STREETSCAPE DESIGN GUIDELINE
WITH THE ST. MARY’S NEIGHBORHOOD REVITALIZATION

Jiahe Bian, MLA

ST. MARY’S LANE
NEIGHBORHOOD
MASTER PLAN AND
STREETScape GUIDELINE

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Member: Dr. Susan Rodiek
Department of Architecture

Jiahe Bian, MLA 2016
Street Amenities

Jiahe Bian, MLA 2016
Goals and Design Program

- Safety
- Environmental
- Economic
- Social
- Health
COMMUNITY GARDEN MASTER PLAN FOR SCHOB NATURE PRESERVE

AWAKENING LOCAL INTEREST & INVESTIGATING FEASIBILITY

Chenqu Fu, MLA

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Member: Jeremy Merrill
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Member: Thomas W. Boutton
Department of Ecosystem Science and Management
COMMUNITY GARDEN IN SCHOB NATURE PRESERVE
Demonstration & Education

COMMUNICATION (stakeholders)
- City of CS
- College Hills
- Residents
- Texas A&M

RESEARCH
- COMMUNAL GARDEN
  - Gardening Work & Activity
  - Garden Management & Operation
  - Projection of Food Production
  - Garden Benefits
- OUTDOOR CLASSROOM
  - Urban Agriculture Education

PROGRAMMING MASTER PLAN
- Activity
- Space
- Budget

CHENQU FU, MLA 2016
Detail Design - Raised Bed Table

Width of wheelchair space
ADA Standards, 2010
PROGRAMMING
MASTER PLAN - A2
1 Gate & Signage
2 Residents Garden
3 Plots (3x10')
4 Raised Bed Table
5 Senior Garden
6 Learning Garden
7 Plots (10x10')
8 Activity Lawn
9 Bench
10 Plots (8x8')
11 Orchard
12 Fence
13 Farmers Market
14 Edible Flower Planting Bed
COMPREHENSIVE MASTER PLAN FOR THE UBRICA ONE BIOMEDICAL CAMPUS

DI YANG, MLA

COMMITTEE:
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Building One Health Communities of Life Science and Health Care Excellence in Africa
UBRICA One Biomedical Industrial City | Nakuru, Kenya

Di Yang, MLA 2016
People living in Kenya do not have adequate access to good quality healthcare that is affordable. They also lag behind in knowledge conversion in biomedicine. UBRICA aims to accomplish is to promote a phenomenal structure including patient care, teaching, research as well as innovation. UBRICA One is the first step as well as the most important step of this system. UBRICA Clinics are proposed to be built throughout Kenya, which will connected to the central hospital and data center located within UBRICA ONE master plan. Meanwhile, these clinics are also connected with each other. The collaborations between them will be facilitated through an innovative Information and Communication Technology (ICT) platform that will be established for the UBRICA system.
Site Location
- At the junction of Nakuru County, Kajiado County, Narok County
- 48 miles/1.5 hours drive from Nairobi (capital city with 3,138,369 population)
- 156 miles/2.5 hours drive from the famous Massai Mara National Reserve and the Naboisho Conservancy

Site Characteristic
- Served by a single frontage highway and proposed bypass
- Few developments, only 7 traditional homesteads on site
- Distinctive vegetation pattern formed by drainage from Mt. Suswa
- Very flat site, the slope of most part is less than 5%, seemingly limitless savanna
- Mild Climate with dry season and wet season every year. Stormwater catchment line goes from northwest to southeast
We started to gather information last summer, through intensive reading and researching. We tried to get to know this amazing land from social, economic and environmental perspective. On June 18th, 2015 we flew to Kenya and started our one-week visit to this magic land. During the visit, we met with different stakeholders of the project including local people on the ground. This trip gave us a real close chance to understand the local needs. It also helped us spot some major issues and challenges.

If Kenya were your home instead of The United States you would...

die 16.04 years sooner
be 5.5 times more likely to be unemployed
be 6.6 times more likely to die in infancy
be 10.2 times more likely to have HIV/AIDS
make 96.59% less money
spend 99.5% less money on health care
use 98.88% less electricity
consume 96.95% less oil
be 82.95% less likely to be in prison
be 73.68% more likely to be murdered
experience 5.56% less of a class divide
have 2.1 times more babies

The magic land are facing issues including...

**Human Aspect:**
- Lack of basic needs to food, water, shelter
- Poor education level and high rate of illiteracy rate
- Constant conflict between different tribes and between local people and developers

**Nature Aspect:**
- Poor soil condition
- Water pollution brought by other developments
- Lack of vegetation coverage

**Economy Aspect:**
- Lack of diversity in economic structure, mostly agriculture
- Lack of basic infrastructure
- Few developments around to lift the economy

**Animal Aspect:**
- Rapid decline of wildlife animals due to habitat destruction
- Limited access to medicine and water for livestock
- Illegal hunting

And it becomes a vicious circle...

Nature

Disturb

Disrupt

Society

Human

Economy
One Vision

To promote a self-sustaining One Health Community in Kenya, UBRICA One recognizes the interrelationships among human, animal, environment and economy. The master plan of the City will be developed under the four main overarching guiding principles:

- Healthy living for all – HUMAN
- Biological diversity and ecological integrity – ANIMAL
- Sustainable and low-impact development – ENVIRONMENT
- Economic and cultural development – ECONOMY

ONE can perfectly represent the vision of UBRICA ONE. It is the starting point for Africans to have access to good quality medical care. It will be a leading tourism and healthcare center with on stop facility and service. Complete medical industrial chain from research, education, and innovation to patient care.

One Health + Healthy Community = One Health Community
Enhancing one health of human, animal, environment and economy

Goals & Objectives 2

Umoja Concept

Moja: 1, one
Umoja: Unity

In local Swahili language, moja means one and umoja means unity.

1. Site Analysis

3. Zoning Scheme
MASTER PLAN

UBRICA ONE biomedical industrial city will be a place to heal, live, work, learn and play. Upon completion, the city will be able to accommodate over 50,000 residents in its 8 districts: Medical District, Academy & Research District, Mixed-Use District, Residential District, Urban Center District, Tourism District, Education District, Residential District, Agriculture District and Industrial District. The master plan is laid out with a density gradient from urban to suburban and rural district.
**Design Strategies - Animal**

- 40% Preserve As Green Space
- 14km Length of Wildlife Corridor
- 50~500m Width of Wildlife Corridor

**Design Strategies - Environment**

- Renewable Energy
  - Geothermal
  - Solar
  - Biomass
  - Wind

- LID Strategies
  - Green Roof
  - Rainwater Harvesting
  - Tree Box
  - Bioswale
  - Rain Garden
  - Vegetated Retention
  - Permeable Paving
  - Vegetated Detention
LANDSCAPES FOR LEARNING @ PEREZ ELEMENTARY SCHOOL

RE-IMAGED PLAYSCAPES, PEREZ ELEMENTARY
AUSTIN INDEPENDENT SCHOOL DISTRICT

Ixchel Granada, MLA
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LEGEND
1. Crosswalk + Entry
2. Trellis Walk
3. Acacia Trail
4. Music Station
5. Amphitheater
6. Blackland Prairie Walk
7. Trail Head
8. Monarch Loop Entry
9. Rain Gardens
10. Weaver Point
11. Butterfly Habitat
12. Texas Flyway
13. Mountain Range
14. Bamboo Forest
15. Climbing Park

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TEXAS A&M UNIVERSITY
DEPT. OF LANDSCAPE ARCHITECTURE & URBAN PLANNING
AMPHITHEATER

An amphitheater meets the needs for students, faculty and staff to meet their educational goals in a **quality outdoor setting**. Increased views to natural settings improve focus, and provide a relaxed environment to explore concepts further. **Ample seating and shade** are provided with **lush plantings** to stimulate the senses.
A .25 mile meandering trail leads users through the Monarch Discovery Loop representing the migratory path which takes the Monarch from its northern range in Canada/US to its wintering habitat in the mountains of Michoacán, Mexico.
Artificial turf mounds are playful in their size and shape, creating land form change in the height with flat-top surfaces for sitting, reading, or wondering. Surfaces meet critical fall height requirement with 1.5” thickness.
CLIMBING PARK

Rubberized surfaces are ideal for the Climbing Park which is equipped with climbing boulders and fallen log structures, creating land form change in the height.
The Landscapes for Learning design boasts a high diversity with over seventy-five species specified in the design. Native grasslands, dry creek beds, Texas Blackland Prairie, rain gardens, butterfly gardens, acacia groves and bamboo forests offer rich landscapes in form, color, texture, smells and experiences.