

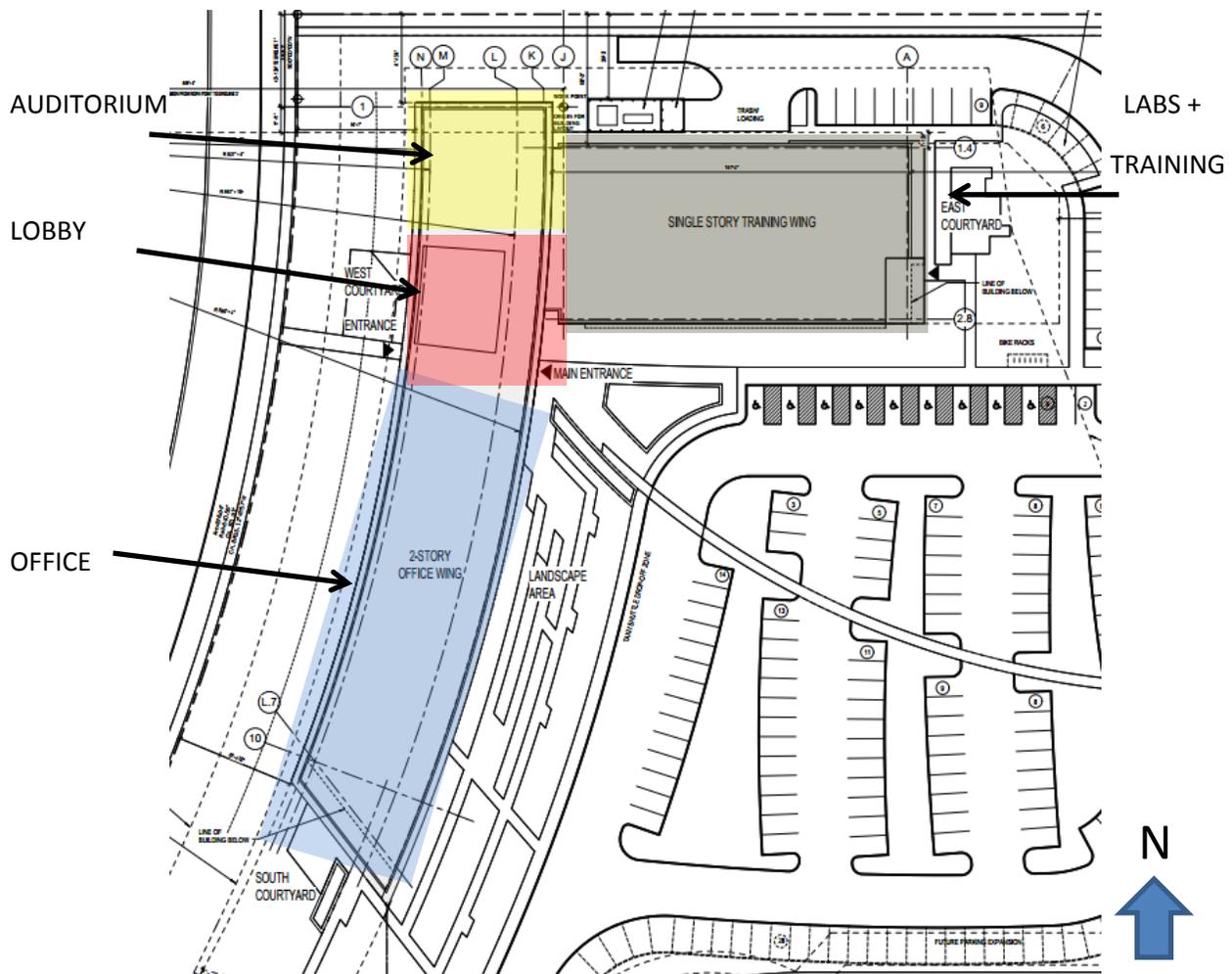
**Executive Summary**

The four main spaces I will be studying for tech report 1A are the auditorium, entrance lobby, office, and building façade. These spaces contribute some of the most interesting Opportunities for unique and effective lighting design in this facility. Information about dimensions, materials, and visual tasks has been collected to use as a guide for Tech Report 1B

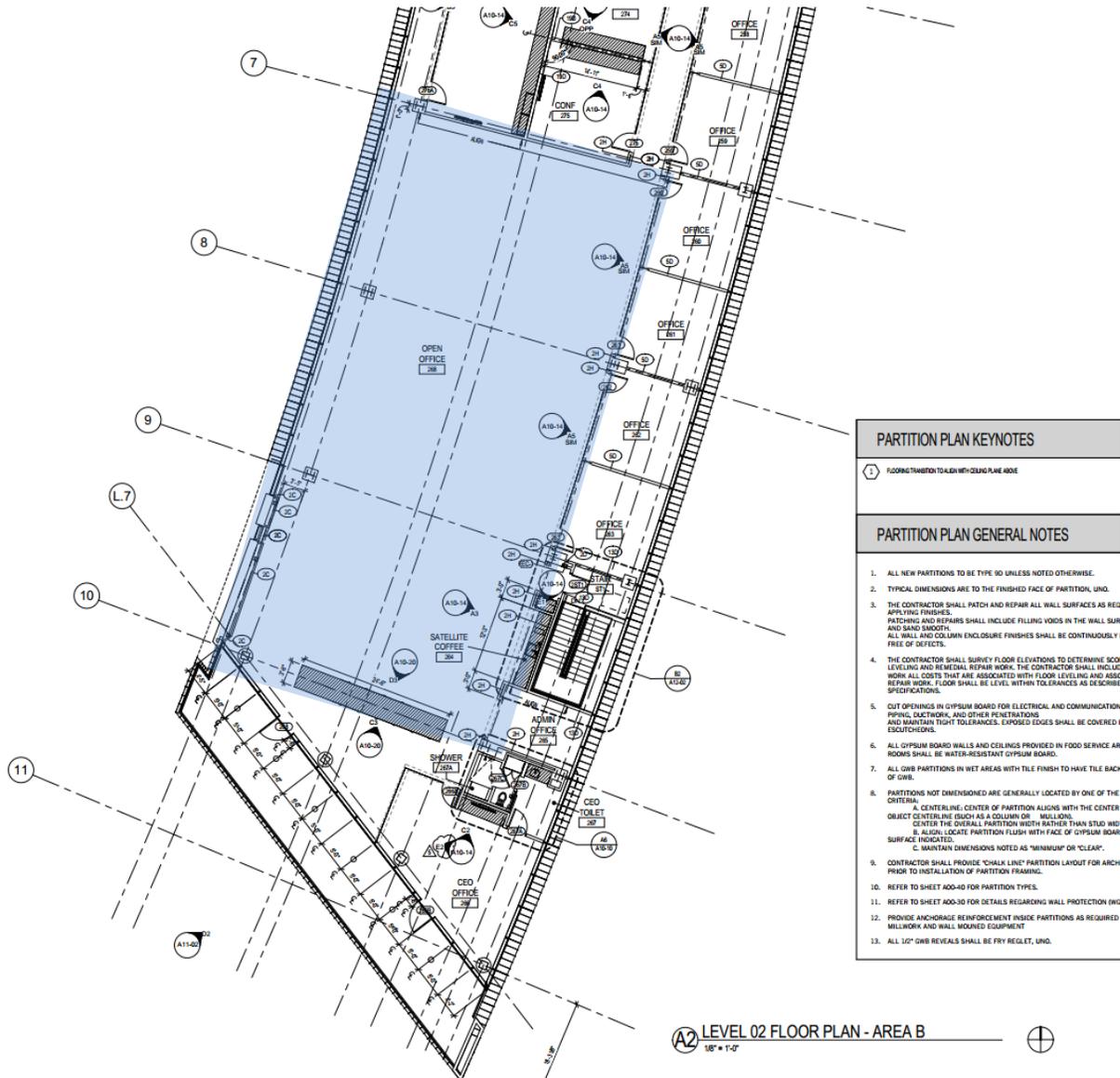
The Frederick College of Cardiology  
 Arlington Heights, IL  
 September 9, 2013  
 Advisor Kevin Houser

**Lighting Proposal Memo**

Floor Plan – The Frederick College of Cardiology is designed with two wings which extend from the central entrance Lobby to the east and to the south. The southern wing curves slightly westward and is two stories in high. It is occupied by open offices and private offices on each floor. The eastern wing is one story high and provides space for training facilities and labs. Adjacent to the main lobby is a double auditorium.



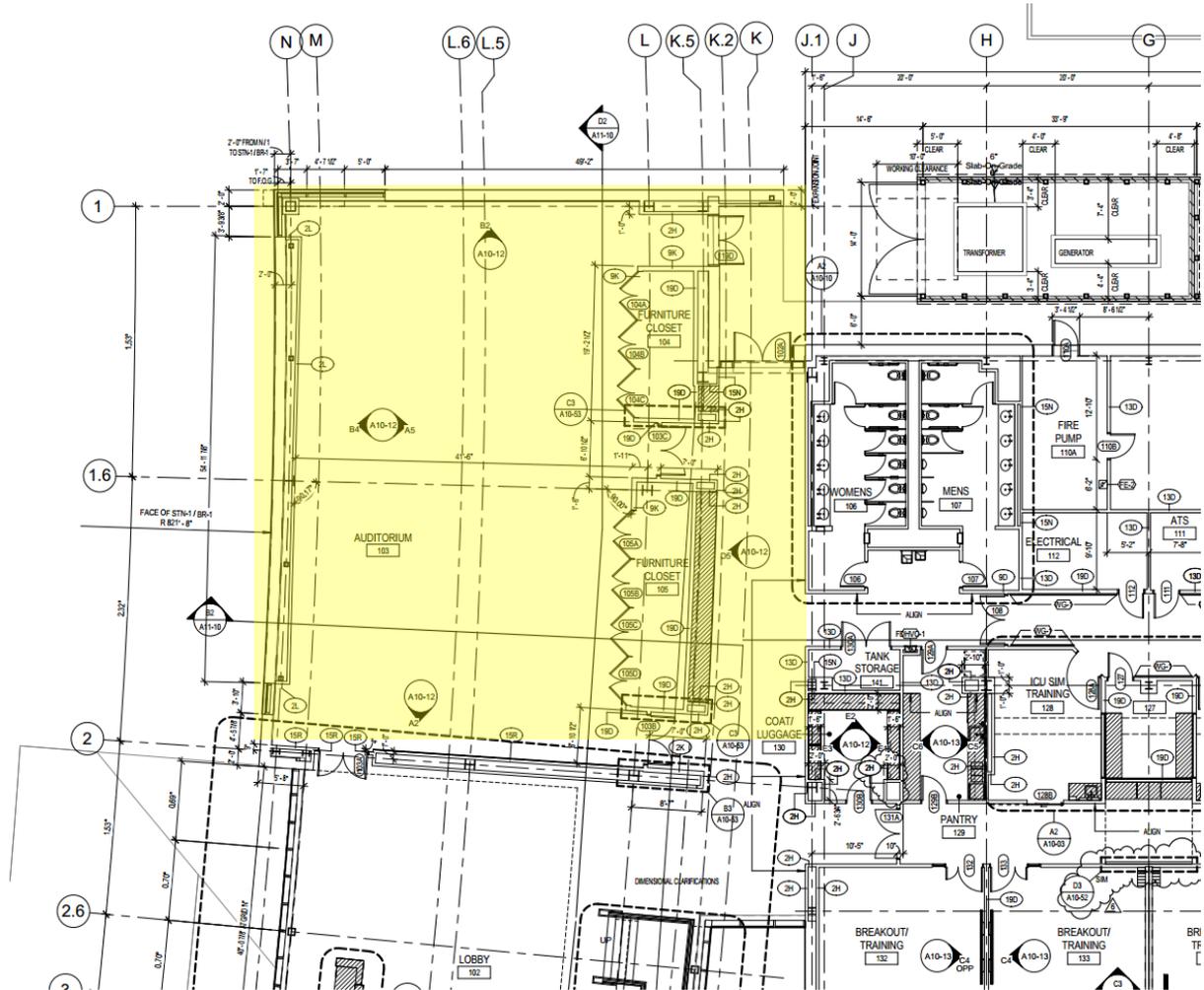
I. Large Work Space – The southern wing of the building houses the open and private offices. I will focus on studying the open workspace lighting conditions and human integration.



- a. Dimensions -40' x 120'
- b. Materials – Carpet, acoustic ceiling tile, wood, gypsum wall board
- c. Activities/Visual Tasks – Computer work, writing, reading, casual conversation



**II. Auditorium** - The two-story high auditorium is located directly to the north of the entrance lobby. A special feature of this auditorium is that it is equipped with a sky-fold wall which can extend down from the ceiling and divide the space into two smaller auditoriums. Lighting controls must be designed to operate correctly for the large and small layouts.



- a. Dimensions – 70'x 60'
- b. Materials – Acoustic ceiling tile, gypsum wallboard, carpet
- c. Activities/Visual Tasks – A/V Presentation, public speaking, surgical instruction,





- a. Dimensions – 50'x50'
- b. Materials – Glazing, stone walls, wood ceilings, tile floors
- c. Activities/Visual Tasks – Walking, way finding, casual conversation, waiting



**IV. Building Façade** – The building façade lighting design is a key aspect of the aesthetic impact this building will have on the public after dusk. The low profile architecture of the southern wing blends nicely into the surrounding environment but could be made more attractive by adding additional artificial lighting.



- a. Materials – Stone, Glazing, Wood, Metal Sheathing, Brick
- b. Activities/Visual Tasks – Create visually appealing night time appearance for the building's exterior. Illuminate entrances and exits to aid in way-finding.

#### **V. One Space – Three Schematic Design Concepts**

Entrance Lobby

#### **VI. One Space – Psychological Impression**

Building Façade