

Proposal No.04

Lake zone

Tanzania

Subject	Children's Houses
Design	Elizabeth S Kisabo
Geography	Lake zone
Classes	2
Students	max. 80

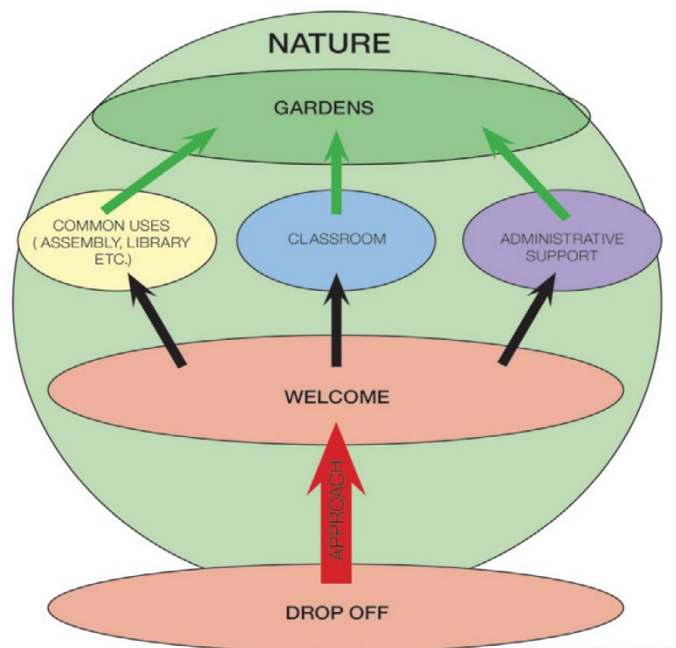


DESIGN STATEMENT

DESIGN PROPOSAL APPROACH

During the course of this design the driving factors was to provide Organic design staying true to material while creating interconnecting activities for Montessori children house.

Meeting the design requirements for Montessori house a model or flow of activities influenced most part of the design from the main entrance facing East, gathering area, classes, workshop to the outdoor activities.



Site Integration Diagram
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DESIGN BRIEF

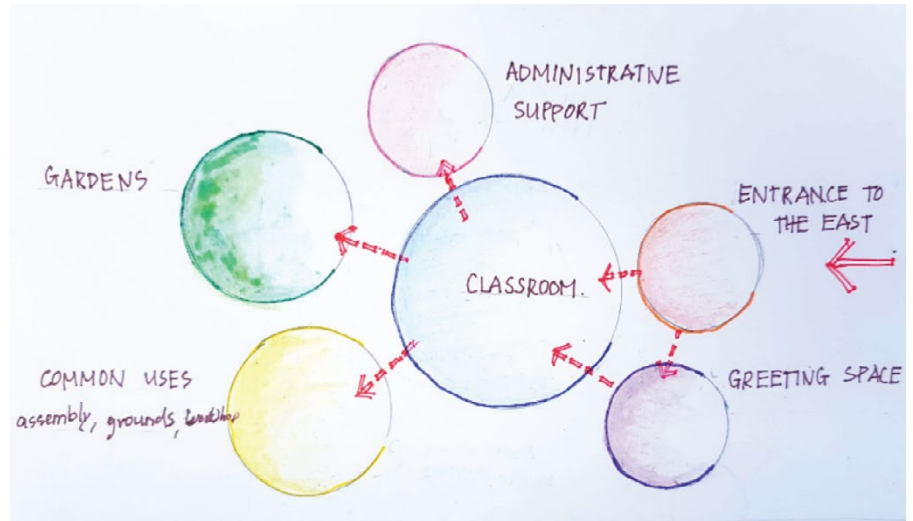
KAAYA MONTESSORI CHILDREN HOUSE is a proposed design project to serve as a children home for age 3-6. Through the cause of its design process it has followed the 28 design principles for Montessori learning spaces.

KAAYA is a Sukuma language to refer HOME, Sukuma one among the languages spoken in lake zone. This name was chosen to bring the sense of hospitality and safety to children coming to this children house.

Hierarchy of interconnected spaces adapted to children has been achieved through provision of spaces and their connectivity into series of events from the child arrival to how she/he use the spaces.

Front entrance has been placed to the east, gathering space before the classroom, working spaces of the flow indoor and outdoor activities located to the west such as gardening sports field and seating spaces.

DESIGN STATEMENT



Different heights for floor and ceiling has been provided through alteration of roof and floor each with different level and connected with ramps and few stairs.

Material used for design are locally found along the lake zone such as stones for foundation and column, interlocking blocks made of clay soil and cement to a proposed ratio ad, timber for windows and trusses, and sticks.



The half circle design of Kaaya has been twisted to face east side where louvered folding windows and louvered swing door has been provided to capture the early morning sun.

At the greeting space a lobby has been introduced to omit the need for corridor enabling children to move straight to and from classroom with addition of stairs to articulate space.

DESIGN STATEMENT



Avoidance of doors has been taken to consideration by not having internal doors but framed openings to pronounce entrances and exits. For outside walls louvered folding doors has been used, and for the main door is a swing timber door with glass opening at the middle to allow visual connectivity even when closed. door for children toilet is has a gap below provides privacy but at the same time allow small visual for assistance.



DESIGN STATEMENT



Space has been articulated by providing free standing columns to mark imaginary boundary between inside and outside.

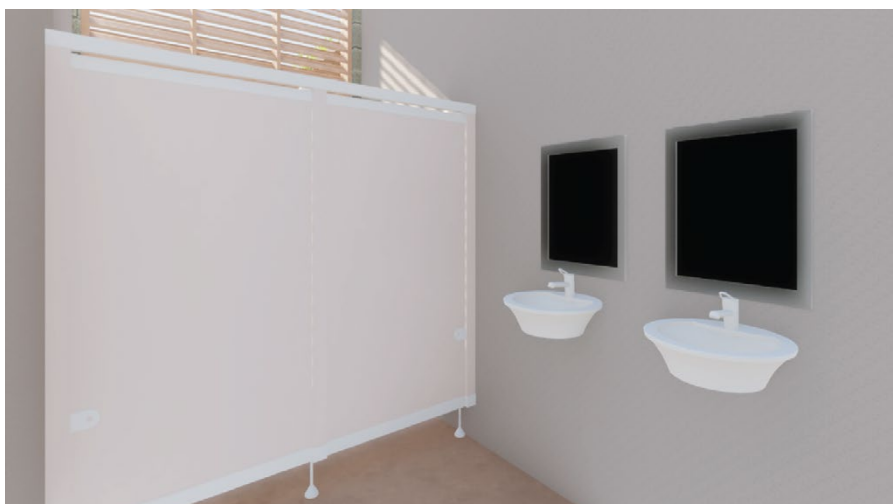
Floor is a primary working space in this design, where mats are used as a medium to seat on. chairs will be provided to be used by teachers when needed.

In consideration to children of all ages design has provide for child size utilities like kitchen tops, wash basin window sill height and all other facilities for easy usability.

Consideration of acoustical environment have been achieved by providing wider openings to the side which face gardens with natural sounds of birds and exclude noise by reducing opening sizes.

Walls have been used as storage where small shelves have been placed against it. All the storage are open and can be accessed by children easily. Display of learning material is also through the wall hanged and pinned.

DESIGN STATEMENT



To allow observation with out intrusion design has allow for visual connectivity from the teacher to different angles where children engage. like half doors for toilet and space articulations.

DESIGN STATEMENT



There has provision of a special chamber room like a cave be used by children whenever need special concentration to performing special task.

Window seal seat has been provided made of stone to provide the connection to the outdoors environment.

In favor for natural day light clear roofing sheets are proposed in some sections of the roofing sheet to illuminate the classrooms.

Water can be accessed by children from inside their classrooms and gathering space water sinks and outdoor from the underground water reserve through pumping.

DESIGN STATEMENT



Toilet have been provided and to be accessed from outside their classes with half doors to provide privacy why allowing adult supervision. Wall with holes to allow fresh air and visual to outside also the facade articulated to inspire continuous learning.

DESIGN STATEMENT



Front veranda and lobby have been provided to provide Transition space from classroom to the greeting space connecting with the front gardens.



Children size kitchen has been provided in each classroom and floor to be used as eating space.



Gathering space provided for indoor meeting designed with round stairs to provide different floor level and space for kids to hangout.

DESIGN STATEMENT

Series of events for Kaaya children house have been coordinated to flow and motivate active day through out the stay. While indoor children get vista views to gardens and playground.

A custom circle has been provided for walking in the line activity as a mode for Montessori teaching in each classroom.

Kaaya Montessori design provide for natural plants indoor and outside to invite birds and better micro climate. There is provision of flowerbeds along the balcony and indoor house plants are kept in small vessels on top of storage shelves. Animal concept is achieved by small fish kept in aquarium inside classes.

Vegetable garden has been provide to the western side of the compound to teach children practice also to grow their own food at Montessori home along with water pump.



Children workshop has been provided outdoor near classes to give more space and material workshop is indoor near teachers office.



Furniture provided are flexible and can be used for more than one purpose, example storage space the top layer can be used for house plant display also and can be shifted and moved to different locations according to the need.

DESIGN STATEMENT



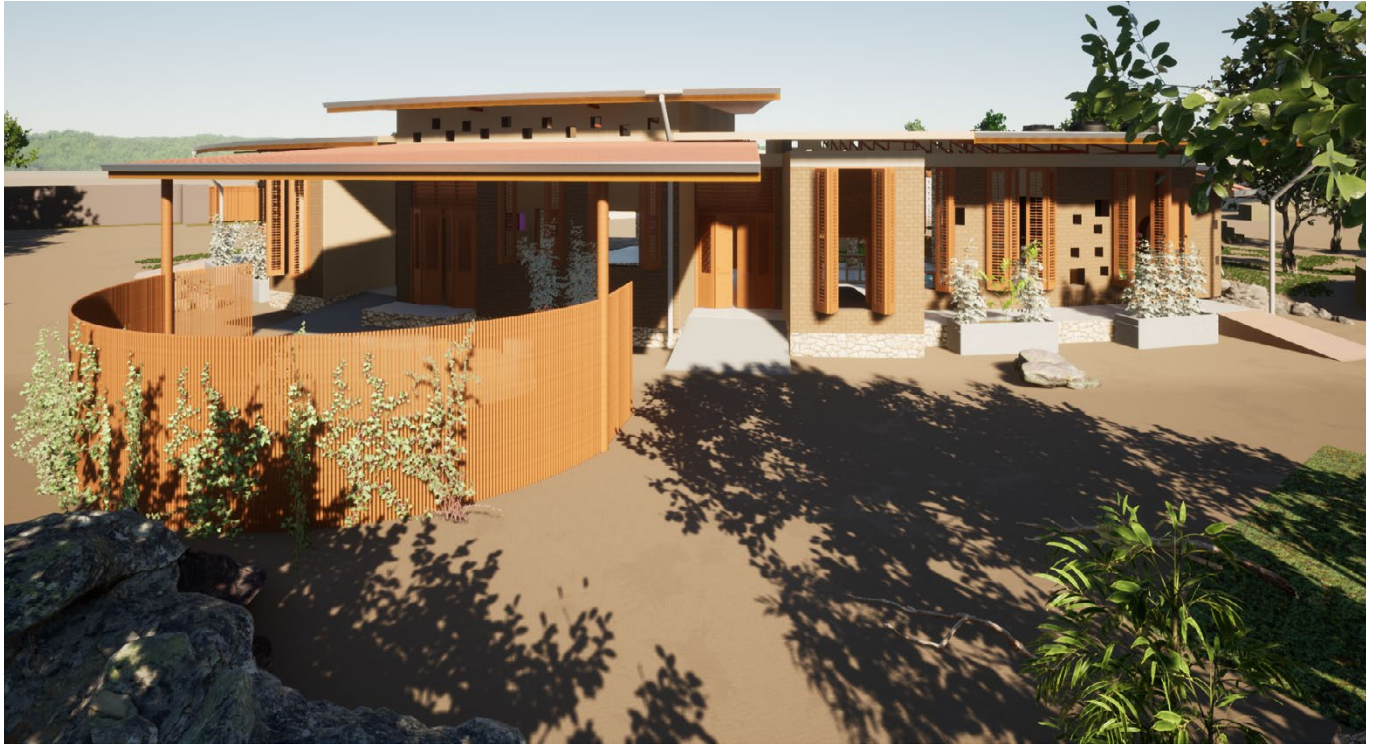
Light concept has been designed to allow natural ventilation from windows and roof as well as provision of spot light for special light based activity in each classroom.

COST CALCULATION

BUDGET COST ESTIMATE

ELEMETAL COST SUMMAR		TZS. AMOUNT
	A . BUILDING	
01	Substructure	19,247,465.50
02	Concrete Works (Beam & Slab)	10,692,338.40
03	Walls and Partitions (interlocking blocks + stone column)	12,210,750.00
04	Doors (Hardwood doors)	7,008,500.00
05	Windows (Hardwood Windows)	10,176,000.00
06	Roof works (Timber roofing + sheets)	11,514,500.00
07	External Wall Finishings (Painting to wall)	2,190,000.00
08	Floor Finishings (Sand +cement floor + floor tiles in Toilet)	4,362,500.00
09	Internal Wall Finishings (plaster, Painting + wall tiles in toilet)	7,045,000.00
	SUB-TOTAL	84,447,053.90
	B	
	BUILDING SERVICES - (PROVISIONAL)	
01	Electrical Installations	9,000,000.00
02	Plumbing Installations (Sanitary ware+ pipe works)	5,080,000.00
03	Plumbing Installations (Soak away pits + Septic tank+Manhole)	4,000,000.00
		18,080,000.00
	GRAND TOTAL	102,527,053
	EQUIVALENT TO	4,000,000.00

VISUALS OUTSIDE



VISUALS OUTSIDE

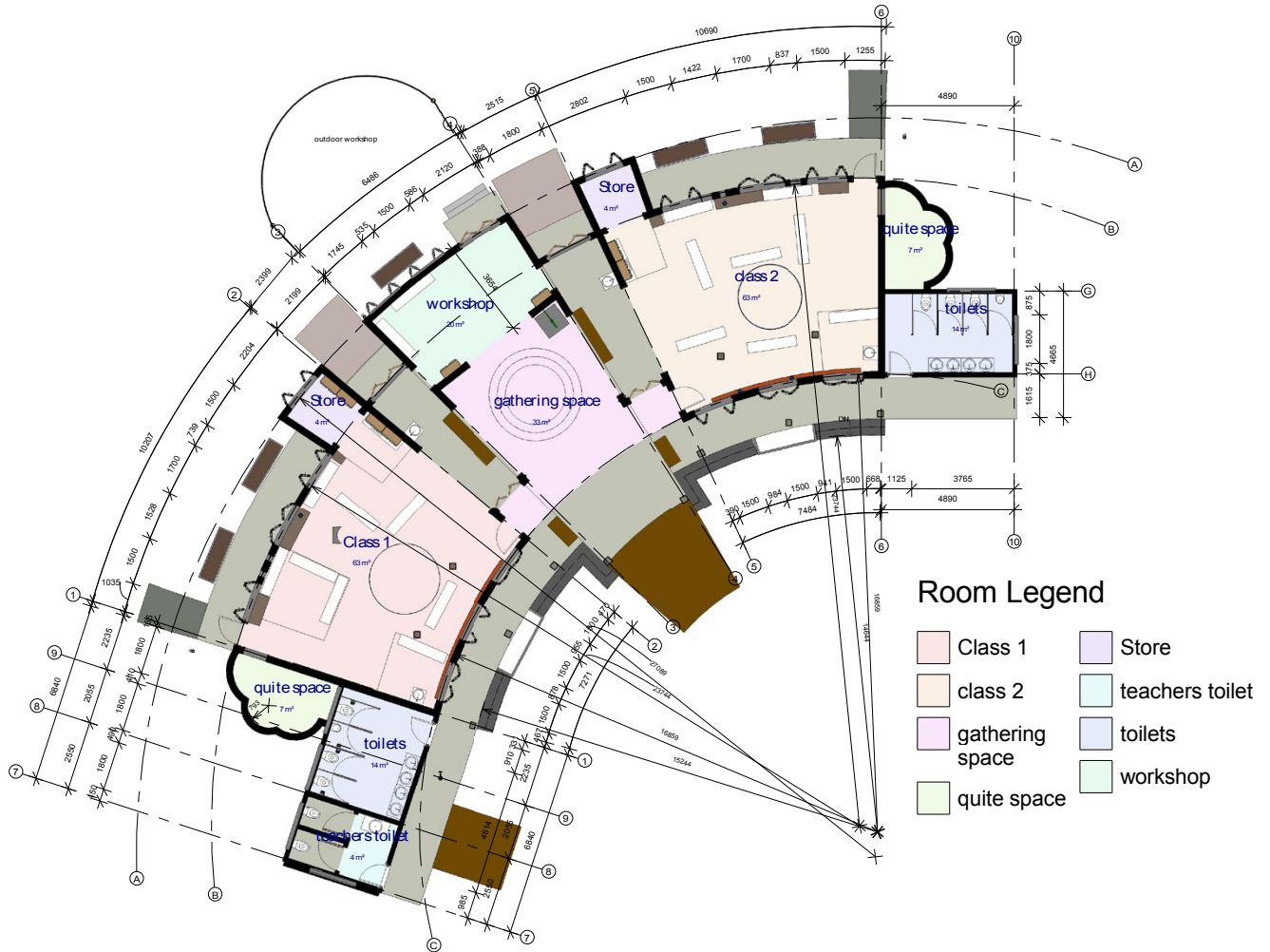


VISUALS INSIDE



PLANS

GROUND FLOOR PLAN

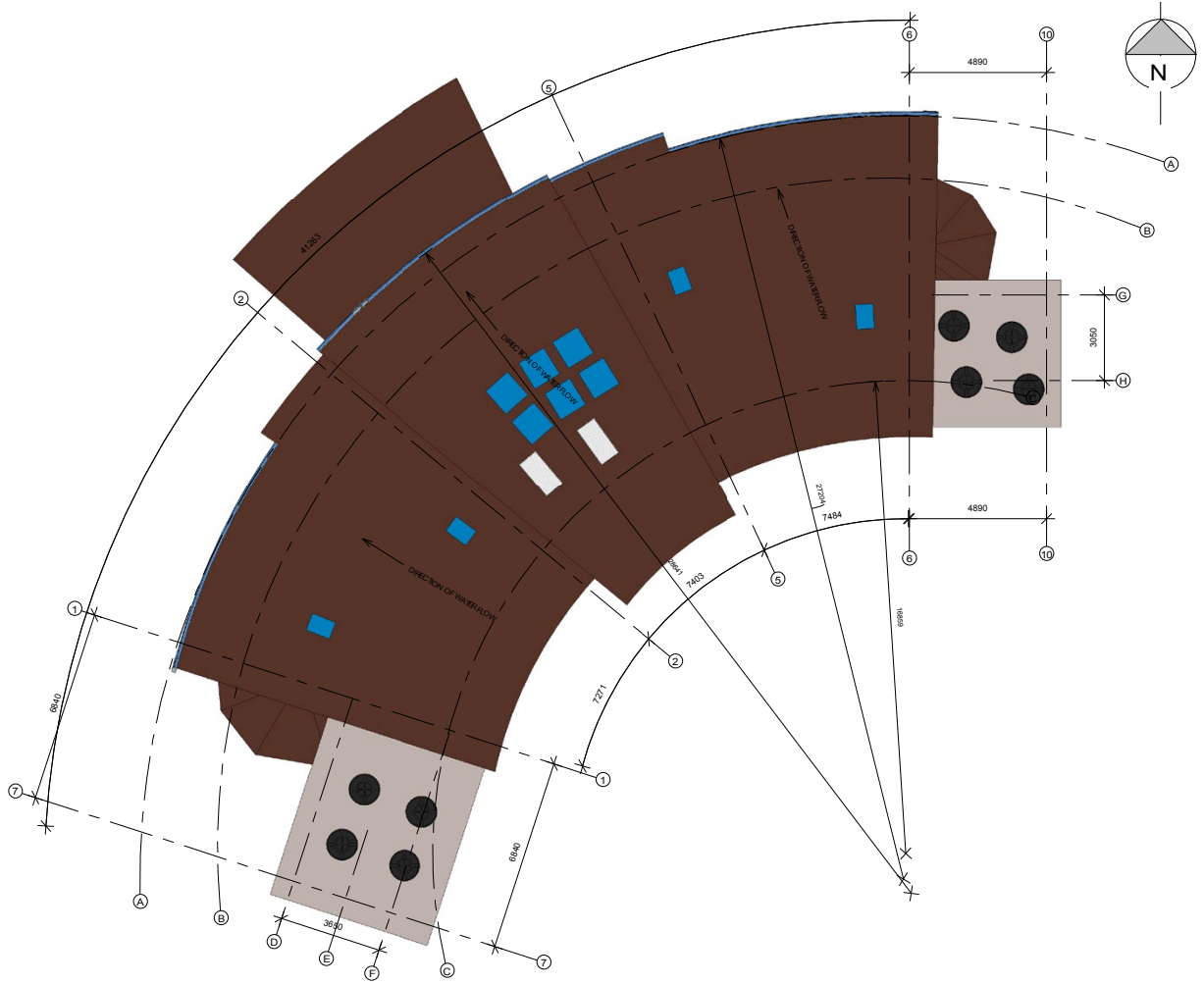


Room Legend

- | | |
|-----------------|-----------------|
| Class 1 | Store |
| class 2 | teachers toilet |
| gathering space | toilets |
| quite space | workshop |

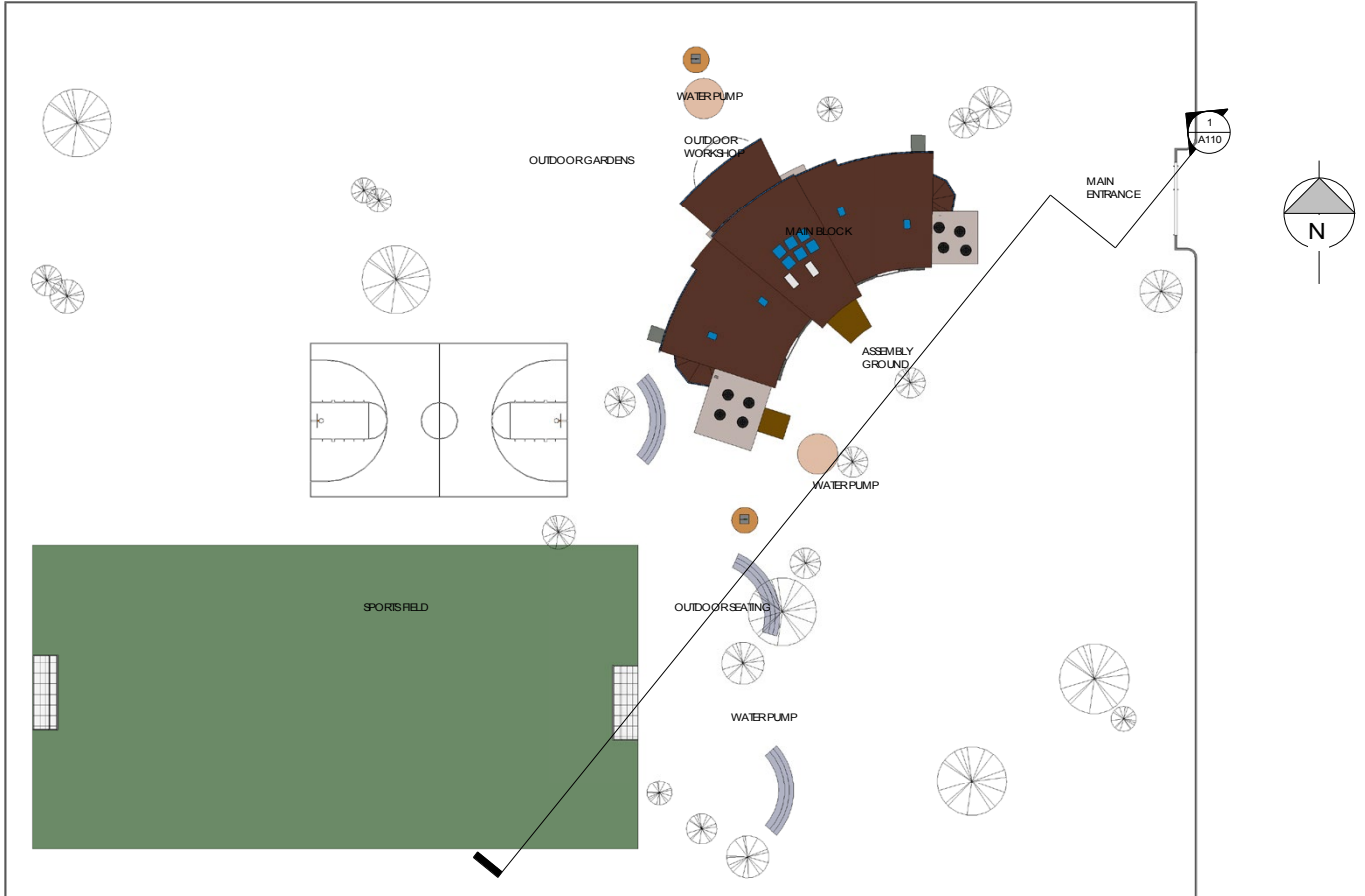
PLANS

ROOF PLAN



PLANS

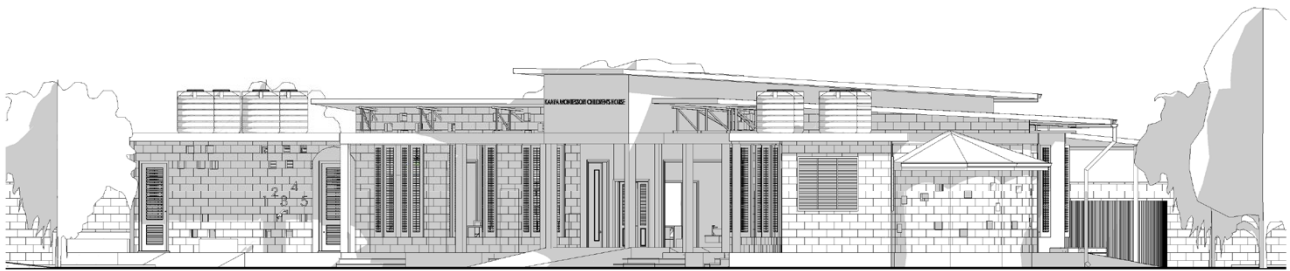
SITE



PLANS

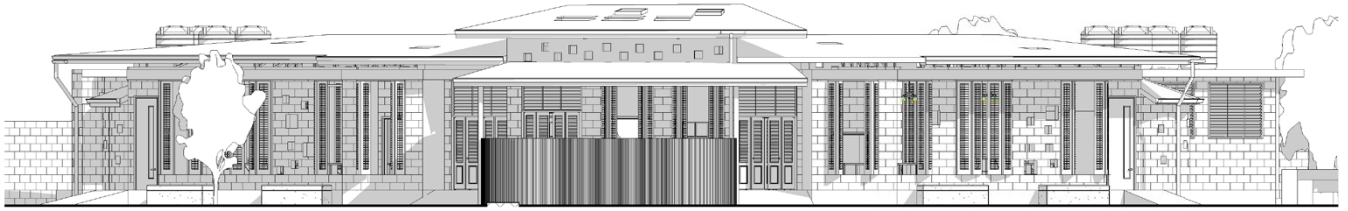


FRONT ELEVATION

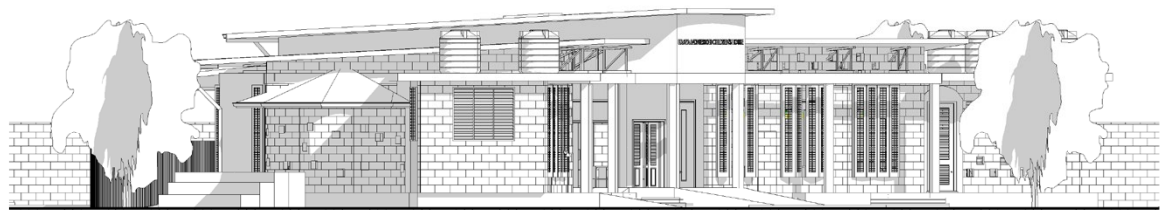


RIGHT ELEVATION

PLANS



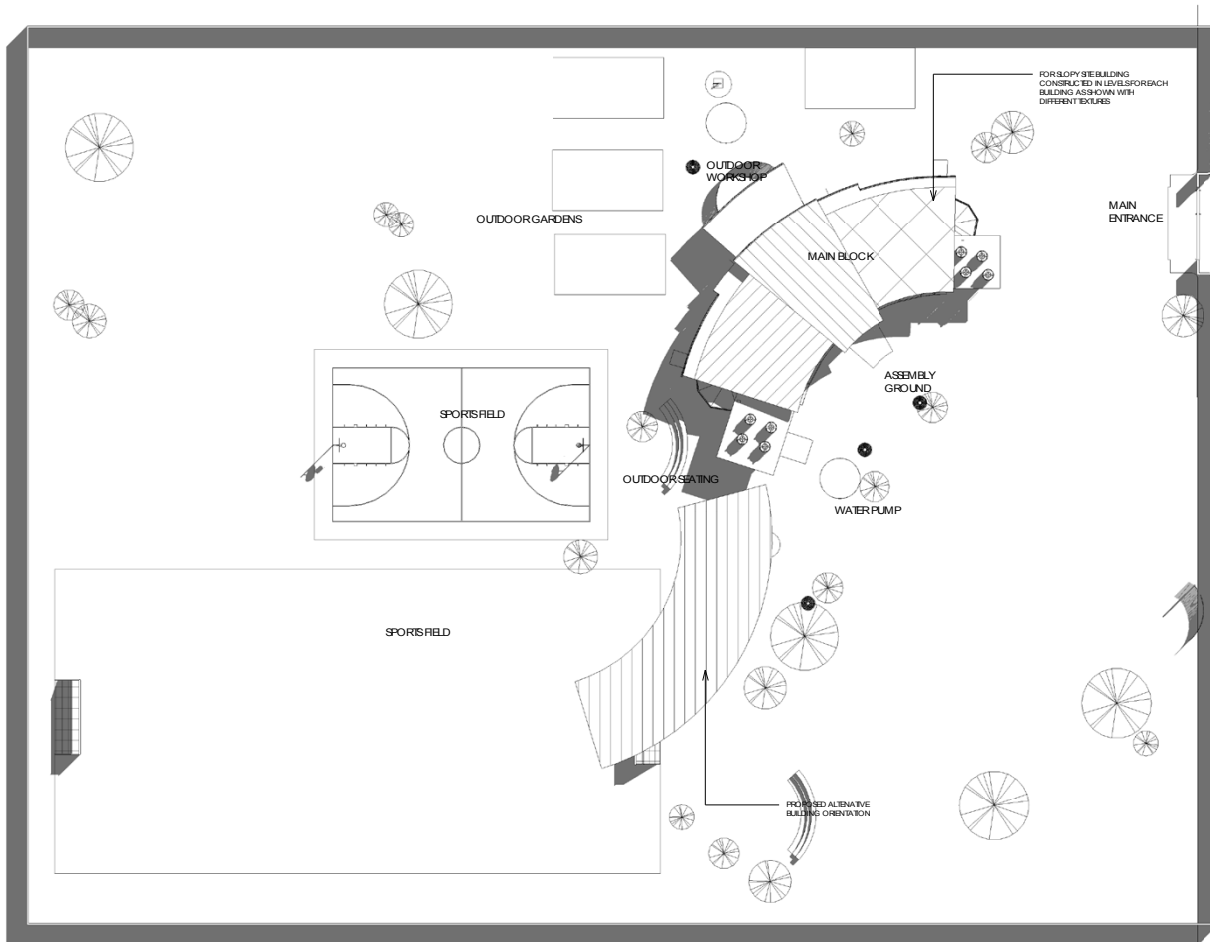
BACK ELEVATION



LEFT ELEVATION

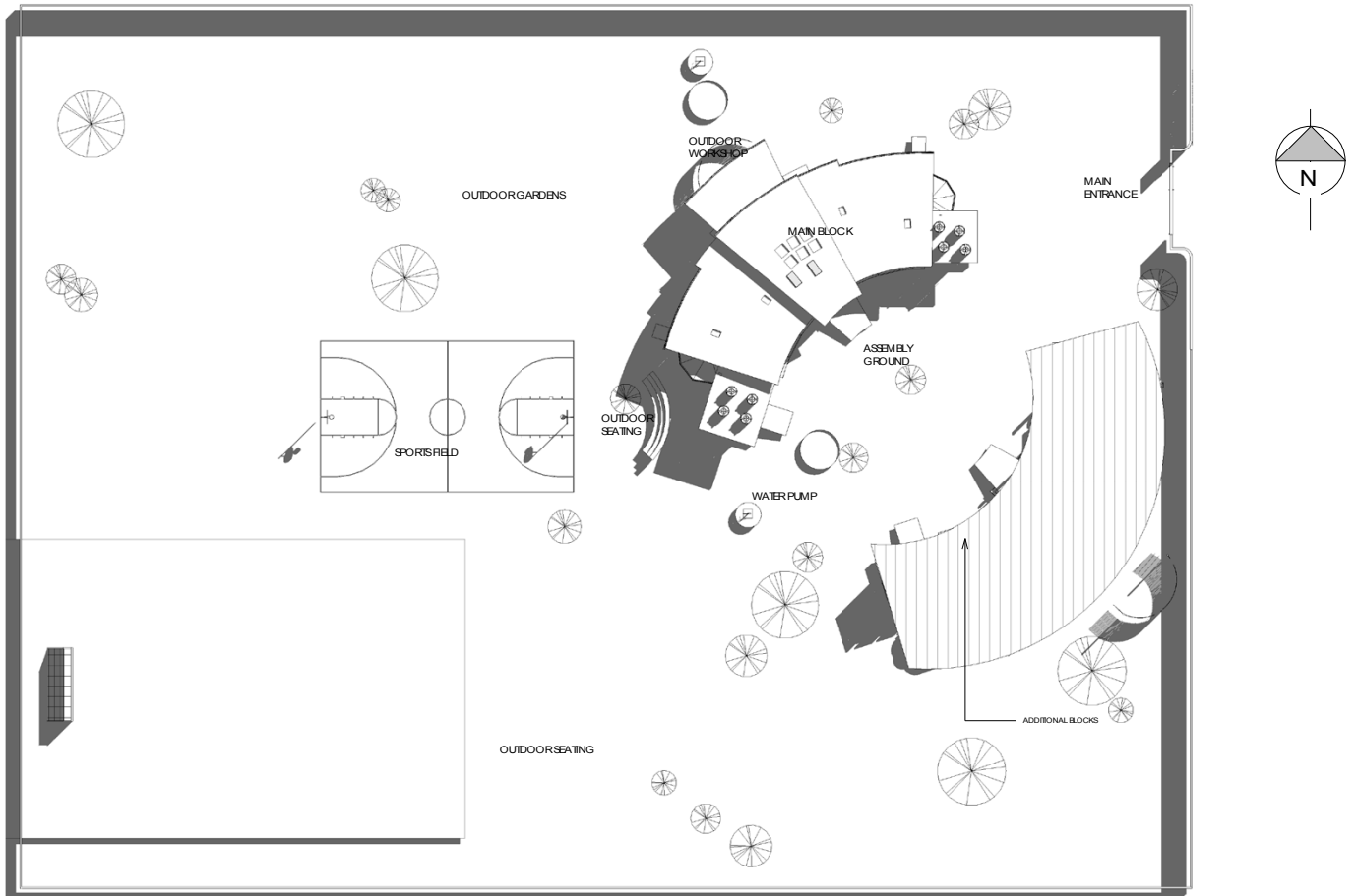
PLANS

SITE OPTION 2



PLANS

SITE OPTION 3



PLANS

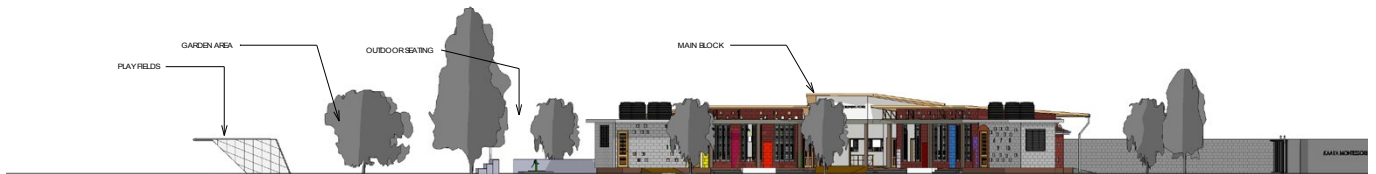


SECTION AA

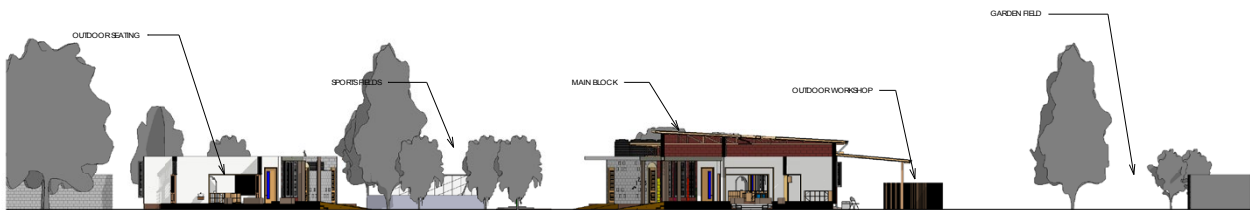


SECTION BB

PLANS



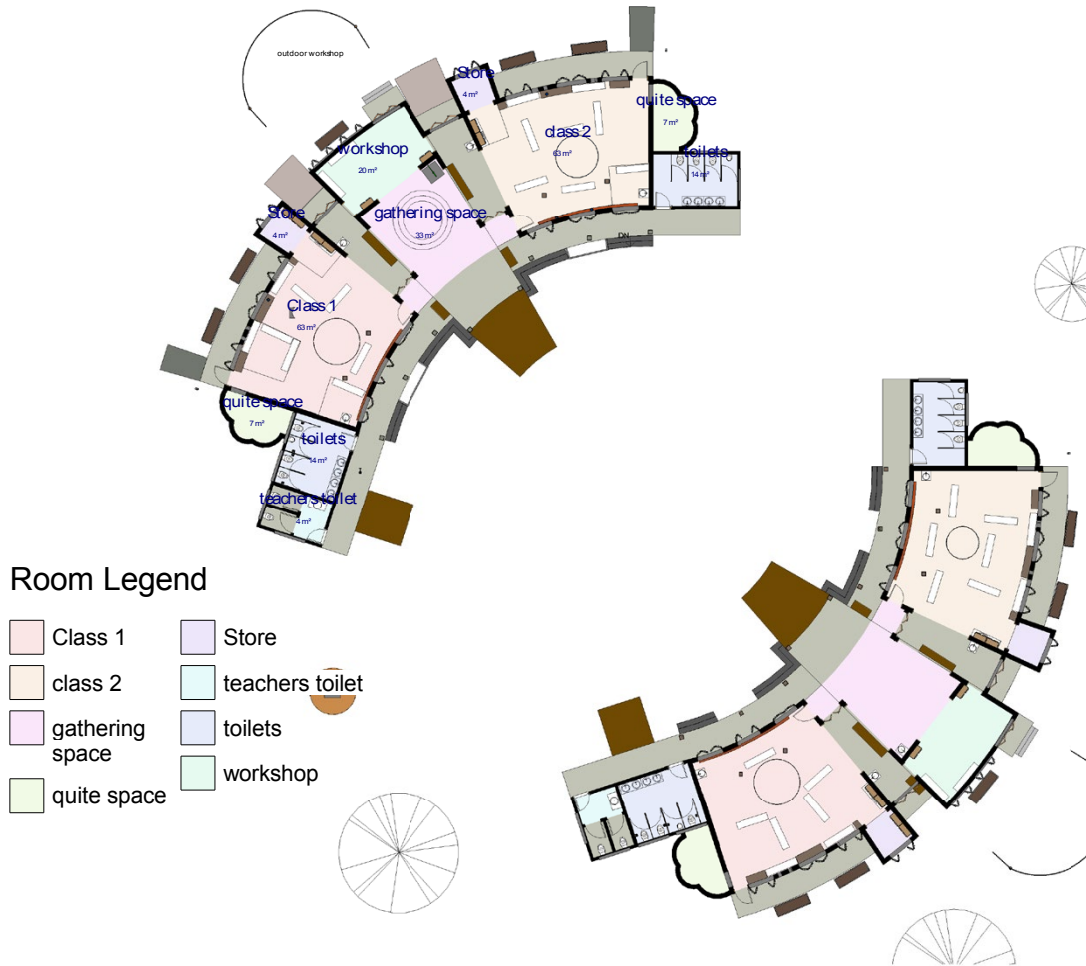
SITE SECTION TT



SITE SECTION PP

PLANS

EXTENSION PLAN



ABOUT

BIOGRAPHY

Am Elizabeth S Kisabo an assistant Architect for BAO construction company LTD. I have work on various projects such as commercial, residential, institution, hotels and resorts and alike which some valued at up to 800 million TZS. These projects have expanded my knowledge in designing skills and project management.

I have passion in digital world where am familiar with several soft wares which i use in implementing building design and visualization such software includes Revit, Enscape, Lumion Twin motion, photoshop, InDesign, 3ds max and i keep on learning more hence helps bring ideas to life with ease.

Nature inspires my daily designs and philosophy It helps me become more environmentally conscious and everyday work and life.

I believe in hard work, determination, constant learning, teamwork and giving back to society



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