IDEA and Materialization
- Concept & Idea
- Materialization of Idea
  - Urban Position
  - Circulation
  - Program
  - Structure
  - Material: Facade, Floor, Ceiling, Roof
- Interior Atmosphere
- Building Technology
Concept & Idea

Pratical Problems:

1. Height Difference
   The idea of connecting the city side and coastline public park faces a practical problem of 7 meters height difference. As a result, a big waterfall staircase is introduced into the building. The staircase itself is not only served as circulation, but as the main collective space where people can sit, relax and communicate.

2. Programs
   As the new council of Unite Nations, various of functions are requested in the project. After a study, the programs are divided into three categories according to the users: Private, collective and public. The project distinguishes them in the vertical way, private functions (offices, conference hall etc) are on the top while public functions (auditorium, chamber) are at the bottom. In between of them is the collective space which is consist of resturants, bars, etc.

3. View of Urban and Ocean
   The site is on the eastern coastline of Manhattan island, enjoying a nice view of both the manhattan city and ocean. How to provide the scene to more users of the building? The users of upper part of the building (UN workers) could enjoy the view of manhattan city, while users of the lower part (tourists, businessmen, delegates, etc) have a nice scene of the ocean when relax on the waterfall stairs.
Step 1
Put a several floors’ building block on the site, facing the green belt from the city.
Step 2
Cut the block by the zigzag line into 2 volumes
Step 3

Separate the two volumes in the vertical way. The upper part is used for private functions, lower part is for public functions, while in between part is the collective space.
The Green belt from the city continues into the inbetween part of the building and arrives at the public green park at the coast line.
The process of the idea, which comes from the practical problems of the project, is simple and strong. Now the question is how to make the idea materialized.
During the whole design process, the idea is achieved and strengthened by different aspects, like urban position, circulation, program, material, structure, etc.
Materialization of the concept

Urban Position
Circulation
Program
Structure
Material
The building block is arranged along the 1st Avenue, which could leave the coastline a public park. After the design of the building, the connection between city and coastline happens at 42nd pedestrian street and inside the building.
The circulation system consists of 4 main staircases, waterfall stairs and a shortcut escalator. The staircases efficiently connect the upper and lower volumes in the vertical way. The waterfall stairs and escalator together form the impression of inbetween collective space.
Lower Part:
Council Chamber, Lounge, Auditorium, Press Room
Materialization
Program/Function

Middle Part:
Bar, Restaurant, Canteen Shop, Entrance Hall
Upper Part: Office, Conference Hall, Storage, Archive storage, Archive working room
1. Concrete Rahmen/Frame Structure
2. Steel I Beam
3. Steel Pillars
4. Hollow core slabs
Materialization
Structure

+26.8

Section A-A 1:200

Section C-C 1:400

Section D-D 1:400
Materialization
Material: Facade, Ceiling, Floor, Roof

Impression of the building block

Nature Stone

Brick

Printed Pattern Translucent Sheet

Idea of material: Wrap the building

Step 1: Horizontal elements wrap the volumes in horizontal way

Step 2: Vertical elements wrap the volumes in the other direction
Materialization
Material: Facade
Climate Thinking of Facade

Orientation/sunlight

South Facade: Horizontal Element

East/West Facade: Vertical Element
Green Roof:
The Vertical elements also continues on to the top of the roof, becoming gree roof. The rows of stones which accommodate the water drains are installed in between the rows of grass.
Ceiling, Floor & Inner facades:
The vertical elements continue into the inbetween space becoming the ceiling and floor. Between the nature stones, the line for lights are placed. The horizontal elements become the inner facade.
Interior Atmosphere
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In between part

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Interior Atmosphere

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