

# Implementation of SLLA Strategic Plan (2016/2022)

**Project Theme: 'Architectural designs for library building, interior layout and library furniture for small and mid-level School Library and Learning Resource Centers in Sri Lanka'**

**SLLA School Libraries Group 2018/2019**



D. R. Chandima Dissanayake (Convener)  
email:chandimadiss5@gmail.com



Consultant Architect  
M.H Nadeeshan Vijayanga

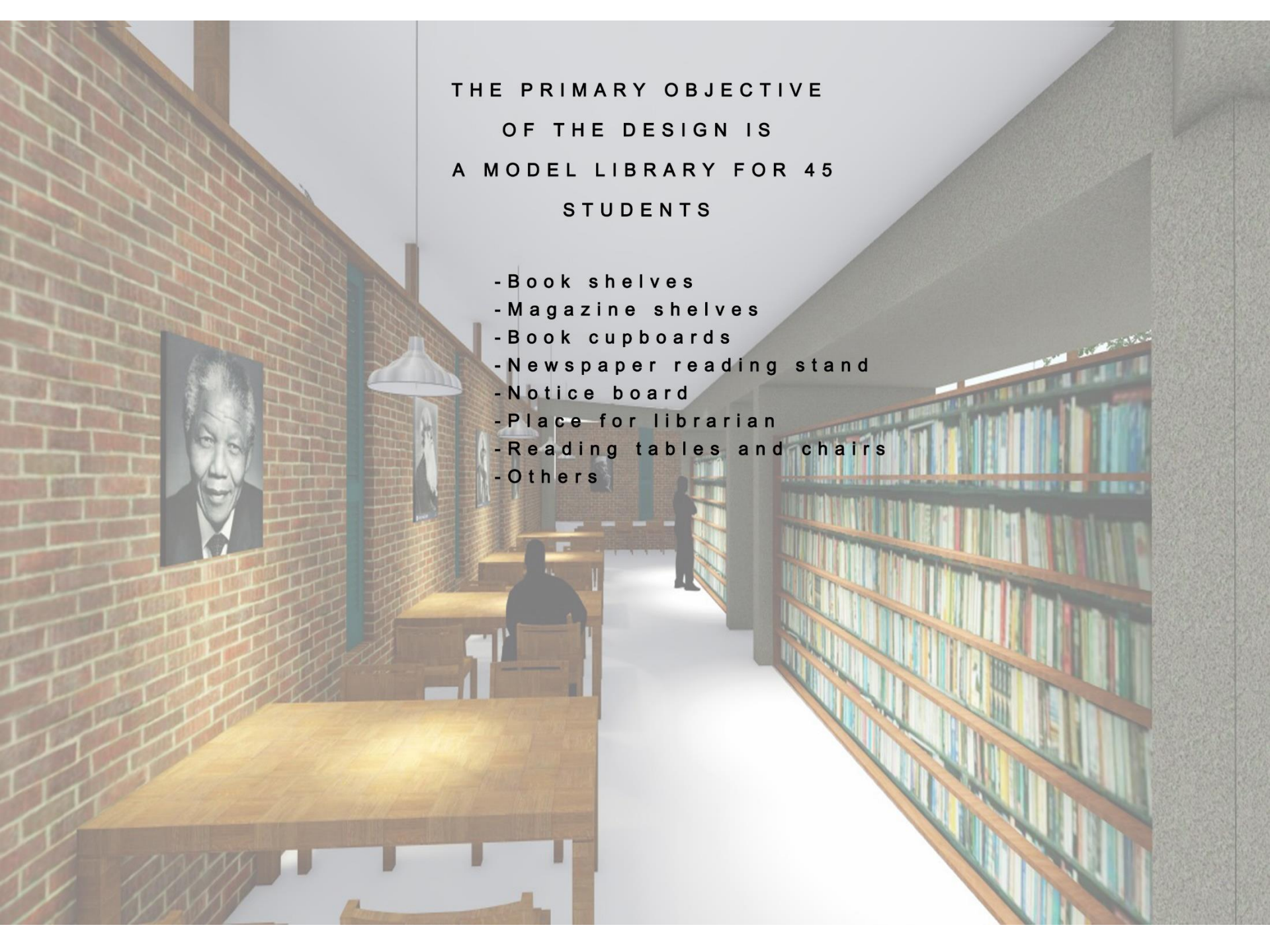
Special Thanks to Mr. Upali Amarasiri, Convener/COMAISP (2018/2020) for all the assistance, guidance and encouragement.

"The School Library functions as a vital instrument in the educational process, not as a separate entity isolated from the total school program, but involved in the teaching and learning process" International Association of School Librarianship (IASL)




PROPOSED SCHOOL LIBRARY DESIGN

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THE PRIMARY OBJECTIVE  
OF THE DESIGN IS  
A MODEL LIBRARY FOR 45  
STUDENTS

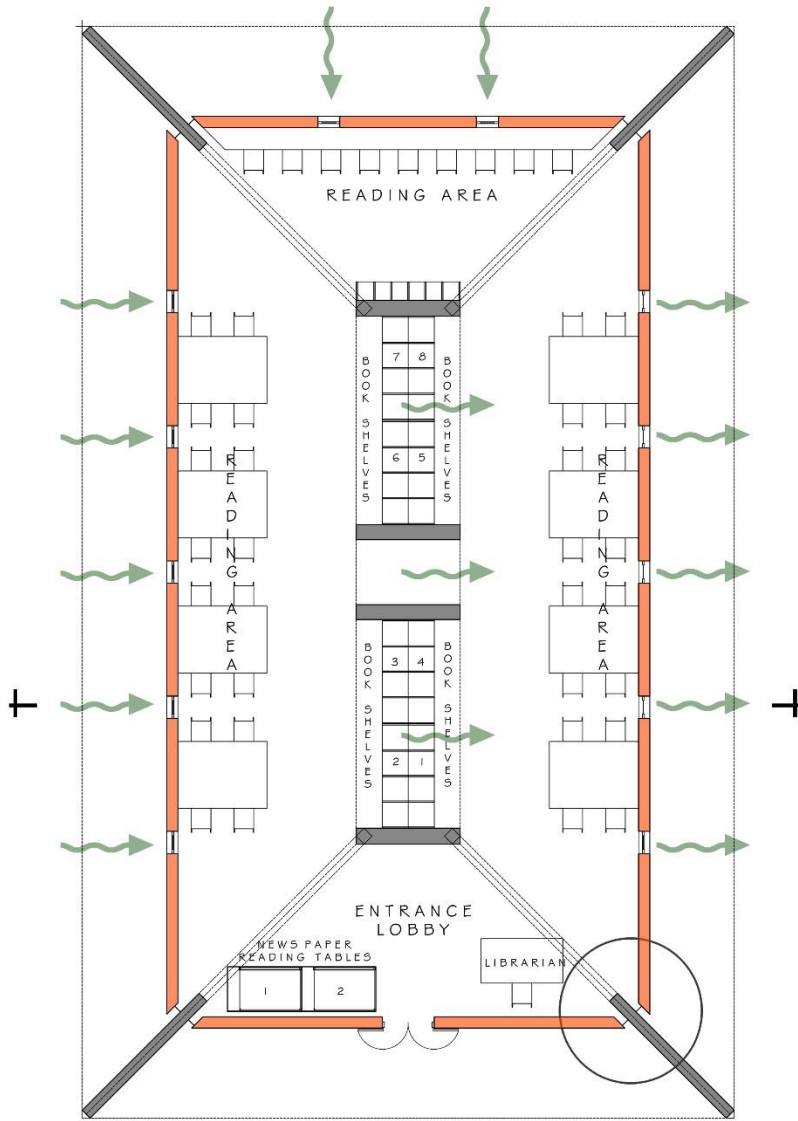
- Book shelves
- Magazine shelves
- Book cupboards
- Newspaper reading stand
- Notice board
- Place for librarian
- Reading tables and chairs
- Others



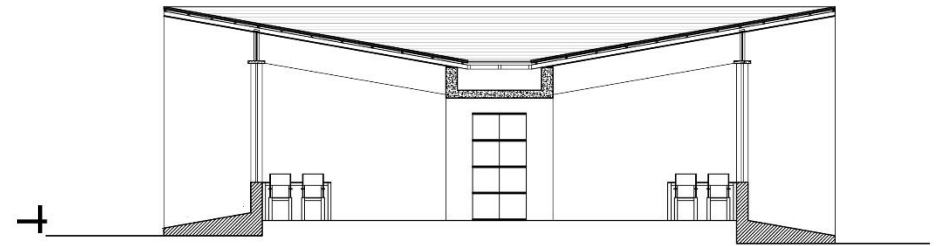
Architectural orientation is central to the concept of a model, which can be created in any setting and manageable in a simple design. The space is designed to be able to capture attention in a limited space. There is main format to share the space according to the concept of focus, making it easy to use the books.

Architectural strategies have been used to better and optimize the light and air needed to maintain the functional comfort. The roof is designed to slope into the building and due to its inclination, more light is obtained. Moreover, the appearance of the exterior of the building is simple and neutral. Add to this the collection of rainwater and the use of solar panels to generate electricity can be done as optional. A concept of a zero energy sustainable building will be effected due to this approach.

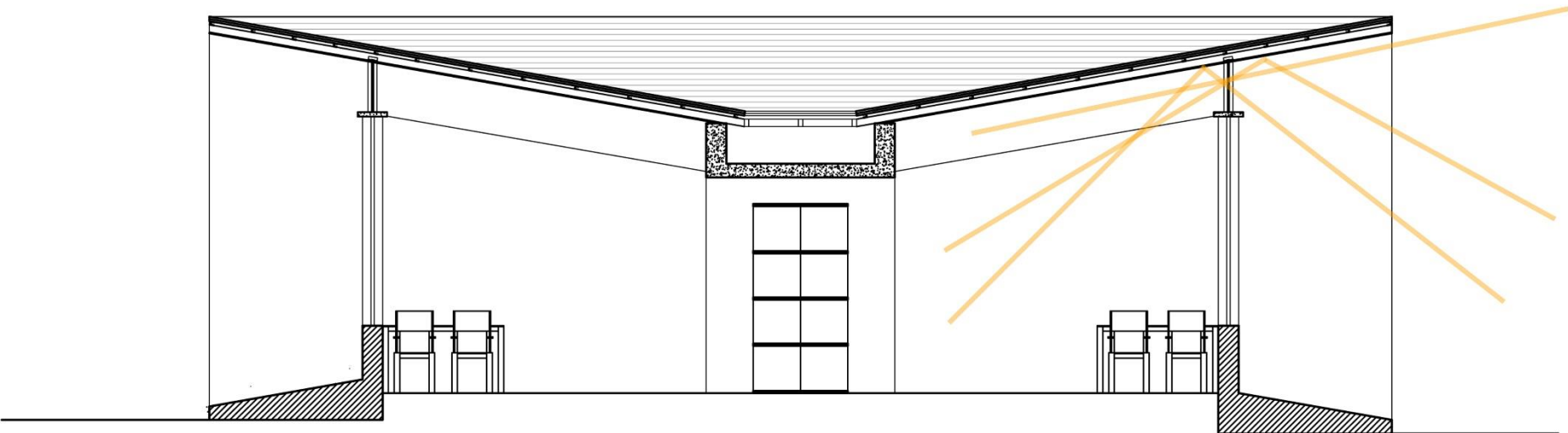
The outer walls are located in such a way that they are not connected to the main structure except from roof, allowing the walls to be made into brick walls or other suitable alteration. It is depended to economical concerns.



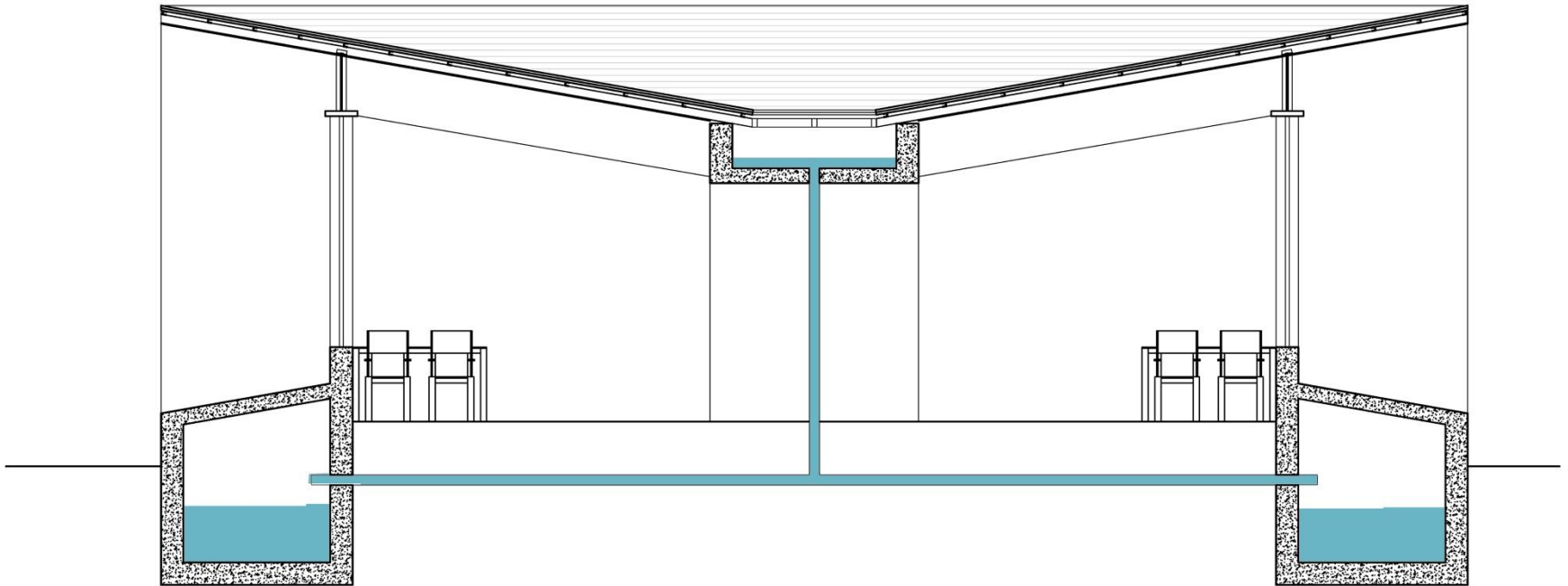
The layout of the building designed to be simple with consists of two parts. In addition to the architectural concept, separation of the main structure and envelope walls are designed with economical concerns. The main structure consists four main columns which are equally distributed laod of the roof .Aleranative low cost materials such as exposed bricks can be used to construct the envelope walls.



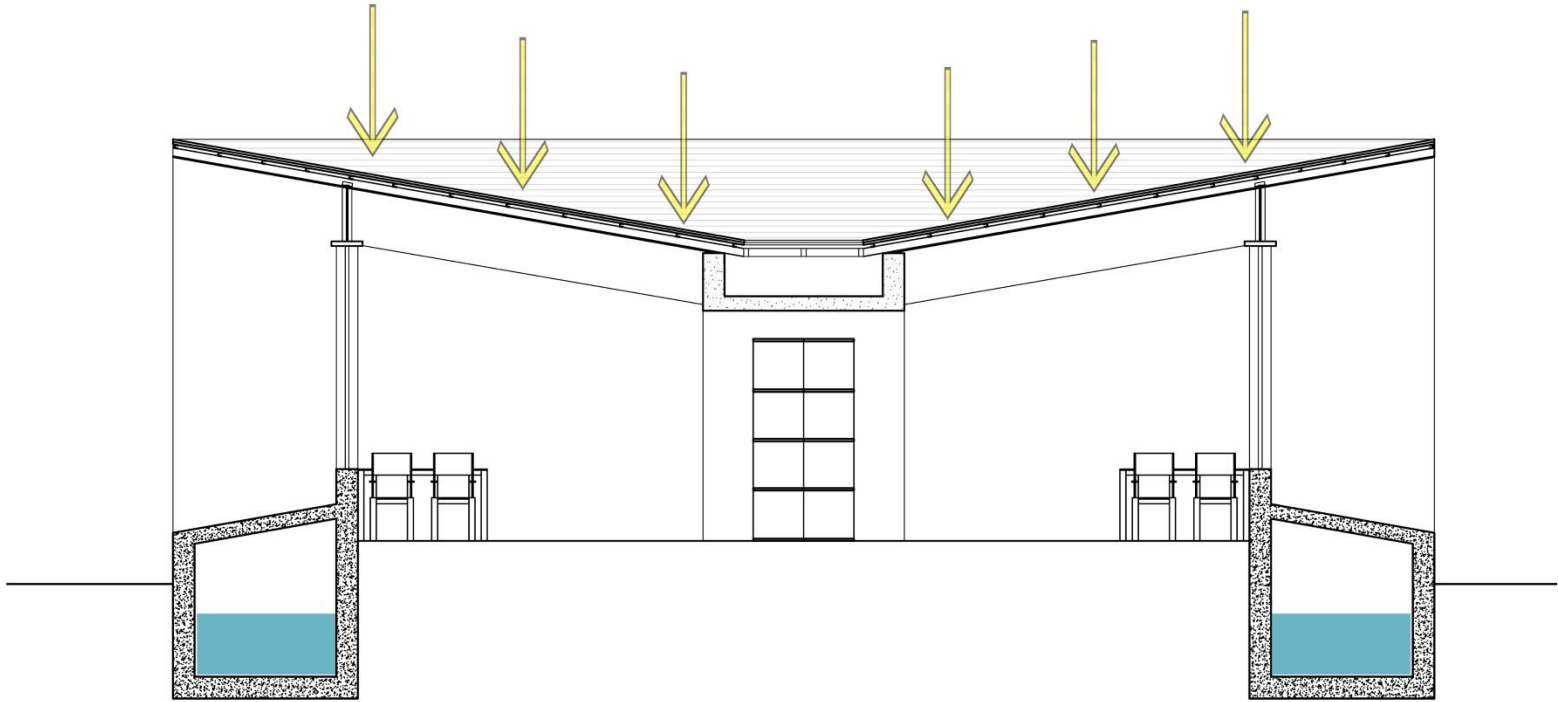
There are series of pivoted louver windows which executed cross ventilation and natural light. The same top beam act as both lintel for the windows and tie beam for the walls . Also it distribtes roof load equally which comes through the concrete stifner columns as shown in the section.Those concrete stifner columns located in equal distances and directly connected with GI box bars to support the roof without a wall plate.



The window light enters the building through the fixed glass strip located on the top of the brick walls and it allows the ceiling surface to flow and to bring more light and reflections to the inner space.

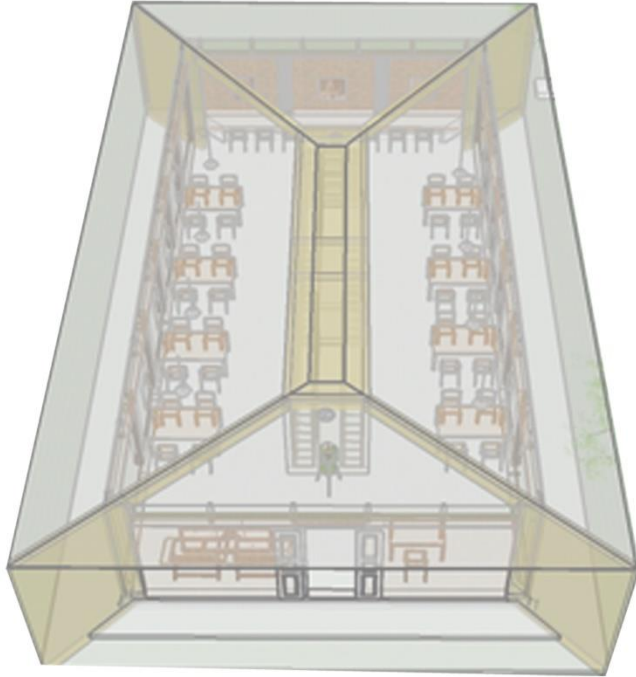


The concrete gutter which collects all the rain water and distributes in to the harvesting tanks located in either sides. Those tanks act as the plinths for the building and they collect, preserve maximum capacity of rainwater.

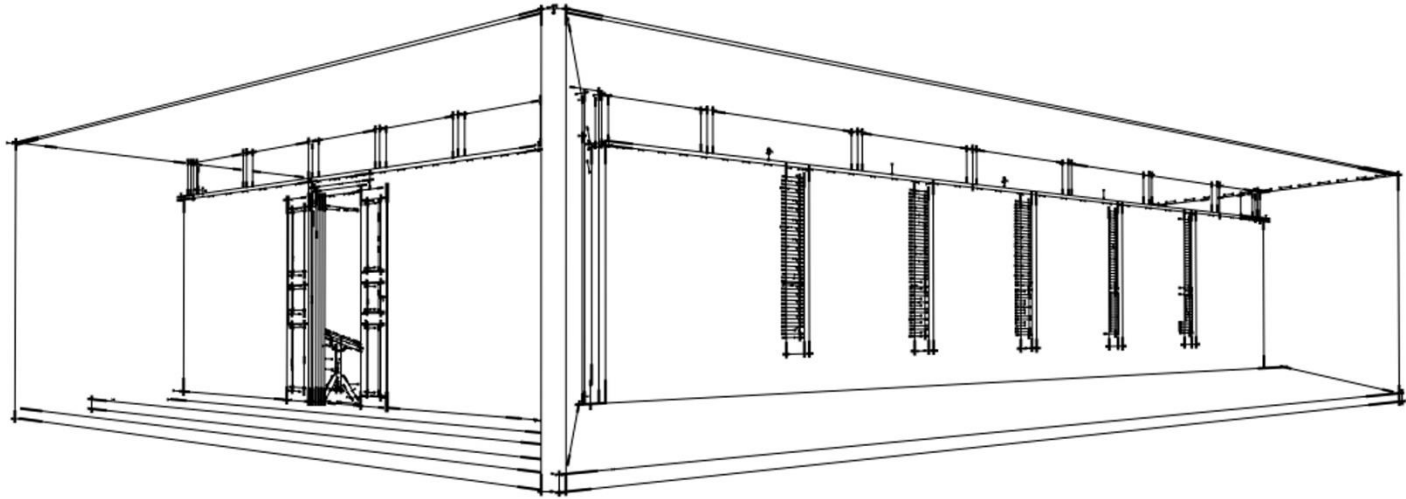


The roof is intended to meet several objectives by sloping inside the building. In addition to the architectural concepts, rainwater harvesting and electricity energy from solar are two optional additions to run a zero energy sustainable building.





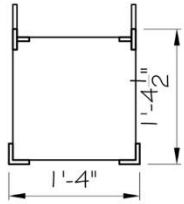
The four concrete fins and the concrete gutter in the middle connected each others with internal concrete beams. As the main elements concrete fins give character to the building.



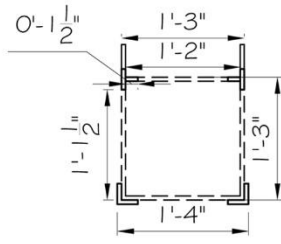
TECHNICAL DRAWINGS

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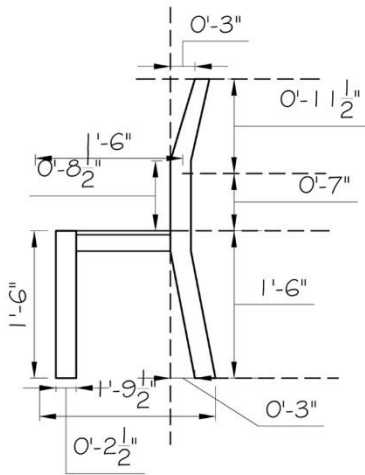




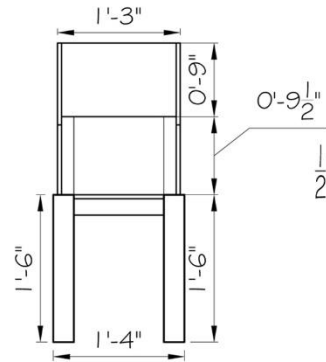
PLAN



PLAN



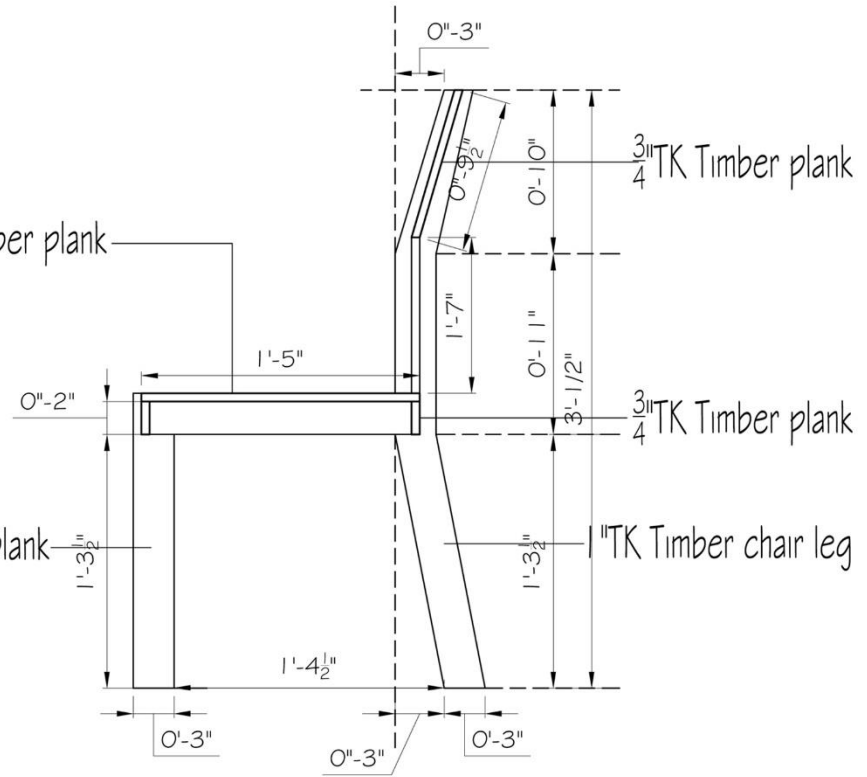
SIDE ELEVATION



FRONT ELEVATION

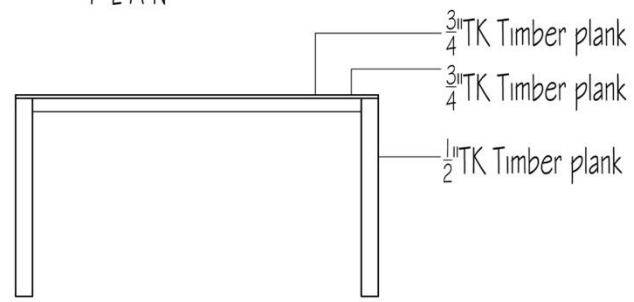
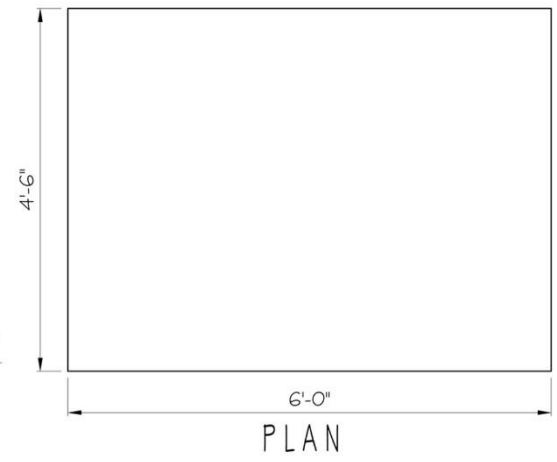
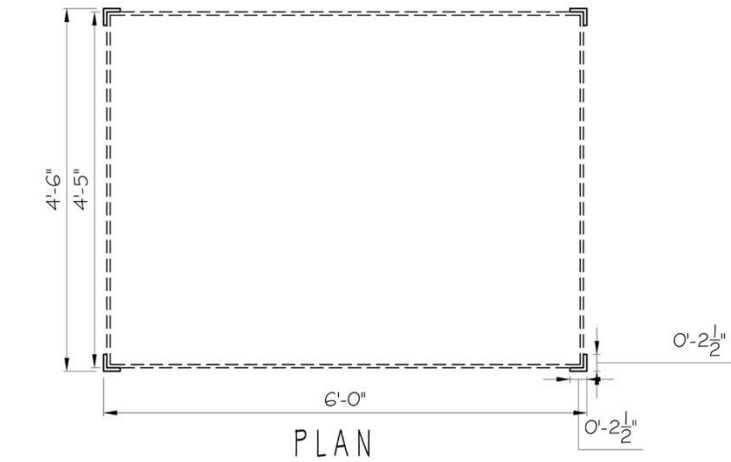
1"TK Timber plank

1/2"TK Timber plank



SECTION

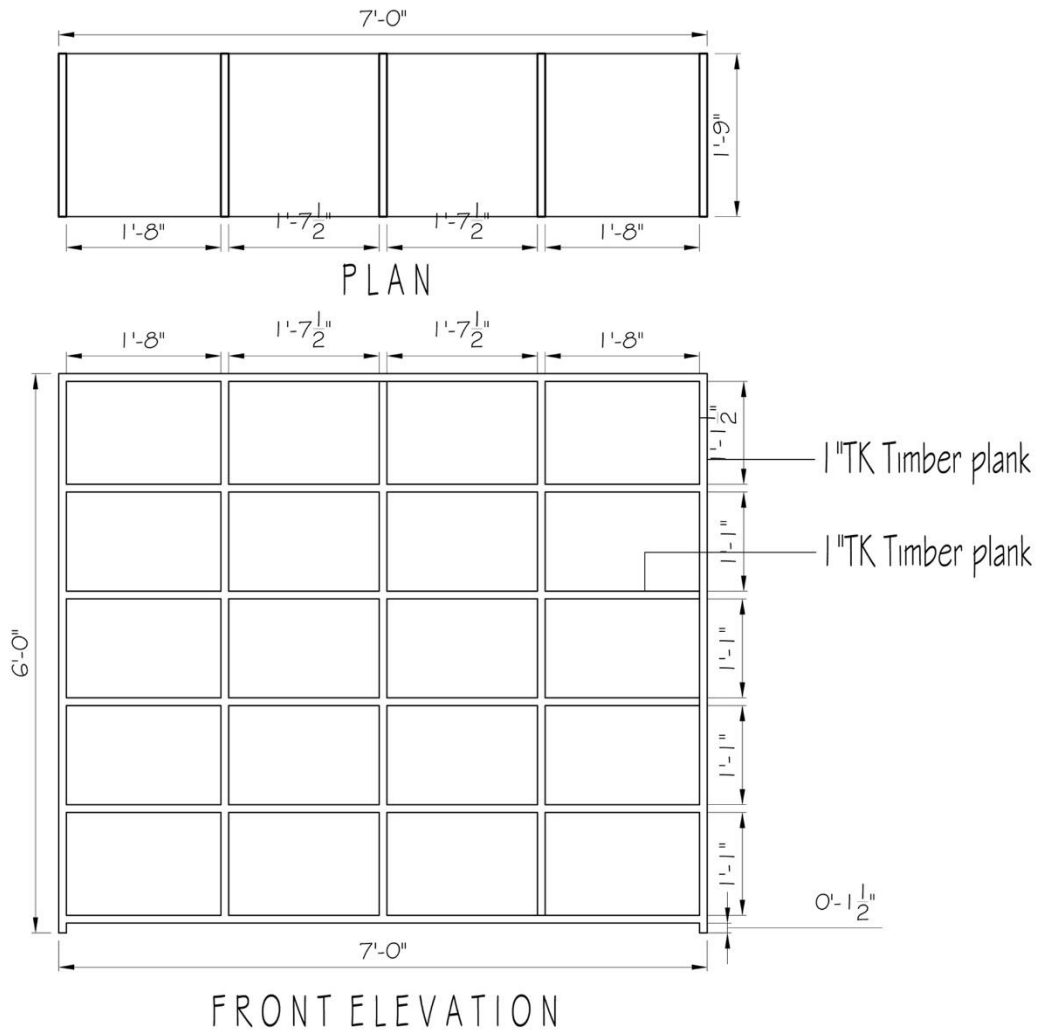
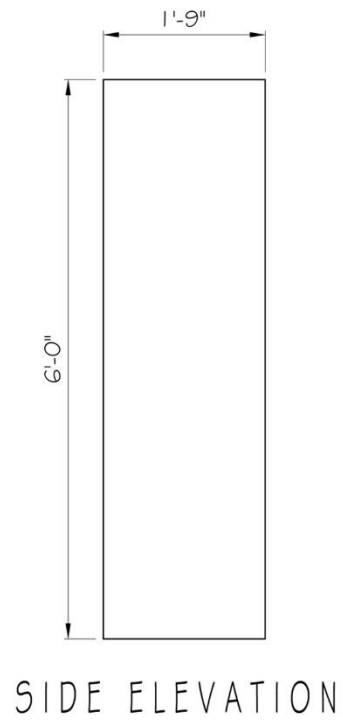
USERS CHAIR DESIGN



# TABLE DESIGN FOR LIBRARY USERS

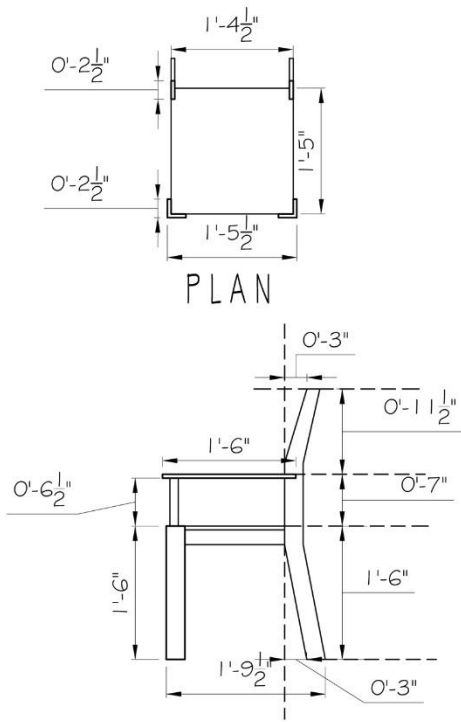
USERS TABLE DESIGN

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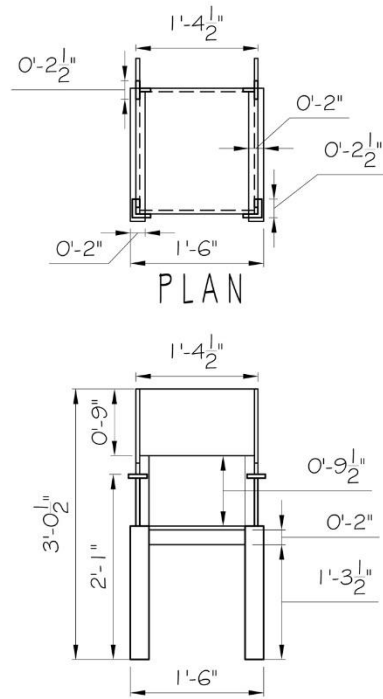


**BOOKSHELF DESIGN**

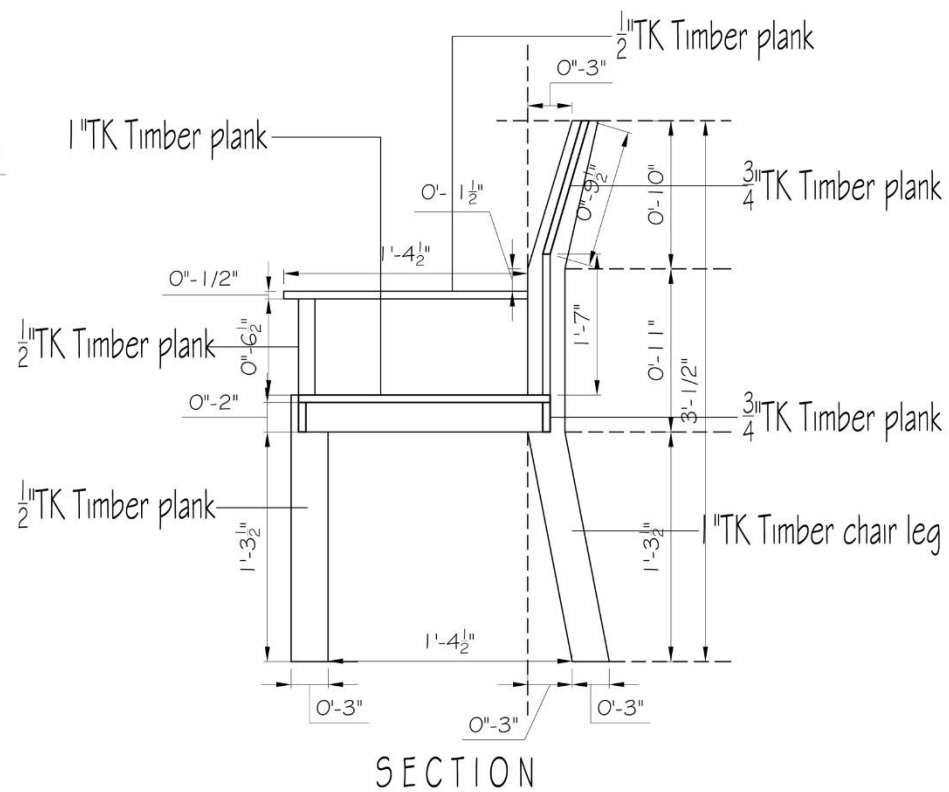
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SIDE ELEVATION



FRONT ELEVATION

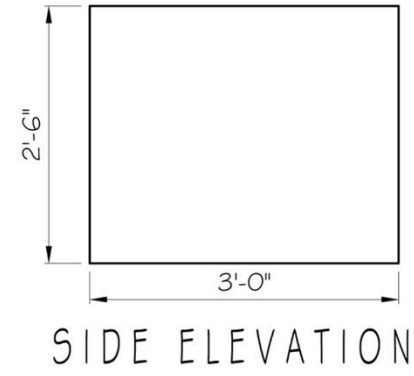
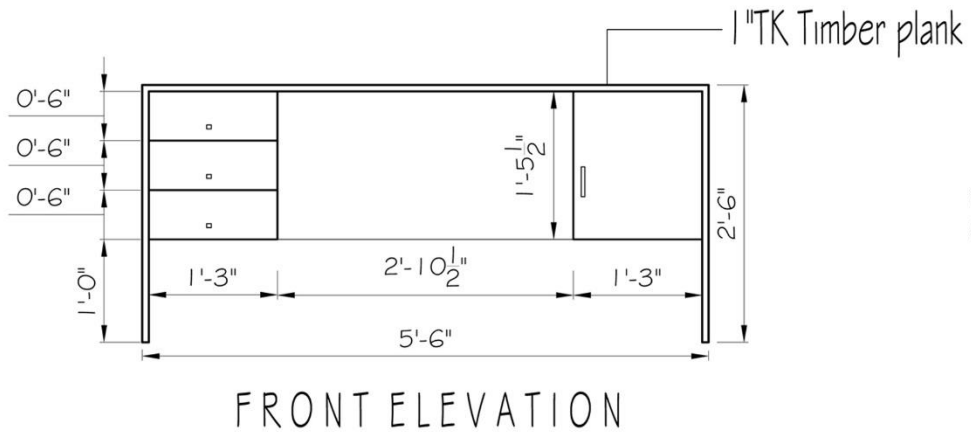
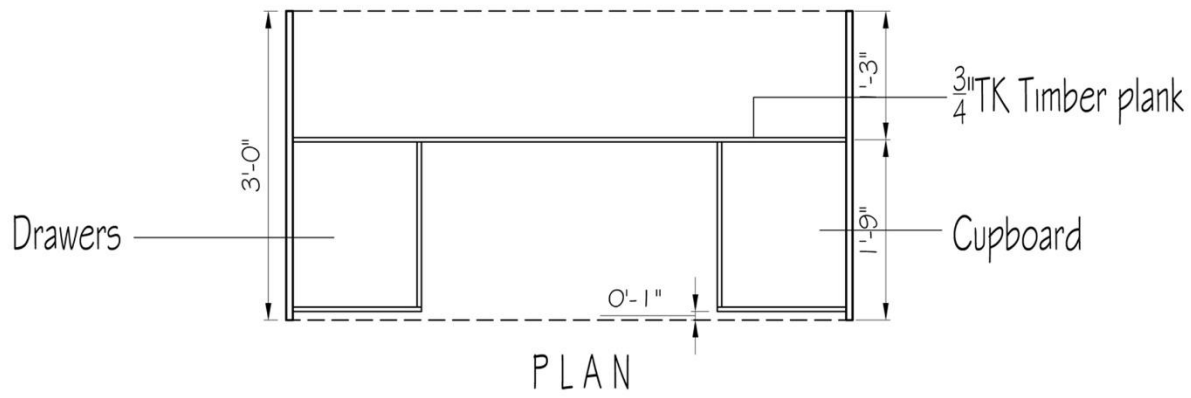


SECTION

# CHAIR DESIGN FOR LIBRARIAN

CHAIR DESIGN FOR LIBRARIAN

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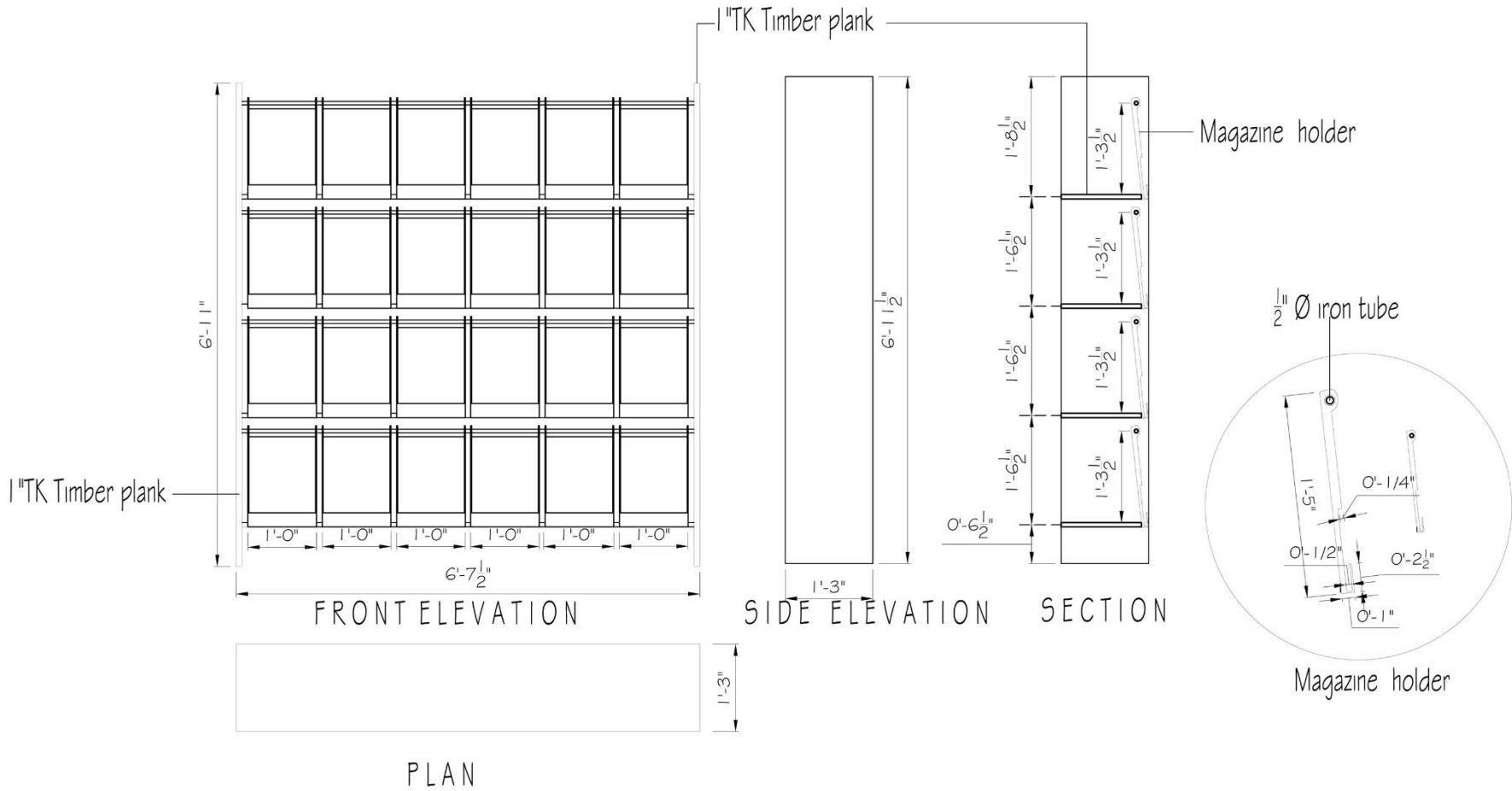


# TABLE DESIGN FOR LIBRARIAN

TABLE DESIGN FOR LIBRARIAN

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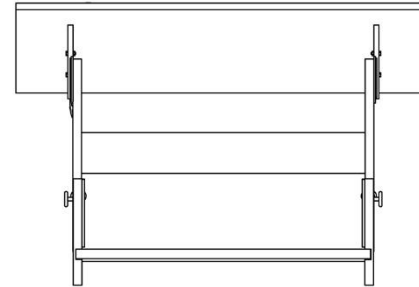
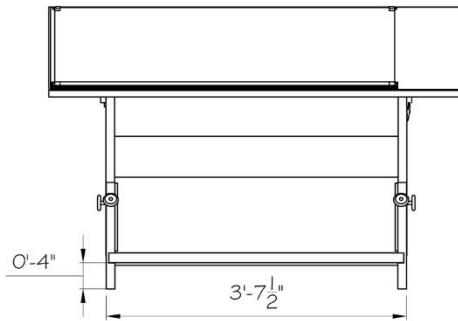
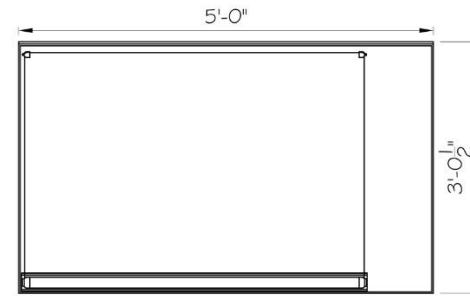
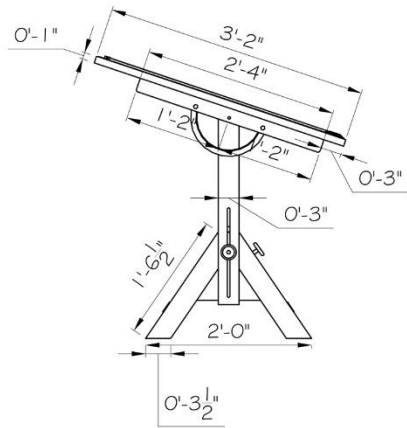




# MAGAZINE SHELF DESIGN

## MAGAZINESHELF DESIGN

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# NEWS PAPER READING TABLE

NEWSPAPER READING STAND DESIGN

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