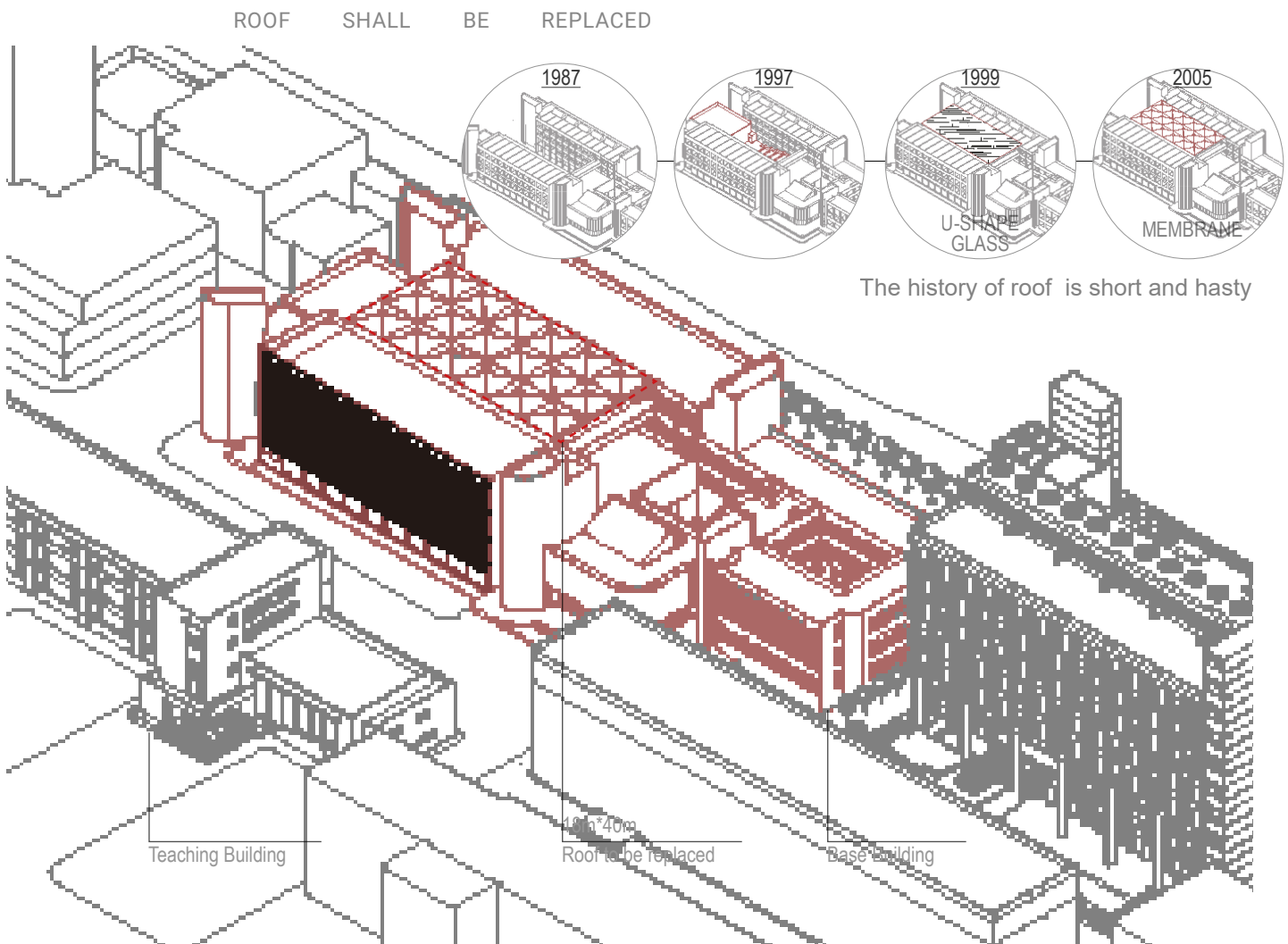
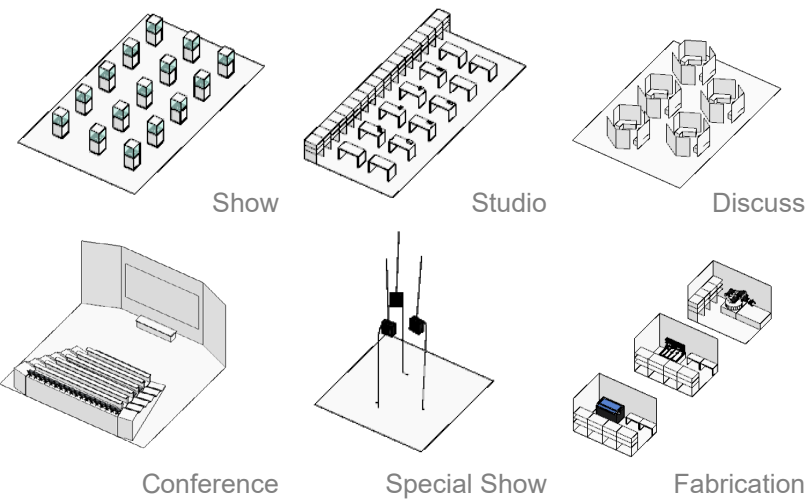
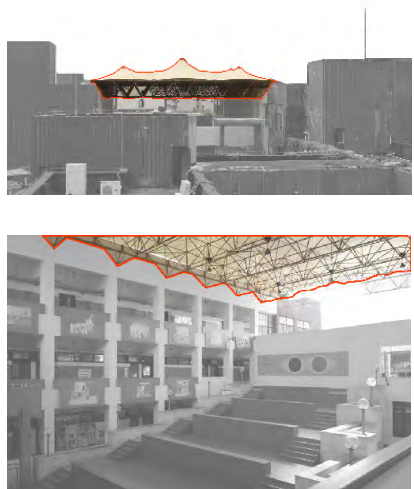


Lobby Renovation - Digital Roof Design

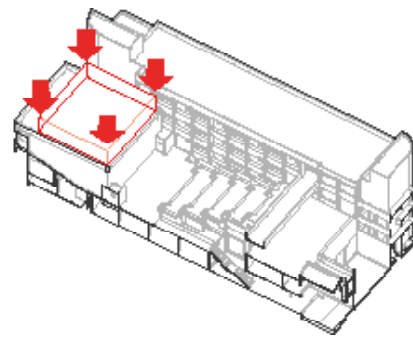
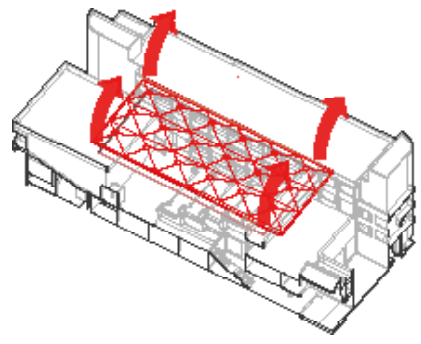
Location: Shanghai
Instructor: Juan C. Qian J.



Because of the domestic population grows and the school expands its enrollment, the old space cannot meet the current needs. Usually, the atrium is used for exhibition. Sometimes more than 120 students and teachers gathered in this area, so crowded.

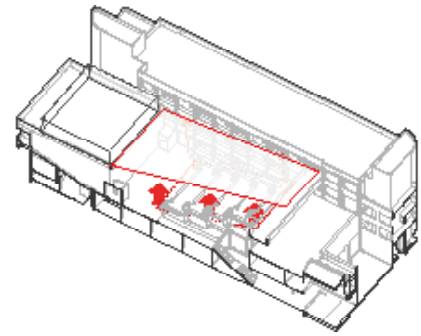


A NEW BOX AND ITS CHAIN ACTION

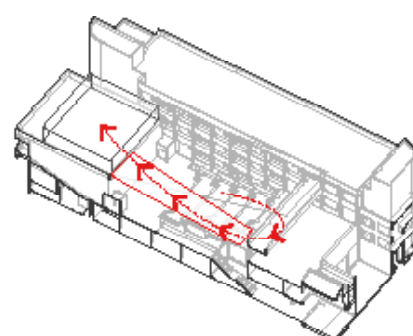


REMOVE

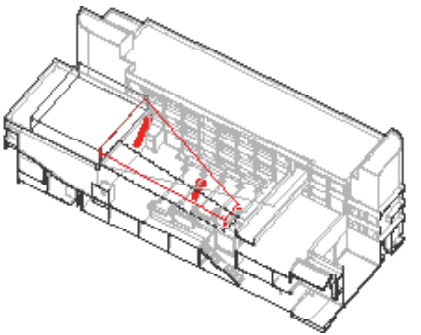
INSERT A NEW BOX



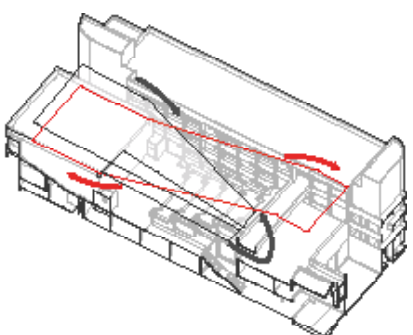
OFFSET



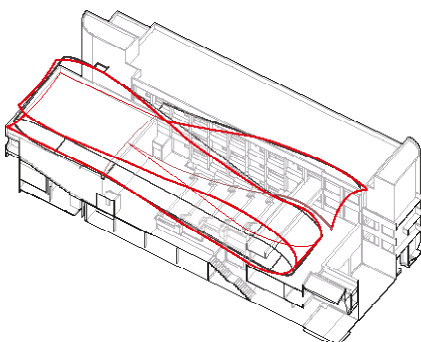
CONNECT



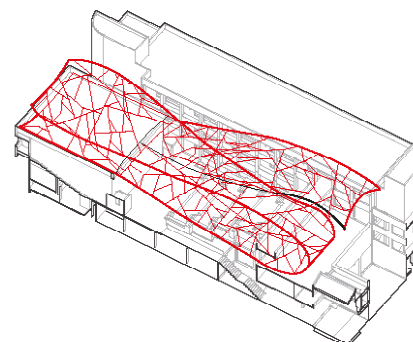
OFFSET



CONNECT



SMOOTH



PATTERN

The old roof is low qualified. Therefore, it has to be moved. To solve the space shortage, a box was inserted into the atrium. In order not to block the sunshine, the new box is located right on the top of the conference room.

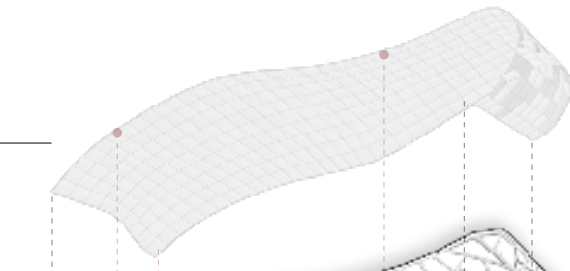
Another important thing is that the atrium is too high, which failed to make people feel warm and safe. Therefore, an elegant scale should be created, which is one of the two new roof surfaces. Meanwhile, a ramp is necessary to connect the old space and the new box.

To protect from the rainfall, the new ramp, or we say the bridge, needs a cover. By far, the form of two twisted surfaces come to the surface.

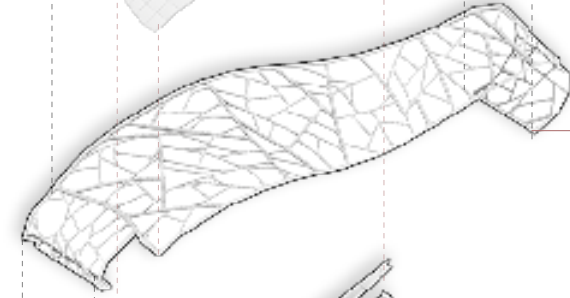
The new roof shall be smooth and gentle, as a flying carpet. Rethinking the truss grid itself, hoping to create a feeling of pulling between the two old buildings in the north and south.

DUAL STRUCTURE + SHADE

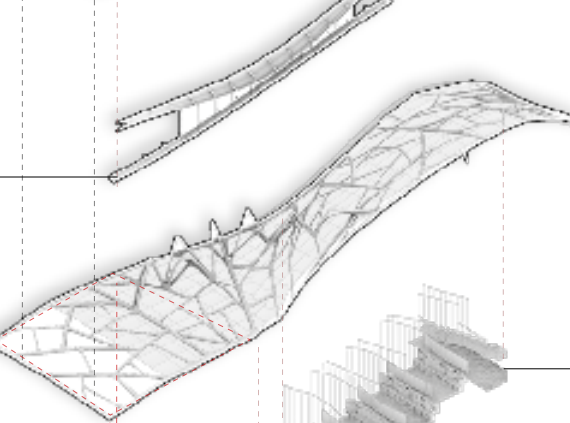
Glass Roof with Shade



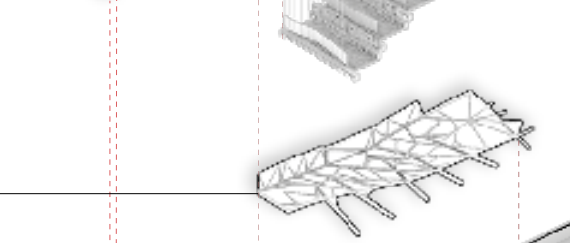
Upper Structure Net



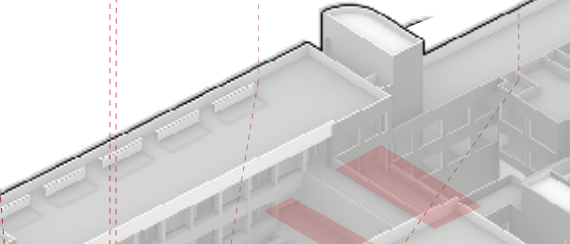
Lower Structure Net



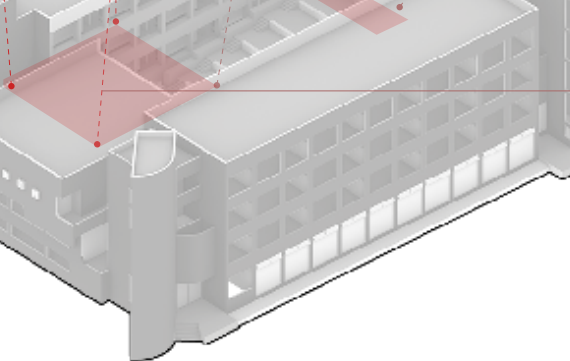
Water Drainage



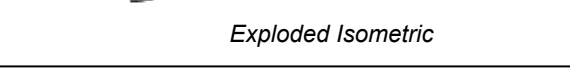
Exhibition Board Hang from the Net



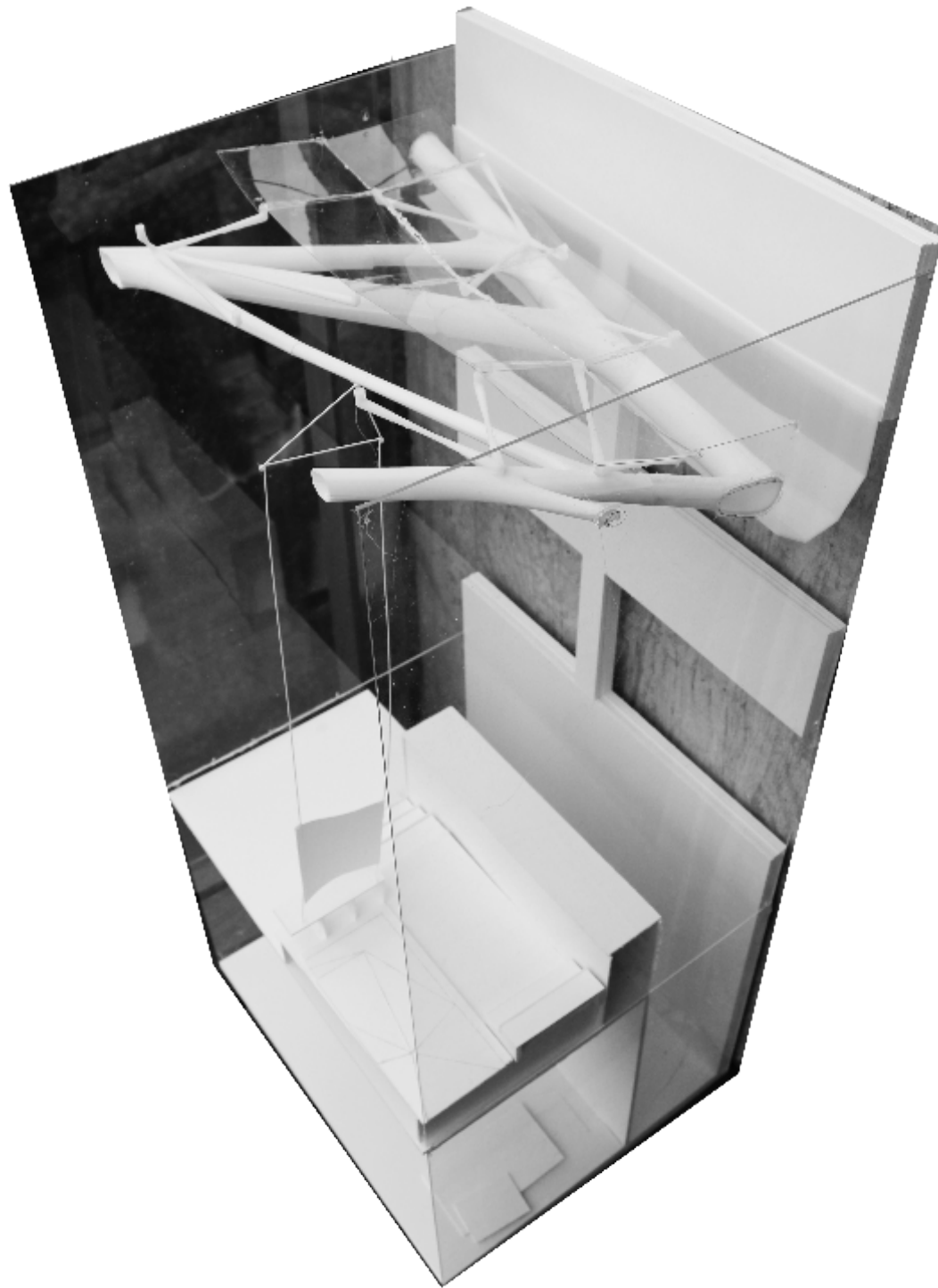
Structure for Staircase Ramp



A New Box



Exploded Isometric



1:25 Detail Model

As showed in the real model, the new system is controled under the roof of the old buildings so as to keep a low profile.



Staircase View



Exhibition View