

ACSA Faculty Design Honorable Mention

2016-2017 Winner Submission Materials

Bluestone Church

JUNGWOO JI

Iowa State University

BLUESTONE CHURCH

Considering the regional regulation, the chapel should be placed on the basement level. From the regulation, the name of church ('Blue Stone'), and the desire of the church to be a cornerstone of the region, a symbolic narrative was created: "Excavate and raise up the blue stone from the underground, build a church on the excavated place, and make the raised stone a symbol of the region."

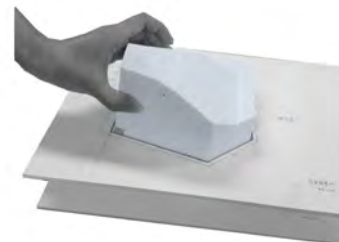
This narrative is successfully incorporated into the design, and opens new possibilities for small-scale church projects which can easily lose their identity wandering through restrictive regulations and demands on maximizing floor area.



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017



CONCEPT SKETCH



CONCEPT MODEL

The city is constantly changing and impermanent. There has been new master plan, new developments, and new money, and new people. There will be more and more 'new' in this city. How to address permanence to a single building in this kind of city? Do we need 'permanence'?

The answer might be from the ground. The architecture will represent the permanence of the ground even though there might be more impermanence in human being's everyday life.



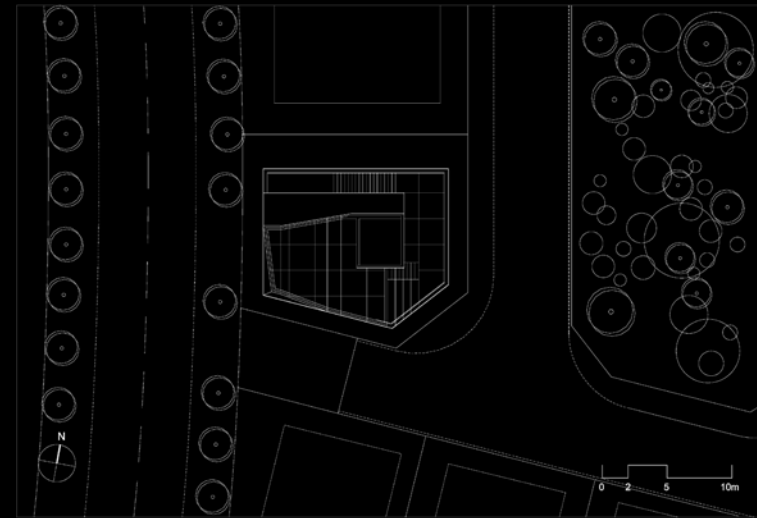
BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

"CORNER STONE,
CONTAINING A CHURCH AND LOCAL COMMUNITY"



ANOTHER ATTITUDE OF ARCHITECTURE FOR A LOCAL CHURCH IN KOREA

This church is located in an undefined context and will be a part of community. The design approach is focusing on a primitive prototype out of the site rather than corresponding undefined context. It was from the original church name, Cheong Seok (Blue Stone) as well. This church will be a Corner Stone as a foundation of this region and open ministry. It will be composed with rock shaped mass, piloti, below grade chapel, and spiral path from B1 to roof top.



SITE PLAN

Protestant church, 2015

Location: Woonjung, Paju, Kyounggi, Korea

Site Area: 257 m²

Total Floor Area: 537 m²(149.63 py)

Structure: Reinforced Concrete

Levels: 4 floors and below grade

Finish Material: tile / exposed concrete

Design Period: Jul. 2013 - Nov. 2013

Construction Period: Dec. 2013 - Mar. 2015, Complete

BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

BACKGROUND ISSUES



Sanctum in the Old Testament Gothic Church in the Medieval Times Town Church in Europe Town Church in US Great Plains Underground Church in North Europe City Church in Korea

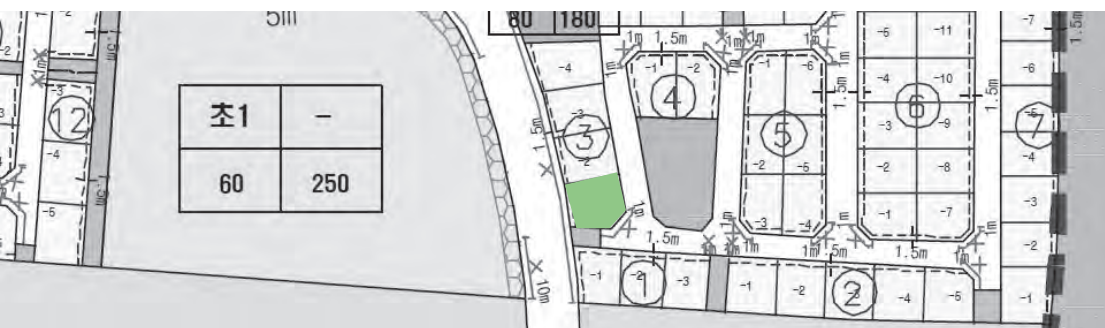
Thinking a prototype of church in this age and comparing with historical and local referenes



Not defined yet but easily predictable context through similar new town precedents in this age



The site is located between a future school site and a community pocket park which are good assets in the community and public

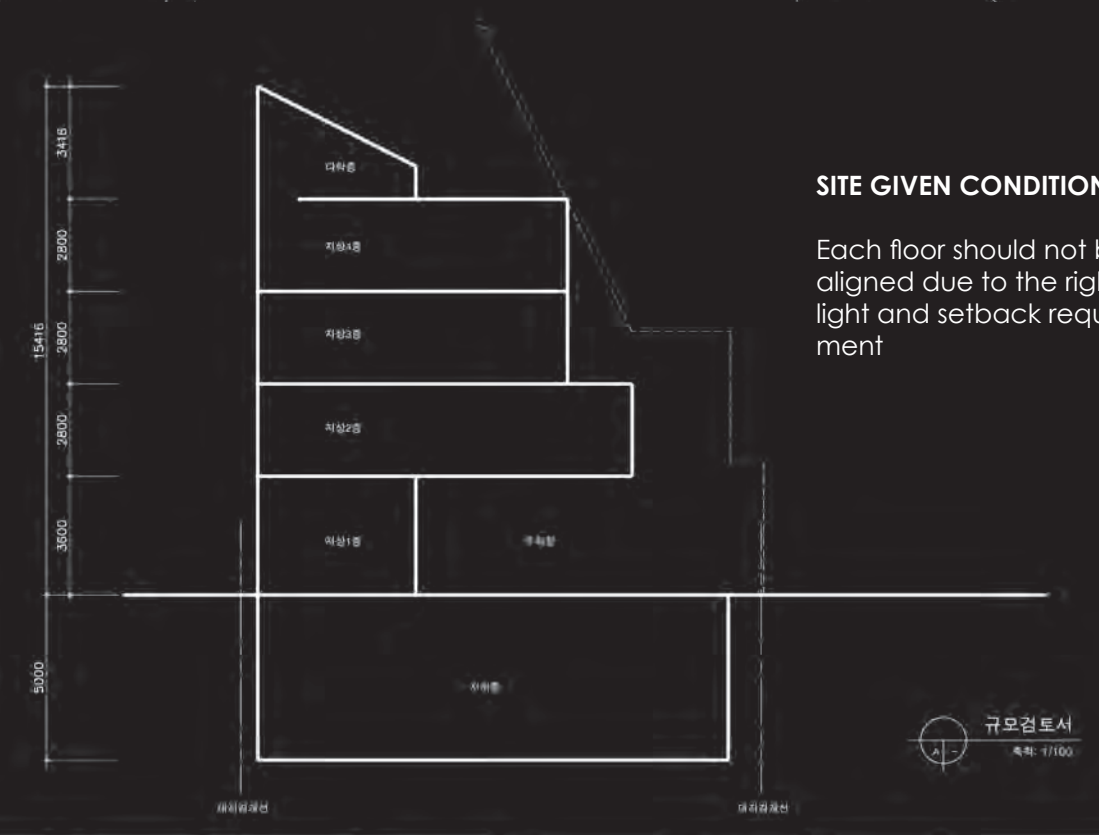
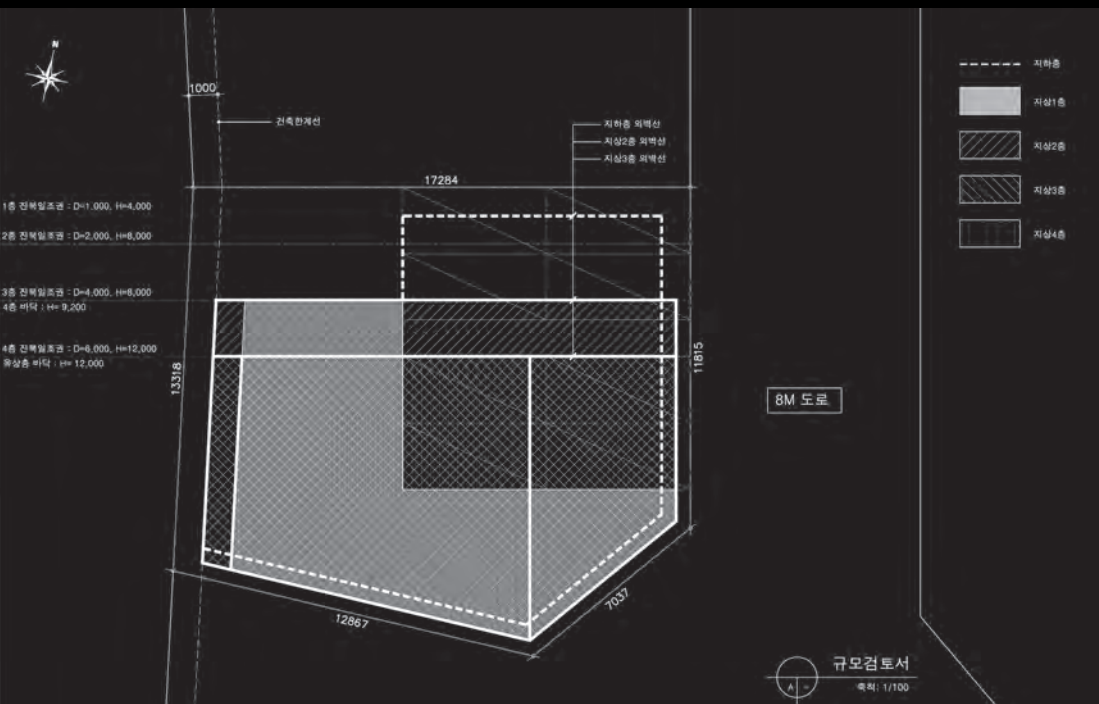


The corner site which can be exposed to pedestrian movement and create loal identity



The church's desire as being a part of community rather than beign just spiritual but isolated space

SITE REGULATION AND INITIAL STUDIES



SITE GIVEN CONDITIONS

Each floor should not be aligned due to the right to light and setback requirement

INITIAL CLUES

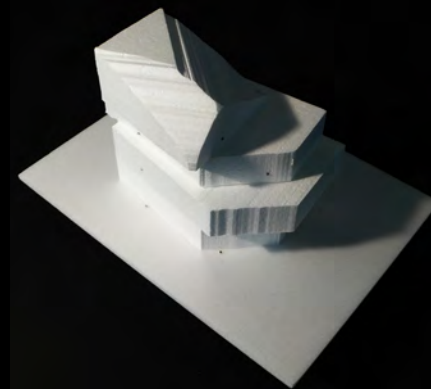
VERTICAL OVERLAYS

A possibility to create stairs as a part of the main building body



SHIFTED SPACES

A possibility to create richness of outdoor spaces with using in and out masses



CONNECTING FROM GROUND TO THE ROOF

A possibility to make a spiral circulation to connect all floors



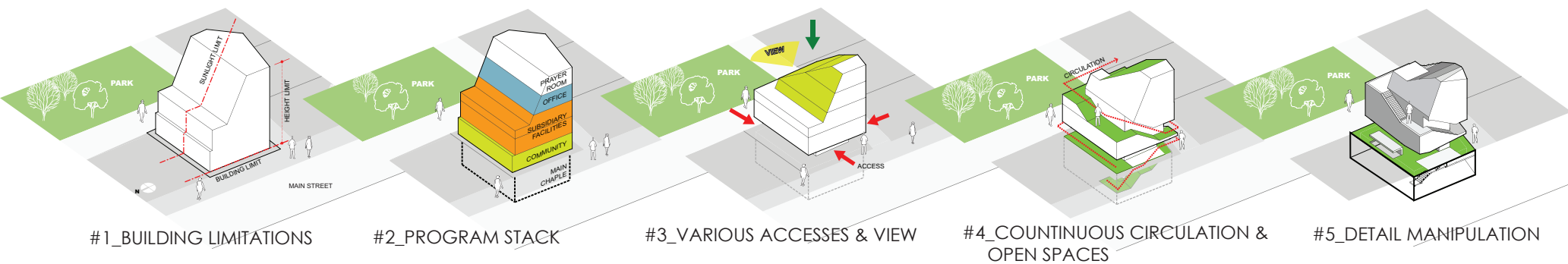
FLOATED MASS & BELOW GRADE

Simultaneity of rigidity and openness

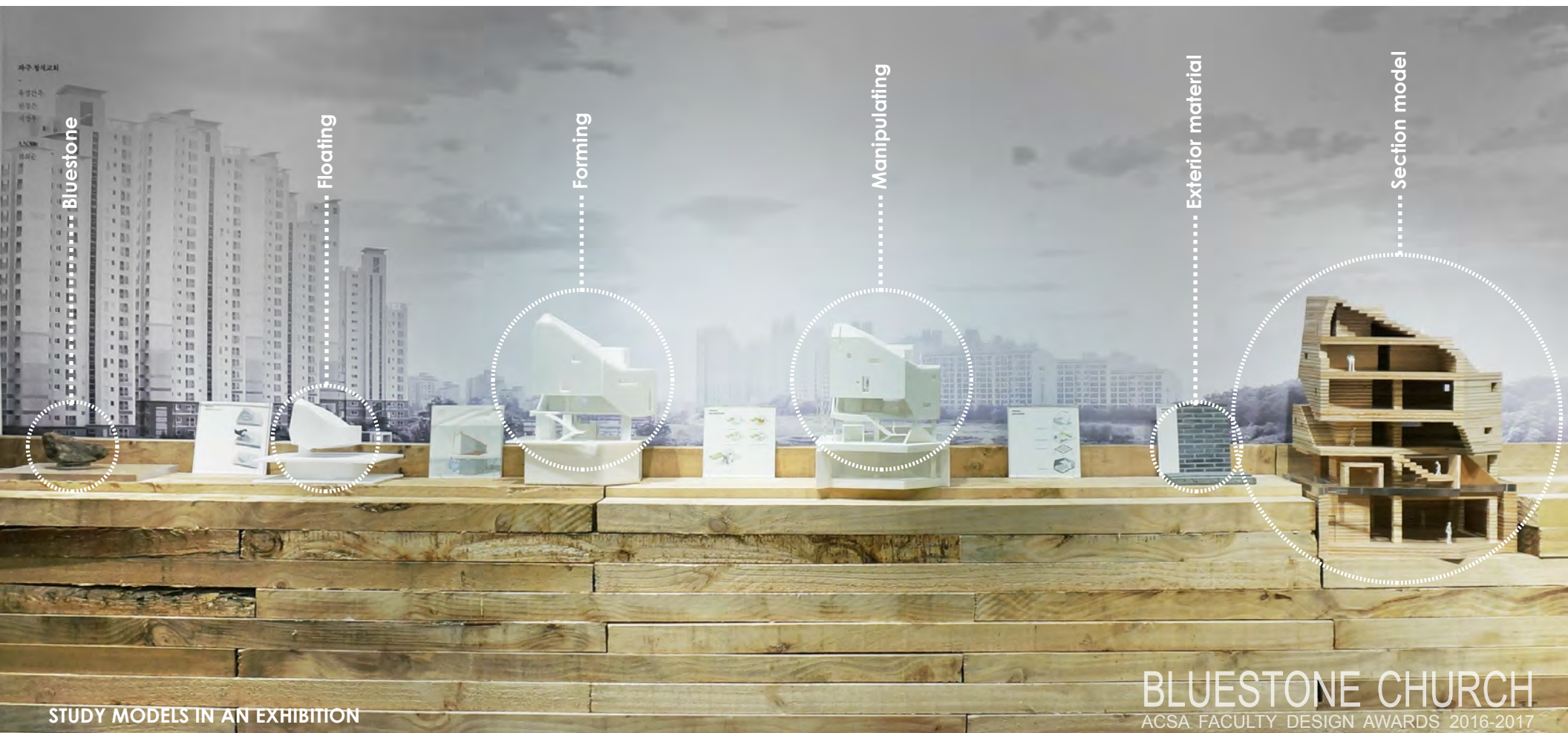


BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

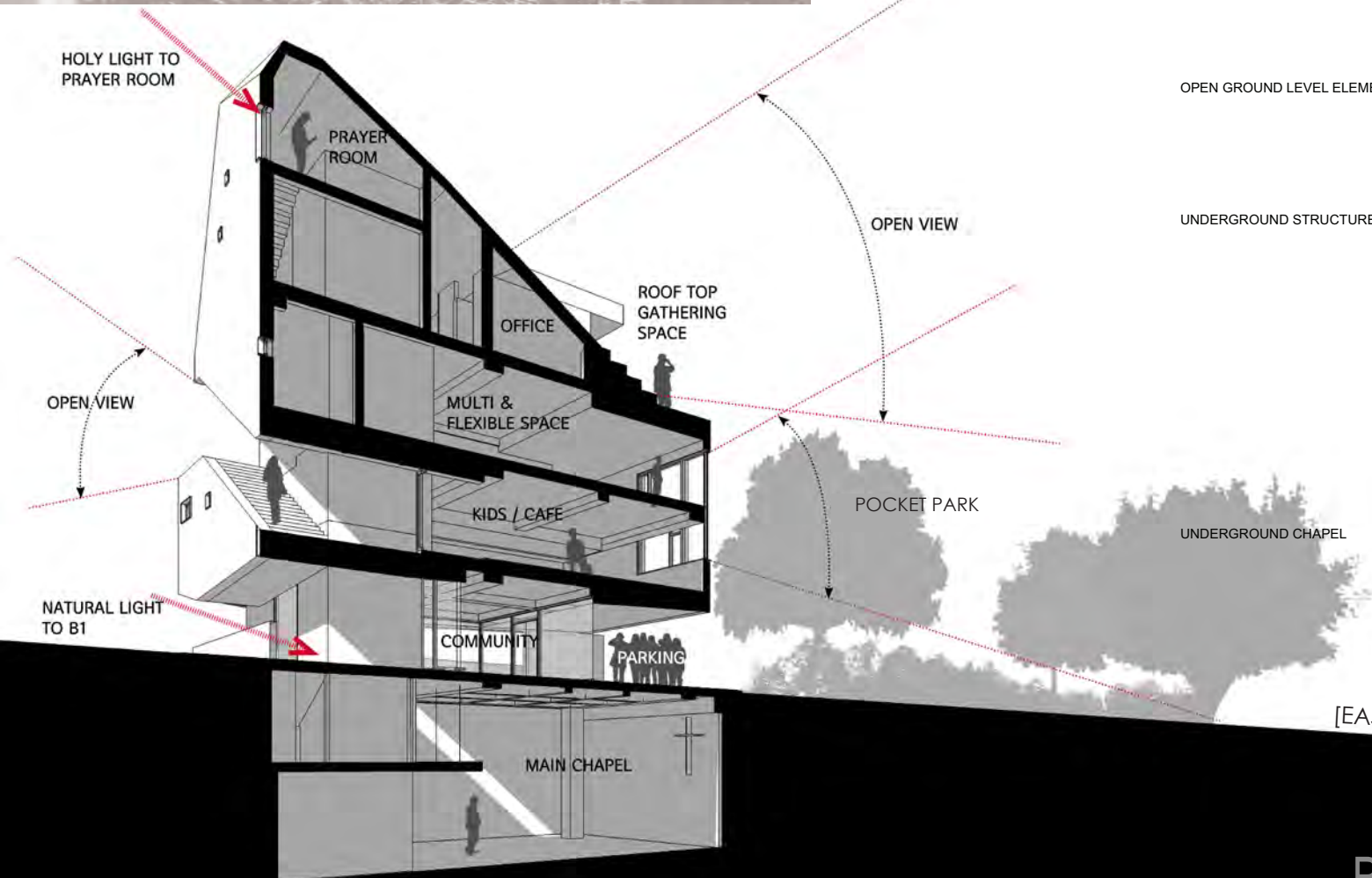
MASSING DEVELOPMENT



MASSING DIAGRAMS

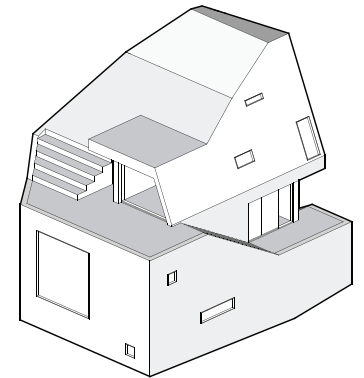


SECTIONAL CONFIGURATION

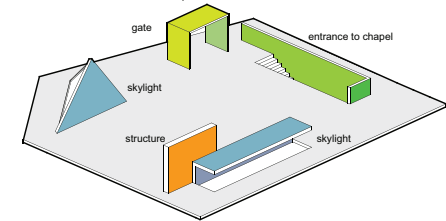


EXPLODED BUILDING ELEMENTS

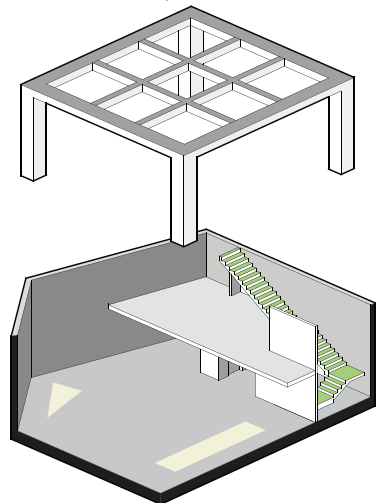
BUILDING ABOVE GROUND



OPEN GROUND LEVEL ELEMENTS



UNDERGROUND STRUCTURE



[EAST-WEST SECTION PERSPECTIVE]

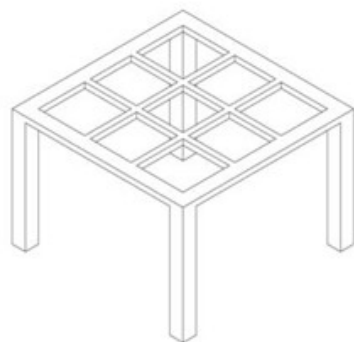
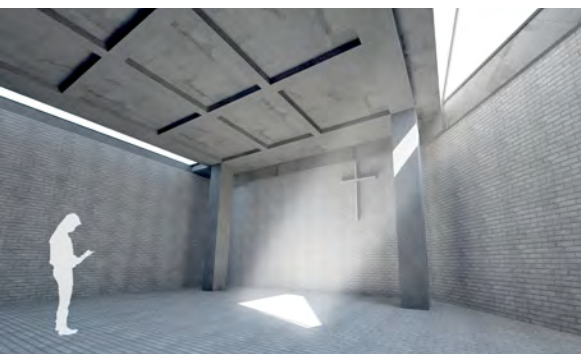
MAIN CHAPEL SPACE



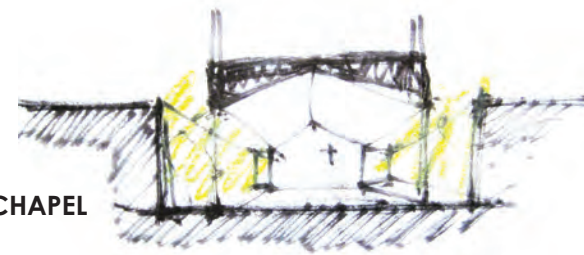
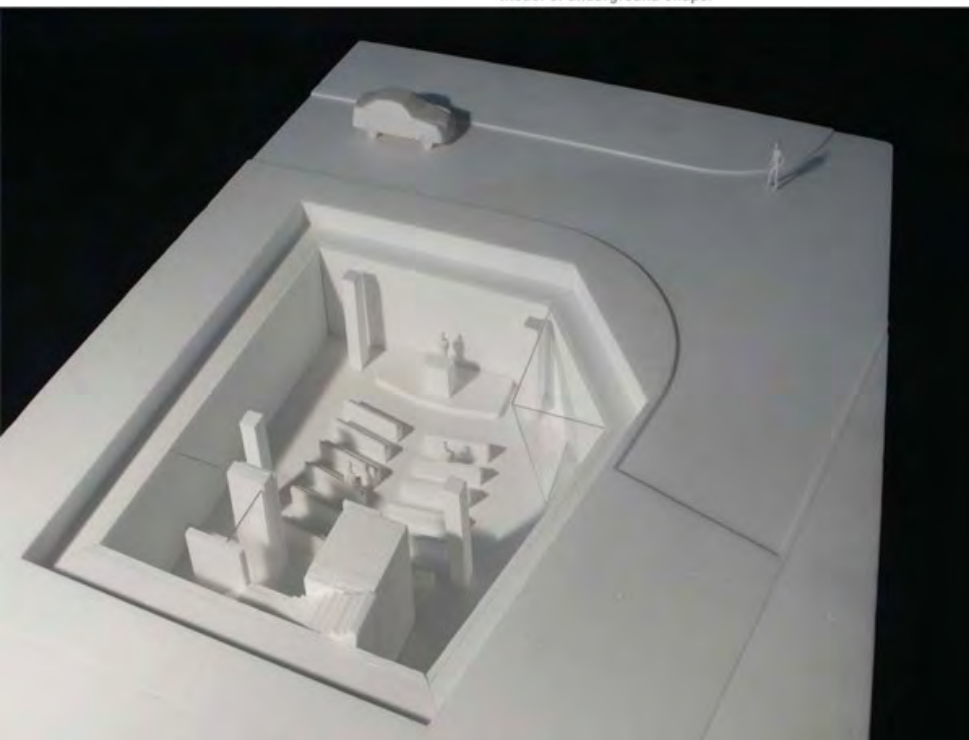
MAIN CHAPEL SPACE WITH NATURAL LIGHT

Natural light through skylights helps the worship serenely rather than just being scared

PRECEDENT FOR CHURCH IN BELOW GRADE



model of underground chapel



INITIAL SKETCH FOR THE CHAPEL

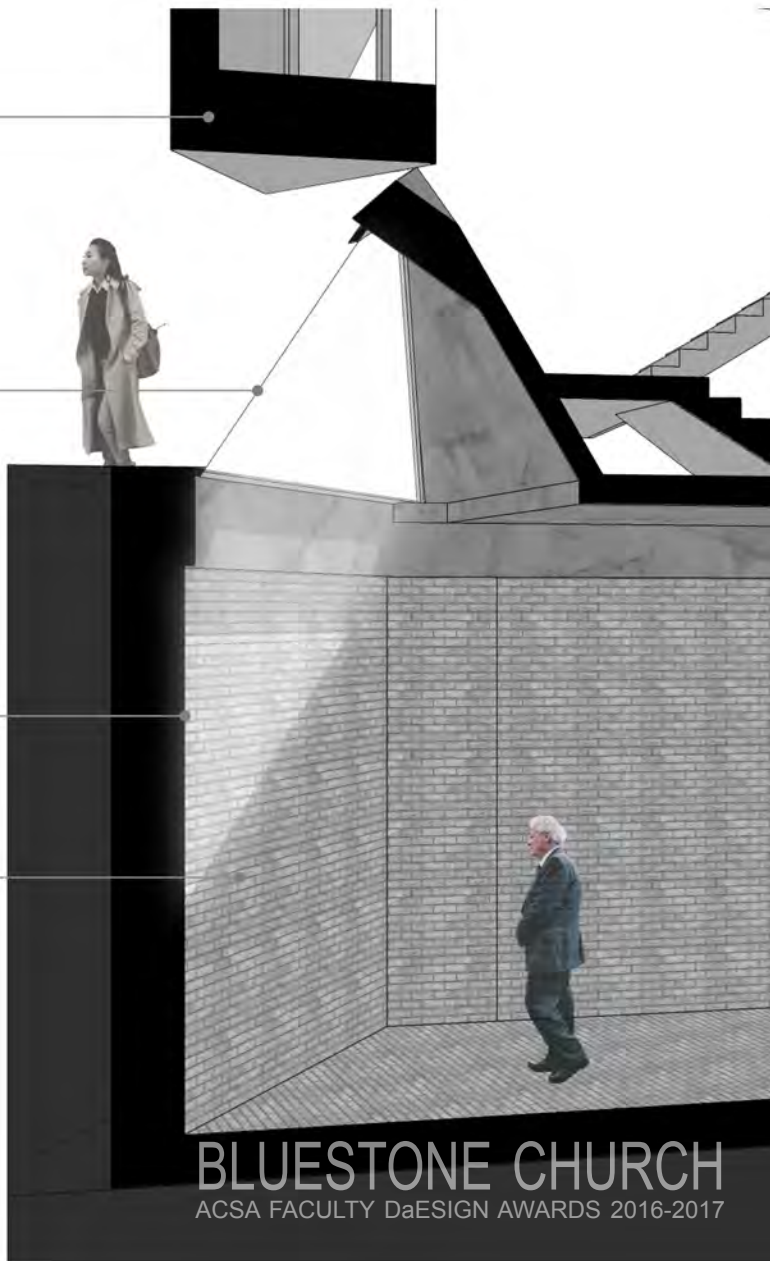
BUILDING ABOVE GROUND

SKY LIGHT w/
24mm FAIR GLASS IN-FILLED IN
EXPOSED CONCRETE
GROUND LEVEL

CEMENT BLOCK
ON TOP OF
DRY AREA /
CAST-IN-PLACE RETAINING WALL

UNDERGROUND CHAPEL

SKYLIGHT DETAIL



BLUESTONE CHURCH
ACSA FACULTY DaESIGN AWARDS 2016-2017



CONSTRUCTION PHOTO: STAIR TO THIRD FLOOR
CONSTRUCTION PHOTO: TRIANGLE SKYLIGHT



CONSTRUCTION PHOTO: WINDOWS AT 4TH FLOOR
CONSTRUCTION PHOTO: LINEAR SKYLIGHT

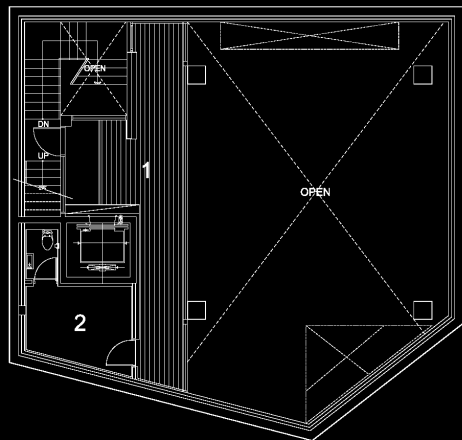


EXTERIOR FINISH TILE



MATERIAL FIELD TEST

MAIN CHAPEL SPACE

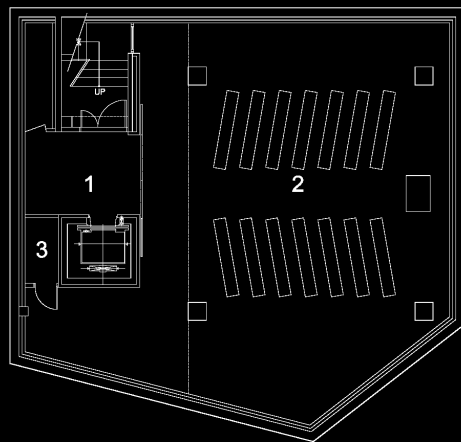


B1 PLAN

1. mezzanine chapel
2. children lounge



INITIAL RENDERING VIEW



B2 PLAN

1. e/v hall
2. main chapel
3. storage



THE MAIN CHAPEL

BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

MAIN CHAPEL SPACE



SECTION MODEL

SECTION MODEL

VIEW TO THE ALTAR



CUSTOM DESIGNED FURNITURE



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

SECTION DEVELOPMENT

ROOF TOP
GATHERING
SPACE

OFFICE

MULTI &
FLEXIBLE SPACE

KIDS / CAFE

NATURAL
LIGHT TO B1

NATURAL
LIGHT TO B1

COMMUNITY

MAIN CHAPEL

[NORTH-SOUTH SECTION PERSPECTIVE]

▼ RF SFL
EL +14,850

▼ RF SFL
EL +11,900

▼ 4F SFL
EL +9,000

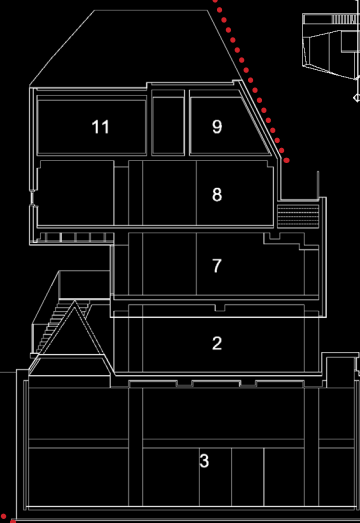
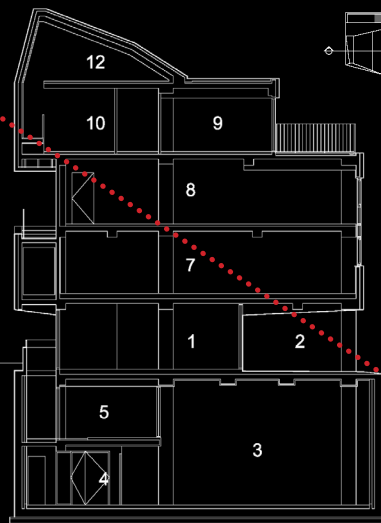
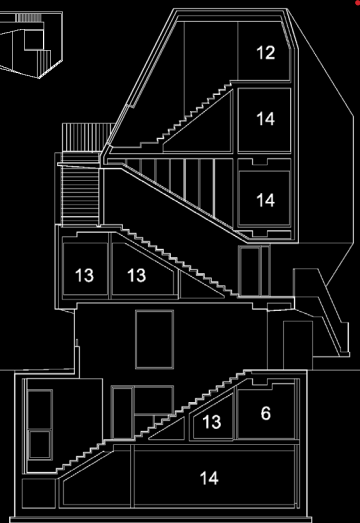
▼ 3F SFL
EL +6,050

▼ 2F SFL
EL +3,100

▼ 1F SFL
EL +0

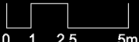
▼ B1F SFL
EL -2,700

▼ B2F SFL
EL -5,500

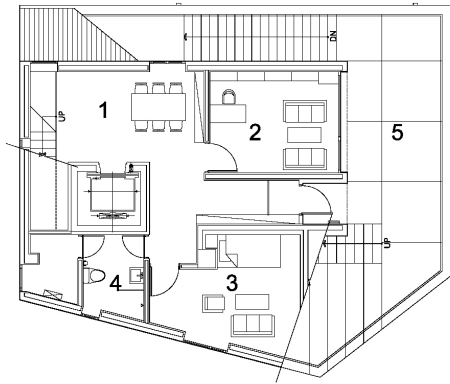


SECTION

- 1. lobby
- 2. courtyard
- 3. main chapel
- 4. e/v hall
- 5. mezzanine chapel
- 6. children lounge
- 7. cafeteria
- 8. multipurpose hall
- 9. office
- 10. lounge
- 11. guest room
- 12. prayer room
- 13. toilet
- 14. storage

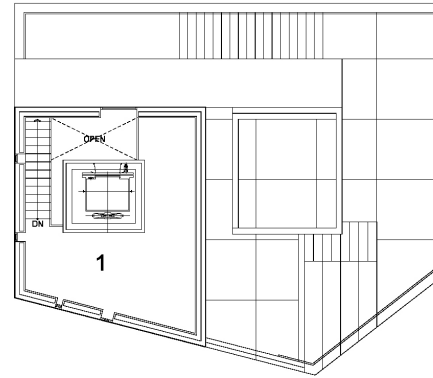


FLOOR PLANS



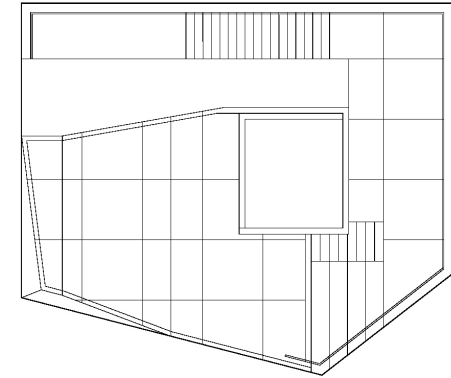
4F PLAN

1. e/v hall & lounge
2. office
3. guest room
4. bath room
5. terrace

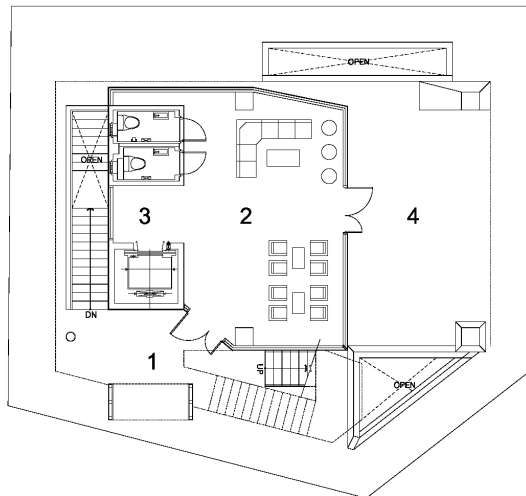


ATTIC PLAN

1. prayer room

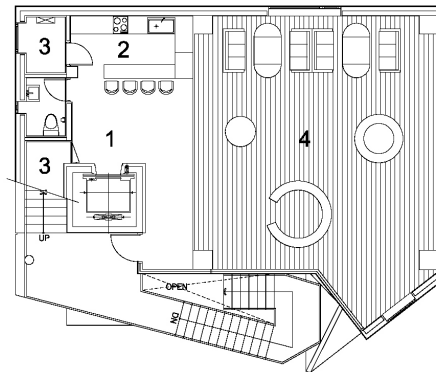


ROOF PLAN



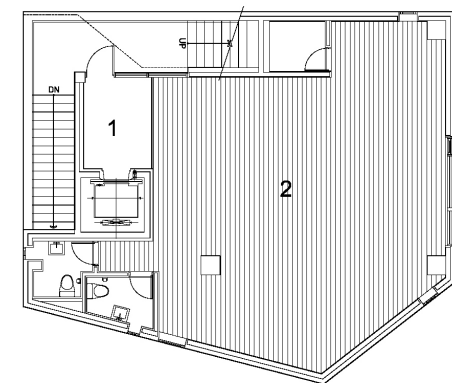
1F PLAN

1. entrance
2. lobby
3. e/v hall
4. courtyard



2F PLAN

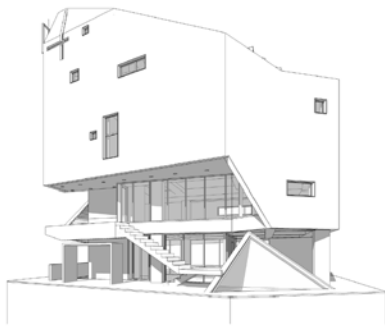
1. e/v hall
2. kitchen
3. storage
4. cafeteria



3F PLAN

1. e/v hall
2. multipurpose hall

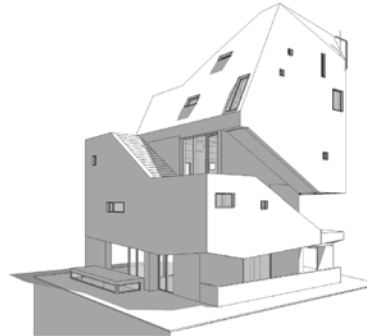
MASSING



SE VIEW: MORE OPENINGS AND
RECESSED STOREFRONT



SW VIEW: MORE OPENINGS AND
RECESSED STOREFRONT



NW VIEW: LESS OPENINGS AND
SLANT MASS



NE VIEW: BIG OPENINGS ON EAST AND
CONTINUED PATH TO THE ROOF



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

ELEVATION DESIGN

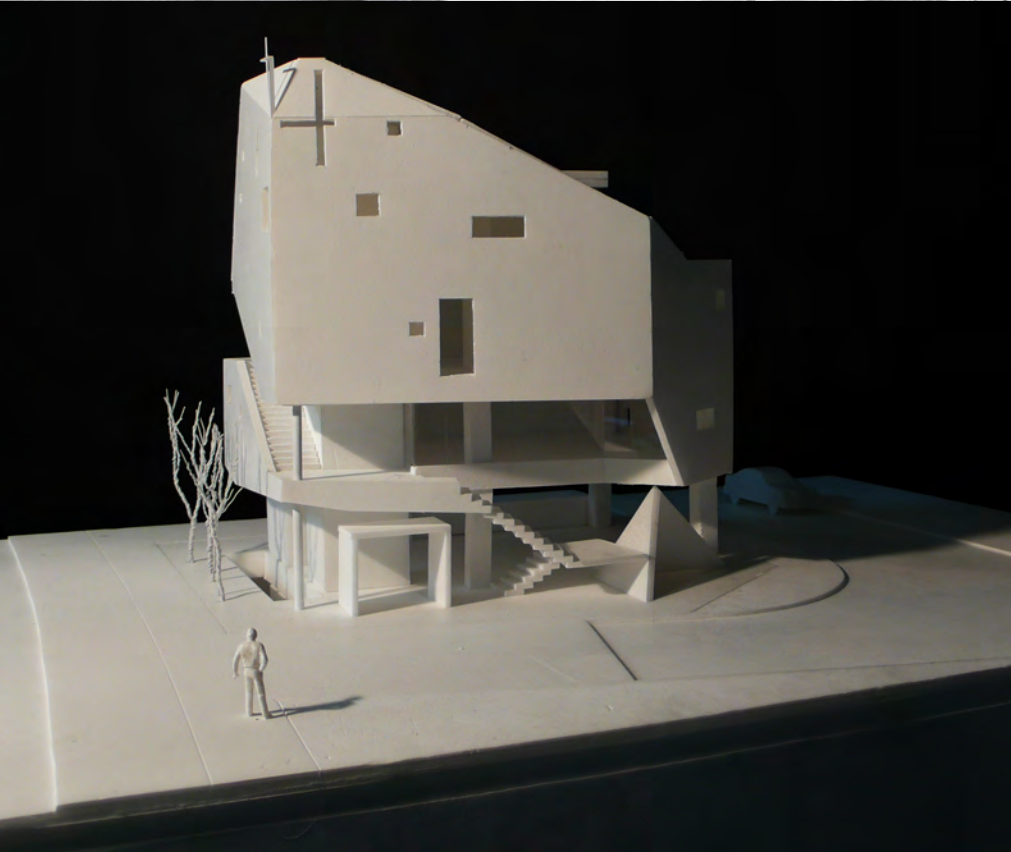


UNWRAPPED ELEVATIONS

Show the relationship between floors and circulation



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017



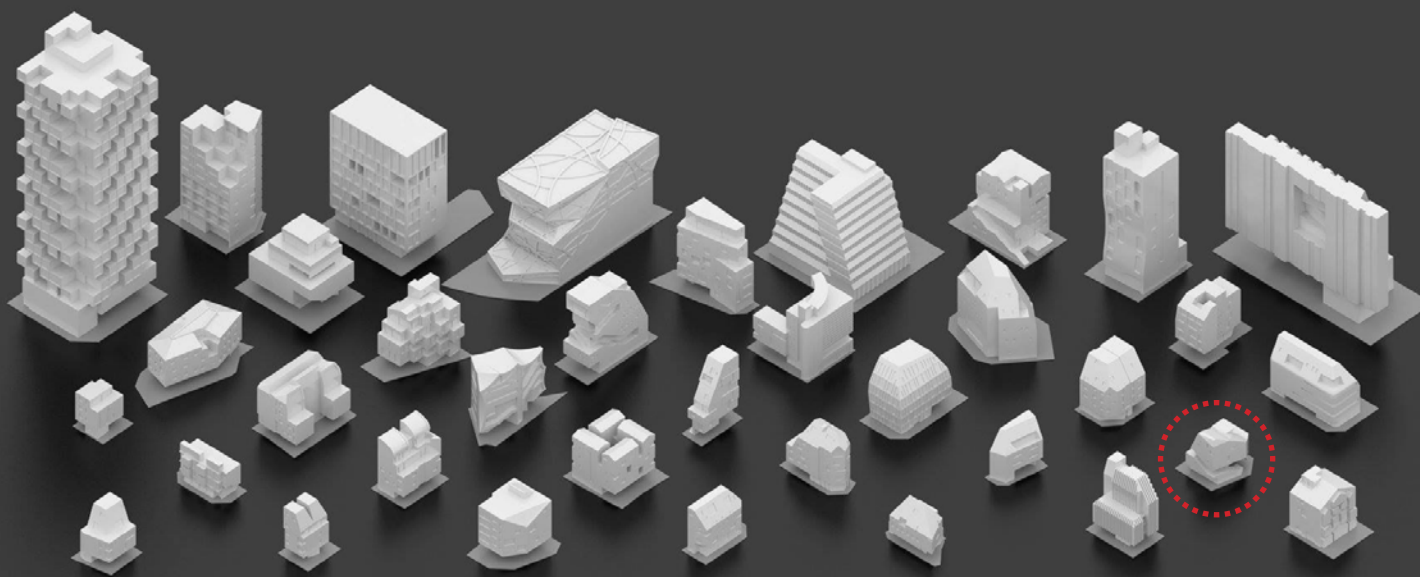
BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

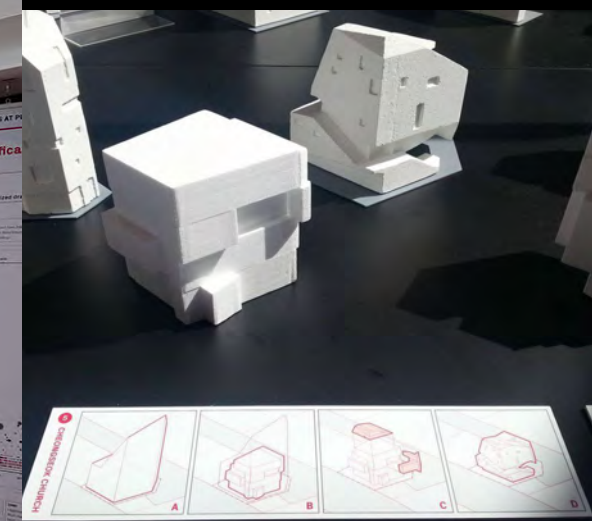


SELECTED AND DISPLAYED AT 2016 VENICE ARCHITECTURE BIENNALE

The Korean Pavilion of the 2016 Venice Architecture Biennale focuses on how the country's architects "perform a high-wire balancing act" between the Seoul metropolitan area's high land values and the government's strict building regulatory system. This balancing act is referred to as "playing the FAR game," where FAR refers to floor area ratio, the ratio of built area to site area. The projects in The FAR Game are primarily medium-scale multi-family housing or mixed-use buildings, meaning the results are highly varied and creative. The Bluestone Church was selected as one of 36 feature projects and has been displaying.

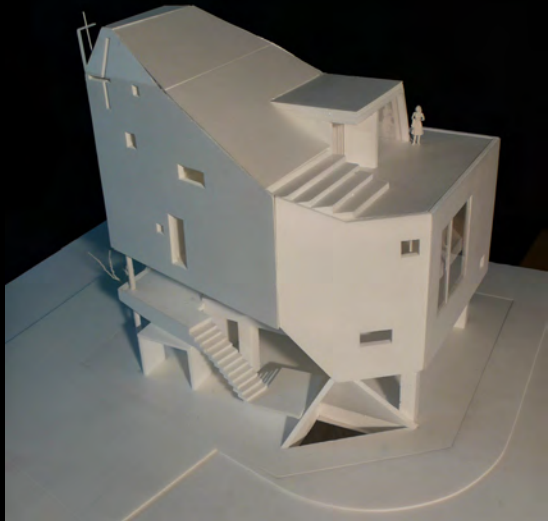
The Korean Pavilion
Biennale Architettura 2016
May 28 - November 27
2016

15. Mostra
Internazionale
di Architettura
Partecipazioni Nazionali



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017

To provide a local identity in undefined new town area and connect as a part of the community, we have considered a storytelling which was from the region and the church name. All basic architectural elements like piloti, stair, setback, and windows as well as humble material could help this storytelling in regional code restriction. This fundamental way a part of my practice and research as a design faculty and architect. This small local church has been used and activated by public and church members successfully after the completion.



BLUESTONE CHURCH
ACSA FACULTY DESIGN AWARDS 2016-2017