

## Museum of Modern Art, Denmark Royal Academy of Arts, Copenhagen, Denmark

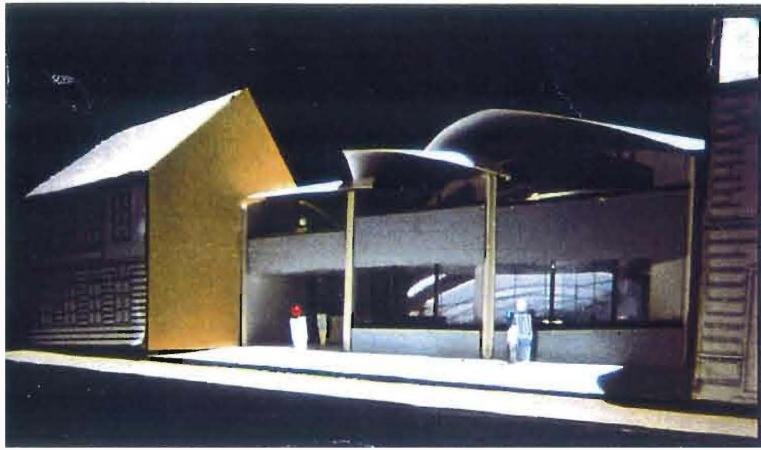


Fig. 1. View of plaza and facade from main street.

This was a semester long project whose task was to design a 1000 sq. m. modern museum and place it in a street of traditional facades. As it is a modern museum, I felt the building should reflect its modernity rather than pretending to fit in with its surroundings. To mitigate this difference, I set the building back to minimize the disparate facades, thus creating a small plaza. Nevertheless, the floor levels do follow the traditional buildings' floor and window heights. In keeping with Denmark's strong connection to water and the sea, I designed the roof to reflect sails of a ship and colored the facade blue.(See fig. 1 and 3).

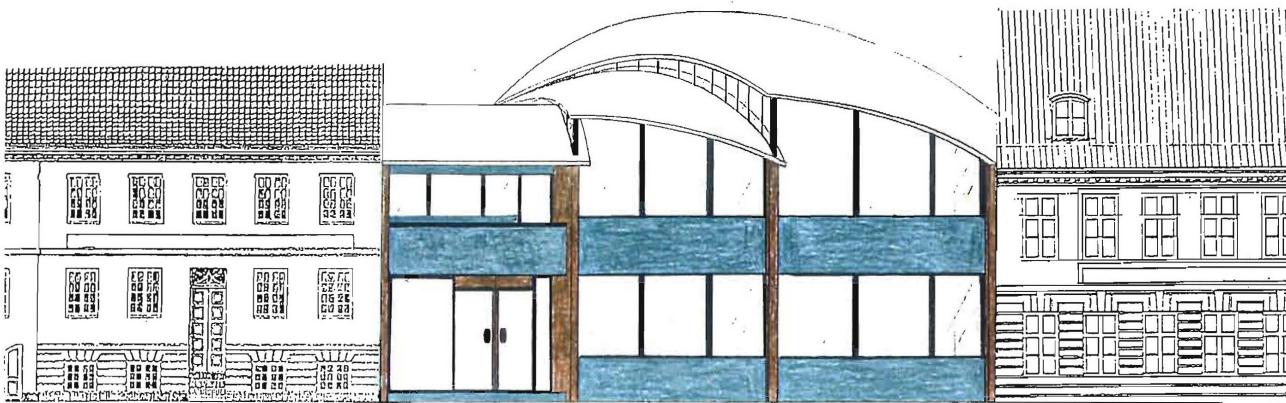
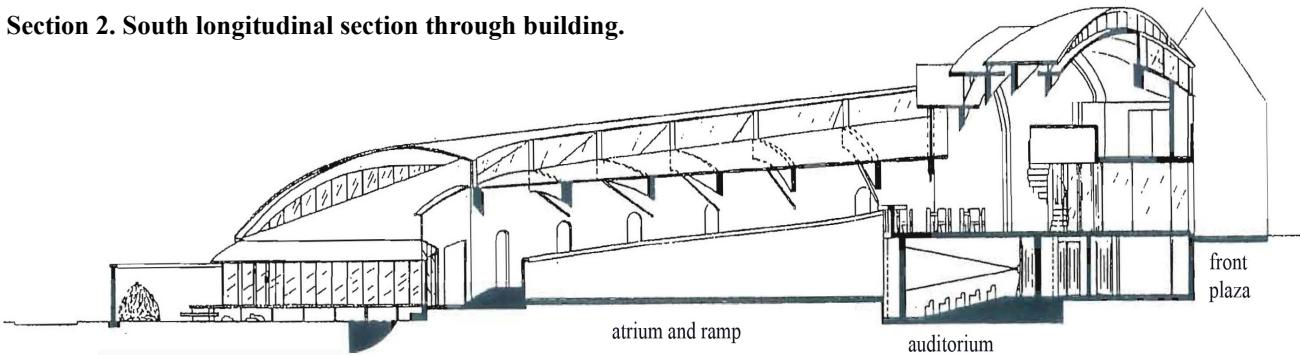


Fig. 3. Entry elevation west.

Part of the program requirements were that the roof could not be higher than those of the neighboring buildings (10 meters), up to 10 meters back from the street. Along the sides of the building, the roof had to slope starting at 3 meters, sloping at no less than 45 degrees, up to 7 meters high. Also, the building could not be supported by the neighboring buildings and no windows were allowed along the sides of the building.

Section 2. South longitudinal section through building.



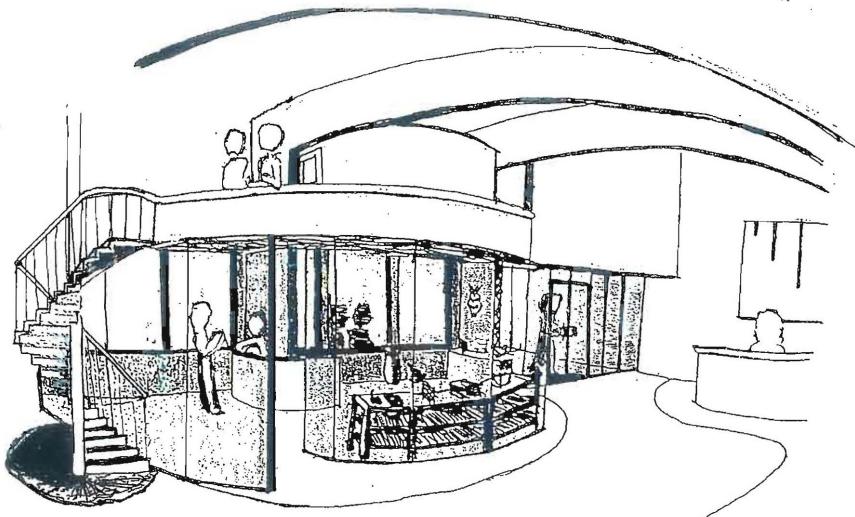


Fig. 7. Sketch of entry area, with bookshop to the left, offices above and ticket stand to the right.

Additional program requirements were 10 small exhibition spaces, an auditorium, cafe, bookshop, information and ticket desk, coat check, office space, storage, workshop space, and toilets. Additionally, one may add a plaza, a garden, and or an atrium.

When one enters the building, one is greeted by the ticket and information booth and cafe overlooking the atrium. Opposite is the bookshop with offices above.



Fig. 8. Model view of ticket and cafe counter, balcony overlooking atrium and roof structure.

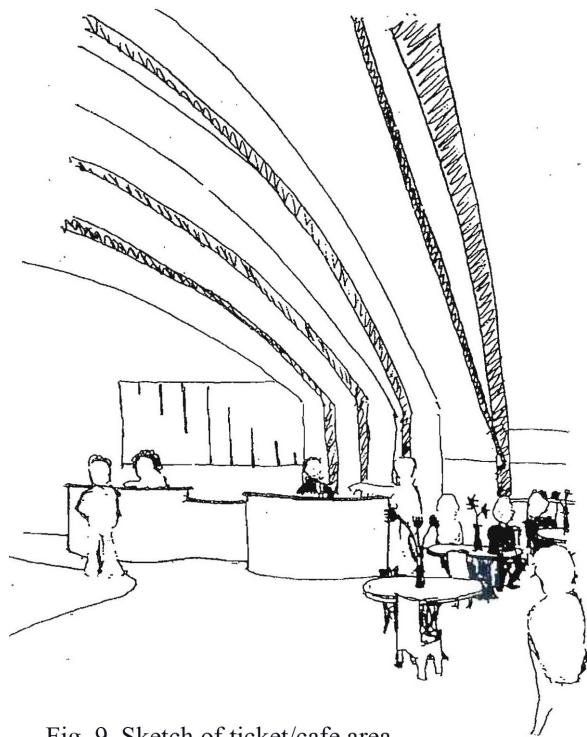


Fig. 9. Sketch of ticket/cafe area.

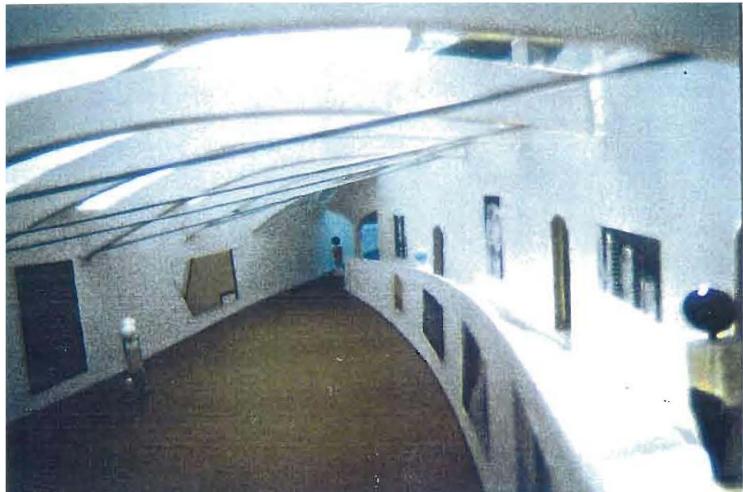


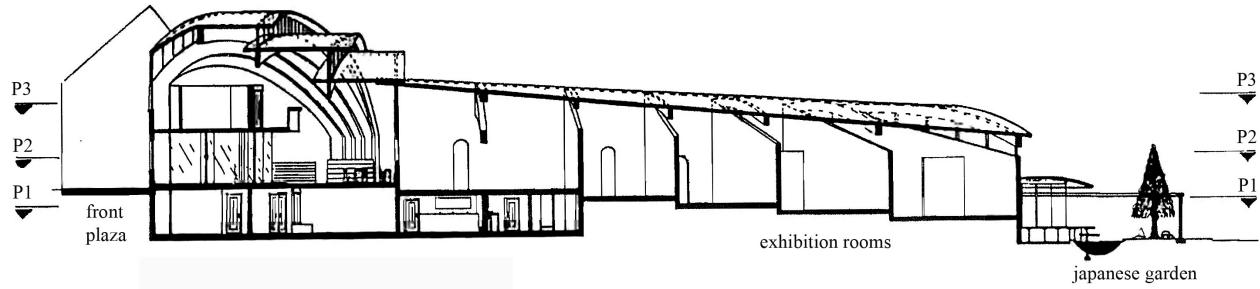
Fig. 5. View of atrium ramp and entrance to exhibition spaces on right.

From the balcony entry area, one walks down the ramp and can enter the exhibition rooms along the way. The rooms are also connected on the interior. The ramp wall is structural and holds clerestory windows that bring light into the exhibition spaces. The roof itself is translucent, bringing diffused light into the atrium, while exposed beams express the space's structure.

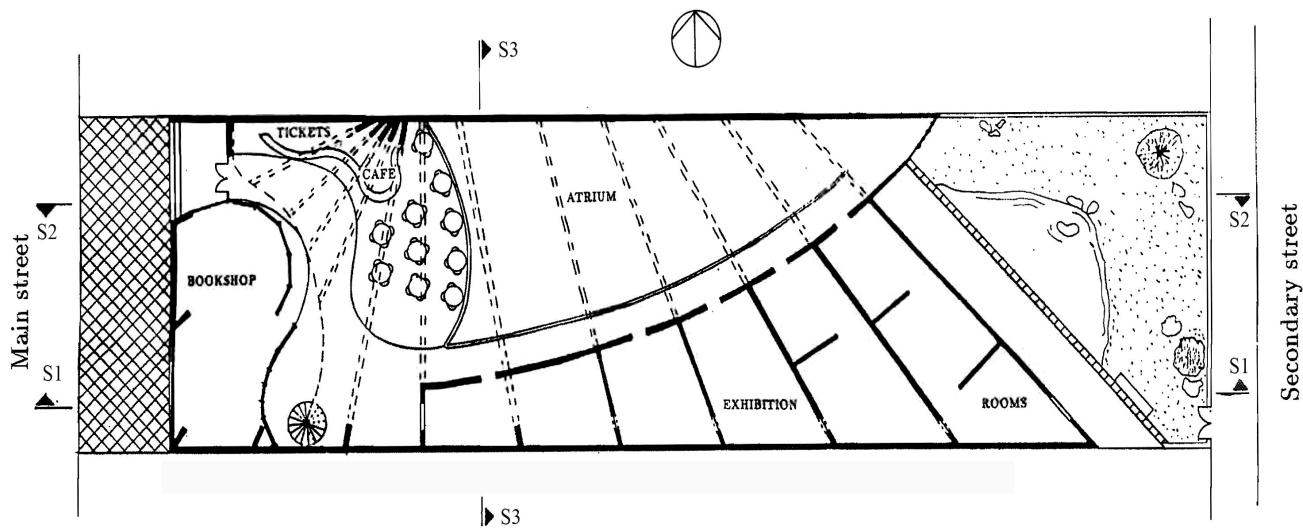
When one arrives at the bottom of the ramp and turns toward the atrium, the rotunda of the auditorium comes into view. This structural element supports the entrance balcony area above while it's thick walls provide acoustic insulation for the activities within. Beyond the auditorium is the workshop, toilets and storage space (see floor plans, next page).



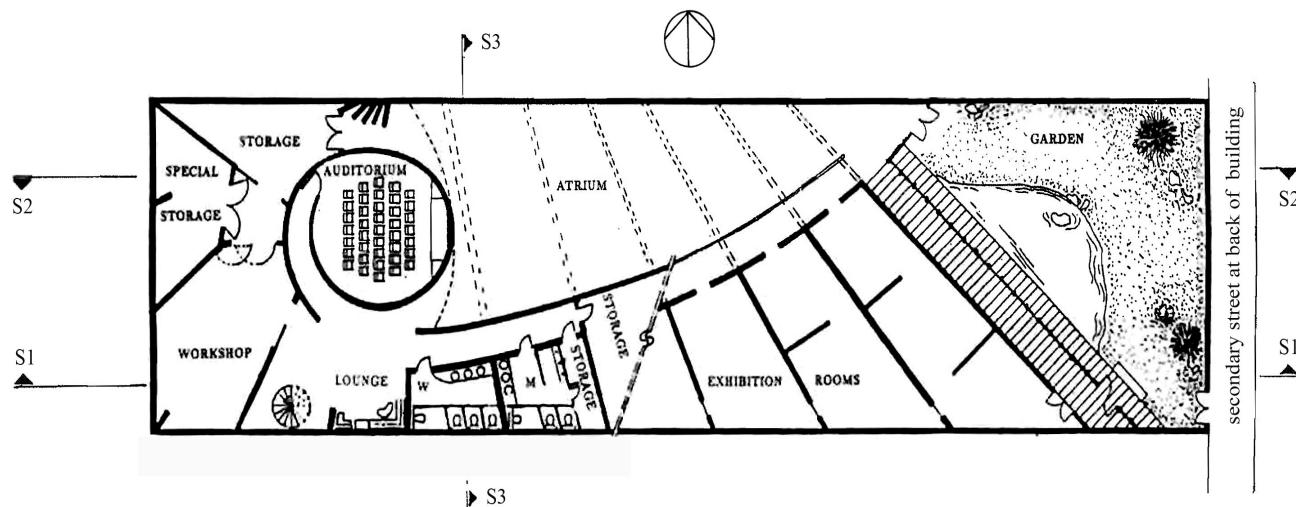
Fig. 6. View from bottom of ramp back toward atrium, auditorium beneath and entrance area above.



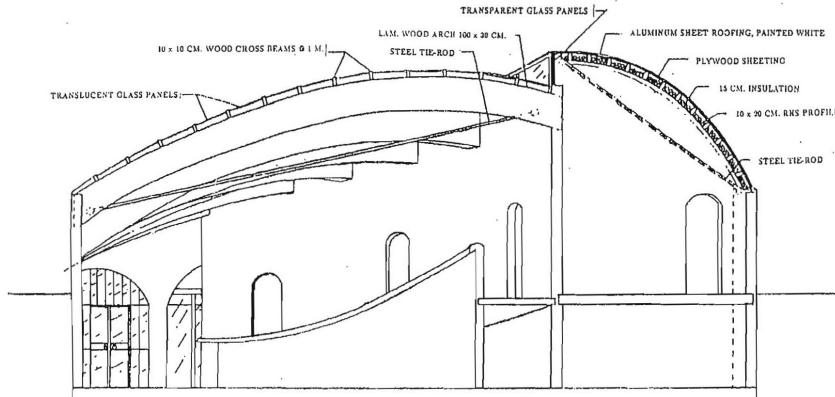
**Longitudinal section 1 facing north.**



**Plan 2. Main street level including entry area, atrium below and exhibition rooms descending along the ramp.**



**Plan 1. View at atrium floor level and under entry area to auditorium and other functions.**



Section 3. Cross section east showing atrium and roof materials.

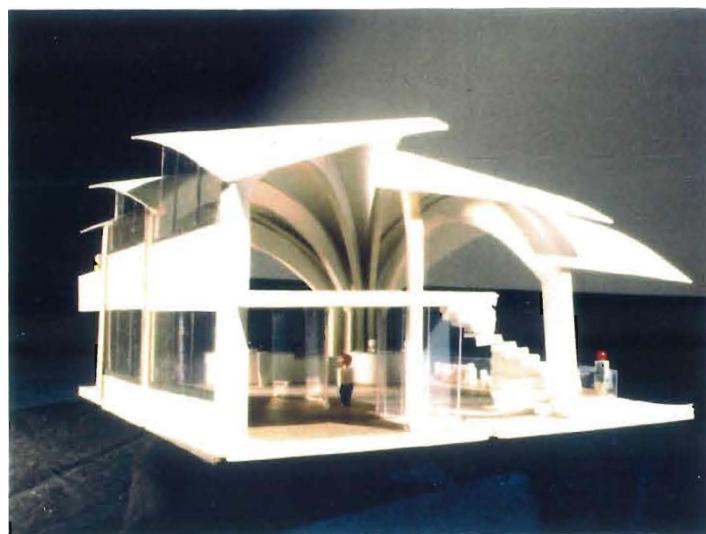
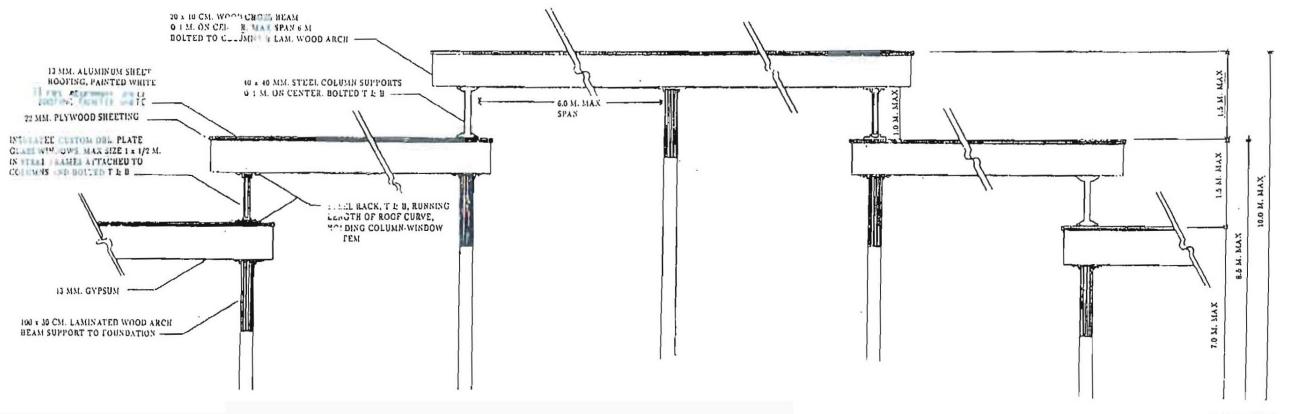


Fig. 12. Detached segment of model looking into entry area and roof structure.



#### **Section 4. Construction detail of roof system over entry/cafe area.**