

The four spaces of intended to focus my study for the lighting portion of thesis consist of:

- Large work space | Open Office
- Special purpose space | Auditorium
- Circulation space | Lobby and main stair case
- Outdoor space | Exterior gathering space
- Meeting space | Conference room

For the auditorium space, I will produce three different schematic design concepts.

For the large open office space, I will generate a lighting design solution reflecting two different psychological impressions. The impression I am considering is public versus private. This pair of impressions is suiting for this space because the layout of furniture influences group interaction but might also be desirable for a more intimate setting for oneself.

Large Work Space | Open Office

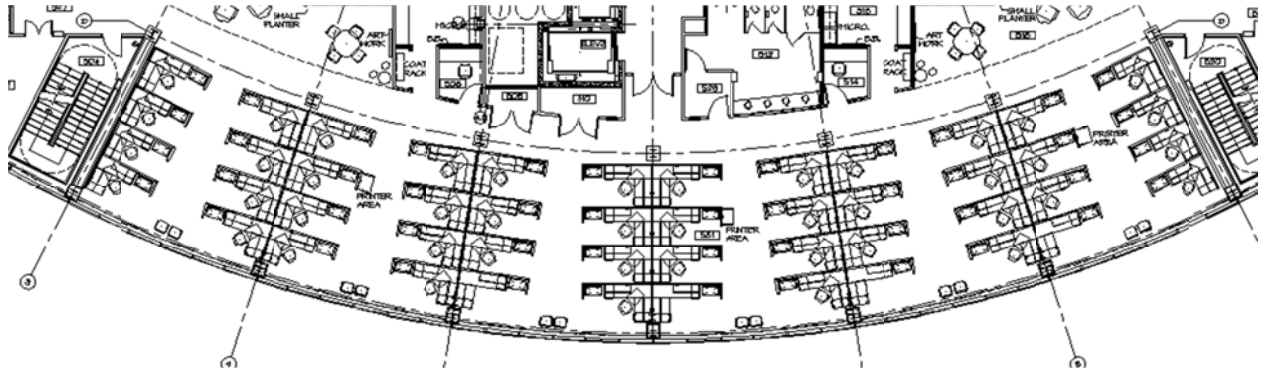


Figure 1: Open Office Floor Plan#



Figure 2: Open Office Photograph#

The open office floor plan occurs on floors 3-7 of the office tower. This space is intended to hold 80 work stations with flexible systems furniture in clusters for office support. It is indirectly lit with 6' partitioning walls. Tasks for this space would include paperwork, reading of various prints, viewing of computer screens, and multi-person collaborations. It is important here to consider the daylighting in this space to make sure the lighting design is not over powering the occupants.

The overall dimensions of the space are 172' x 26', with ceiling height of 9' 4". The area of this space is roughly 4472 square feet. Within the drawing set I was provided for this thesis project are enlarged verticle sections which provide greater detailing of dimensions.

Table 1 summarizes the material finishes found in this space.

Table 1: Open Office Finishes

Ceiling	24" x 24" white acoustical ceiling tile angled tegular tile
E, W Walls	Light gray painted gypsum board
S Wall	Glazing, type IG-3 with shading system Type B (additional information provided in Building Statistics document)
Partition Wall	6' partitioning walls painted plum
Floor	Multi-color carpet with gray/green-blue and plum accents

Special Purpose Space | Auditorium

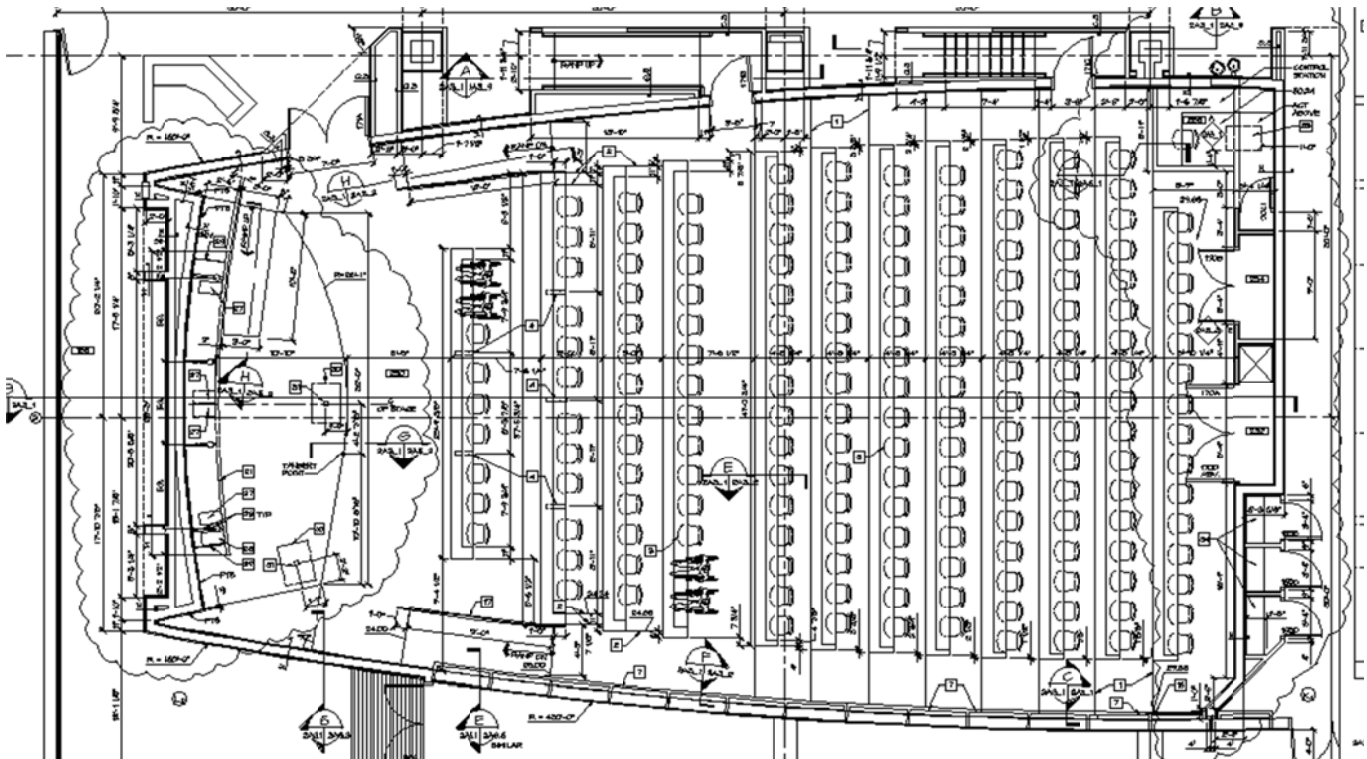


Figure 3: Auditorium Floor Plan#

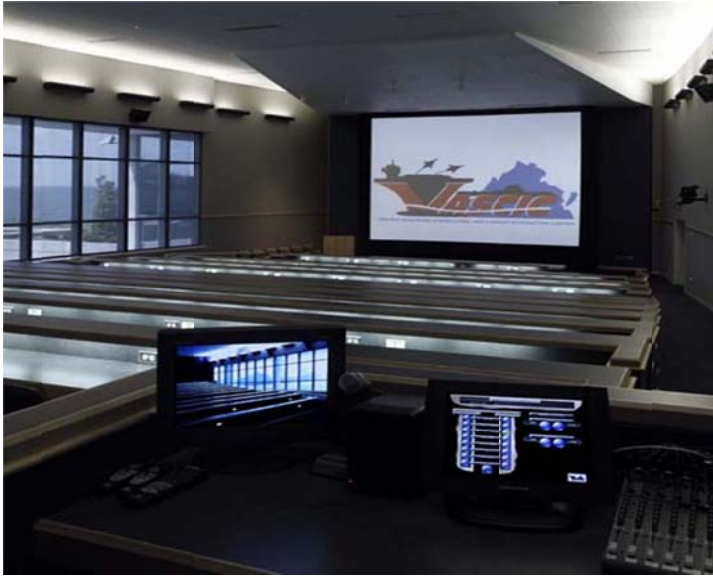


Figure 4: Auditorium Photograph#

The auditorium is used primarily for presentation and instructional purposes. There is a large adjustable presentation screen in addition to a microphone system in back. Two movable podiums are stationed at the front stage area. Tasks for this space can vary depending on the intended use of the space for that particular time. Additionally, there are receptacles at each seat which may imply others to bring their own computer if an interactive presentation is being delivered. Therefore, the lighting design must be flexible to suit the occupants' needs. The lighting design must also consider facial rendering if an interactive presentation is being given without the projector screen.

The overall dimensions of the space are 93' x 52', with a ceiling height of 25' 8" at the bottom of the stair and 20' 4" at the top stair. More detailed dimensions have been provided in the vertical sections within the drawing set in addition to those shown in *Figure 3*.

Table 2 summarizes the material finishes found in this space.

Table 2: Auditorium Finishes

Ceiling	24" x 24" white acoustical ceiling tile angled tegular tile and white painted gypsum board
S, N, E Walls	Taupe wall coverings incorporated with acoustical wall panels and glass
W Wall	Glazing, type IG-3 with shading system Type B (additional information provided in Building Statistics document)
Floor	Multi-blue with indigo accent carpeting

Circulation Space | Lobby and Main Stair Case

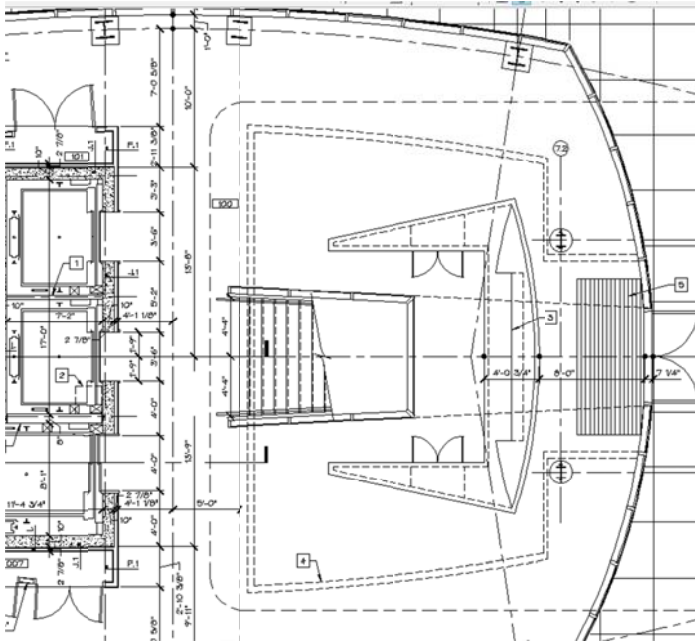


Figure 5: Lobby and Main Stair Case First Floor Plan

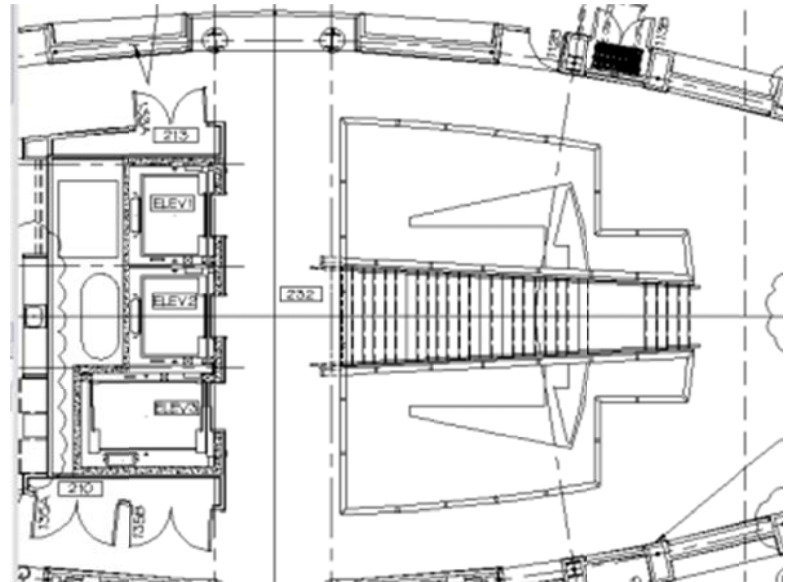


Figure 6: Lobby and Main Stair Case Second Floor Plan#

Entering the lobby from the west, the lobby and main stair case serves as the back bone to the building. It pushes through every floor uniformly, although not as grand on floors three through seven. Because this stair case is so prominent and is the main form of circulation throughout the building, it should be emphasized using light to guide a user through the space at ease.

The main lobby on the first floor upon entering the building contains a front desk for security purposes. Just past the stair case is a three bay elevator system that should also be highlighted appropriately. Tasks in this immediate space would include reading print of various sizes, paperwork, and perhaps the use of screens for security reasons. When reaching the second floor, you are presented with a “technology display” containing seating along the walls. The lighting design of this display should consider the particular pieces specifically to achieve high color rendering indices as well as adjustable aiming angles if the display is changed or updated.

In addition, the seating along the walls should take into account the psychological impressions on a person when designing.

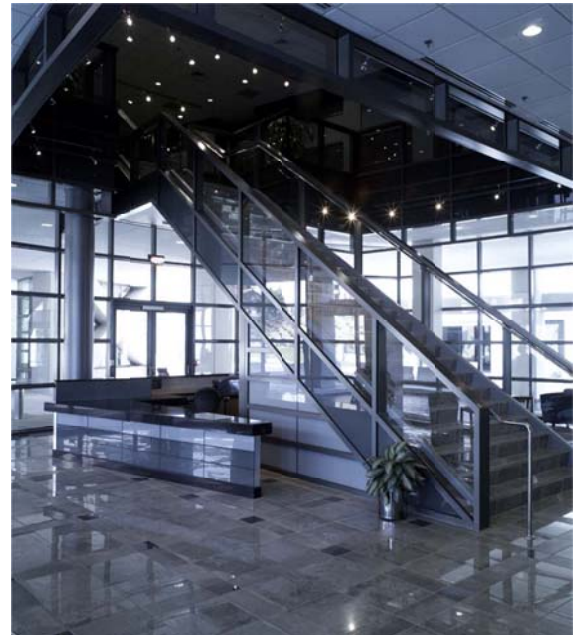


Figure 7: Lobby and Main Stair Case Photograph#

The overall dimensions of the space are 68' x 50', with ceiling height on the first floor of 13' 6" and 10' 4" on the second floor. Specific dimensions are provided in *Figure 5* and *Figure 6*. I was also provided with enlarged building sections of stair case areas.

Table 3 summarizes the material finishes found in this space.

Table 3: Lobby and Main Stair Case First Floor

Ceiling	24" x 24" white acoustical ceiling tile angled tegular
N, S, E, W Walls	Charcoal metallic rib vinyl wall coverings, glazing type IG-3 (additional information provided in Building Statistics document)
Floor	Black and gray polished porcelain stone 20" x 20", 8" x 20", or 8" x 8"

Table 4: Lobby and Main Stair Case Second Floor

Ceiling	24" x 24" white acoustical ceiling tile angled tegular
N, S, E, W Walls	Glazing: soft gray spandrel glass (GL1), medium gray spandrel glass (GL2), and clear glass (GL3)
Floor	Patterned gray/green carpet

Outdoor Space | Exterior Gathering Space



Figure 8: Areal View for Exterior Space Location #



Figure 9: Reflecting Pools #

For the final space of consideration for the light portion of thesis, I plan to combine lighting design with one breadth of study. With a plethora of water influencing and surrounding the building, I feel that it is necessary to consider this element in the design development phase. Surrounding the entrance to the office tower are reflecting pools (*Figure 9*) that you essentially “walk through” via pathways in order to enter the building. Tying this idea into the design would create the ties between the building itself and the water surrounding it.

I plan to design a casual gathering and seating area for the occupants of the building or those who may be visiting the site to have a relaxing space to escape the office atmosphere and enjoy a beautiful outdoor view.