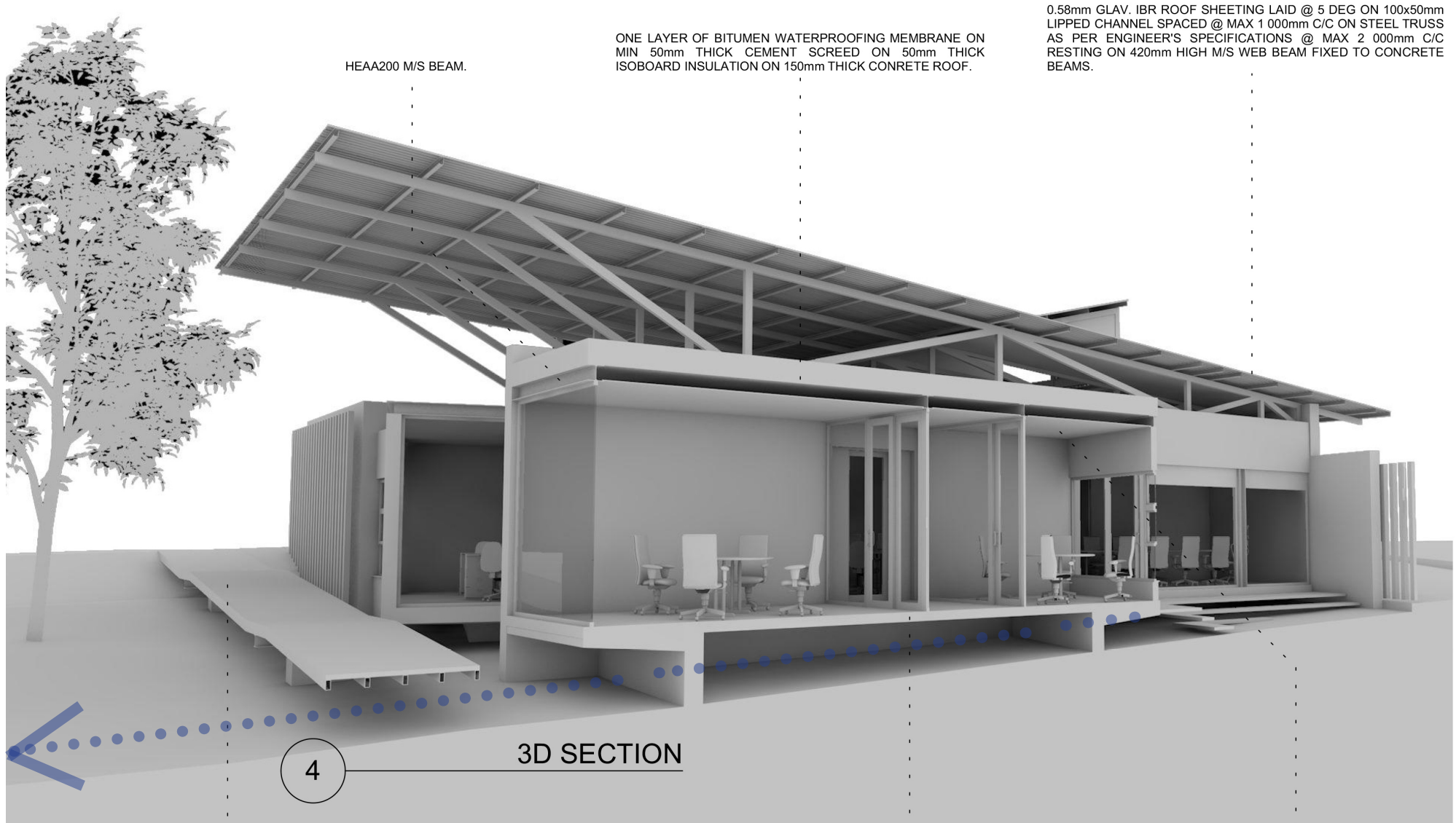




The slope of the site also revealed the possibility of having the building step to match the natural slope but still be elevated enough for the storm water run-off to move under and around the building and possibly be harvested for the irrigation of the 'green yard' next to the proposed GIPF regional HQ.







HEAA200 M/S BEAM.

ONE LAYER OF BITUMEN WATERPROOFING MEMBRANE ON MIN 50mm THICK CEMENT SCREED ON 50mm THICK ISOBOARD INSULATION ON 150mm THICK CONCRETE ROOF.

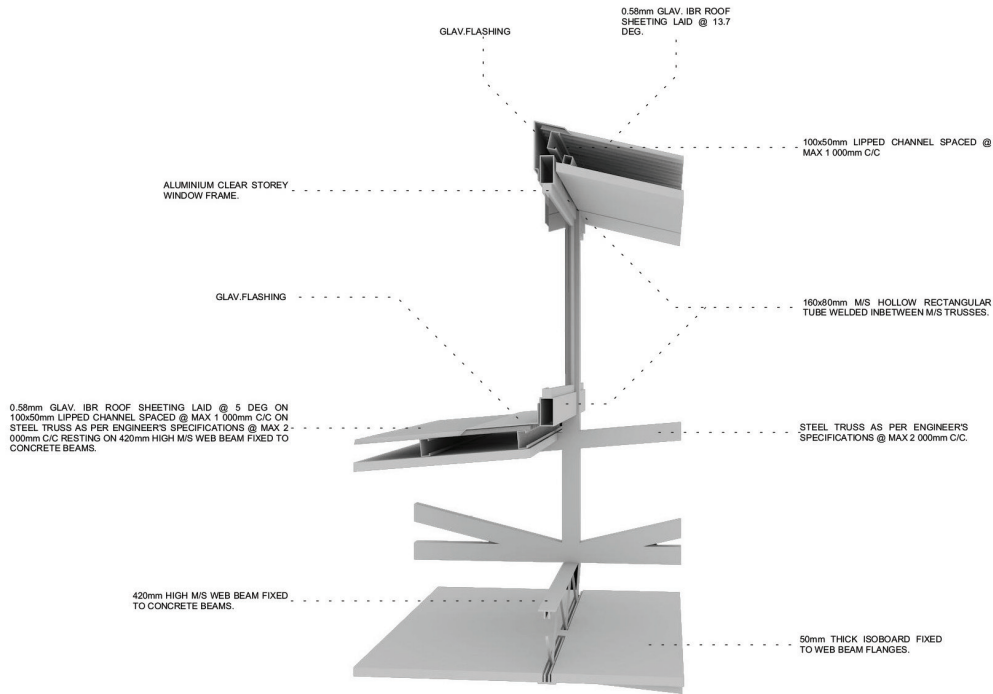
0.58mm GLAV. IBR ROOF SHEETING LAID @ 5 DEG ON 100x50mm LIPPED CHANNEL SPACED @ MAX 1 000mm C/C ON STEEL TRUSS AS PER ENGINEER'S SPECIFICATIONS @ MAX 2 000mm C/C RESTING ON 420mm HIGH M/S WEB BEAM FIXED TO CONCRETE BEAMS.

4 3D SECTION

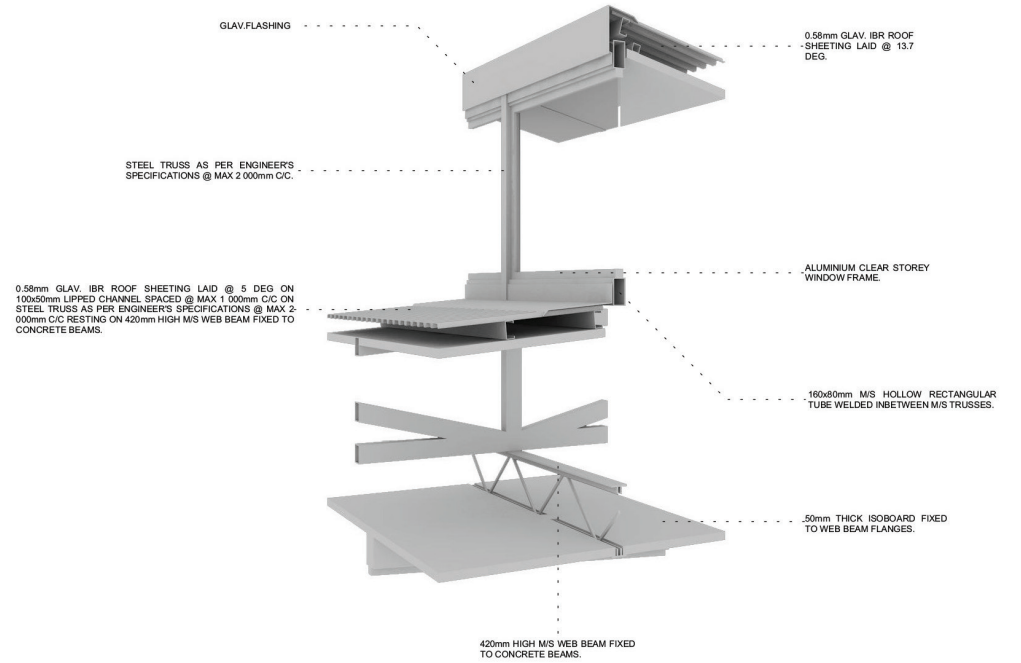
1 500mm WIDE 1:12 TIMBER RAMP WITH 1 500x1 500mm TIMBER LANDING @ 6 000mm INTERVALS ON 100x50mm M/S RECTANGULAR HOLLOW TUBE SECTIONS WELDED ONTO 10mm THICK BASE PLATE BOLTED TO 700x400mm CONCRETE FOOTING.

30mm THICK SCREED ON 100mm CONCRETE SURFACE BED ON 250 MICRON UPVC DPM ON 20mm THICK SAND BED TREATED WITH APPROVED ANT & WEED KILLERS ON WELL COMPACTED FILL TO MAX 150mm THICK LAYERS.

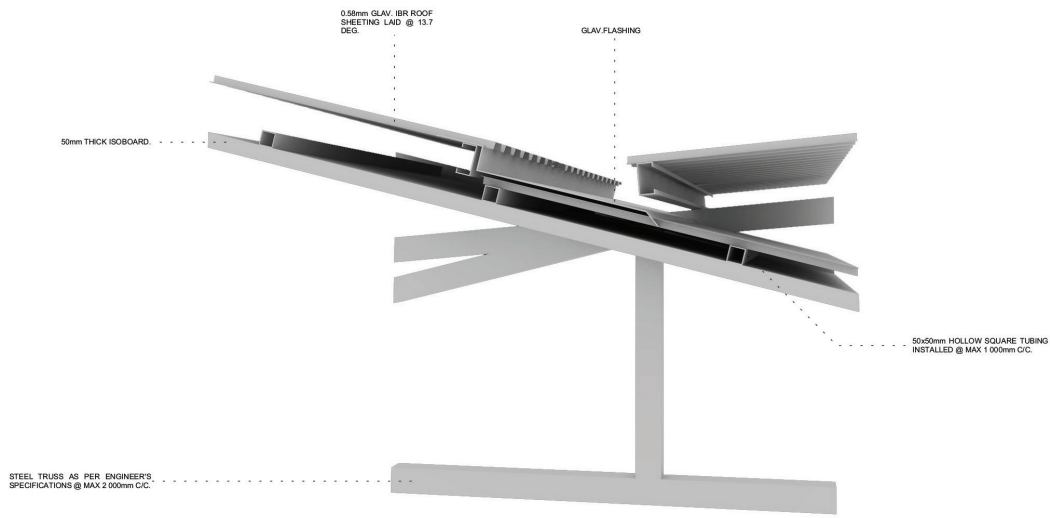
50mm THICK ISOBOARD FIXED TO 70x70mm HOLLOW SQUARE TUBING INSTALLED ON 1 000x1 000mm GRID.



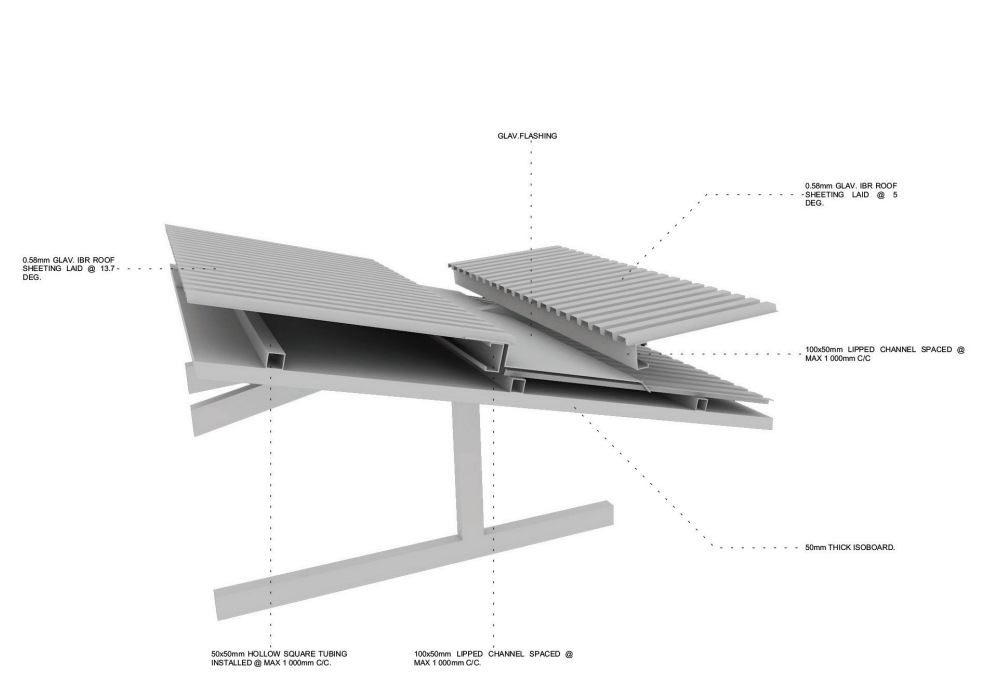
1 DETAIL 1 - VIEW 1



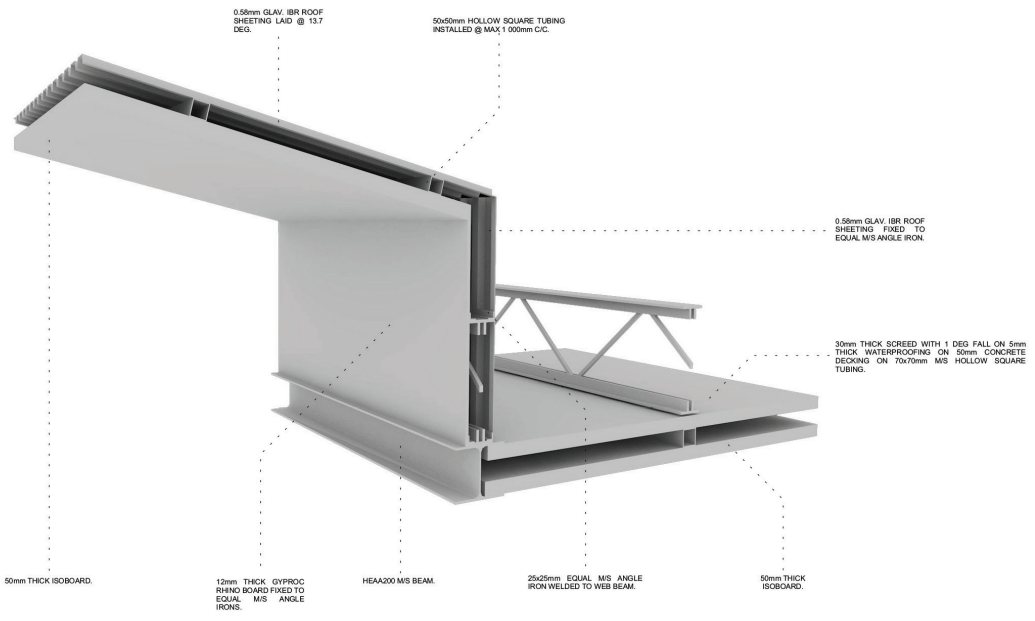
2 DETAIL 1 - VIEW 2



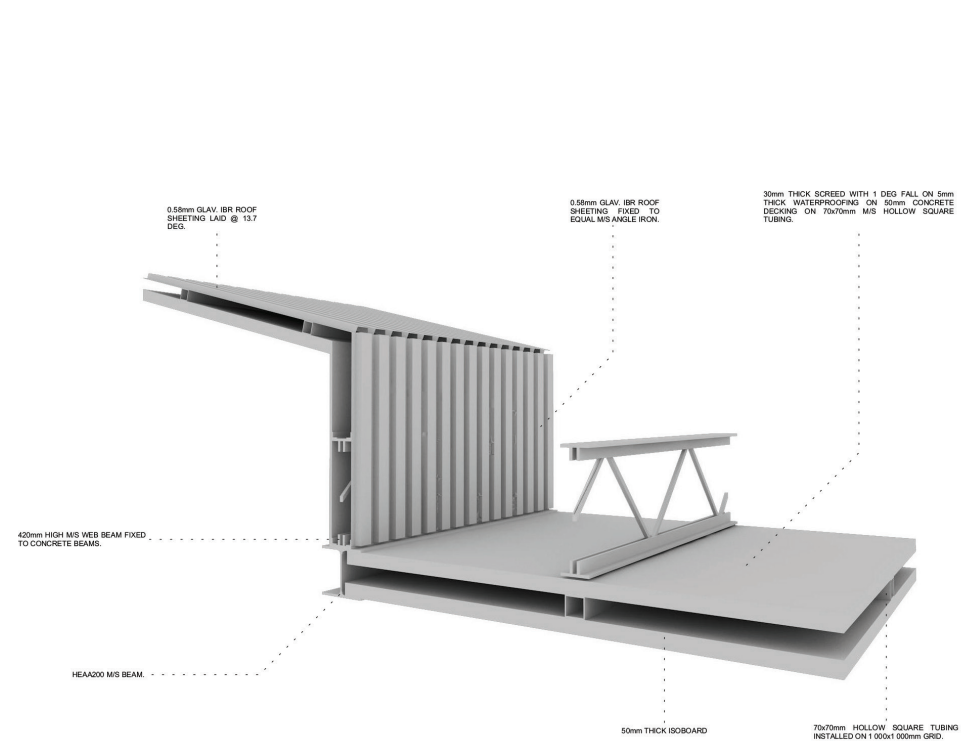
3 DETAIL 3 - VIEW 1



4 DETAIL 3 - VIEW 2



1 — DETAIL 3 - VIEW 1



2 — DETAIL 3 - VIEW 2

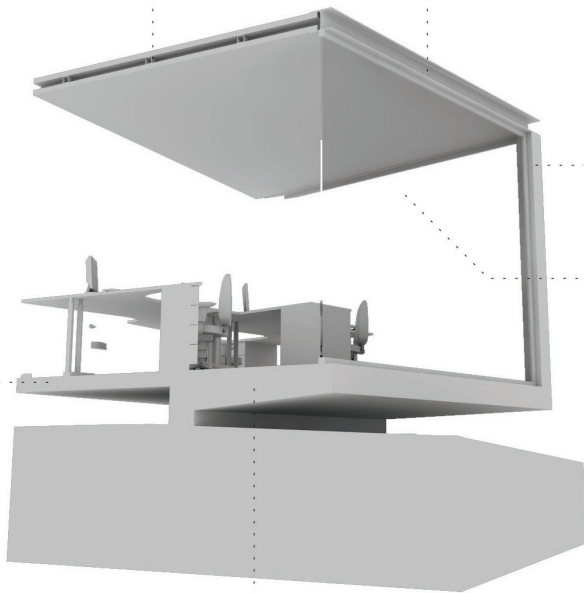
30mm THICK SCREED WITH 1 DEG FALL ON 5mm THICK WATERPROOFING ON 50mm CONCRETE DECKING ON 70x70mm M/S HOLLOW SQUARE TUBING.

HEAA200 M/S BEAM.

200x200mm M/S SQUARE TUBING - WELDED TO 300x300mm M/S PLATE BOLTED INTO CONCRETE FLOOR.

CUSTOM FITTED WINDOW

30mm THICK SCREED ON 100mm CONCRETE SURFACE BED ON 250 MICRON UPVC DPM ON 20mm THICK SAND BED TREATED WITH APPROVED ANT & WEED KILLERS ON WELL COMPACTED FILL TO MAX 150mm THICK LAYERS.



3

DETAIL 4 - VIEW 1

OVERHANG CONCRETE BEAM/FLOOR AS PER ENGINEER'S SPECIFICATIONS.

30mm THICK SCREED WITH 1 DEG FALL ON 5mm THICK WATERPROOFING ON 50mm CONCRETE DECKING ON 70x70mm M/S HOLLOW SQUARE TUBING.

50mm THICK ISOBOARD FIXED TO 70x70mm HOLLOW SQUARE TUBING INSTALLED ON 1 000x1 000mm GRD.

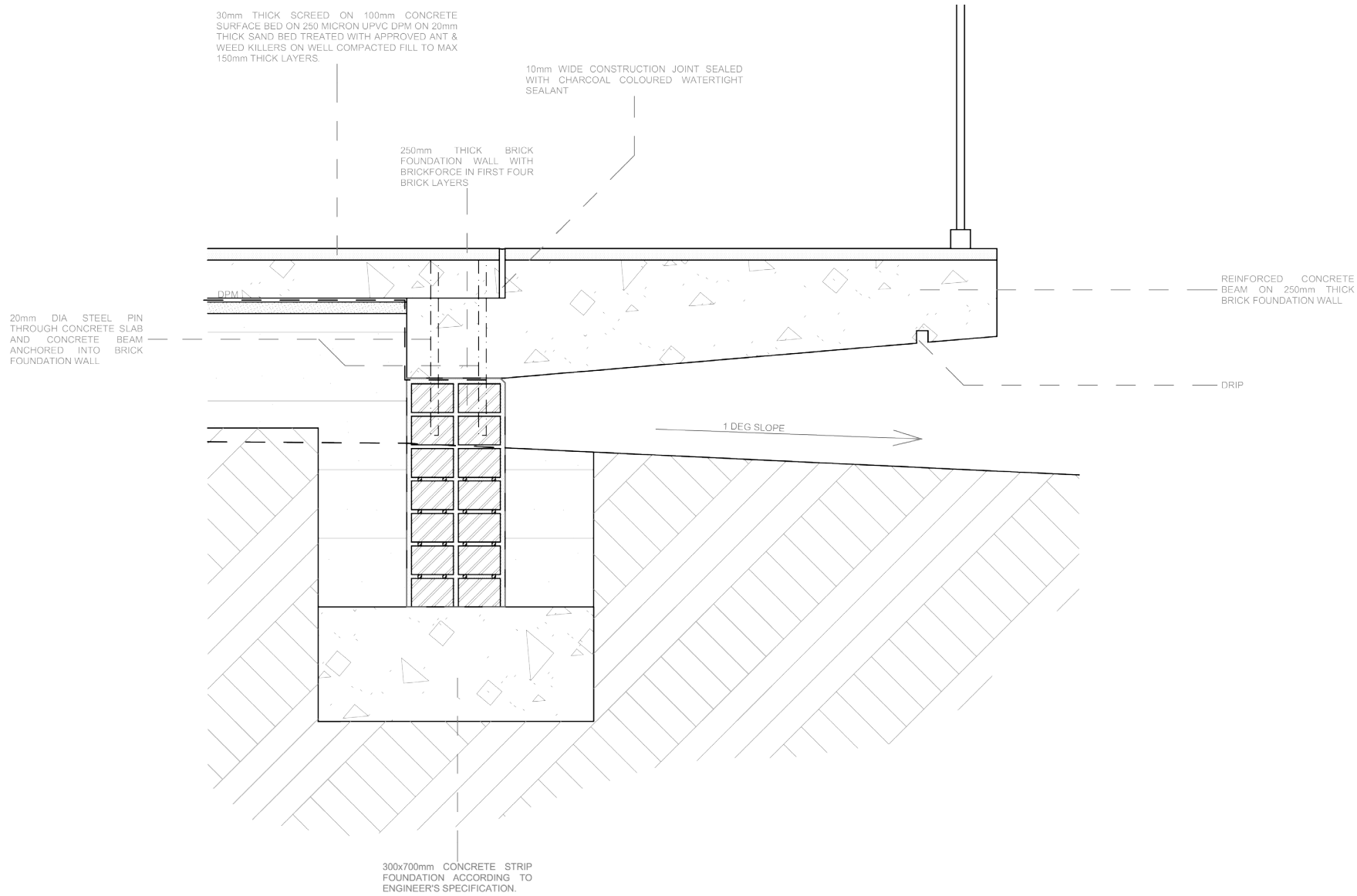


30mm THICK SCREED ON 100mm CONCRETE SURFACE BED ON 250 MICRON UPVC DPM ON 20mm THICK SAND BED TREATED WITH APPROVED ANT & WEED KILLERS ON WELL COMPACTED FILL TO MAX 150mm THICK LAYERS.

OVERHANG CONCRETE BEAM/FLOOR AS PER ENGINEER'S SPECIFICATIONS.

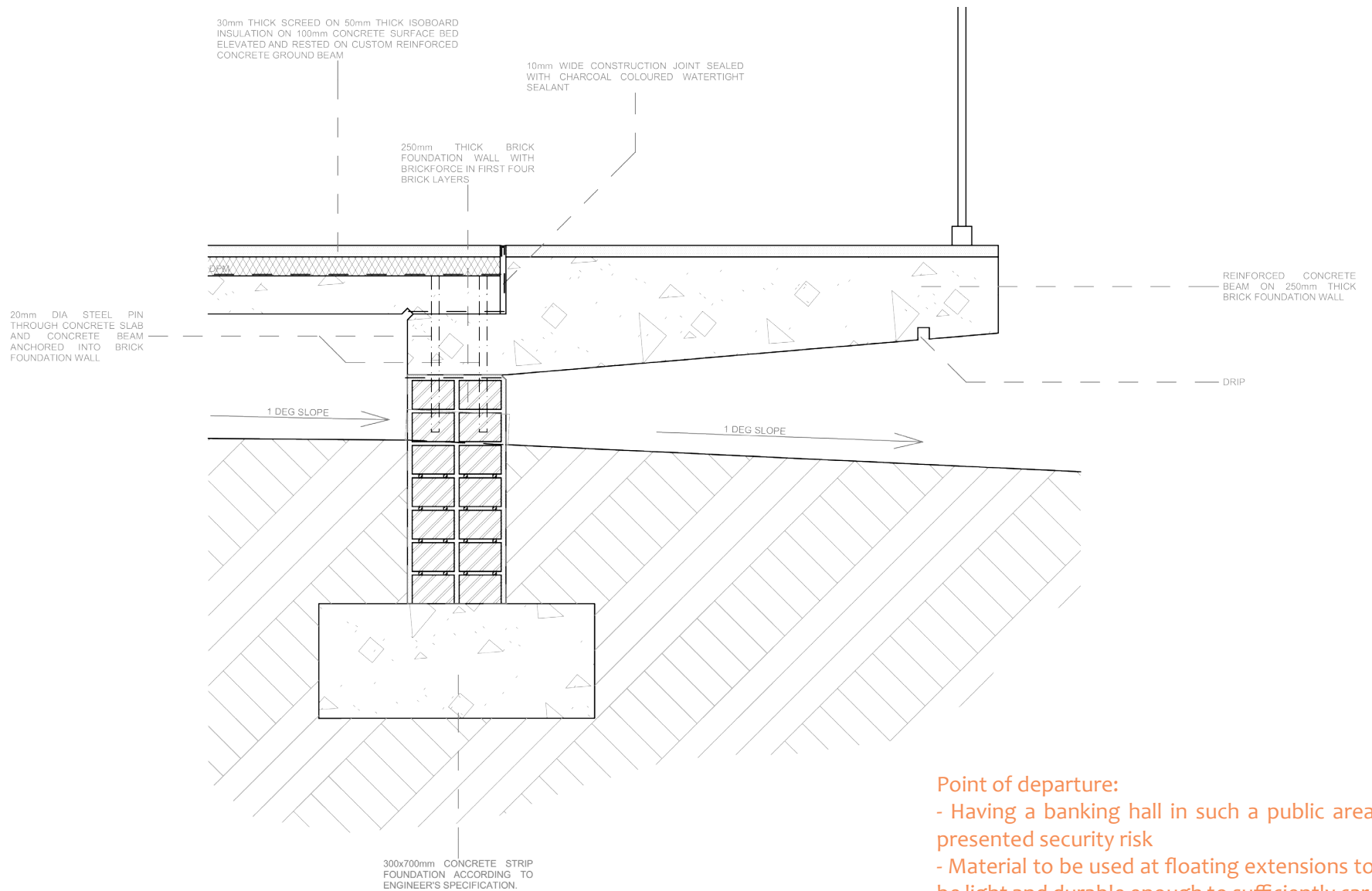
4

DETAIL 4 - VIEW 2



1

GROUND TO FLOOR DETAIL_FILLED GAP



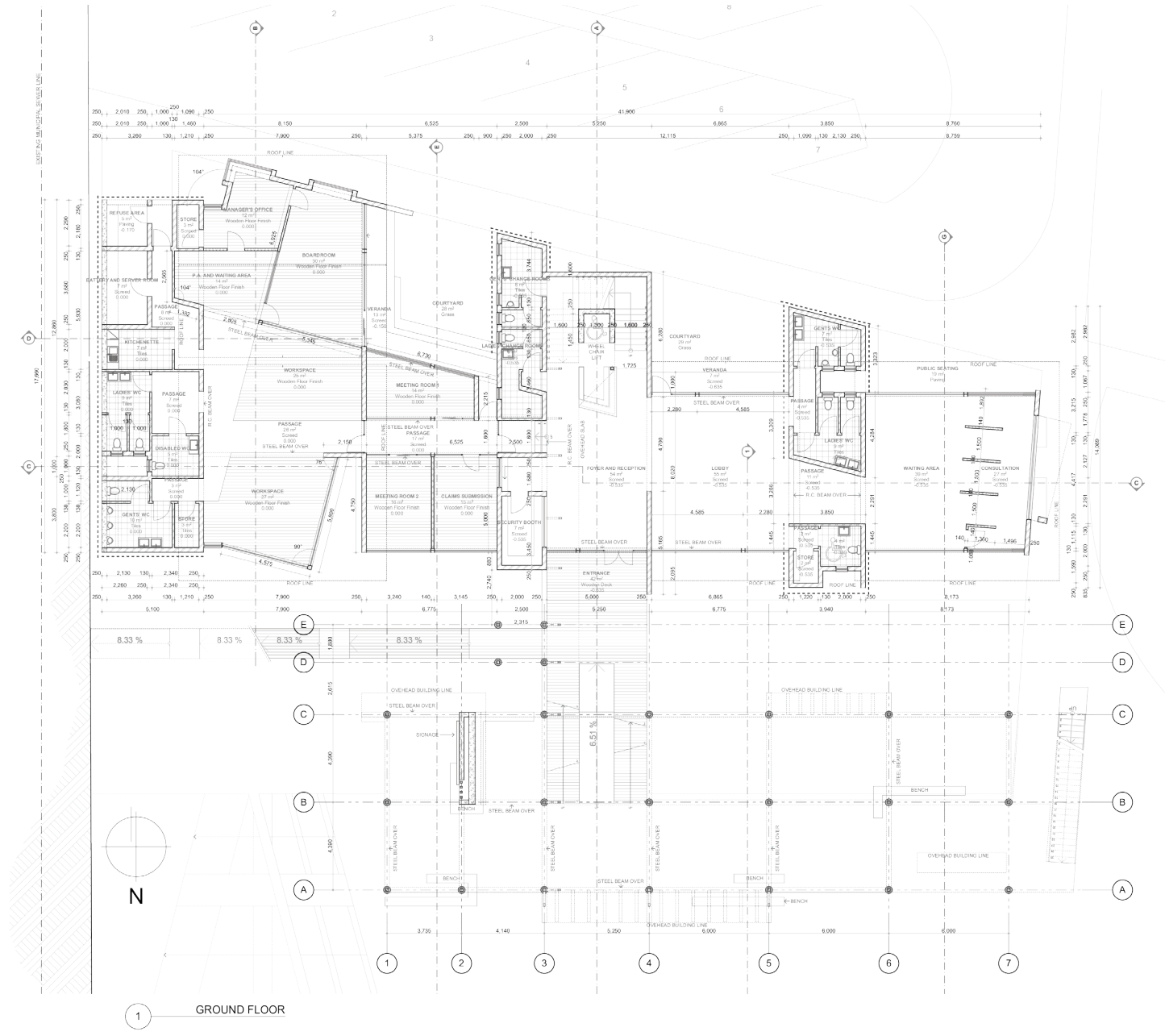
2 GROUND TO FLOOR DETAIL_SUSPENDED SLAB

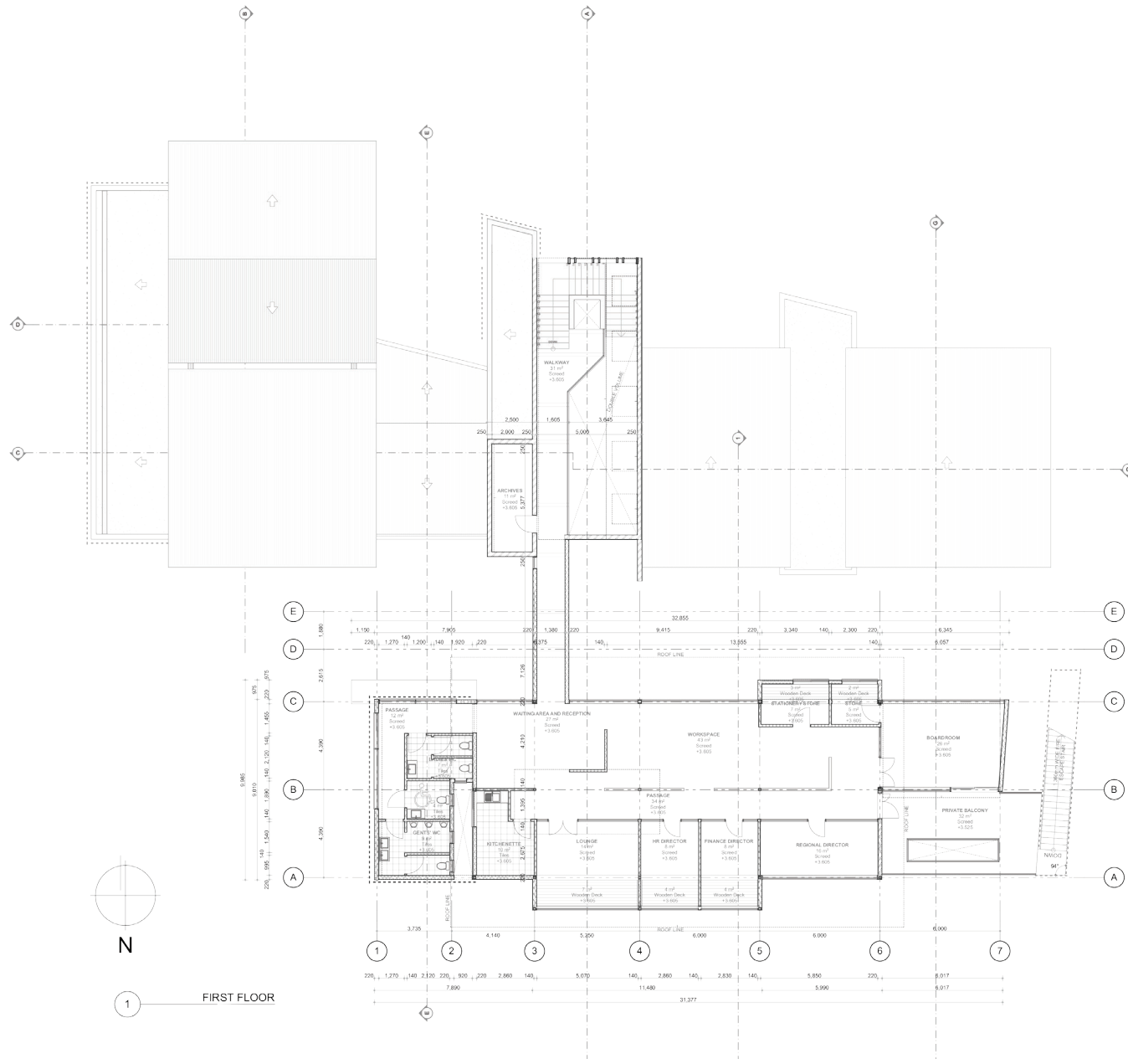
- Point of departure:
- Having a banking hall in such a public area presented security risk
 - Material to be used at floating extensions to be light and durable enough to sufficiently carry itself and the user
 - Roof design had critical points that may lead to leaking

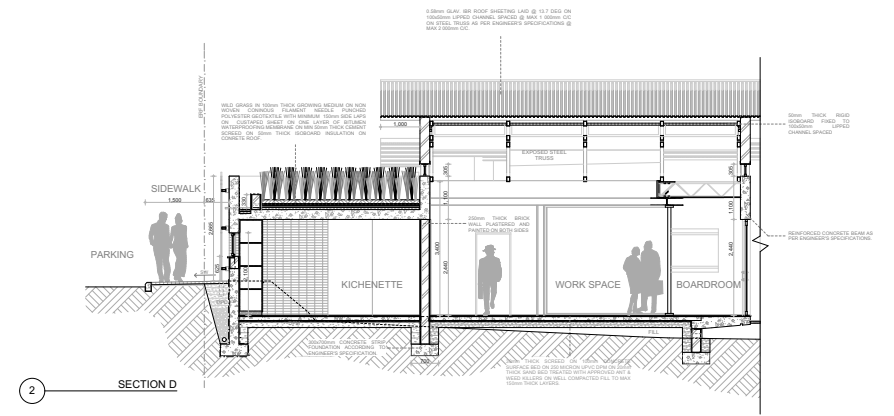
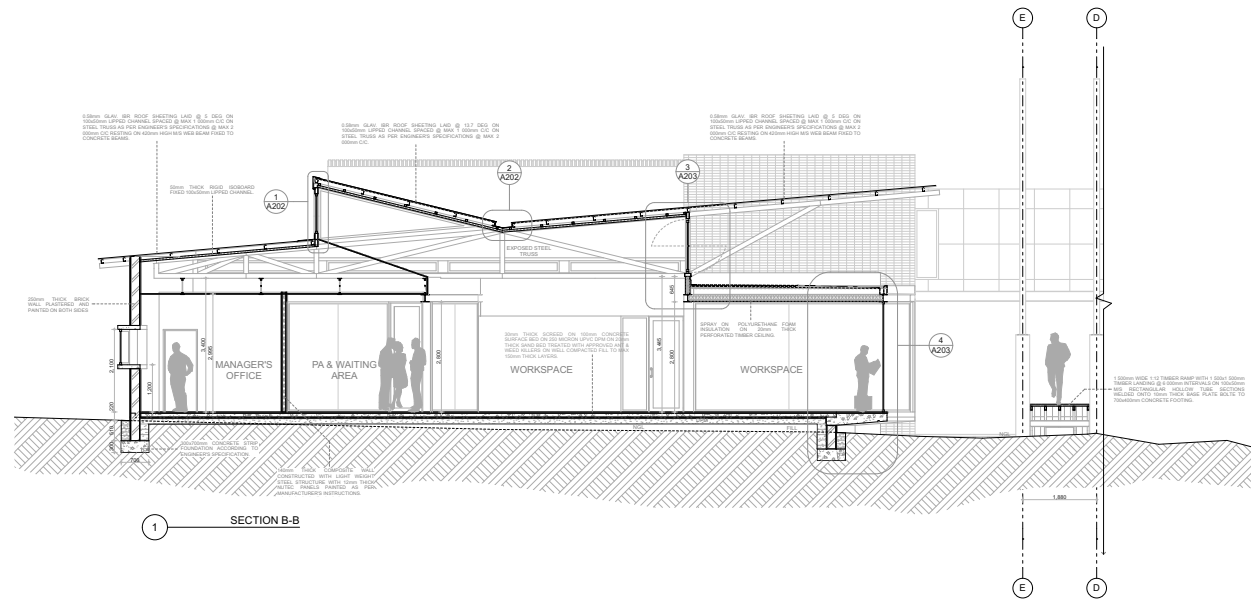
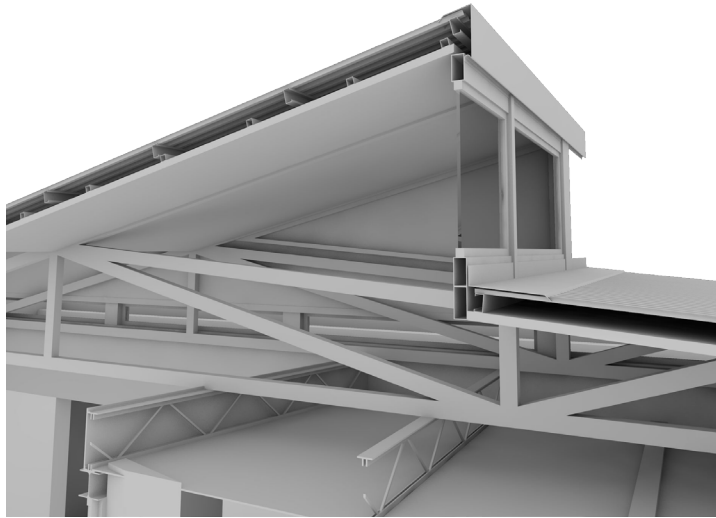
Tectonic 2

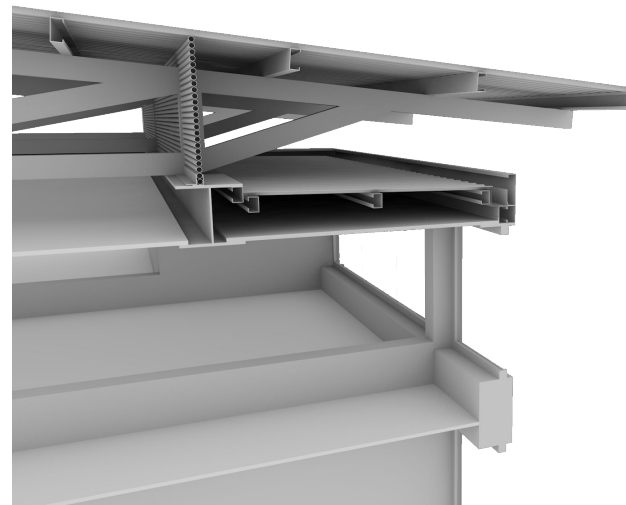
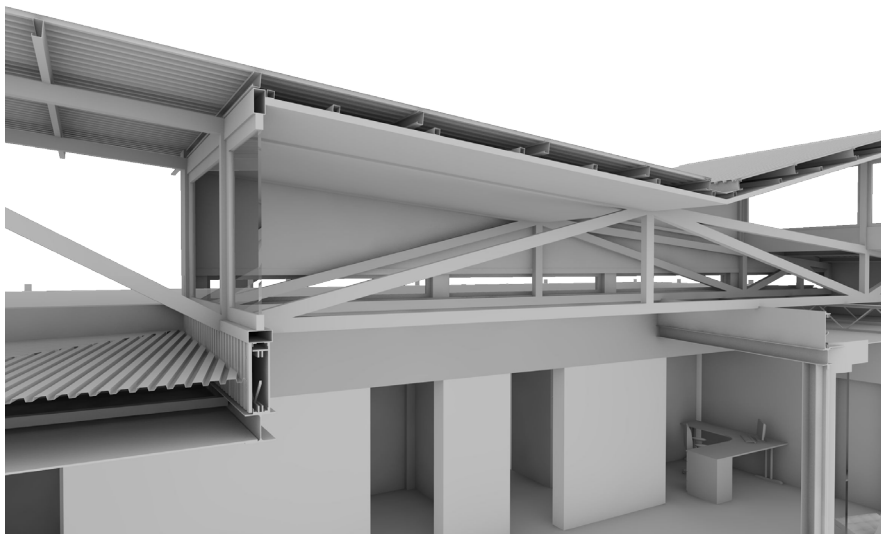
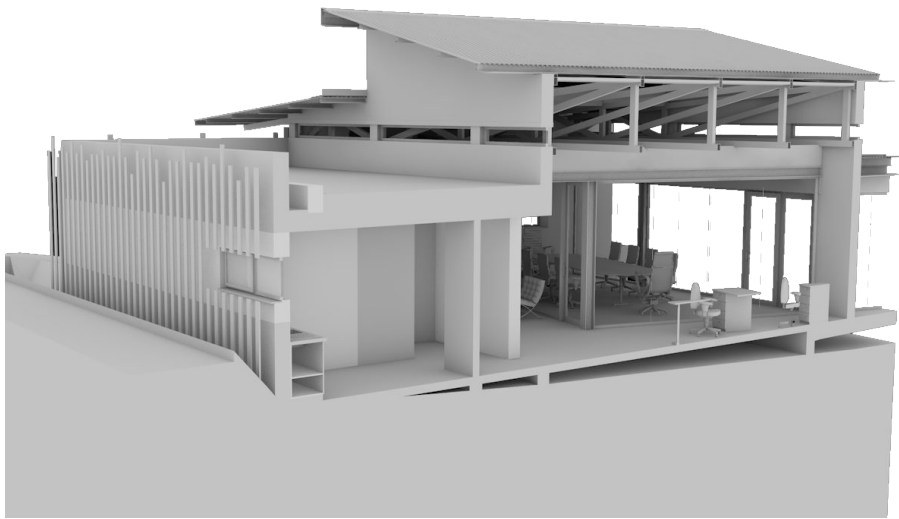
Aim:

- After further analysis, it was discovered that banking is not part of the services offered and hence was removed









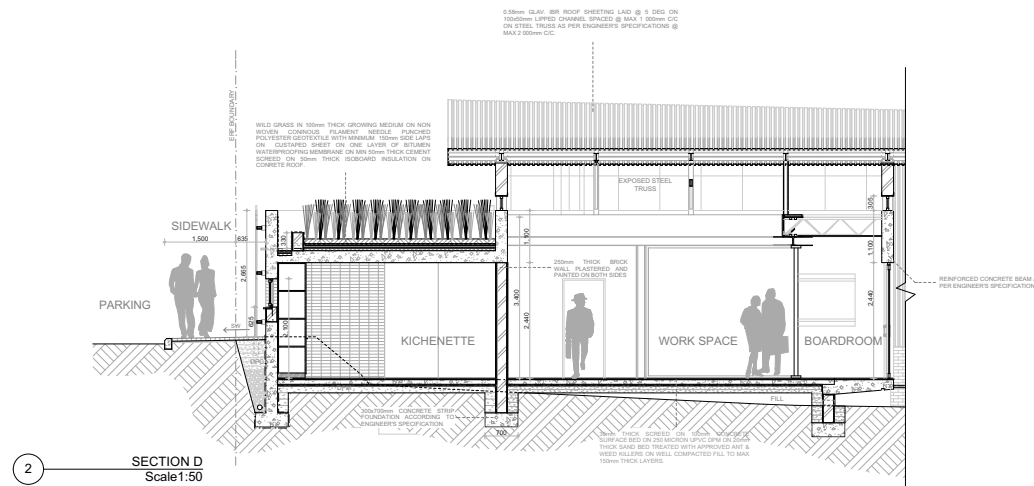
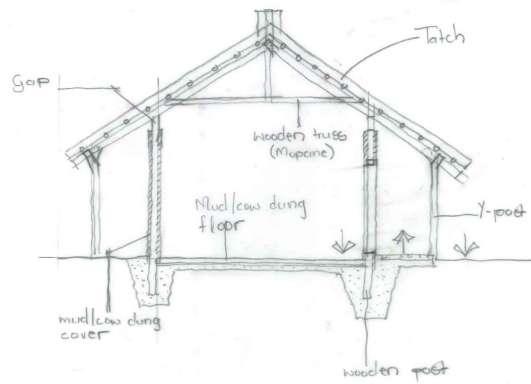
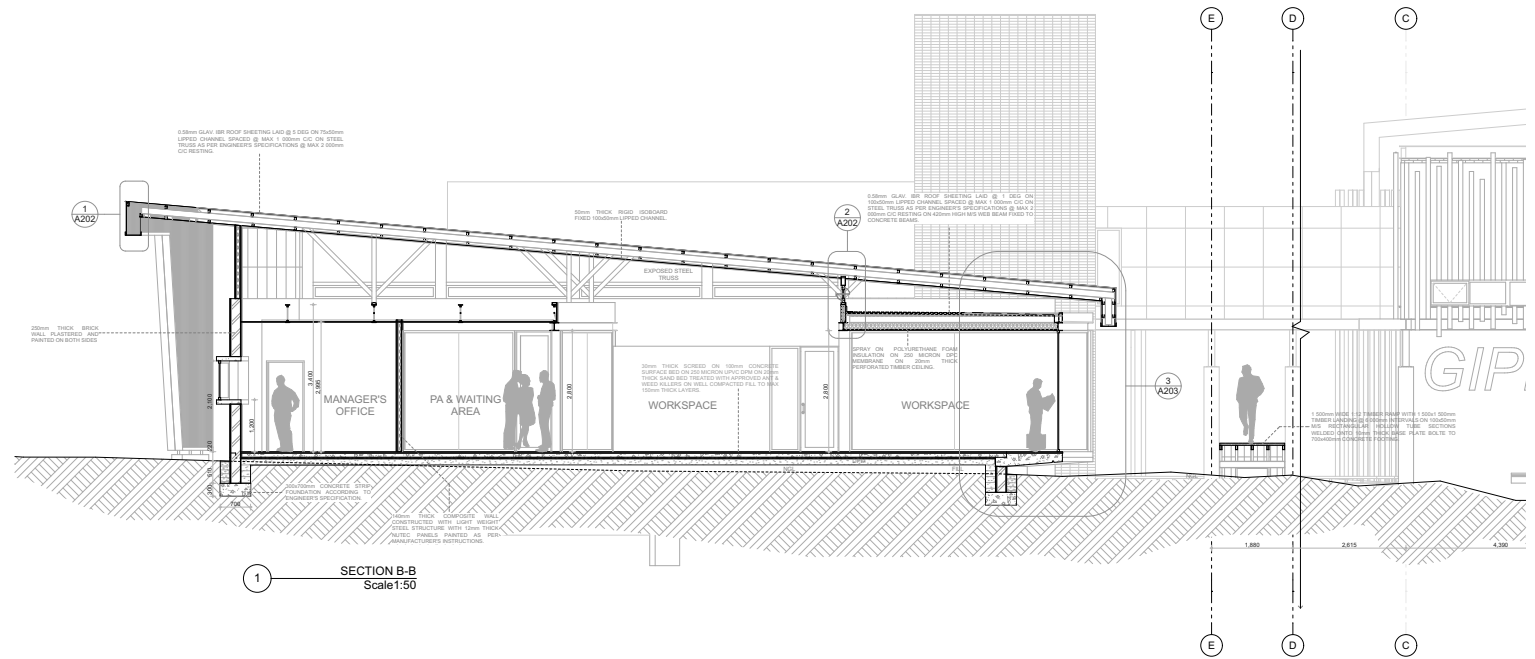
Point of departure:

- The roof design was altered, but still had issues with water proofing
- Roof design was too elaborate although the structure would not be experienced by the user on the inside

Tectonic 3

Aim:

- As stated at the final architectural approach, the roof is to be a combination of the typical hut and contemporary hut

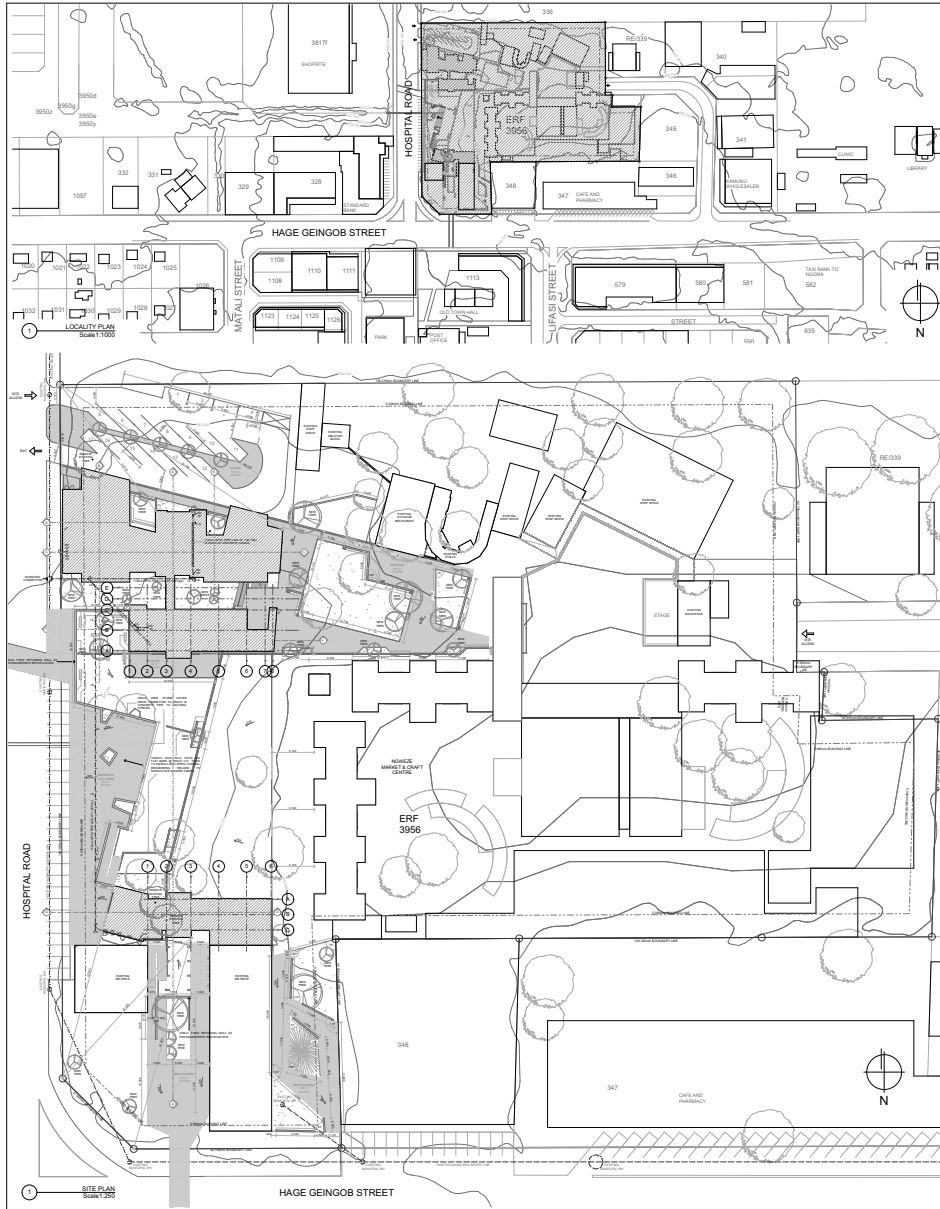


Point of departure:
 - Reintergrate the sustainable motifs that were part of the previous design and technical development
 - This is in progress and will be presented at the final presentation October

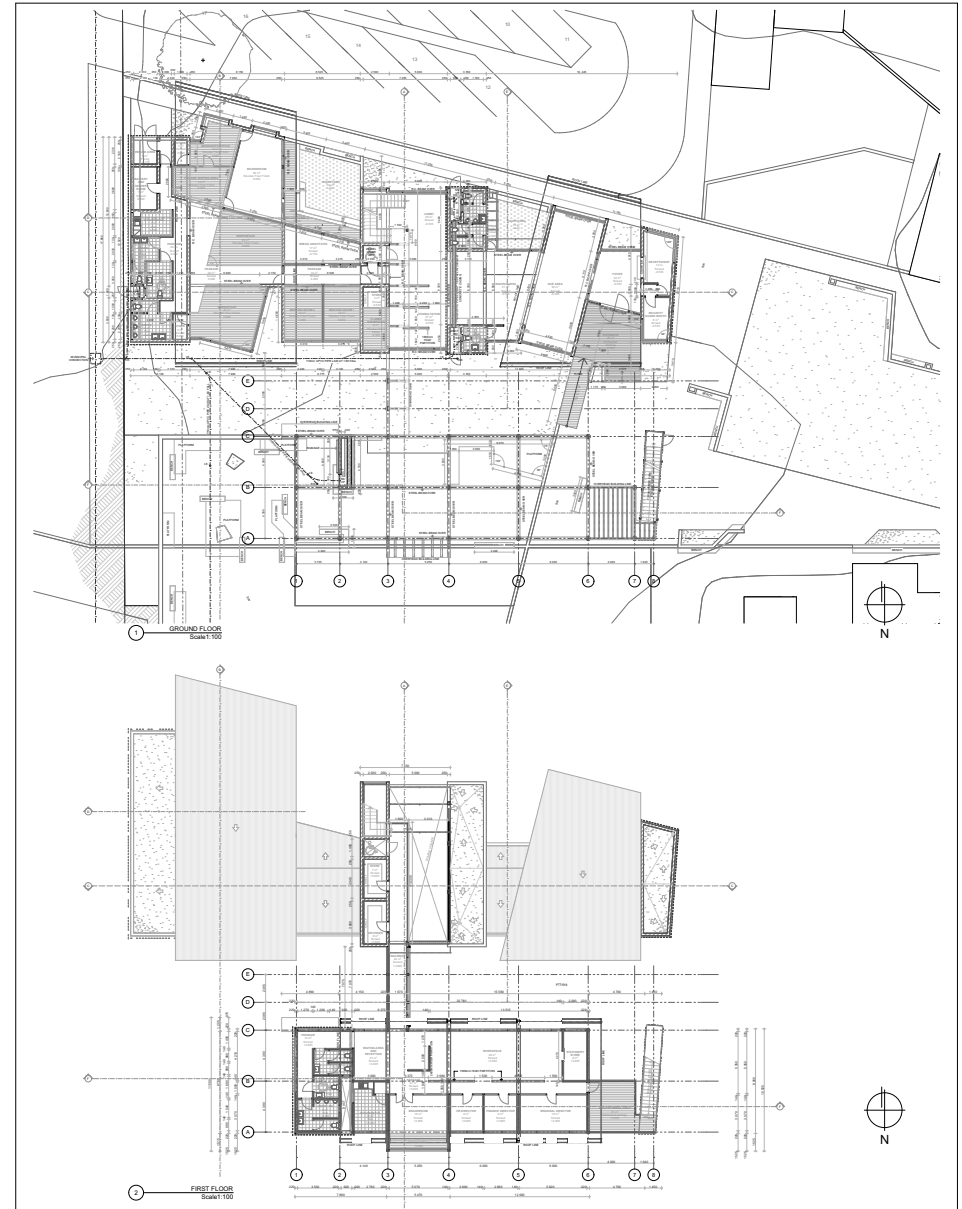
2.2 TECHNICAL RESOLUTION

As part of the final technical resolution, the following drawings were prepared:

- Locality plan,
- Site plan,
- Ground floor plan,
- First floor plan,
- 2D Sections A-A to F-F,
- 3D Sections,
- 2D details and,
- Elevations

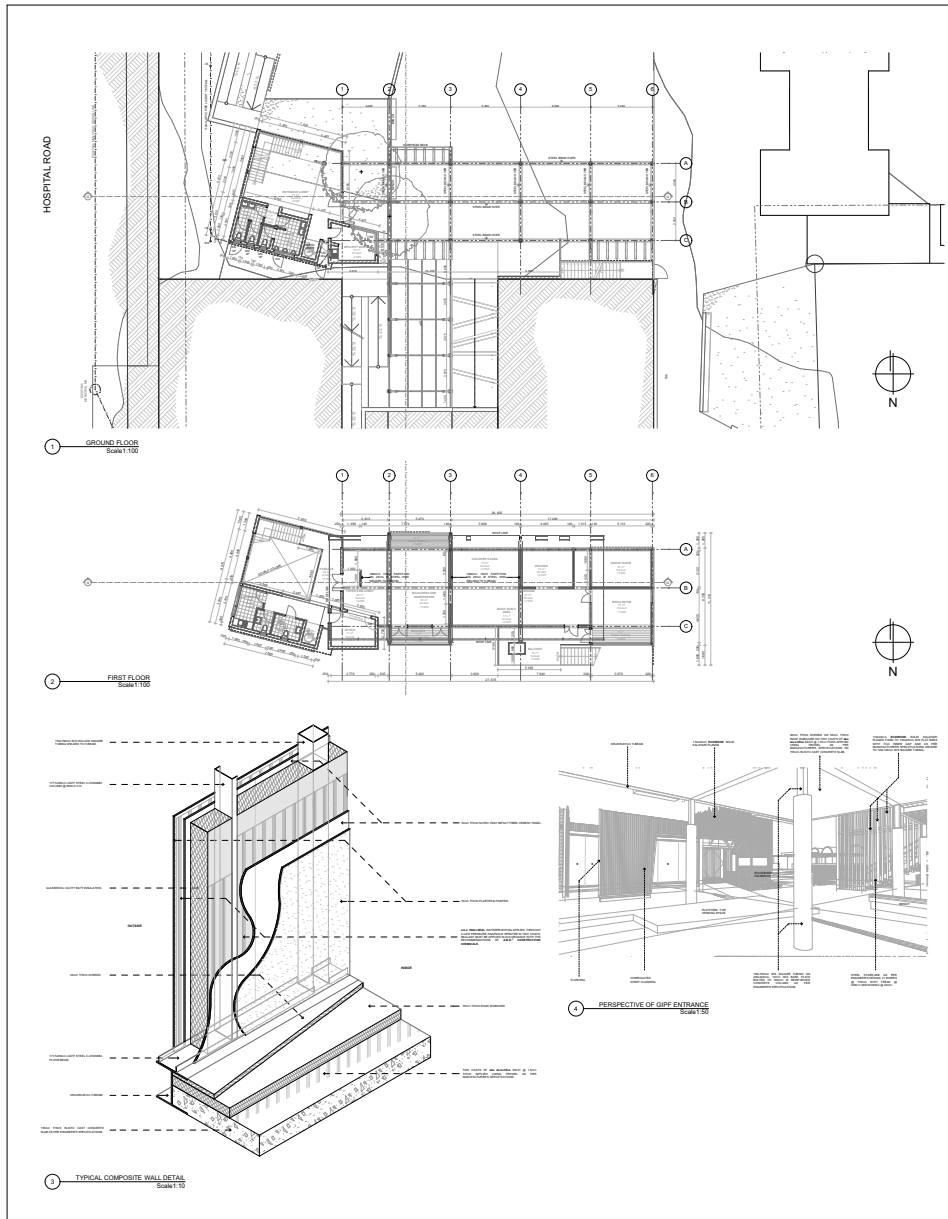


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|---|--|--|--|---|--|---|--|
| <p>PROJECT: GOVERNMENT INSTITUTION PENSION FUND
 OFFICE: GIPF REGIONAL HQ AND OFFICE PARK
 DRAWING: LOCALITY AND SITE PLAN
 SCALE: 1:1000</p> | | <p>DATE: 15/01/2010
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]</p> | | <p>CLIENT APPROVAL: [Signature]
 DATE: 15/01/2010</p> | | <p>W1
 15/P01
 A001</p> | |
|---|--|--|--|---|--|---|--|

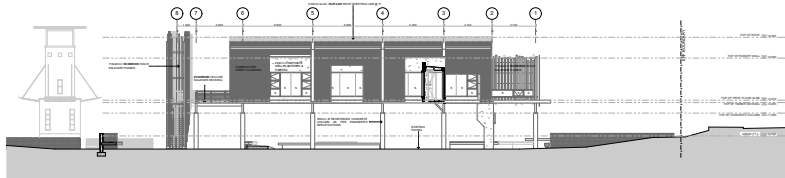


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|--|--|--|--|---|--|---|--|
| <p>PROJECT: GOVERNMENT INSTITUTION PENSION FUND
 OFFICE: GIPF REGIONAL HQ AND OFFICE PARK
 DRAWING: GIPF FLOOR PLANS
 SCALE: 1:100</p> | | <p>DATE: 15/01/2010
 DRAWN BY: [Name]
 CHECKED BY: [Name]
 APPROVED BY: [Name]</p> | | <p>CLIENT APPROVAL: [Signature]
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 A100</p> | |
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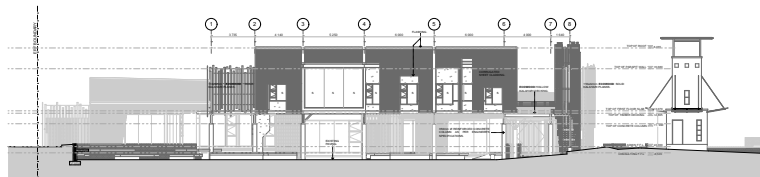
Shift/Transformation of identity through spatial evolution.



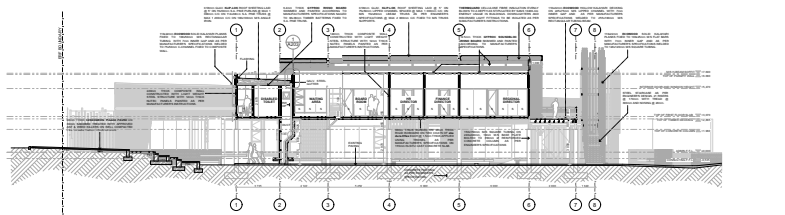
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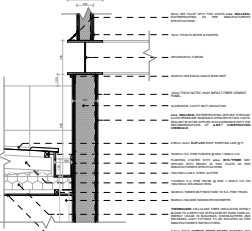
1 GIPF MANAGEMENT NORTH ELEVATION
Scale 1:100



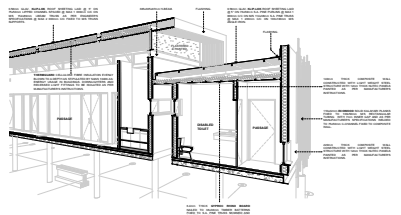
2 GIPF MANAGEMENT SOUTH ELEVATION
Scale 1:100



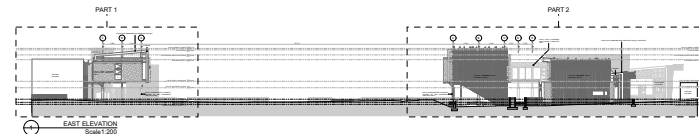
3 SECTION F.F
Scale 1:100



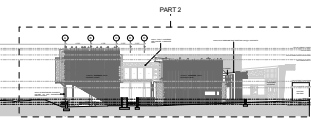
4 DETAIL 1
Scale 1:50



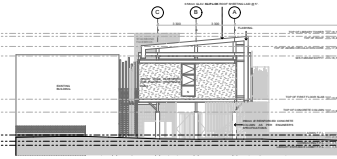
5 PART PERSPECTIVE SECTION F.F
Scale 1:50



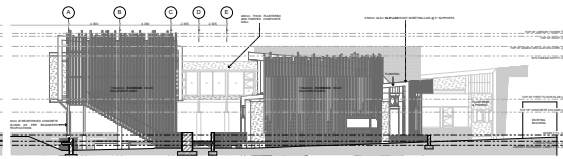
6 EAST ELEVATION - PART 1
Scale 1:100



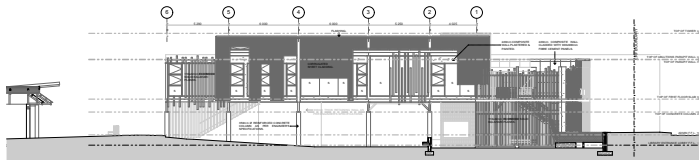
7 EAST ELEVATION - PART 2
Scale 1:100



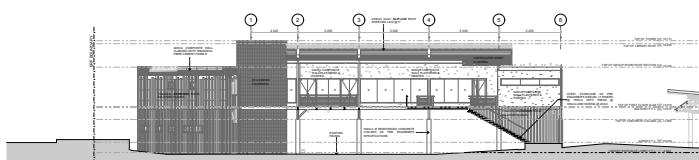
8 EAST ELEVATION - PART 1
Scale 1:100



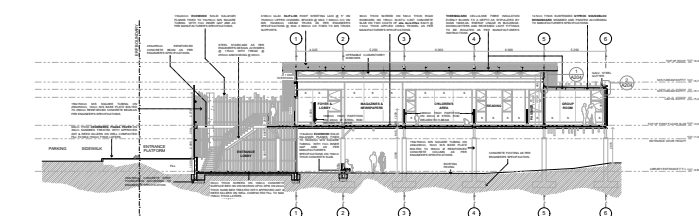
9 EAST ELEVATION - PART 2
Scale 1:100



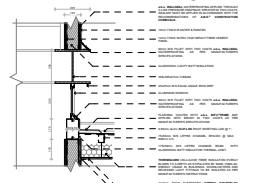
10 LIBRARY NORTH ELEVATION
Scale 1:100



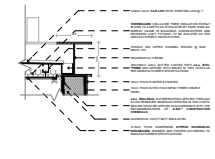
11 LIBRARY SOUTH ELEVATION
Scale 1:100



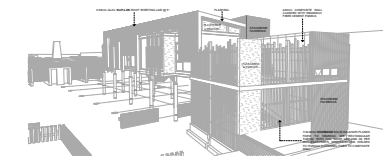
12 SECTION G.G
Scale 1:100



13 DETAIL 1
Scale 1:50



14 DETAIL 2
Scale 1:50



15 LIBRARY ENTRANCE PERSPECTIVE
Scale 1:50

| | | | | |
|------------|--|--|--|--|
| <p>167</p> | | <p>DATE: 15/01/2015</p> <p>SCALE: A203</p> | <p>GOVERNMENT INSTITUTION PENSION FUND</p> <p>GIPF REGIONAL HO AND OFFICE PARK</p> | <p>CLIENT APPROVAL:</p> <p>NAME: [Signature]</p> <p>DATE: [Date]</p> |
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| <p>167</p> | | <p>DATE: 15/01/2015</p> <p>SCALE: A204</p> | <p>GOVERNMENT INSTITUTION PENSION FUND</p> <p>GIPF REGIONAL HO AND OFFICE PARK</p> | <p>CLIENT APPROVAL:</p> <p>NAME: [Signature]</p> <p>DATE: [Date]</p> |
|------------|--|--|--|--|

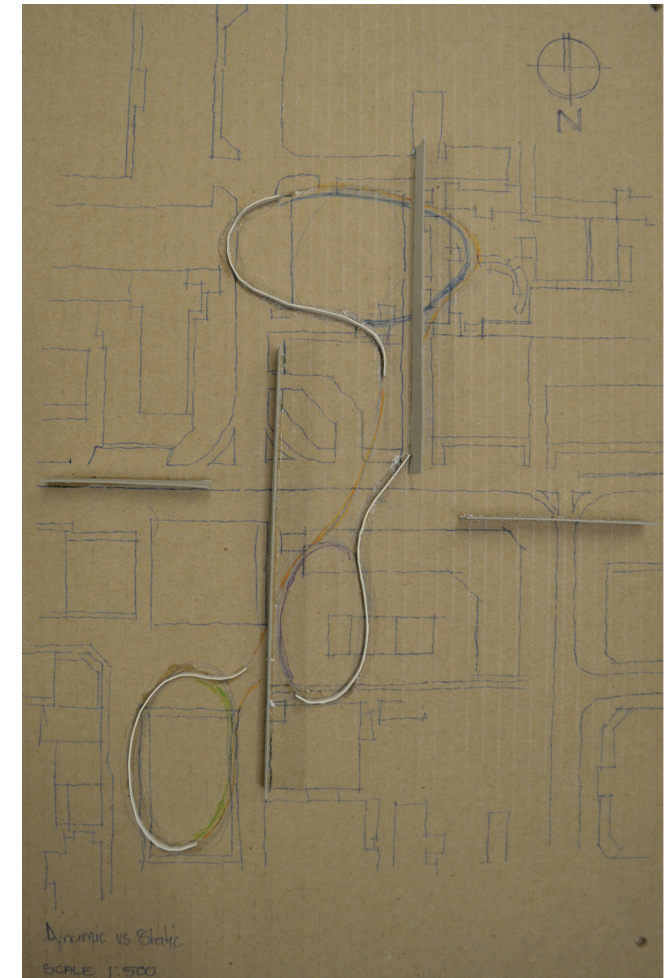
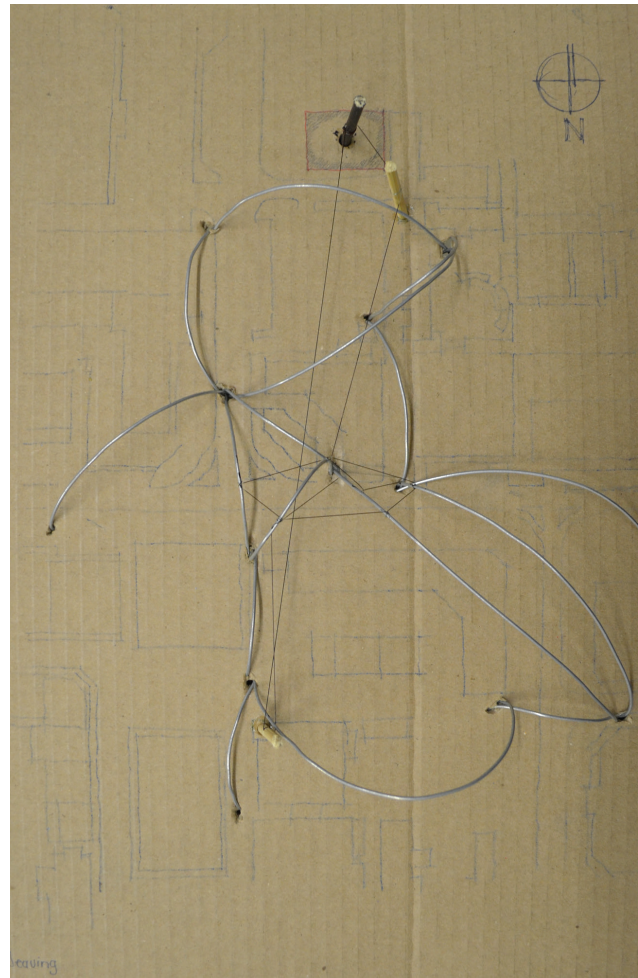
PART 4 EVALUATION AND REFLECTION

Part 4 serves as a platform to critically analyse the proposal in its separate components and eventually in its entirety. This will assist to highlight areas that might have been neglected and provide further insight on possible solutions.

1. URBAN PRECINCT

The urban design was initially organic in shape through the use of curved lines. This response to the African village layout seemed to work well within the contextual grid layout. Although it visually seemed pleasing and appropriate, it lacked the connection to the market and town of Katima Mulilo. Thus further design investigation and development was done,

leading to a much better integrated urban approach that used the existing ordering lines to generate the urban precinct around the market. The juxtaposition of these lines generated a more pertinent response that was embedded and could be used for the rest of the urban development around the town.

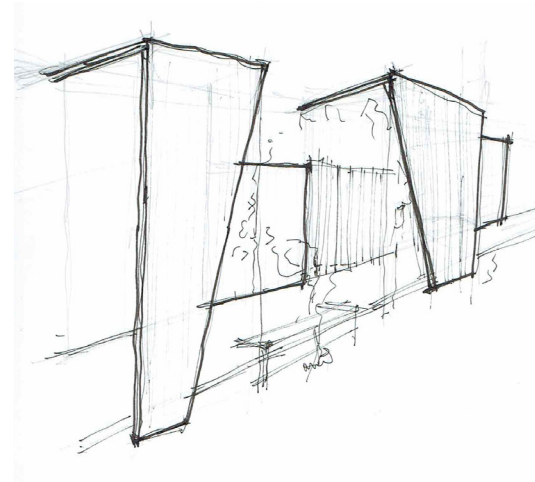
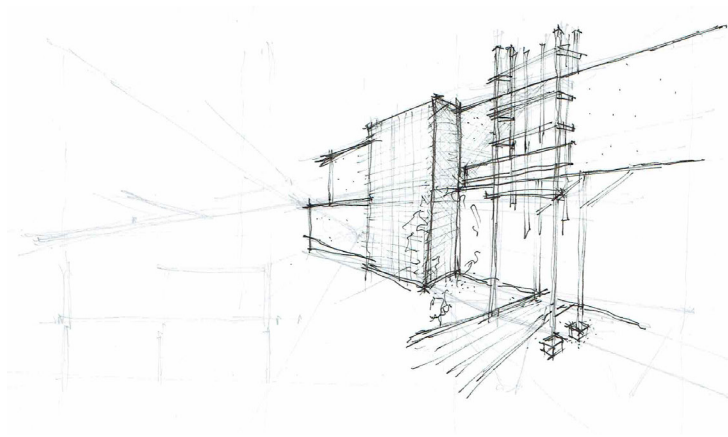


2. ARCHITECTURAL PROPOSAL

Materiality was the most challenging aspect to implement with this design proposal. Everything pointed to the use of locally available material, but the use, type and durability suggested otherwise. The architectonic composition thus became consistent with the era we are in but was heavily influenced and generated by 'what was'. On the basic level of what must be done, the relationship of the past and present is what architecture should strive to

achieve. Materiality becomes the medium that links these two and whilst the future is determined by way the building is used. If it is used as it was designed then we know that the idea worked and can be used as template but if it fails, then the next architect must acknowledge this and learn from 'what was' so as to suggest 'what can be'.





3. TECHNICAL RESOLUTION

It was realised that the lifting of the structure was indeed a solution that could be implemented as an answer to the lack of adequate storm water infrastructure. This contributed to the notion of questioning the current building technique evident in the town where the buildings are anchored firmly into the earth and as a result sometime ponding occurs at the entrances of these buildings.

The ground floor wall construction remained similar to the existing typical brick-mortar construction found in and around the contextual environment, but the first floor construction became a lighter composite wall fixed onto a structural steel grid determined by the urban factors on site much like the hut.

The roof design also called for further resolution as the design could be seen as being too elaborate and impractical.

With the above having been identified, the structural solution was revised and fine-tuned so as to address the shortcomings of the initial structural design. This process of back and forth has also been applied to the overall design synthesis and has been successful in positively highlighting and solving problem areas and as such it will also be implemented as part of the structural synthesis process.

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IMAGES:

Figure 4: Sanzila, G. 2015. *Retail space on Hage Geingob Street*. JPEG.

Figure 8: Maphill. 2011. *Blank Location Map of Namibia, gray outside*. JPEG. Available at: <http://www.maphill.com/namibia/location-maps/blank-map/gray-outside/> [Accessed May 2014]

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