BANG - PA - IN PAPER FACTORY CREATIVE PARK
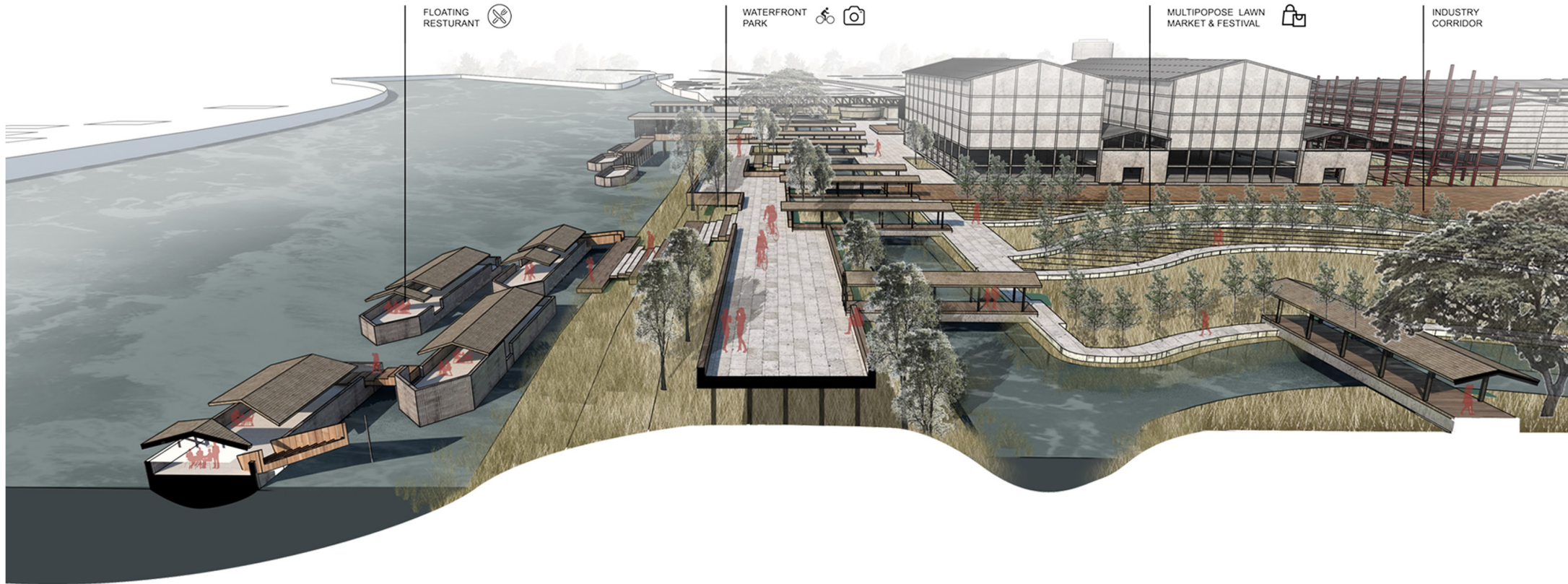
BANG-PA-IN PAPER FACTORY , BANG-PA-IN , AYUTTHAYA PROVINCE , THAILAND
AREA 525 RAI. (840,000 sq.m.)

FLOATING
RESTURANT

WATERFRONT
PARK

MULTIPOPOSE LAWN
MARKET & FESTIVAL

INDUSTRY
CORRIDOR

Country / City	Bangkok , Thailand
University / School	Kasetsart University
Academic year	5th year
Title of the project	Bang - Pa - In Paper Factory Creative Park
Authors	Natchapon Chalermluck

11

TECHNICAL DOSSIER

Title of the project	Bang - Pa - In Paper Factory Creative Park
Authors	Natchapon Chalermluck
Title of the course	Final graduate project
Academic year	5th year
Teaching Staff	Pudtan Chantarangkul
Department/Section/Program of belonging	
	Landscape Architecture Department, Faculty of Architecture
University/School	Kasetsart University

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Written statement, short description of the project in English, no more than 250 words

The Bang-Pa-In paper factory a state enterprise organization. It was an important historical icon of Thailand development in the 90s' and used to generate more than 500 jobs and also provide some sport recreation spaces for local communities. Since the factory has been losing their profit for more than 40 years and left abandon for the most part of the factory. This thesis proposed to redesign and renovate this place to be a creative park to revitalize the place and generate enough profit to be able to run their business to a new direction with new partners. Focusing on the possible potentials of the site, land restoration from polluted soil from paper making processes, and rapid growth of the Ayuthaya city. The site is planned to divide into four phases and to develop into two main zones as follows:

1.Creative zone, it is renovated from existing factory structures to be retail zone, art shops, galleries, exhibition halls, and flexible creative spaces managed for all year events.

2.Public park zone, it is a recreation area for dining on the riverside restaurant, strolling along the river, fishing, learning about local people way of life and river bank ecosystems, playing sports, and learn about phytoremediation.

The design concept starts with the main axis of sequencing perception to create a story telling of the paper and the factory from the past to future. Chao-Praya river represents important of water transportation in the past through series of installation arts inspired by paper.
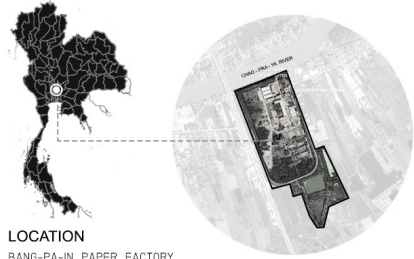
CLIMATE CHANGE AGAIN

11th International Biennial Landscape Barcelona

Barcelona September 2020

SCHOOL PRIZE

BANG - PA - IN PAPER FACTORY CREATIVE PARK
Land restoration and Reconnect site to community

The Bang-Pa-In paper factory a state enterprise organization. It was an important historical icon of Thailand development in the 90s' and used to generate more than 500 jobs and also provide some sport recreation spaces for local communities. Since the factory has been losing their profit for more than 40 years and left abandon for the most part of the factory. This thesis proposed to redesign and renovate this place to be a creative park to revitalize the place and generate enough profit to be able to run their business to a new direction with new partners.

LOCATION
BANG-PA-IN PAPER FACTORY
BANG KA SAN BANG-PA-IN .
AYUTTHAYA , THAILAND / AREA 525 RAI.
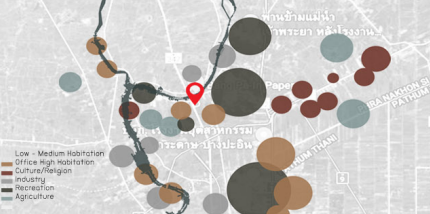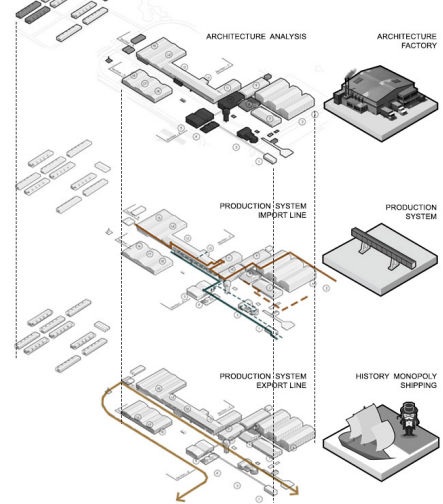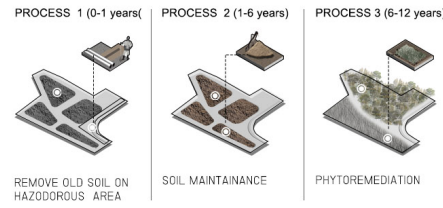
INTRODUCE
OWNER
REAL ESTATE
BANG-PA-IN
POLICY
TCDC

SITE EXISTING
OPERATE
LEFT OVER SPACE
HAZODOROUS ZONE

SITE ANALYSIS
CIRCULATION
Bang Pho
Bang pa in
Khong Phut So
Chong Rok Noi
NaVaNaKorn

Train Station
Port
MAIN ROAD 1
MAIN ROAD 2
SUB ROAD
TRAIN LINE

LAND USE
Low - Medium Habitation
Office High Habitation
Culture/Religion
Recreation
Industry
Open Space
Agriculture

TARGET LOCATION
Bong-pa-in Palace
Koh Kood Cultural Center
Bong Soi Water Market
Bong Soi Cultural center

MAIN TARGET
VILLAGE COMMUNITY
UNIVERSITY / School

SITE CHARACTERISTIC
ARCHITECTURE ANALYSIS — ARCHITECTURE FACTORY
PRODUCTION SYSTEM IMPORT LINE — PRODUCTION SYSTEM
PRODUCTION SYSTEM EXPORT LINE — HISTORY MONOPOLY SHIPPING

REHABILITATION PROCESS
PROCESS 1 (0-1 years) — REMOVE OLD SOIL ON HAZODOROUS AREA
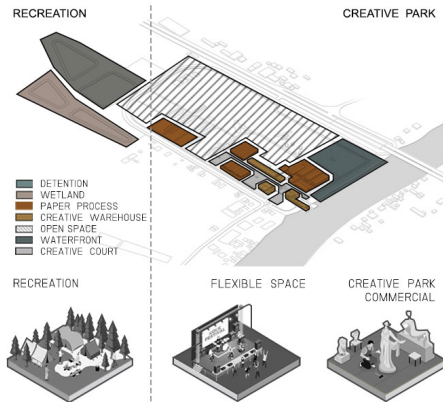PROCESS 2 (1-6 years) — SOIL MAINTAINANCE
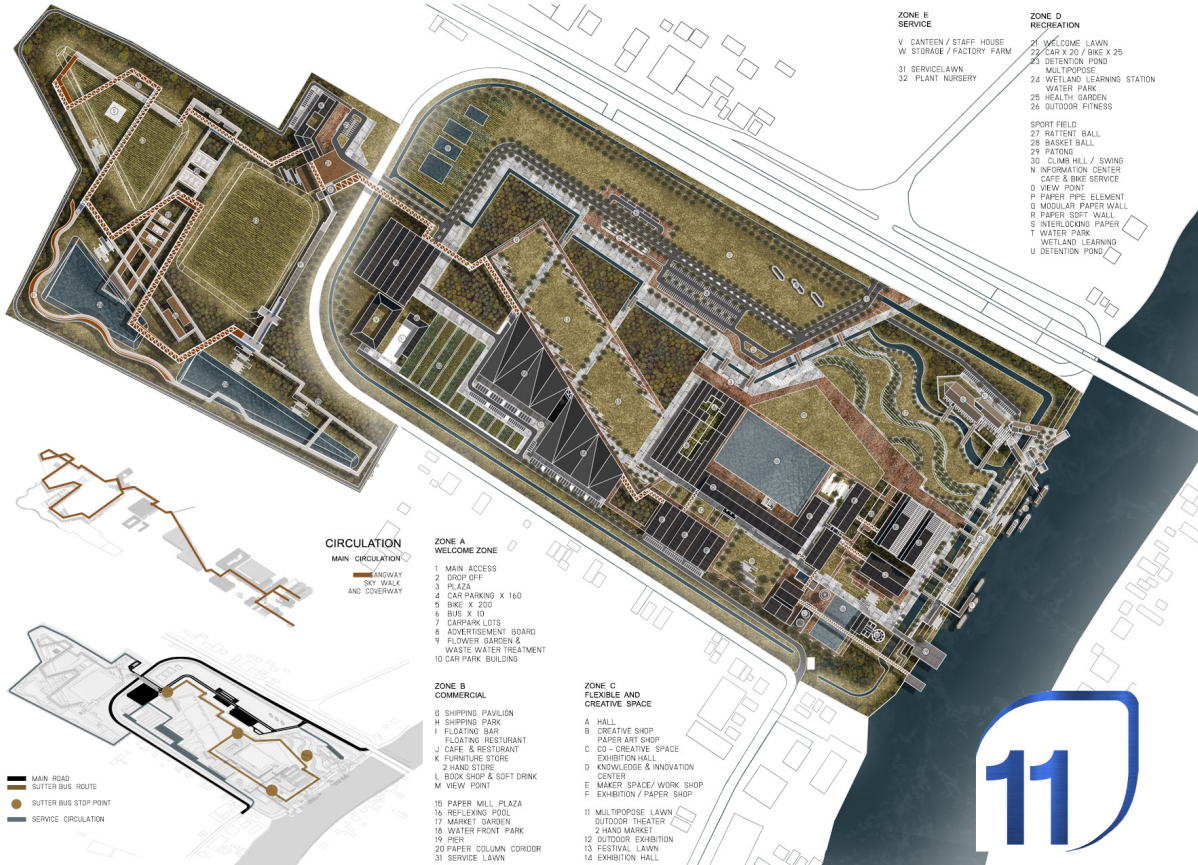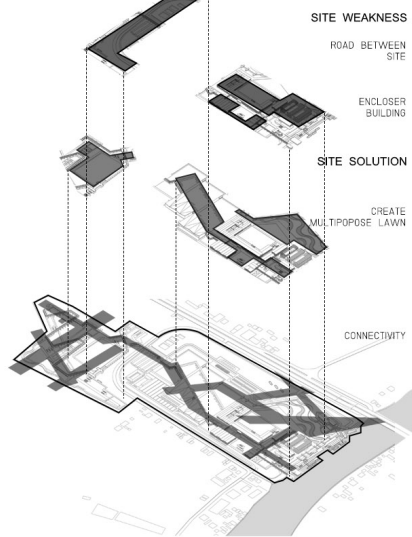PROCESS 3 (6-12 years) — PHYTOREMEDIATION

SITE POTENTIAL
Focusing on the possible potentials of the site, land restoration from polluted soil from paper making processes, and rapid growth of the Ayuthaya city.
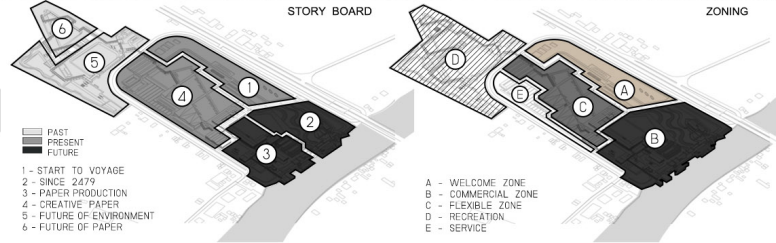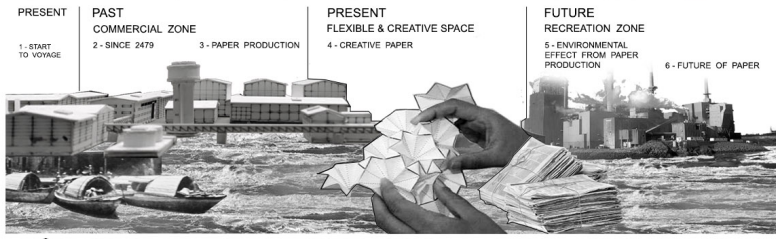
RECREATION — CREATIVE PARK

DETENTION
WETLAND
PAPER PROCESS
CREATIVE WAREHOUSE
OPEN SPACE
WATERFRONT
CREATIVE COURT

RECREATION — FLEXIBLE SPACE — CREATIVE PARK COMMERCIAL

CONCEPT
SITE WEAKNESS
ROAD BETWEEN SITE
ENCLOSER BUILDING

SITE SOLUTION
CREATE MULTIPOSE LAWN
CONNECTIVITY

STORY BOARD
The design concept starts with the main axis of sequencing perception to create a story telling of the paper and the factory from the past to future. Chao-Praya river represent important of water transportation in the past through series of installation arts inspired by paper.
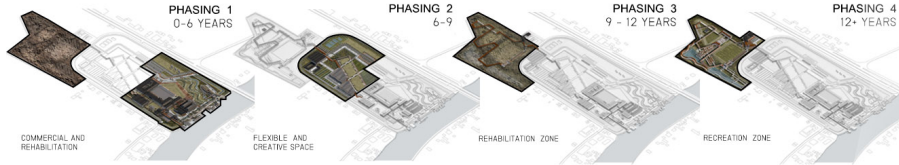
PRESENT
PAST — COMMERCIAL ZONE
1 - START TO VOYAGE
2 - SINCE 2479   3 - PAPER PRODUCTION

PRESENT — FLEXIBLE & CREATIVE SPACE
4 - CREATIVE PAPER

FUTURE — RECREATION ZONE
5 - ENVIRONMENTAL EFFECT FROM PAPER PRODUCTION
6 - FUTURE OF PAPER

STORY BOARD
PAST
PRESENT
FUTURE

1 - START TO VOYAGE
2 - SINCE 2479
3 - PAPER PRODUCTION
4 - CREATIVE PAPER
5 - FUTURE OF ENVIRONMENT
6 - FUTURE OF PAPER

ZONING
A - WELCOME ZONE
B - COMMERCIAL ZONE
C - FLEXIBLE ZONE
D - RECREATION
E - SERVICE

ZONE E
SERVICE
V CANTEEN / STAFF HOUSE
W STORAGE / FACTORY FARM
31 SERVICELAWN
32 PLANT NURSERY

ZONE D
RECREATION
21 WELCOME LAWN
22 CAR X 20 / BIKE X 25
23 DETENTION POND MULTIPOSE
24 WETLAND LEARNING STATION WATER PARK
25 HEALTH GARDEN
26 OUTDOOR FITNESS

SPORT FIELD
27 RATTENT BALL
28 BASKET BALL
29 PATONG
30 CLIMB HILL / SWING
N INFORMATION CENTER CAFE & BIKE SERVICE
O VIEW POINT
P PAPER PIPE ELEMENT
Q MODULAR PAPER WALL
R PAPER SOFT WALL
S INTERLOCKING PAPER
T WATER PARK WETLAND LEARNING
U DETENTION POND

CIRCULATION
MAIN CIRCULATION
RANGWAY SKY WALK AND COVERWAY

ZONE A
WELCOME ZONE
1 MAIN ACCESS
2 DROP OFF
3 PLAZA
4 CAR PARKING X 160
5 BIKE X 200
6 BUS X 10
7 CARPARK LOTS
8 ADVERTISEMENT BOARD
9 FLOWER GARDEN & WASTE WATER TREATMENT
10 CAR PARK BUILDING

ZONE B
COMMERCIAL
G SHIPPING PAVILION
H SHIPPING PARK
I FLOATING BAR FLOATING RESTURANT
J CAFE & RESTURANT
K FURNITURE STORE
L 2 HAND STORE
L BOOK SHOP & SOFT DRINK
M VIEW POINT

15 PAPER MILL PLAZA
16 REFLEXING POOL
17 MARKET GARDEN
18 WATER FRONT PARK
19 PIER
20 PAPER COLUMN CORRDOR
31 SERVICE LAWN

ZONE C
FLEXIBLE AND CREATIVE SPACE
A HALL
B CREATIVE SHOP PAPER ART SHOP
C CO - CREATIVE SPACE EXHIBITION HALL
D KNOWLEDGE & INNOVATION CENTER
E MAKER SPACE/ WORK SHOP
F EXHIBITION / PAPER SHOP

11 MULTIPOSE LAWN OUTDOOR THEATER
2 HAND MARKET
12 OUTDOOR EXHIBITION
13 FESTIVAL LAWN
14 EXHIBITION HALL

MAIN ROAD
SUTTER BUS ROUTE
SUTTER BUS STOP POINT
SERVICE CIRCULATION

11

BANG - PA - IN PAPER FACTORY CREATIVE PARK
Land restoration and Reconnect site to community

PHASING DEVELOPMENT
Phasing Development to create earnings during the process of land restoration
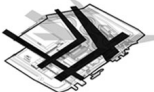

PHASING 1
0 - 6 YEARS

COMMERCIAL AND
REHABILITATION

PHASING 2
6 - 9

FLEXIBLE AND
CREATIVE SPACE

PHASING 3
9 - 12 YEARS

REHABILITATION ZONE

PHASING 4
12+ YEARS

RECREATION ZONE

COMMERCIAL ZONE
PAST

ZONING

PAST
COMERCIAL
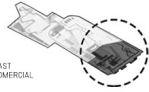
CONCEPTUAL PLAN

BANG-PA-IN PAPER STORY

2 SINCE 2497
3 PAPER PRODUCTION

FUNCTION

A MARKET & CONCERT
B FLOATING RESTURANT / WATERFRONT PARK
C SHOP & RESTURANT
D CREATIVE SPACE AND EXHIBITION

Creative zone, it is renovated from existing factory structures
to be retail zone, art shops, galleries, exhibition halls, and flexible
creative spaces managed for all year events for students and
tourists
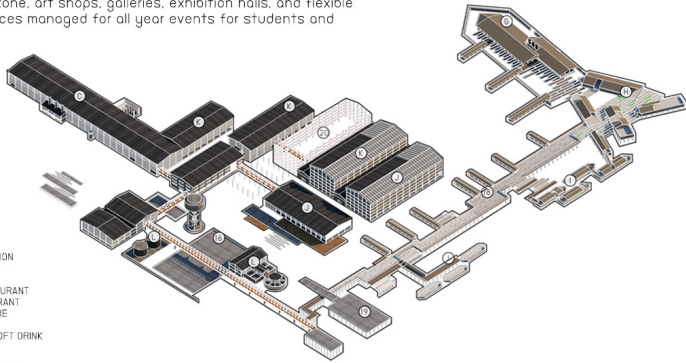
ZONE B COMMERCIAL

G SHIPPING PAVILION
H SHIPPING PARK
I FLOATING BAR
  FLOATING RESTURANT
J CAFE & RESTURANT
K FURNITURE STORE
  2 HAND STORE
L BOOK SHOP & SOFT DRINK
M VIEW POINT

15 PAPER MILL PLAZA
16 REFLEXING POOL
17 MARKET GARDEN
18 WATER FRONT PARK
19 PIER
20 PAPER COLUMN CORRIDOR
31 SERVICE LAWN

CAFE AND LIBRARY
CO - WORKING SPACE
CREATIVE SHOP

PERFORMANCE
STAGE

MAIN CIRCULATION

MULTIPOPOSE LAWN
OPEN AIR CINEMA

PIER

CAFE AND BAR
BAKERY

REFLEXING
POOL

BOOKSHOP
SOFT DRINK

BRAND NAME
RESTURANT

FURNITURE STORE
2 HAND STORE

FURNITURE STORE
2 HAND STORE

FLOATING
RESTURANT

WATERFRONT
PARK

MULTIPOPOSE LAWN
MARKET & FESTIVAL

INDUSTRY
CORRIDOR

11
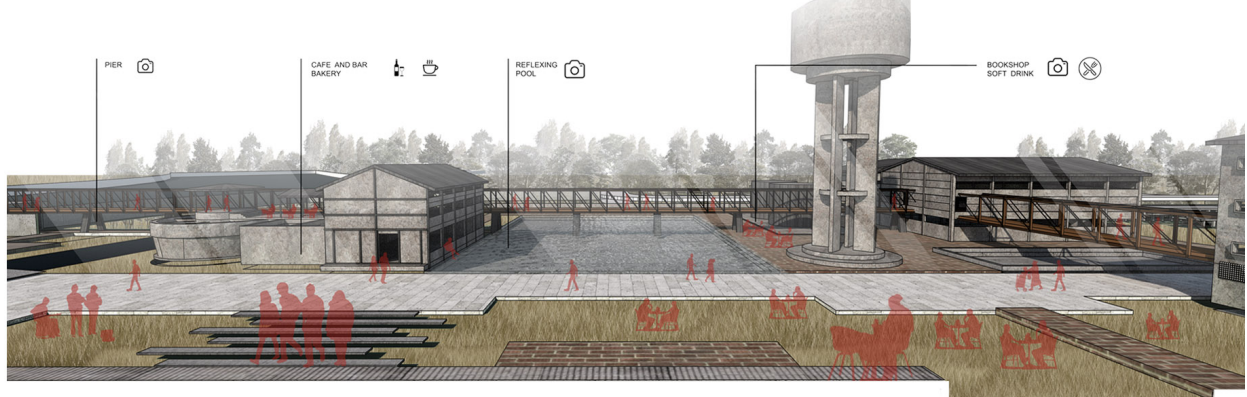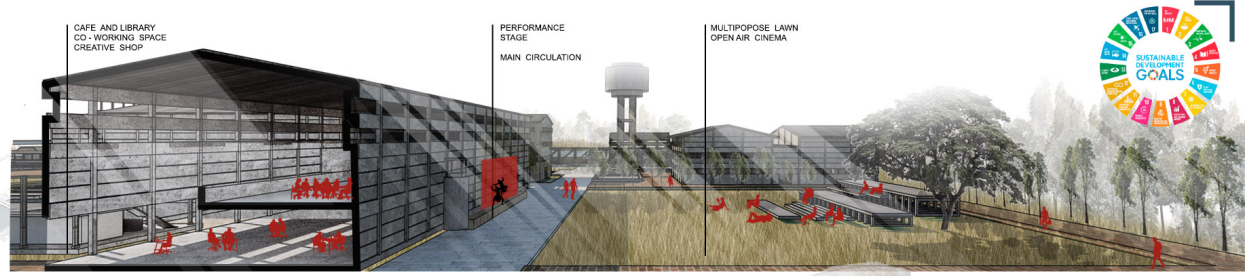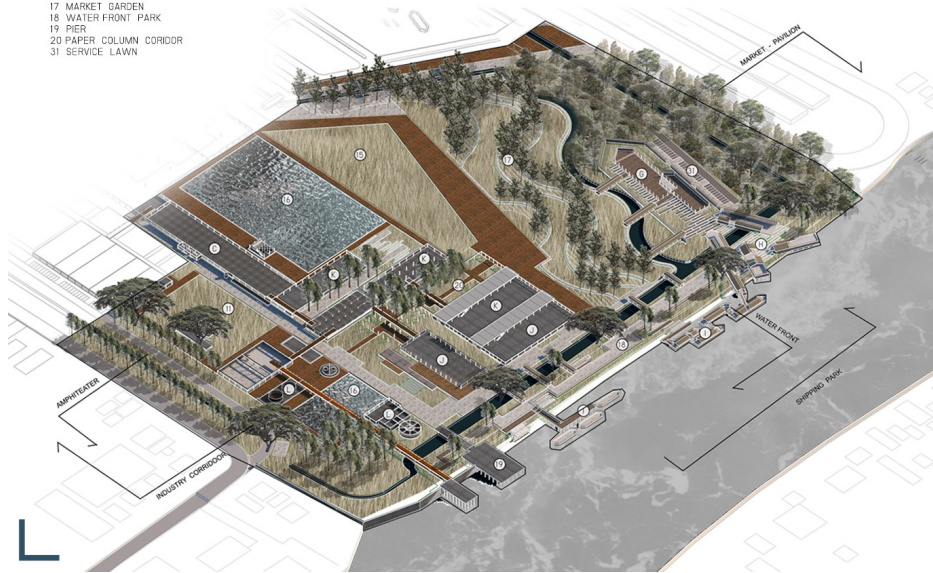
BANG - PA - IN PAPER FACTORY CREATIVE PARK
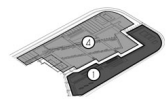Land restoration and Reconnect site to community

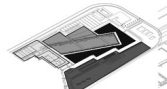## FLEXIBLE AND CREATIVE SPACE
PRESENT

CONCEPTUAL LINE
PAPER ELEMENT

4 TRANSPARENT ROOF
5 ORIGAMI FLEXIBLE ROOF
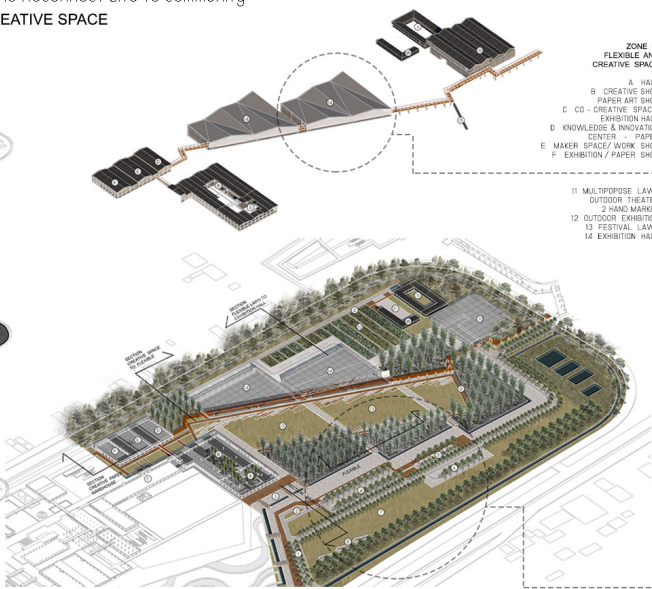6 INTERLOCKING MODULAR WALL

**BANG-PA-IN PAPER**
FACTORY STORY

1 START TO VOYAGE
4 CREATIVE PAPER

FUNCTION

FLEXIBLE
BAMBOO FOREST
WELCOME CAR PARKING
CREATIVE SPACE & SHOP

ZONE C
FLEXIBLE AND
CREATIVE SPACE

A HALL
B CREATIVE SHOP
PAPER ART SHOP
C CO - CREATIVE SPACE
EXHIBITION HALL
D KNOWLEDGE & INNOVATION
CENTER - PAPER
E MAKER SPACE/ WORK SHOP
F EXHIBITION / PAPER SHOP

11 MULTIPOPOSE LAWN
OUTDOOR THEATER
2 HAND MARKET
12 OUTDOOR EXHIBITION
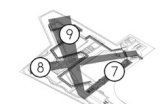13 FESTIVAL LAWN
14 EXHIBITION HALL
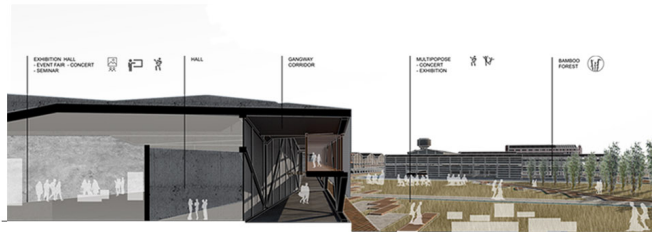
RECREATION ZONE
FUTURE OF PAPER

Park : Recreation Area
for local community.
land restoration from
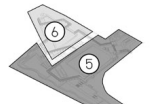polluted soil from paper
making processes

Area 158800 m2 / 99 Rai
Phase 1-2

CONCEPTUAL LINE
PAPER ELEMENT

7 PIPE AXIS
8 SOFT WALL
9 INTERLOCKING
CARDBOARD PAPER

BANG-PA-IN PAPER
FACTORY STORY
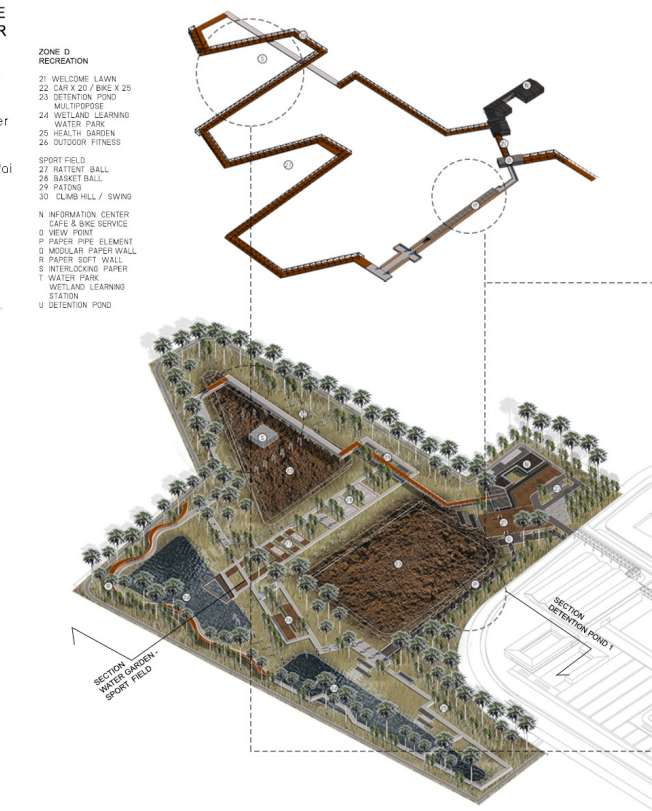
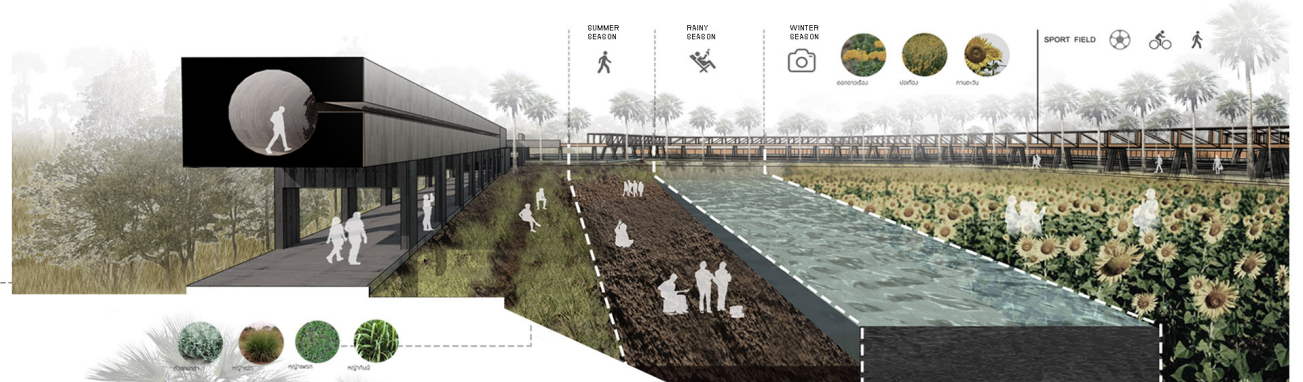5 - ENVIRONMENTAL
EFFECT OF PAPER
PRODUCTION
6 - FUTURE OF PAPER

FUNCTION

DETENTION POND 2
HILL - SPORT FIELD
DETENTION POND 1
WATER GARDEN

ZONE D
RECREATION

21 WELCOME LAWN
22 CAR X 20 / BIKE X 25
23 DETENTION POND
24 MULTIPOPOSE
WETLAND LEARNING
WATER PARK
25 HEALTH GARDEN
26 OUTDOOR FITNESS

SPORT FIELD
27 RATTENT BALL
28 BASKET BALL
29 PATONG
30 CLIMB HILL / SWING

N INFORMATION CENTER
CAFE & BIKE SERVICE
O VIEW POINT
P PAPER PIPE ELEMENT
Q MODULAR PAPER WALL
R PAPER SOFT WALL
S INTERLOCKING PAPER
T WATER PARK
WETLAND LEARNING
STATION
U DETENTION POND

SECTION
DETENTION POND 1

SECTION
WATER GARDEN -
SPORT FIELD

SUMMER
SEASON

RAINY
SEASON

WINTER
SEASON

SPORT FIELD

BIKE / RUN
RELAXING

4.60 m RAINY SEASON

2.98

WINTER SEASON

1.50   2.00   SUMMER SEASON 1.29

11