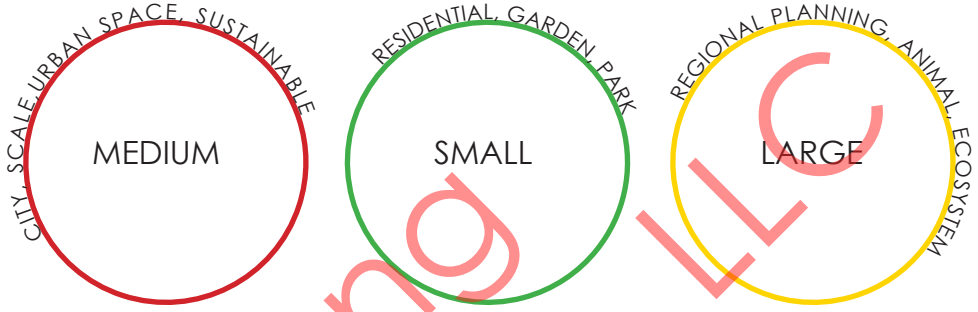
Portfolio

Xianpeng Liu

Route One Route Two Route Three



Welcome to this happy travel!

College Station

PROJECTS

Summer Program

1. RECONNECTING GATEWAY 2. DESIGN WITH METRICS

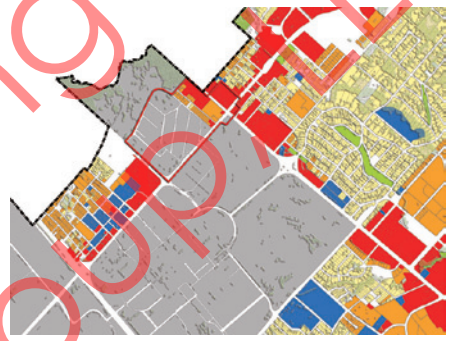
Description

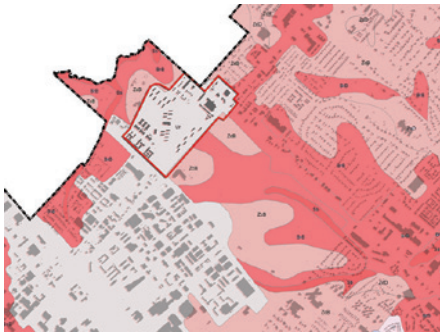
The summer program contains two phases in a same site. The site (The University Apartments) is close to the TAMU campus and neighboring commercial areas, which exhibit great potential for development.

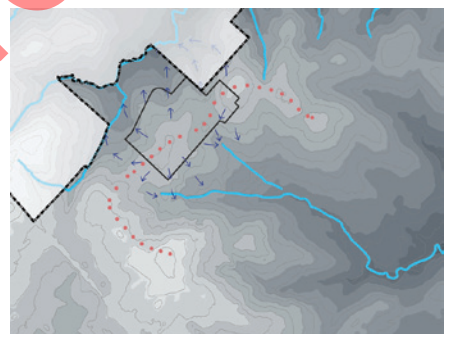
The first phase has five topics (Low Impact Neighborhood, Urban Ecologies, Watershed urbanism, Cultural+social Equity, and reconnective gateway). we group's topic is focused on Reconnecting Gateway to deal with issues about isolated patterns and over reliance on vehicle-oriented transportation. the second phase is to use metrics to evaluate these five topics's practical effect

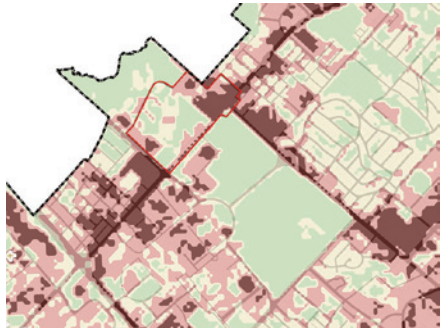
Left bottom:
The diagram of population composition in Byran and College Station. Teenages (18-24 age) are the target user group for our site.

Right:
Gis Analysis for site context, includes landuse, soil, hydrology, Aerial Photo, imperious surface, and green spaces from top to bottom





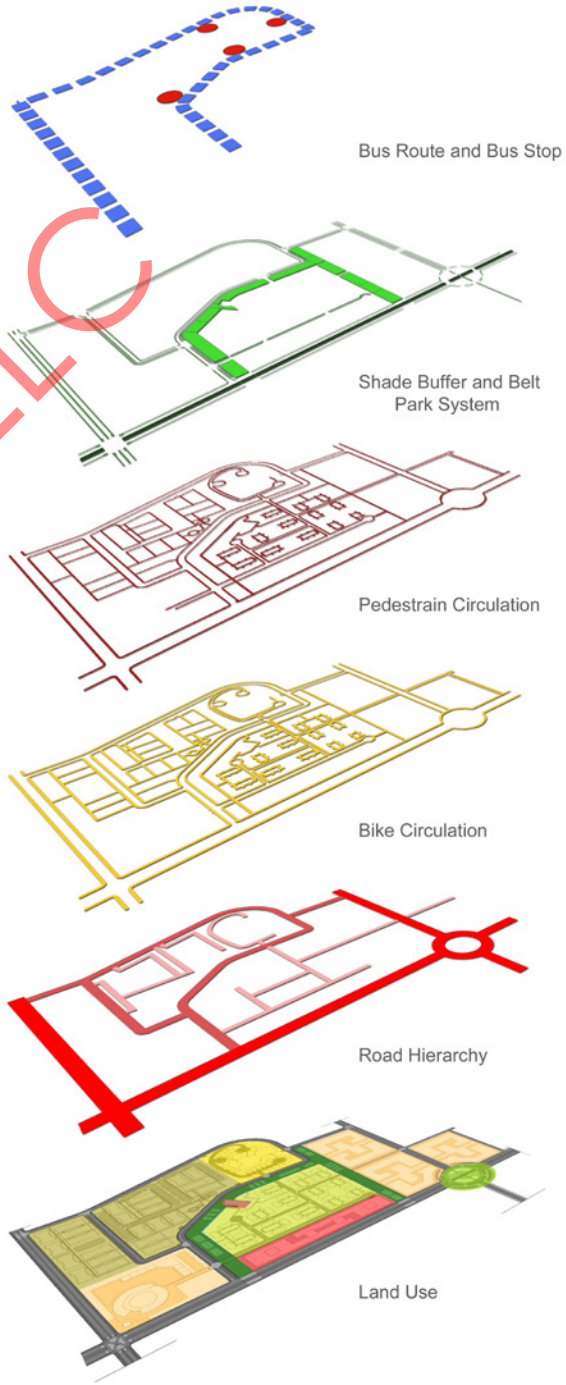




RECONNECTING GATEWAY

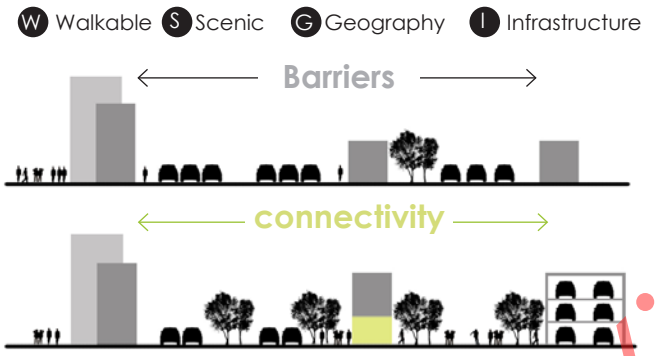
[**Project Type:** Urban Design]
[**Size:** 123 Acre]
[**Client:** Texas A&M University]
[**Course Works:** LAND 603 Professional 1]
[**Design Team:** Team [Coordination, Design]

Revitalize an abandoned place by discovering connective possibilities, nodes of activitiy, and multimodal opportunities



PROBLEMS AND STRATAGES

All barriers on site are taken into four categories, walkable, scenic, geography, and infrastructure. All of them bring along safty and security potential danger, and weak connection between campus and Univeristy Apartments. Minimizing their adverse influence by an efficient connectivity is the way to reconnect gateway and create a sense of place



Concept Plan

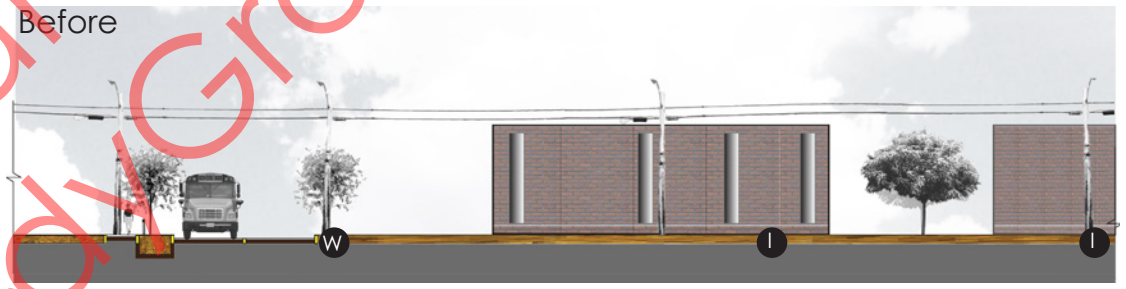
Before

A A'

After

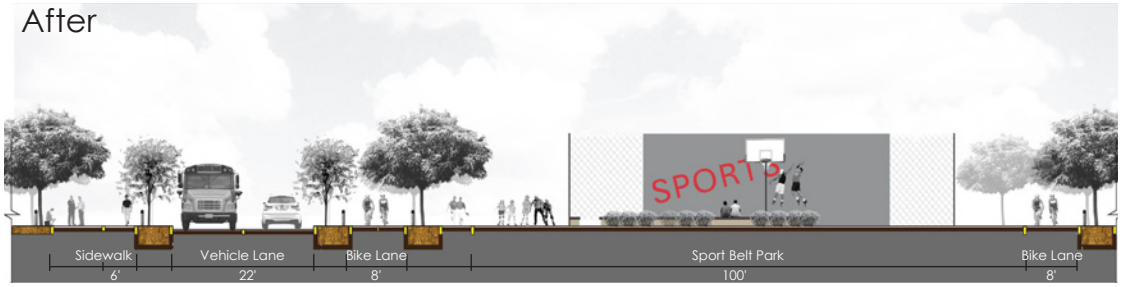
A A'

Before

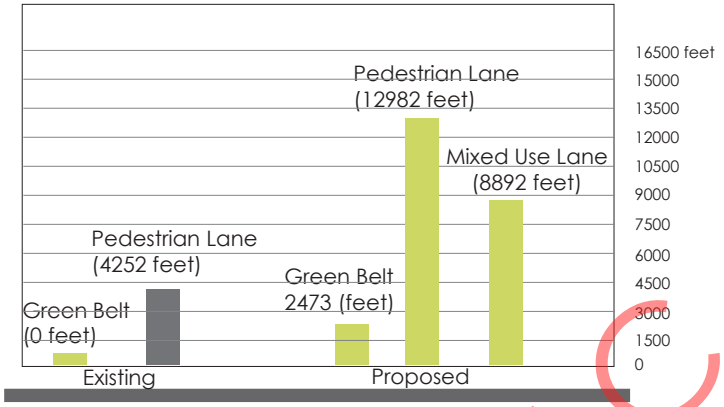


B B'

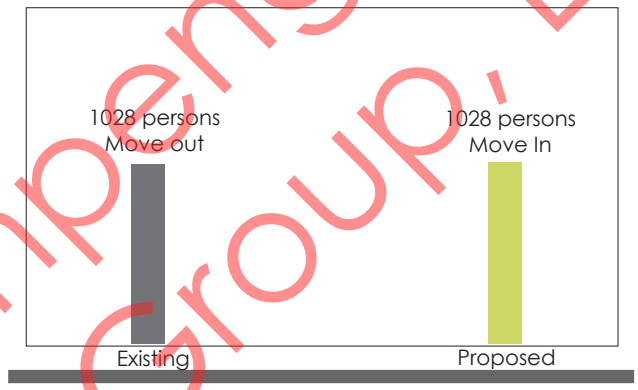
After



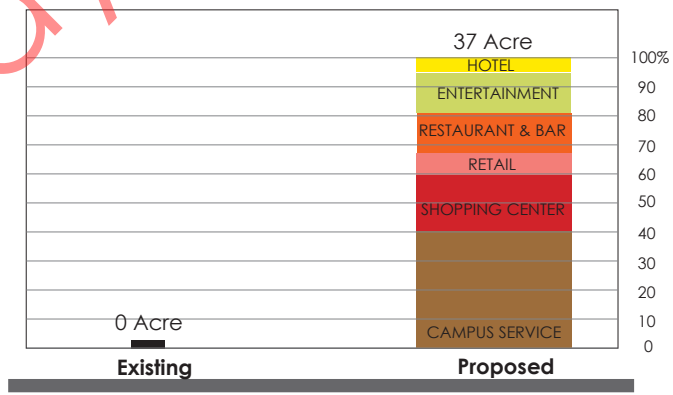
B B'



Infrastracture Construction
Phasing One



Residential Development
Phasing Two



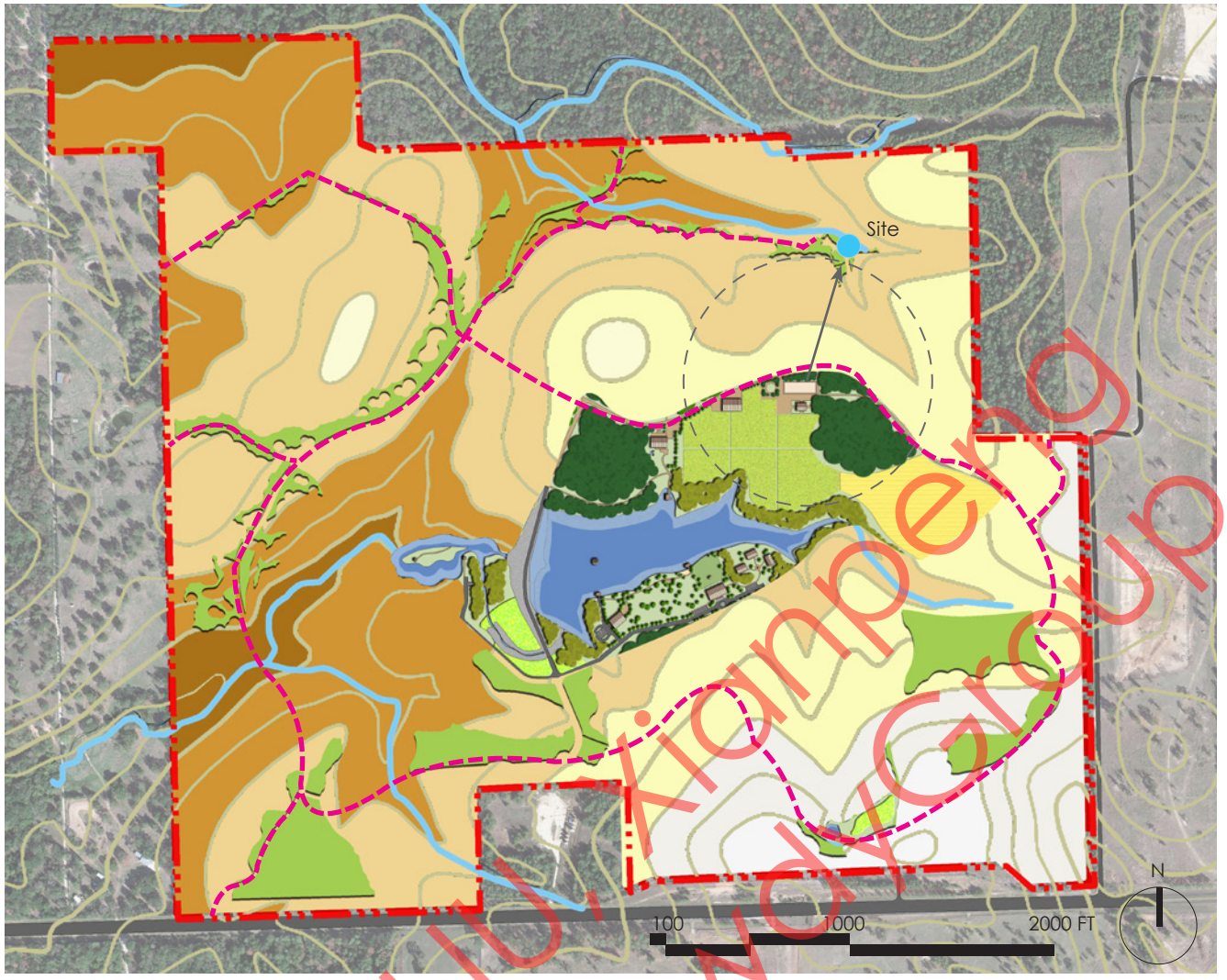
Commercial Development
Phasing Three

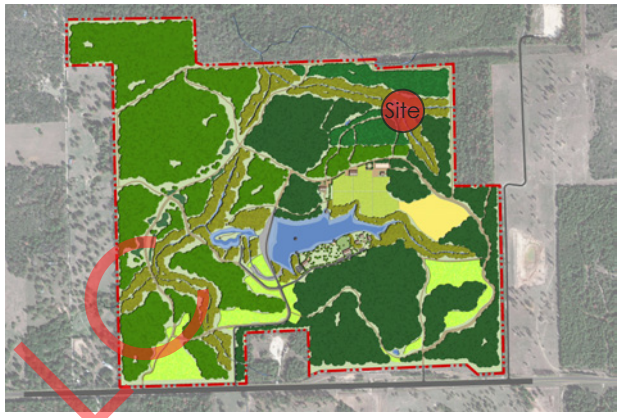
DEVELOPMENT PHASING

Infrastracture Construction is in purpose of building up pedestrian environment and gateway sense, and connecting fragmented wildlife patches

Residential Development is to provide houses to those people who used to live on site and prepare for next step of commercial development.

Commercial Development is to integrate site opportunity as a whole, serving campus students and faculties, as well as communities residents





LEGEND

- Site Boundary
- Deers Movement Routes
- Intermittent Stream
- Green Open Spaces
- Water Features
- 310-330 feet
- 290-310 feet
- 270-290 feet
- 240-270 feet
- 3.5 min Walking Distance
  From private house to deer food plots

DEER'S HOME

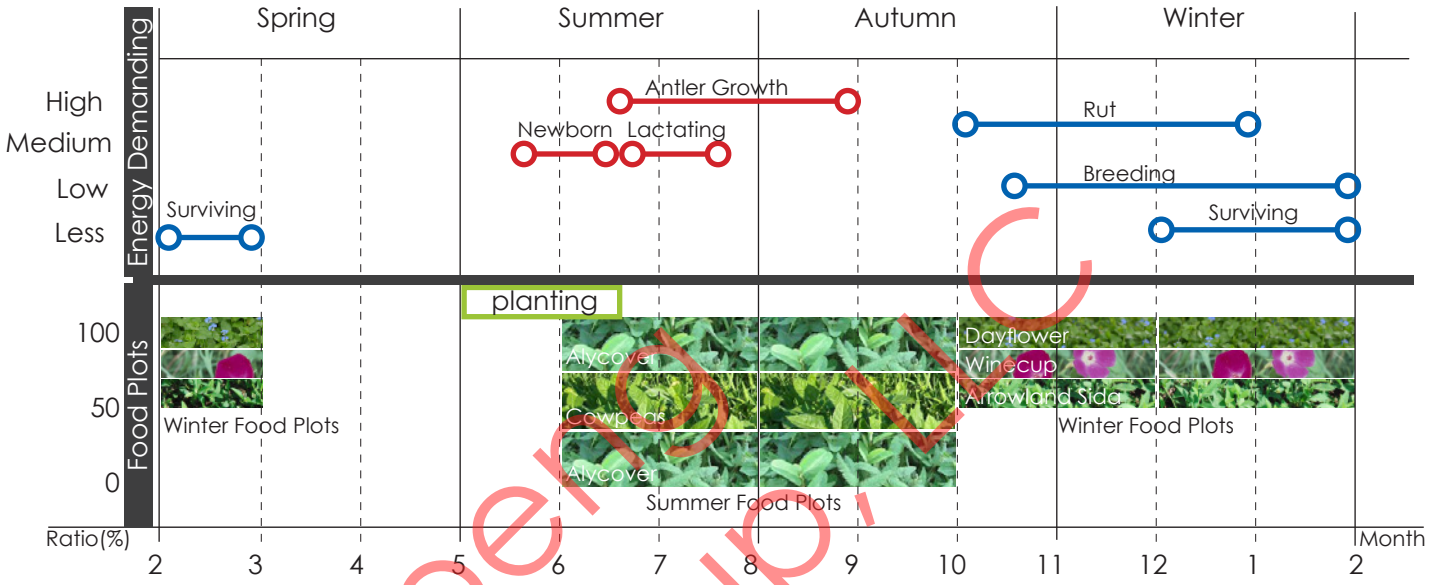
A sustainable management of the Whitetail Deer and its living environment

[**Project type:** Master Plan and Special
[**Size:** 371Acre]
[**Design Team:** Team Project]
[**Role of Mine:** Coordination, Design]
[**Client:** Private Family]

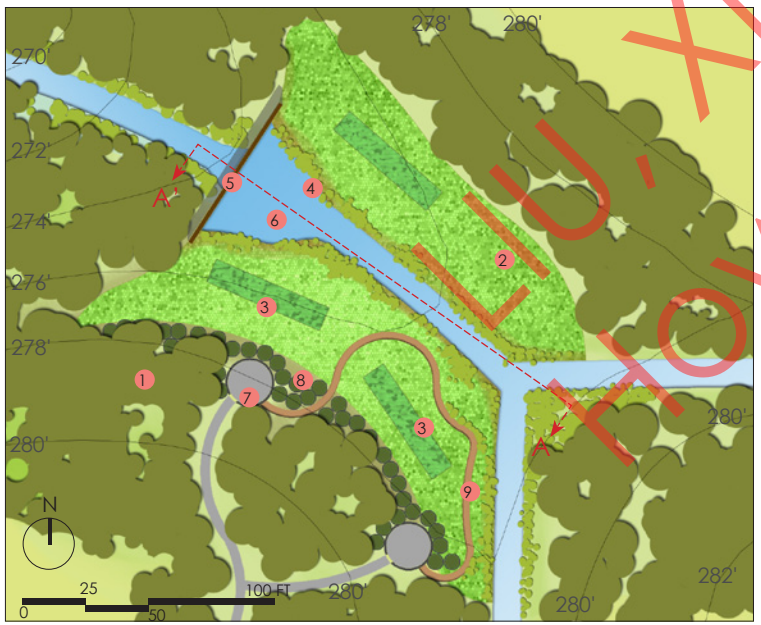
This design is to propose an environmental-firendly place for a private family and guests living, recreating, and interacting with nature. Wildlife Management is one topic for this design and it mainly focus on Deer Management. White-tailed deer are primarily browers on site. This Design will provide our clients oppurtunity to contact nature and wildlife without disturbing effect

Right:
Diagram shows types of winter food plots and Summer food plots, and their relations to deer annual activities

BOTTOM:
1. Deer food plots site plan (Proposed one acre)
2. Site sections showcase different season condition for Deer living environment. Water and food plots availability, and amount of sunshine is varied according to change of season



1. Existing Forest 2. Coastal Prairie Seed Mix 3. Food Plots
4. Wetland Edge 5. 1 foot High Check Dam 6. Pond
7. 20 foot diameter D.C.G Pods 8. Shrub Screen 9. D.C.G Walking Trails



Winter Condition

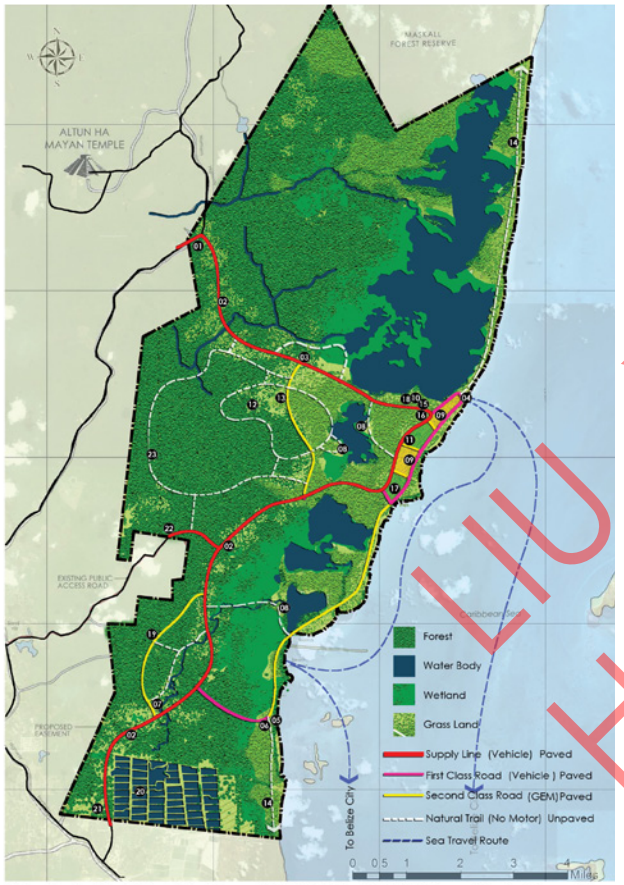
Summer Condition

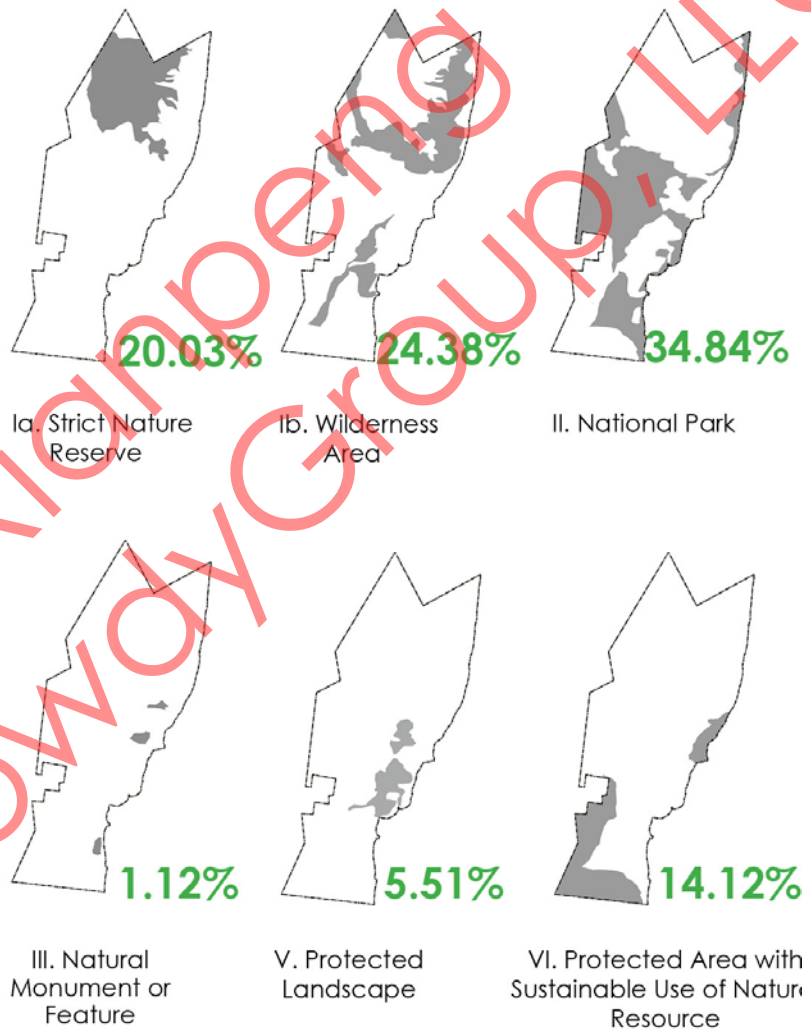
[**Project type:** Master Plan]
[**Size:** 42,828 Acres]
[**Location:** Belize District, Belize]
[**Course Works:** LAND 602]
[**Design Team:** Coordination, Design]
[**Client:** Belize Developer]

EVOLUTION OF LIFE STYLE

Self-reliance, Land History Expression, and low impact development

Mayan Plantation is located to the north of Belize City. The total area of the property is about 42,828 Acres. Based on the statement of Maya Plantation Limited, the client's envision is to develop a world's premier eco-resort destination and Living Laboratory for scientific use. the development is at a very low level.





PROTECTING and IOW IMPACT DEVELOPMENT PLAN

CATEGORY Ia: To protect bio-diversity and also possibly geological features. Human visitation, use and impacts are strictly controlled and limited

CATEGORY Ib: It retains natrual character and influence, withouth permanent or significant human habitation

CATEGORY II: To protect large-scale ecological processes, along with the complement of species and ecosystems.

CATEGORY III: To protect a specific natural monument, such as a landform, sea mount, submarine cavern, a cave or an ancient grove.

CATEGORY V: The interaction of people and nature over time has produced an area of distinct character with signicant ecological , biological, cultural and scenic value.

CATEGORY VI: To conserve ecosystems and habitats, together with associated cultural values and traditional natural resource management systems. Only Low-level non-industrial use of natural resources is allowed

1. Supply Line Way (To Research Center)
2. GEM Car Road Way
3. Supply Line Way (To Maya Temple)
4. Bird Observation Site
5. Commercial and Recreation Area
6. Resorts
7. Harbor
1. Swales
2. Wetlands
3. Mangroves
4. Beach and Sand Dune
5. prevailing wind direction
6. Preserved Forests

Phase One

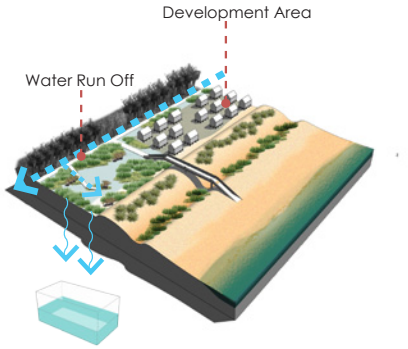
Sand Dune Protection

Design Point: Build a Bridge over existing sand dune to pretect existing vegetation

Phase Two

Stormwater Management

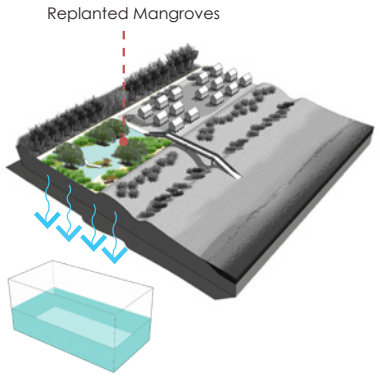
Design Point: Wetland and swales. Grow vegetation in the depression of the sand dune to stablize it

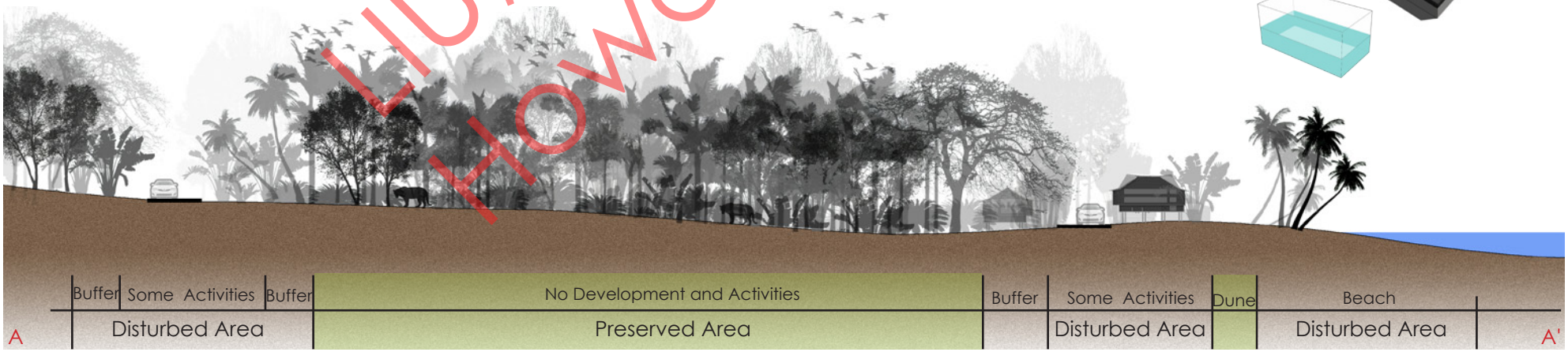


Phase Three

Mangroves Replanting

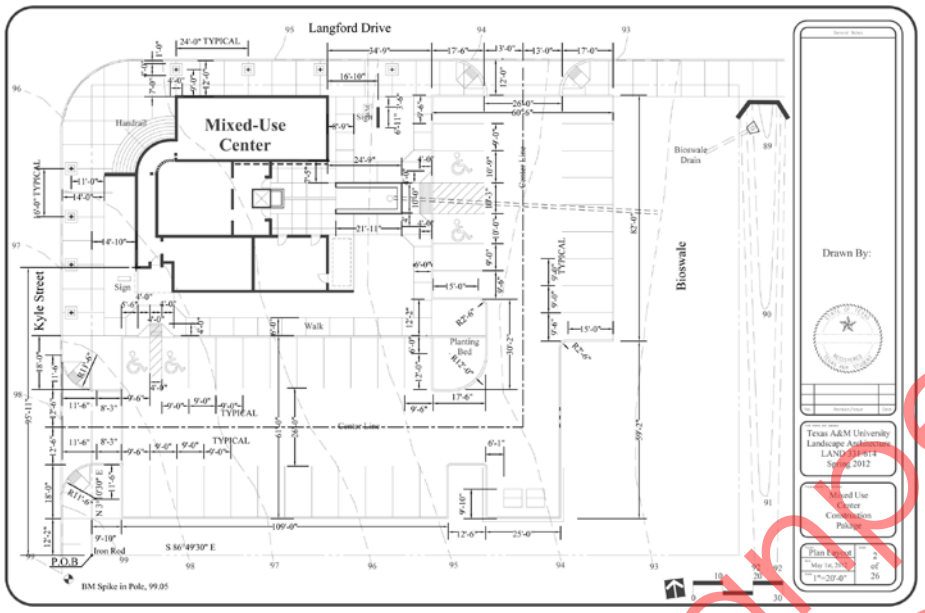
Design Point: Wetland is the ecologcial fundation. Increase water storage capability for the whole developed area



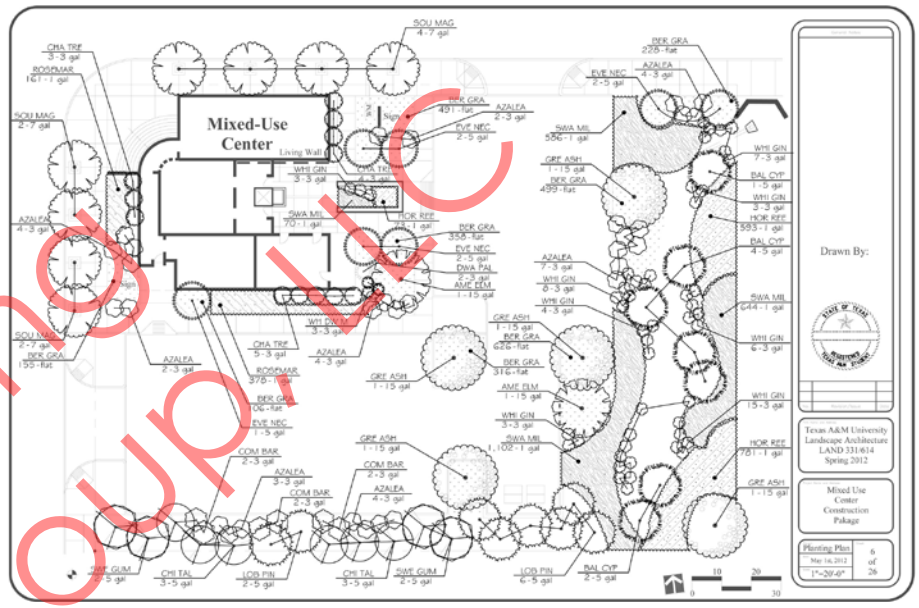


CONSTRUCTION DOCUMENT

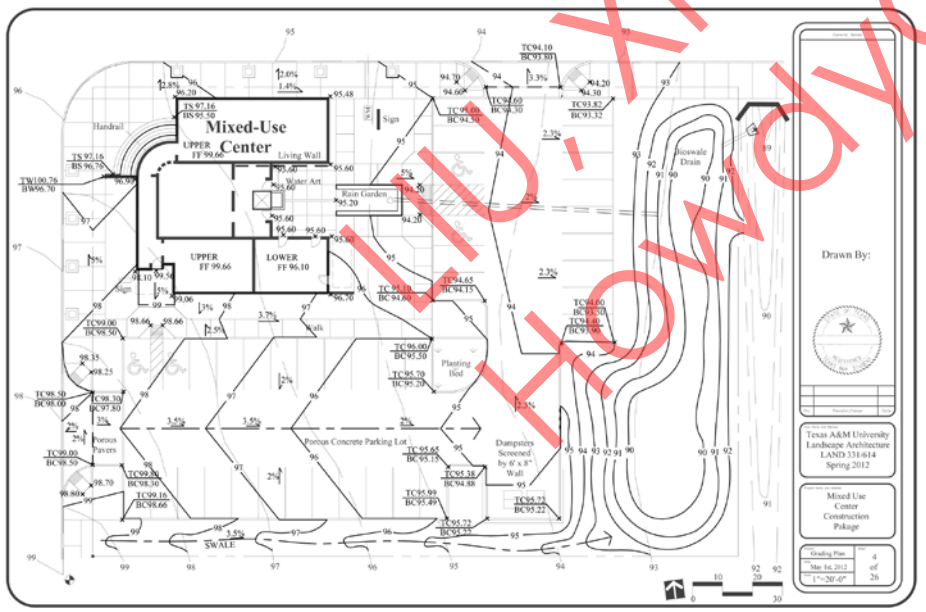
LAYOUT



PLANTING



GRADING



PLANT_SCHEDULE

TREES	QTY	COMMON NAME	BOTANICAL NAME	CONT	DETAIL
GRE ASH	5	Green Ash	Fraxinus pennsylvanica	15 gal	
SWE GUM	4	Sweet Gum	Liquidambar styraciflua	5 gal	
SOU MAG	8	Southern Magnolia	Magnolia grandiflora	7 gal	
LOB PIN	8	Loblolly Pine	Pinus taeda	5 gal	
CHI TAL	6	Chinese Tallow Tree	Sapium sebiferum	5 gal	
EVE NEC	7	Eve's Necklacepod	Sophora affinis	5 gal	
BAL CYP	7	Bald Cypress	Taxodium distichum	5 gal	
AME ELM	2	American Elm	Ulmus americana	15 gal	

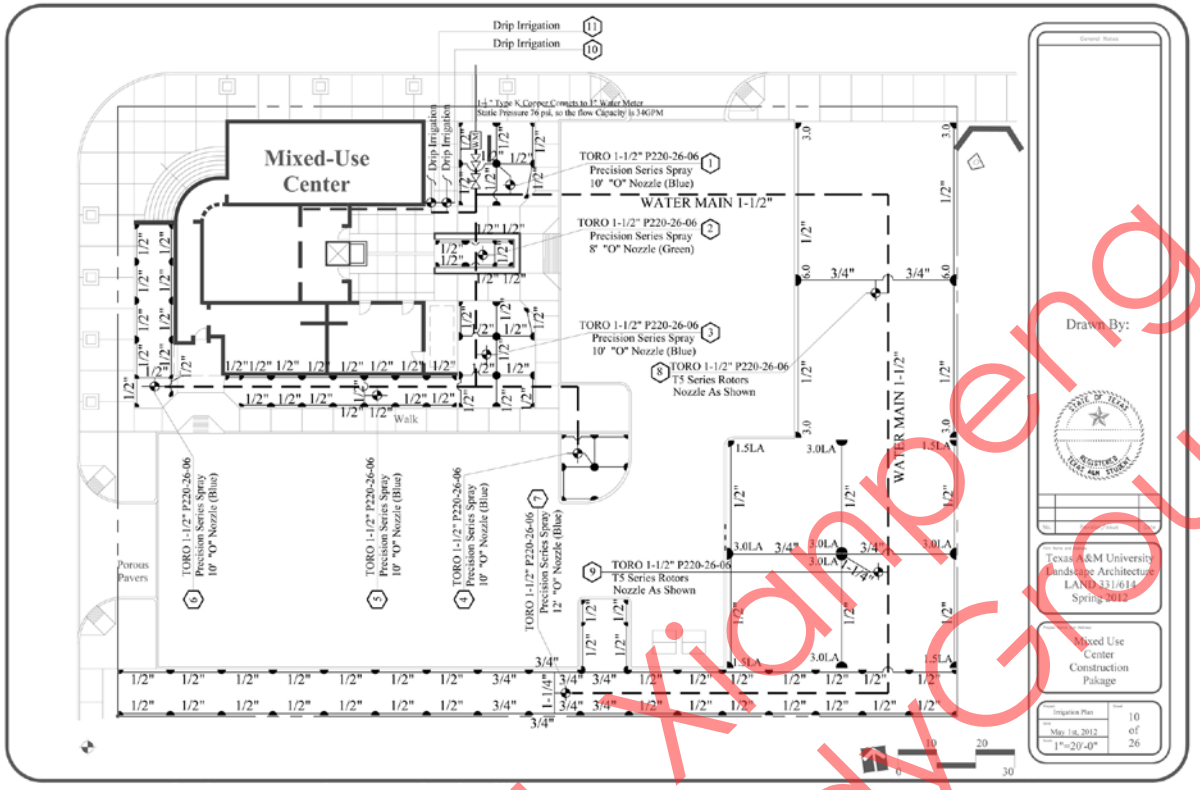
SHRUBS	QTY	COMMON NAME	BOTANICAL NAME	CONT	DETAIL
COM BAR	6	Common Barberry	Berberis aquifolium	3 gal	
WHI GIN	49	White Ginger	Hedychium coronanum	3 gal	
ILE VOM	6	Yaupon Holly	Ilex vomitoria	5 gal	
WH DW M	3	Wheeler's Dwarf Mock Orange	Pittosporum tobira 'Wheelers Dwarf'	3 gal	
AZALEA	30	Azalea	Rhododendron azalea	3 gal	
DWA PAL	12	Dwarf Palmetto	Sabal minor	3 gal	
CHA TRE	12	Chaste Tree	Vitex agnus-castus	3 gal	

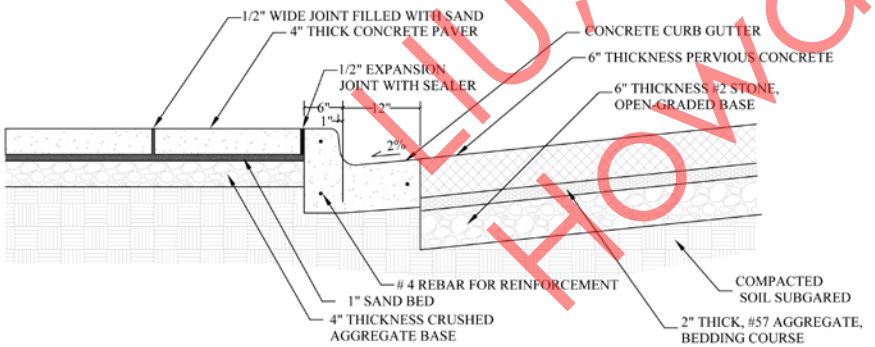
SHRUB AREAS	QTY	COMMON NAME	BOTANICAL NAME	CONT	DETAIL
	2,402	Swamp Milkweed	Asclepias incarnata	1 gal@ 12" oc	
	1,447	Horsetail Reed Grass	Equisetum hyemale	1 gal@ 12" oc	
	539	Rosemary	Rosmarinus officinalis	1 gal@ 12" oc	

GROUND COVERS	QTY	COMMON NAME	BOTANICAL NAME	CONT	DETAIL
	7,105	Bermuda Grass Ber Gra	Cynodon dactylon	flat @ 12" oc	
	4,373	Texas Lupine	Lupinus texensis	flat @ 12" oc	
	2,081	Rocky Point Ice Plant	Malephora lutea	flat @ 12" oc	
	1,562	Chubby Fingers	Sedum album 'Murale'	flat @ 12" oc	

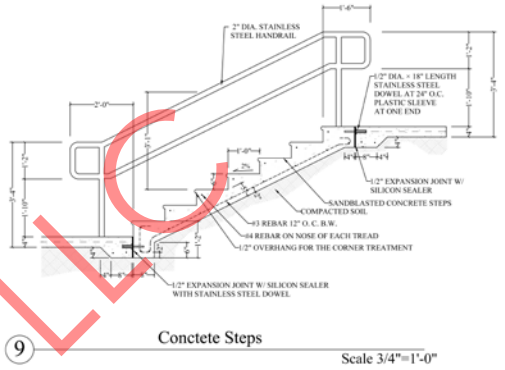
CONSTRUCTION DETAILS

IRRIGATION SYSTEM

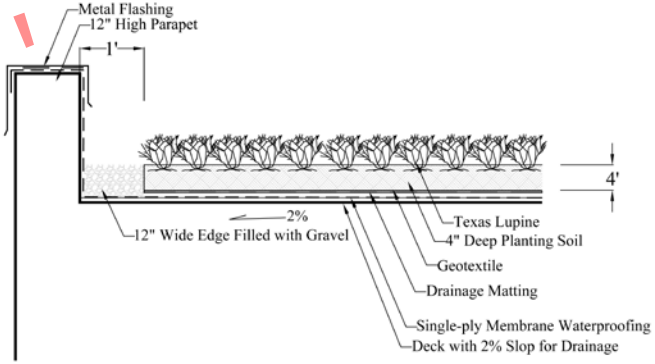




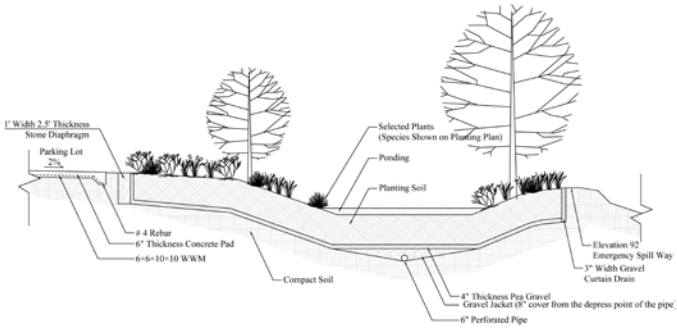
4 Curb and Gutter
Scale 1"=1'-0"



9 Conctete Steps
Scale 3/4"=1'-0"



14 Green Roof Parapet
Scale 3/4"=1'-0"



13 Bioretention
Scale 1"=4'-0"

INDEX

- **Master planning and Reconnecting Gateway** (123 acres, Teamwork on urban sprawl problem, site transportation analysis, and master plan)(Individual work on circulation and roads section, development phasing and design evaluation)(2012 Summer)

- **Marc and Jennifer Carroll Lake Reserve MJ 371 Project** (371 acres, Teamwork on a master plan for a private family recreational ranch with future commercial potential) (Individual work on wildlife management for habitats establishment, and accessibility to wildlife)(2012 fall)

- **Mayan Plantation Ecotourism Planning** (42, 828 acres, teamwork on Concept and Master Plan)(Individual on Disaster Analysis, Tour routes Plan with Circulation Section, Mangrove Restoration, and Sand Dune Protection)(2012 Spring)

Thank you for your traveling with me!

I am always on the way !