

2014 Exhibition of School Planning and Architecture

동은아이유치원
DongEun-i
DongEun-i Kindergarten

Yongin, Gyunggi providence, South Korea



1) Fulfilling both economic feasibility and educational condition within very limited site condition and regulation

Due to the increasing price of site, educational facilities tend to maximize the size and numbers of classrooms for more numbers of kids, scarifying common areas, and supporting areas. To fulfill economic feasibility and educational condition, integrated design among programmed rooms, courtyard and other outdoor features were implemented. Classroom extends to outdoor space and common space becomes classrooms. Careful layout of convertible walls and folding doors, common area and classroom become boundary free space when educational program requires. As a result, we were able to maximize educational space with enhanced condition within very restricted site condition and regulation.

2) A building becomes a part of educational program

Building concept is based on origami. As different ways of folding paper make different creative results, how to educate the children will impact differently on the future of the children. The plans and elevation was inspired by the opportunities of opening, closing, folding condition of paper. Kindergarten not only contains educational facility, but also building itself becomes educational tool. On outdoor deck, building wall becomes a white board where children can paint on, and common hall opens to courtyard, creating entire B01 level as semi outdoor space on sunny days. Difficult sloped site condition turned into an opportunity of providing upper level outdoor vegetable farming garden for children's education

3) Creative approach enabled both educational & financial success

In educational facility design, either functionality or feasibility is overly focused based on public or private development. With the innovative and creative design approach, DongEun-i Kindergarten was able to fulfill the both requirements. Newly opening kindergarten usually suffers in recruiting students until it gains credit among the parents. With the innovative design and spatial quality, DongEun-i Kindergarten were able to recruit 210 students in the first year, which exceed the client's expectation. DongEun-i Kindergarten became a bench marking place since it opened. Not only the other kindergarten teachers in Korea, educators from mainland China and Taiwan visit to see new approach to the educational facility.

COMMUNITY ENVIRONMENT

Suji-Gu, Yongin

City of Yongin is a densely developed satellite city, located about 30km south of Seoul.

Suji-Gu, where the project is located is the central district of city of Yongin, and heavily developed with condominium complexes, and supporting commercials.

Mid and mid high income level families reside in Suji-Gu, and enthusiasm and the expectation on their children's education is very high.



Suji-Gu, Yongin





SITE ENVIRONMENT

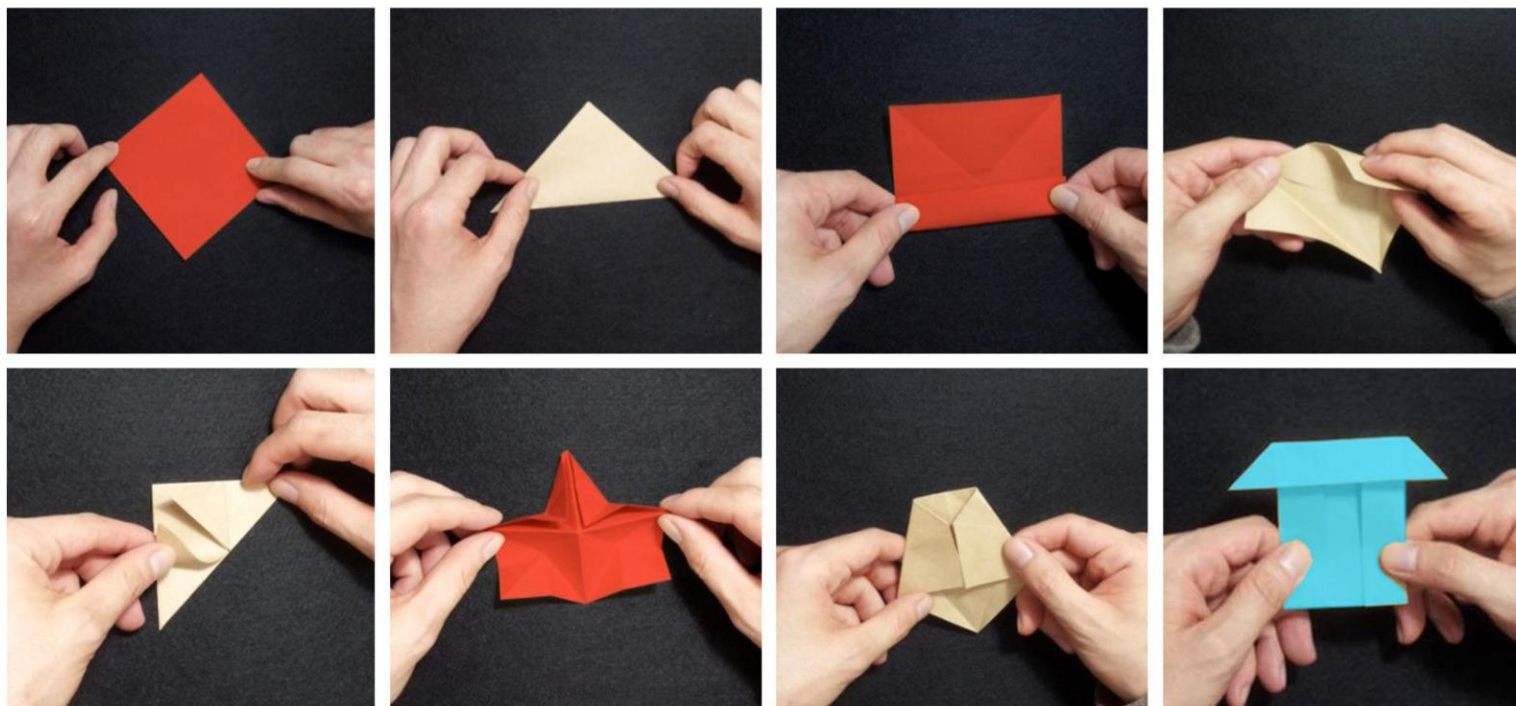
11, Seongbok 1-Ro 28 beon-Gil, Suji-Gu, Yongin, Gyunggi-Do, Korea

Site area: 0.49 ac (1,984 m²)

Site is located on the hillside, and there is elevation level change within the site. Elevated express way separates the site from the dense condominium developments, which gives quietness in the busy urban context.

The regulation limits the site coverage of max. 20%, and GFA under 16,145 SF (1,500m²), which gives very tight development.

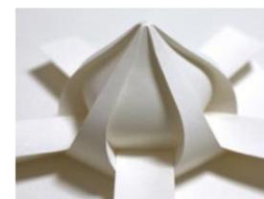




Design process- inspiration from ORIGAMI

Building concept is based on origami. As different ways of folding paper make different creative results, how to educate the children will impact differently on the future of the children.

The plans and elevation was inspired by the opportunities of opening, closing, folding condition of paper. Different educational programs will determine different shapes of the space.

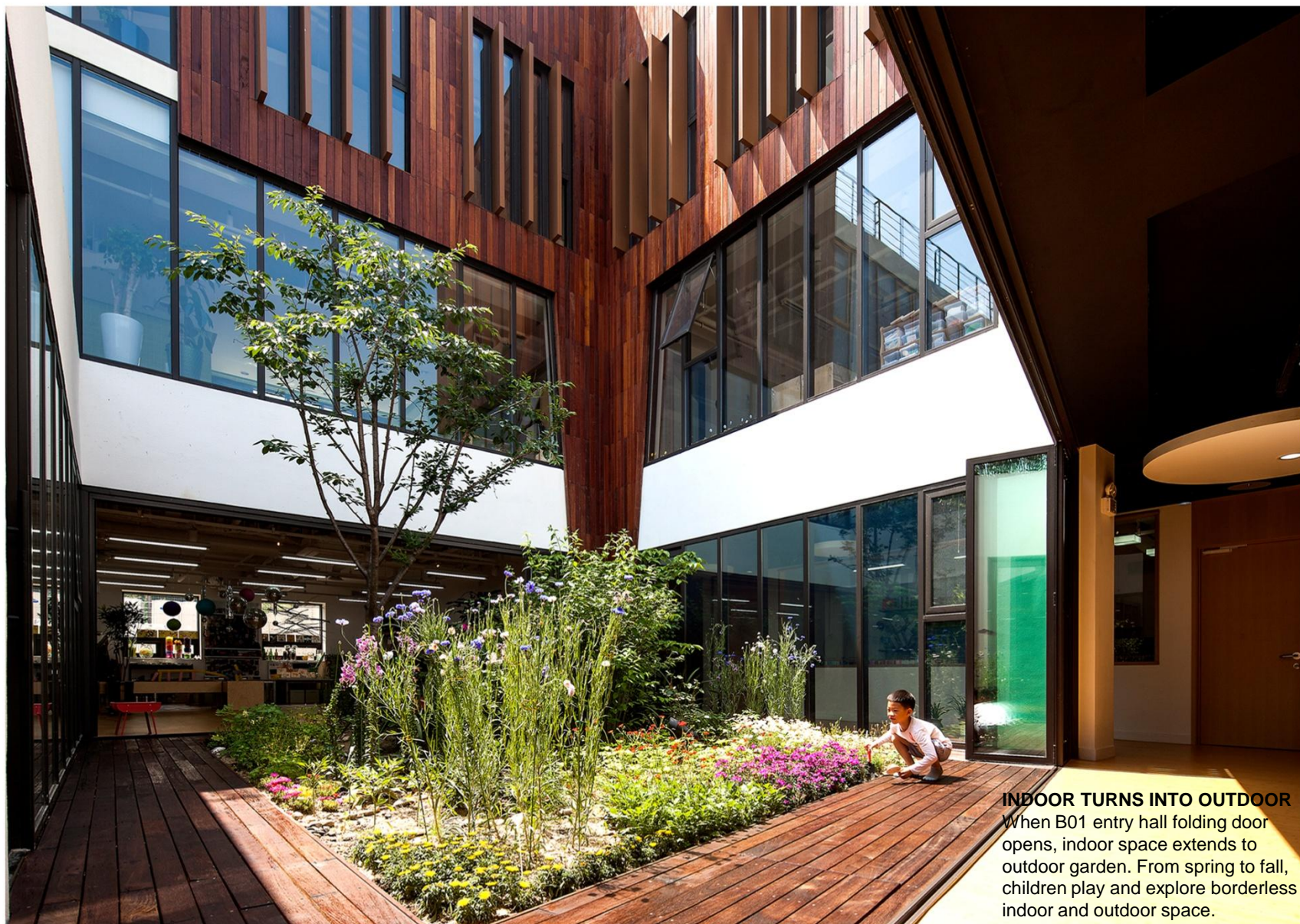




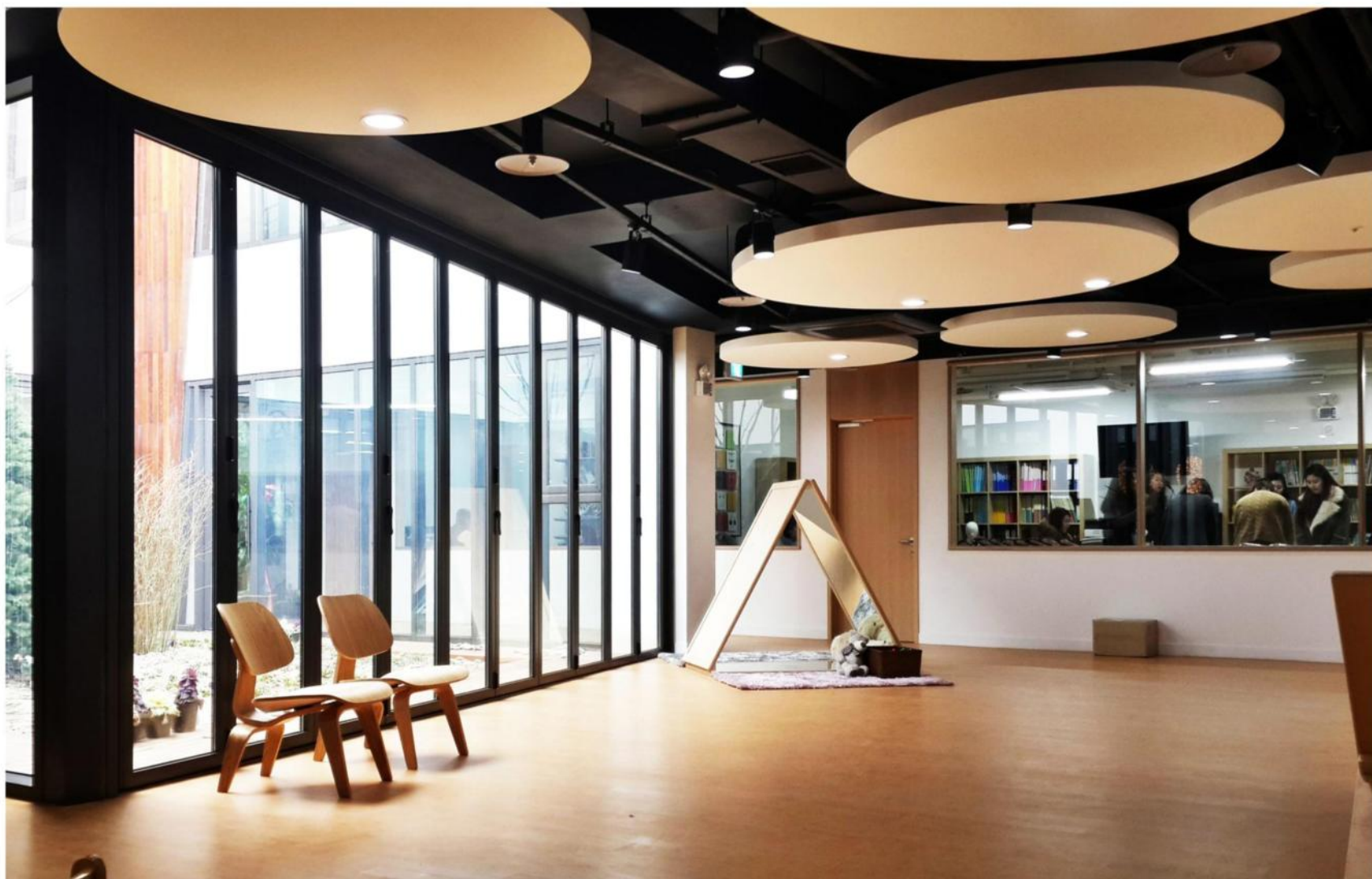




B01 level courtyard garden



INDOOR TURNS INTO OUTDOOR
When B01 entry hall folding door opens, indoor space extends to outdoor garden. From spring to fall, children play and explore borderless indoor and outdoor space.



Entry hall_folding door closed



Entry hall_Cafeteria



Classroom



Classroom



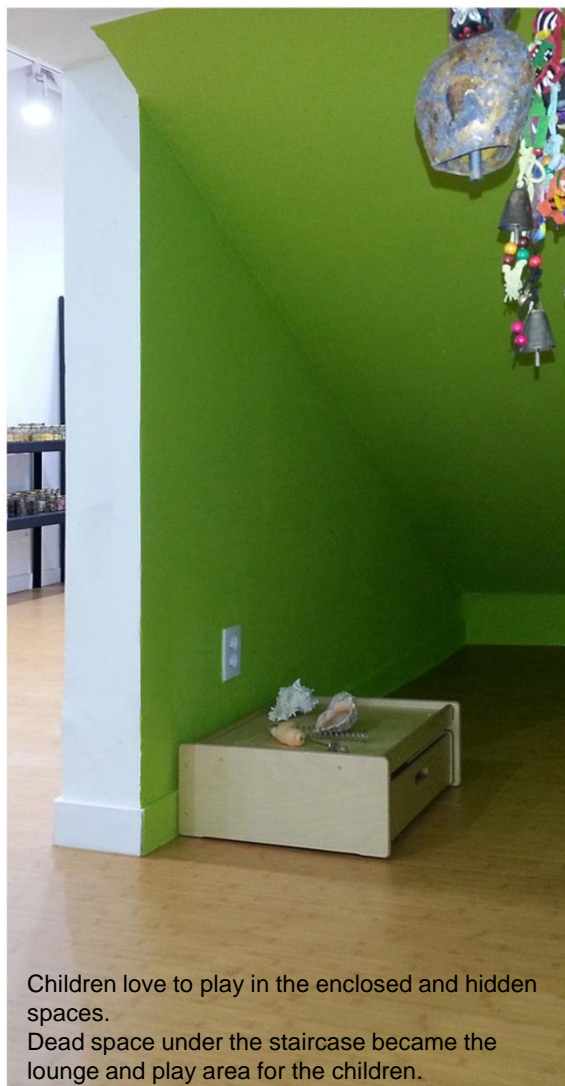
Classroom



PE_Multi purpose hall



L01 Corridor_restroom



Children love to play in the enclosed and hidden spaces.
Dead space under the staircase became the lounge and play area for the children.



Staircase & Space below



OUTDOOR PLAY DECK & MAGNETIC WALL

Classrooms extends to outside with outdoor play deck. White magnetic wall enables children to play with metal and magnetic tools. Wood deck is where children to paint, and build stone castles.

VEGETABLE FARMING GARDEN ON 2ND FLOOR

Difficult slope conditions turned into educational opportunities. 2nd floor classrooms have direct access to vegetable farming garden, where children grow pepper, lettuce, cucumbers for their own use. Children love to eat their own harvest as their lunch side dishes.

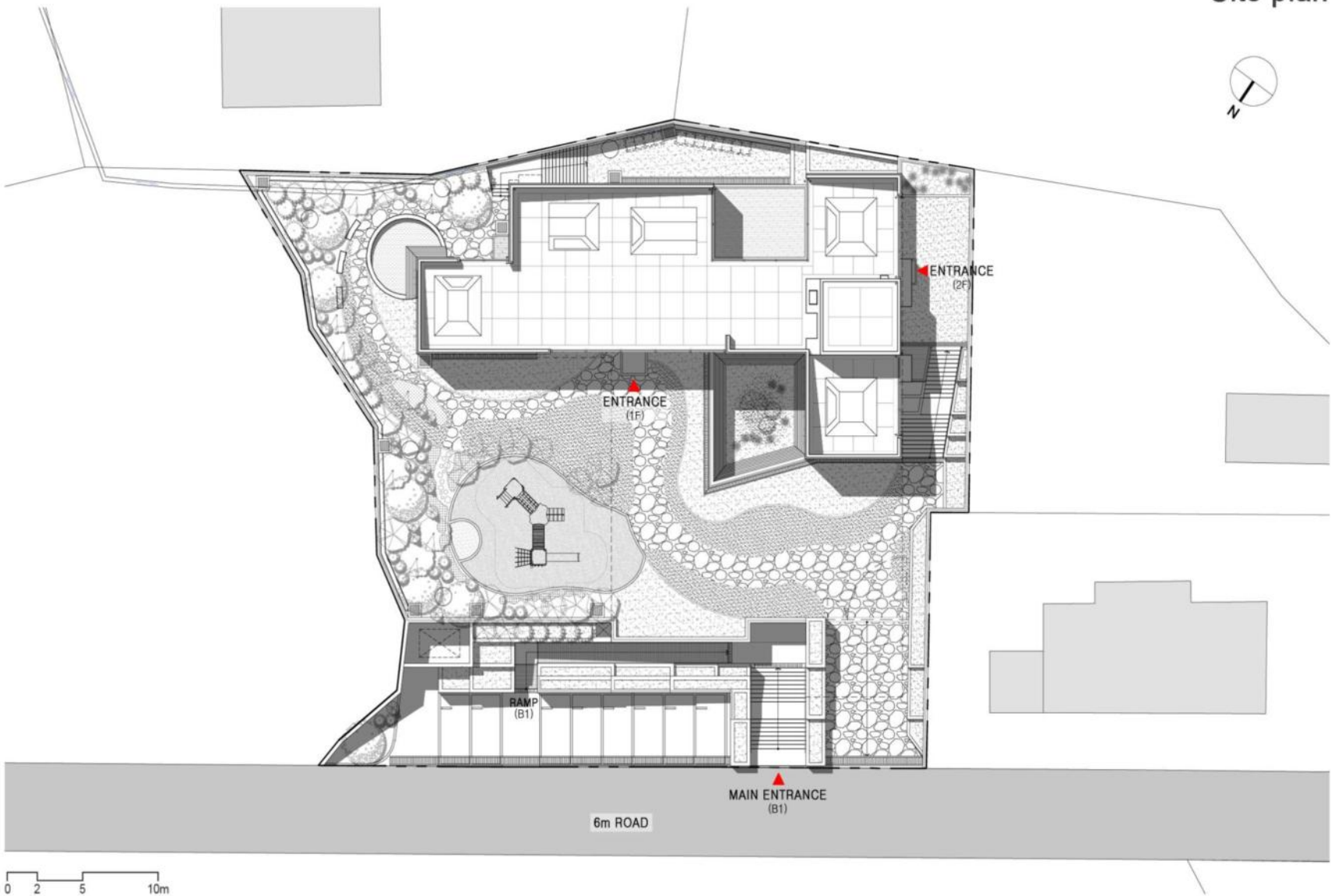


(2F) Vegetable farming





Roof top



■ B1 plan

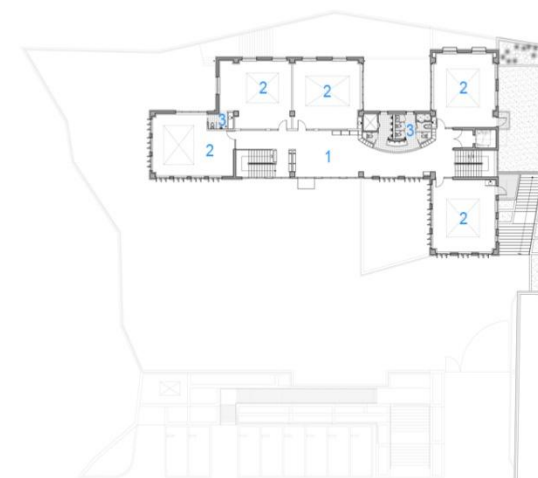
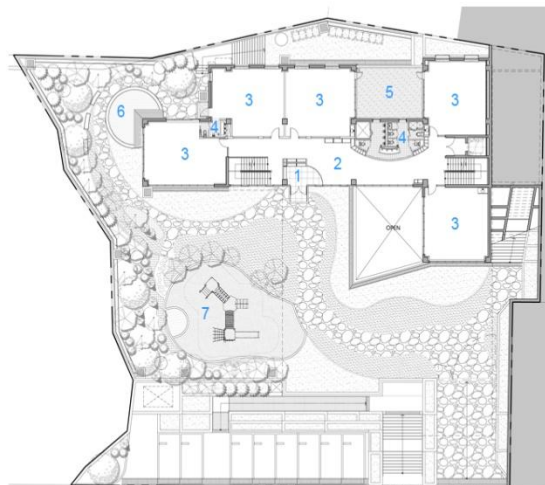
- 01_ENTRANCE
- 02_ENTRY HALL
- 03_PHYSICAL EDUCATION
- 04_PREPERATION ROOM
- 05_RESTROOM
- 06_ATELIER
- 07_TEACHERS' ROOM
- 08_PRINCIPAL'S ROOM
- 09_SUPPORTING ROOM
- 10_CAFETERIA
- 11_KITCHEN
- 12_SECURITY ROOM
- 13_STORAGE
- 14_COURTYARD
- 15_MECHANICAL ROOM
- 16_ELECTRIC ROOM
- 17_PARKING LOT

■ 1F plan

- 01_ENTRANCE
- 02_HALL
- 03_CLASSROOM
- 04_RESTROOM
- 05_OUTDOOR PLAYDECK
- 06_SWIMMING POOL
- 07_PLAYGROUND

■ 2F plan

- 01_HALL
- 02_CLASSROOM
- 03_RESTROOM



Exhibition of School Planning and Architecture

Project Data

Submitting Firm :	ARCHIAHN
Project Role	Design architect
Project Contact	Ahn, SangHyun
Title	president
Address	3F,RODEO BD, 14, EONJU-RO 152-GIL, GANGNAM-GU,
City, State or Province, Country	SEOUL, SOUTH KOREA
Phone	+82.10.7143.3738
Joint Partner Firm:	
Project Role	Executive Architect
Project Contact	Lee, Gil-Ju
Title	president
Address	339 Gimnyangjang-dong, Cheoin-gu,
City, State or Province, Country	Yongin-si, Gyeonggi-do, Korea
Phone	+82.31.337.2633
Other Firm:	
Project Role	
Project Contact	
Title	
Address	
City, State or Province, Country	
Phone	
Construction Firm:	
Project Role	Samhyub Construction
Project Contact	Kim, Choong Sung
Title	Senior vice president
Address	Hongsung BD, 770-7, Yeoksam-dong, Gangnam-gu,
City, State or Province, Country	Seoul, Korea
Phone	+82.2.575.9767

Exhibition of School Planning and Architecture

Project Details

Project Name	DongEun -i Kindergarten
City	Yongin
State (Providence)	Gyeonggi-Do
District Name	Suji-Gu
Supt/President	Woon-Hyouung Lee
Occupancy Date	11/25/2013
Grades Housed	Kindergarten (age 4-6)
Capacity(Students)	210 students
Site Size (acres)	0.49 ac
Gross Area (sq. ft.)	16,078 SF
Per Occupant(pupil)	76.56 SF per student
gross/net please indicate	16,078SF / 9,893 SF
Design and Build?	No
If yes, Total Cost:	
Includes:	
If no,	
Site Development:	100,000 USD
Building Construction:	2,300,000 USD
Fixed Equipment:	100,000 USD
Other:	2,500,000 USD (land cost)
Total:	5,000,000 USD