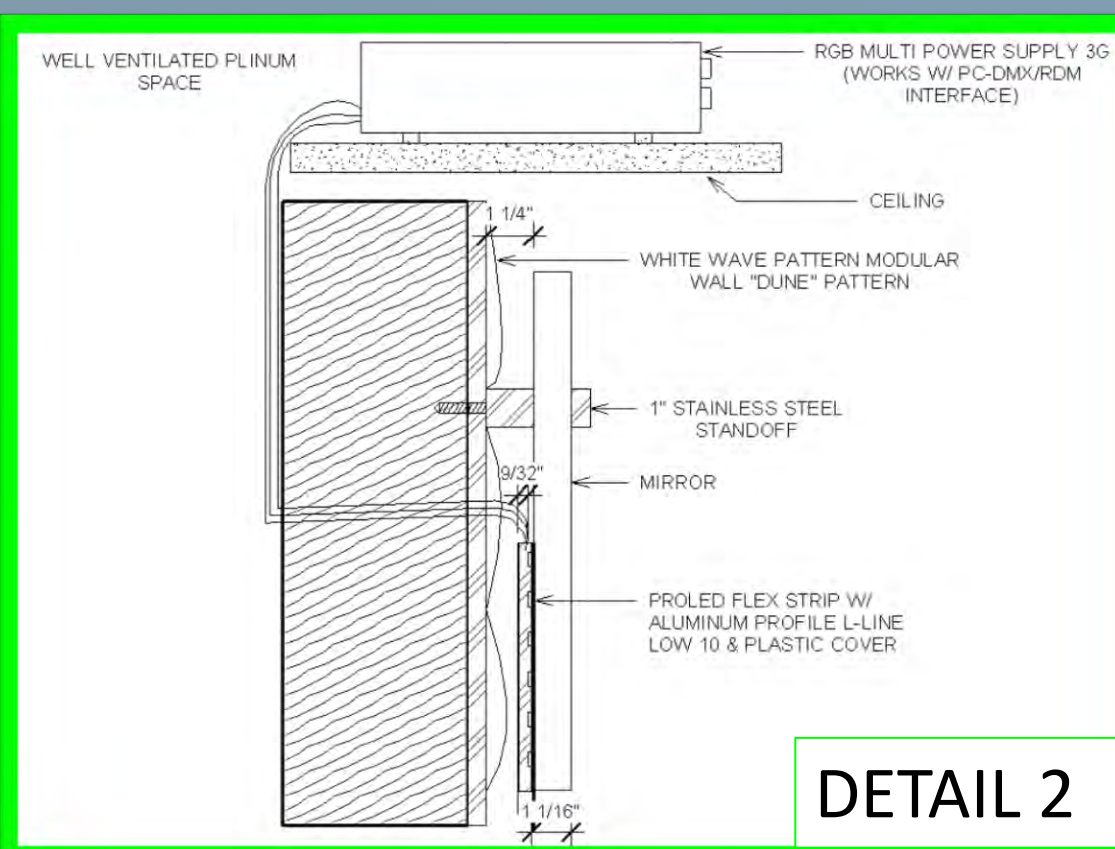
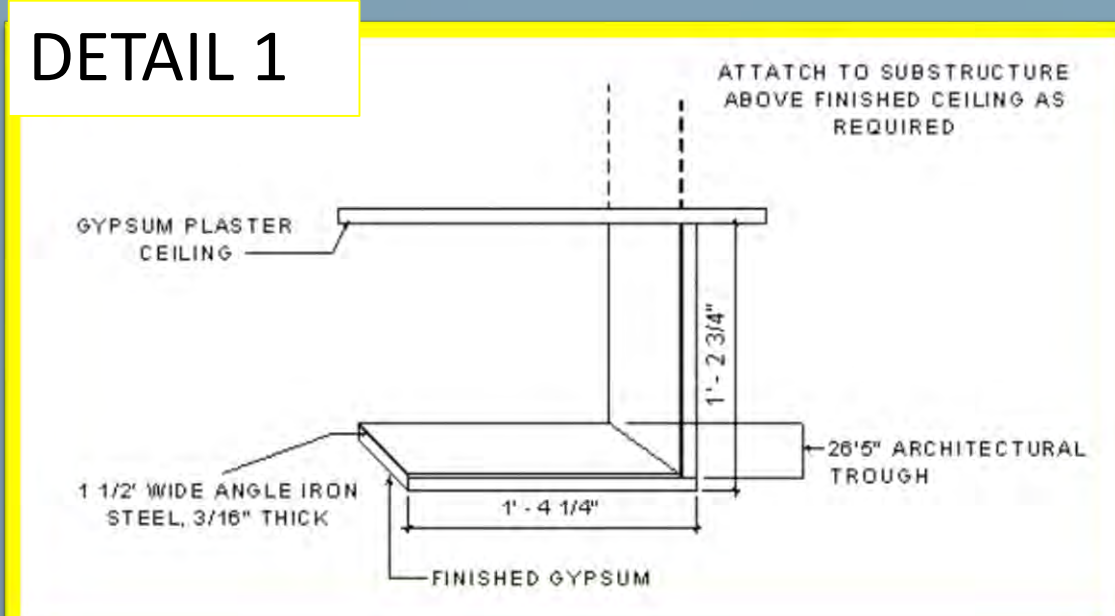
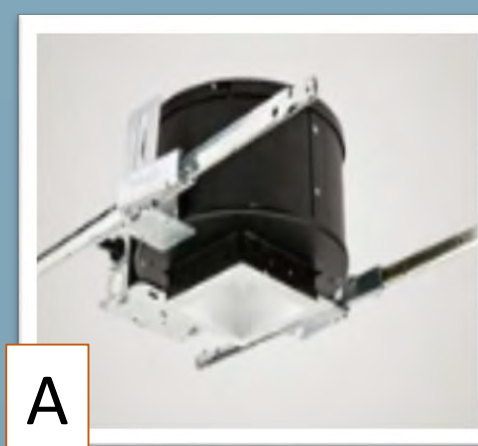
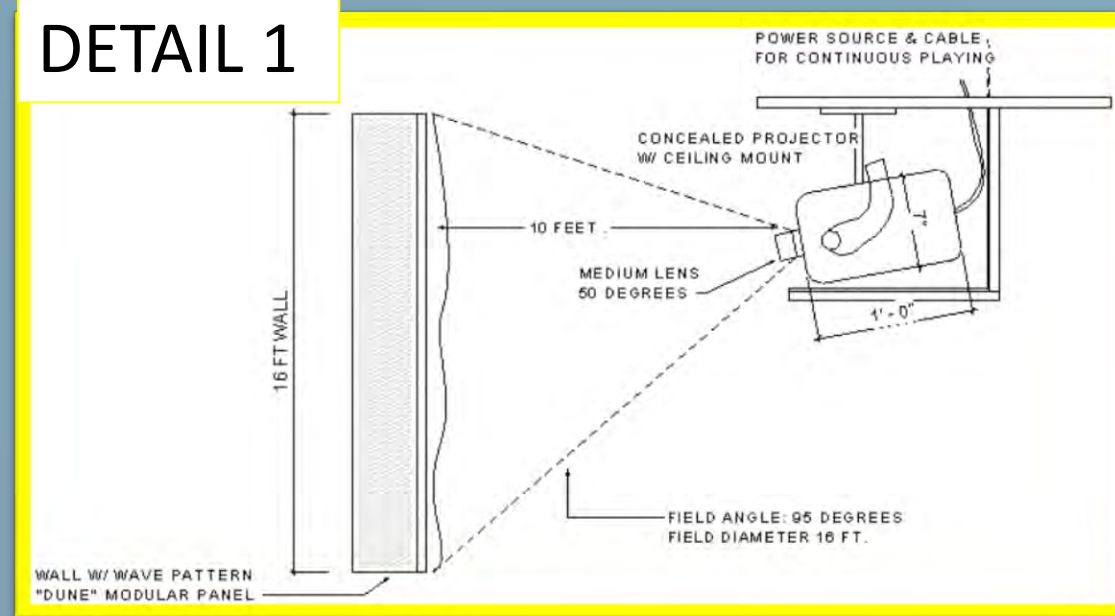


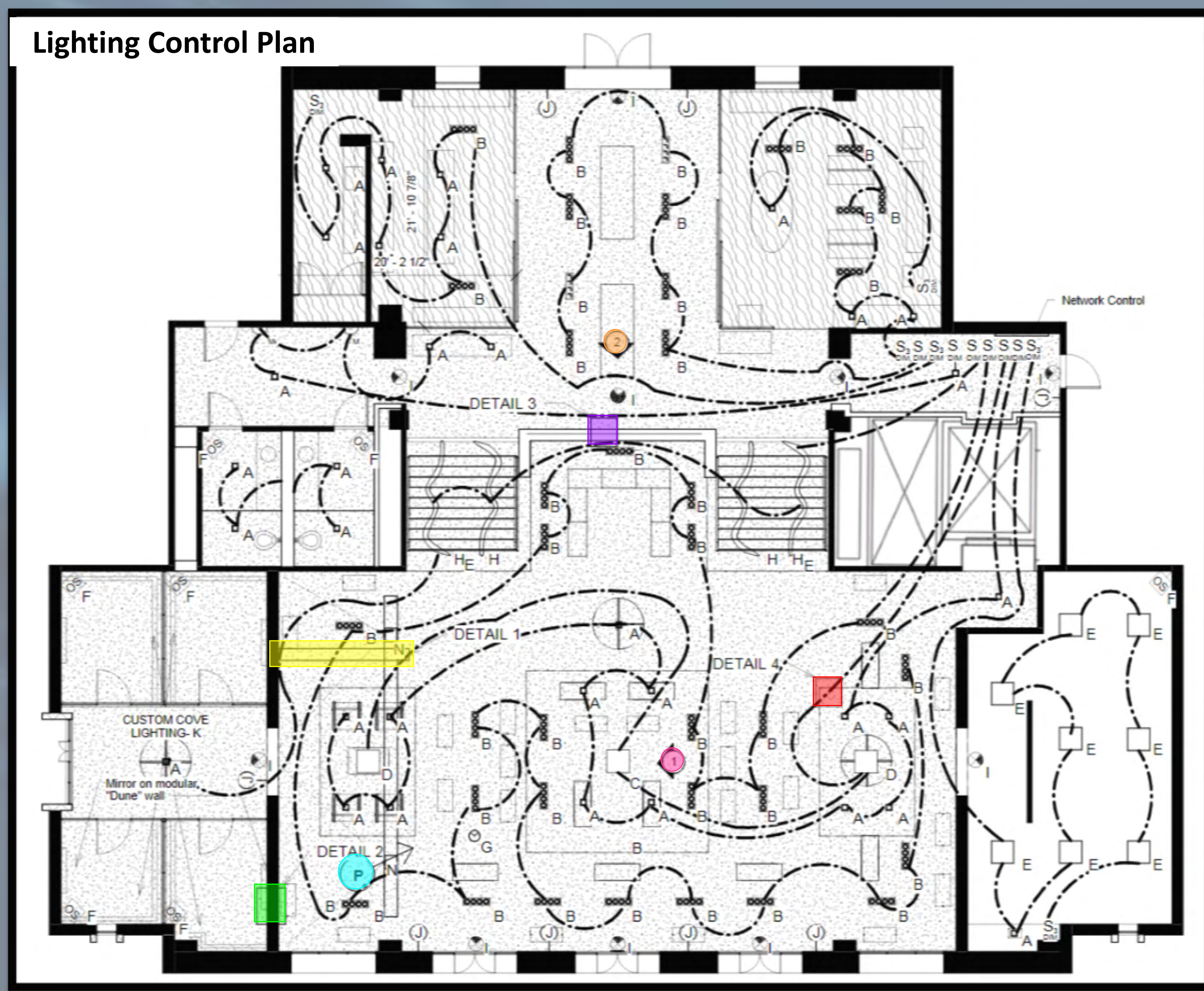
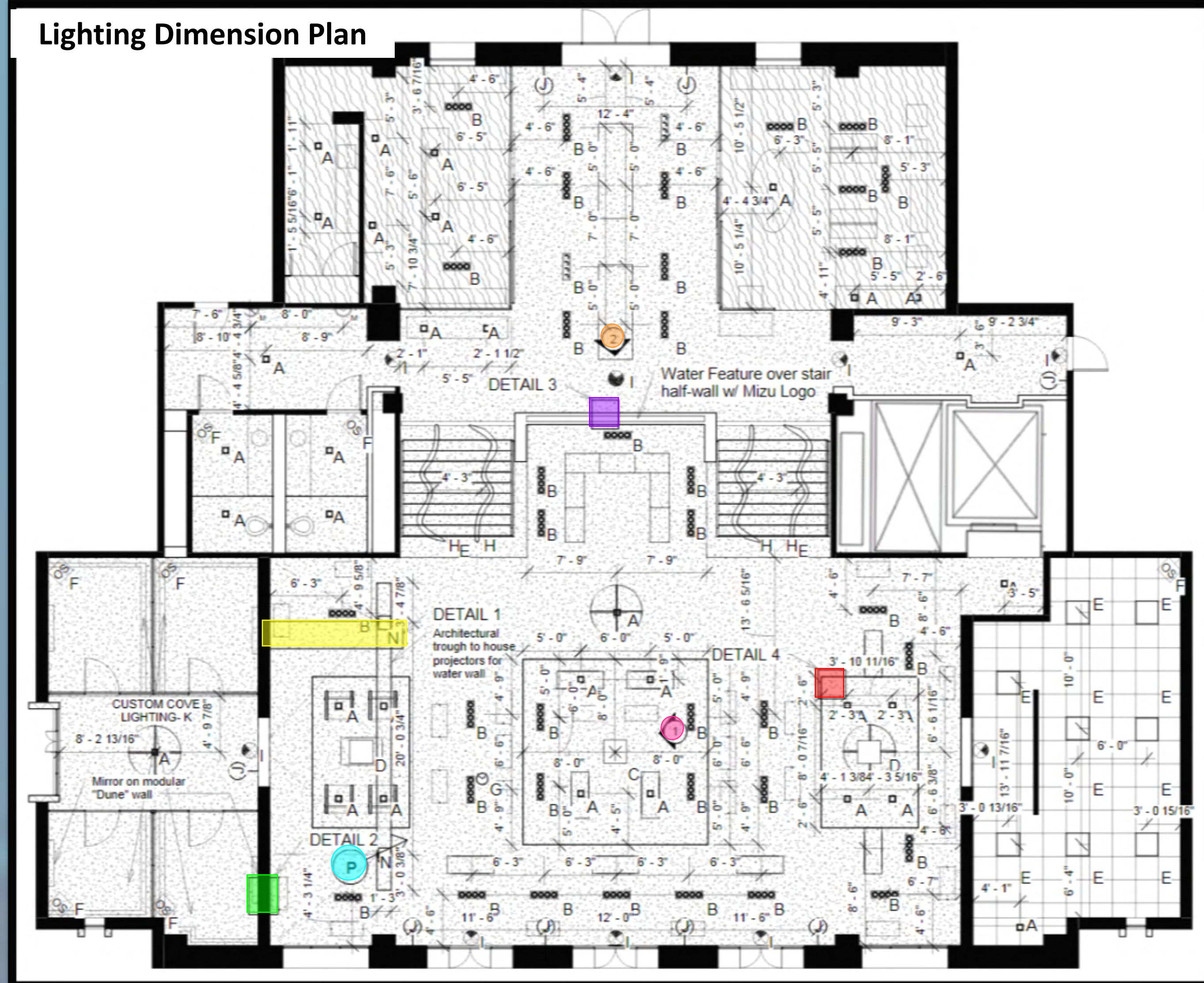
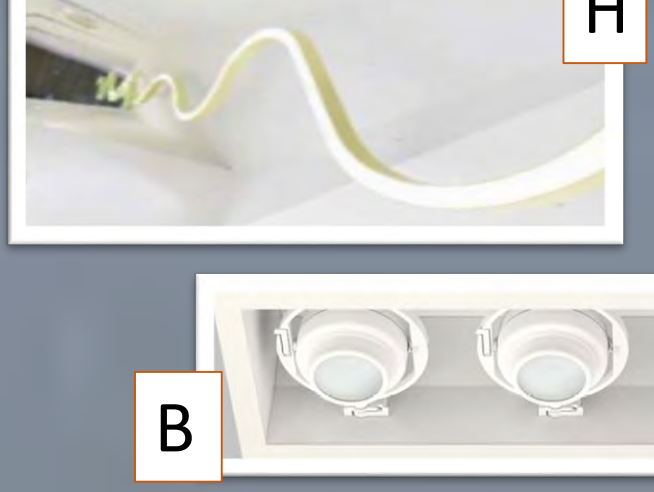
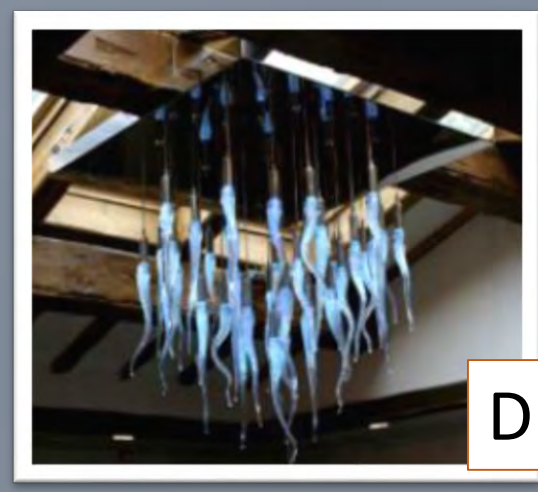
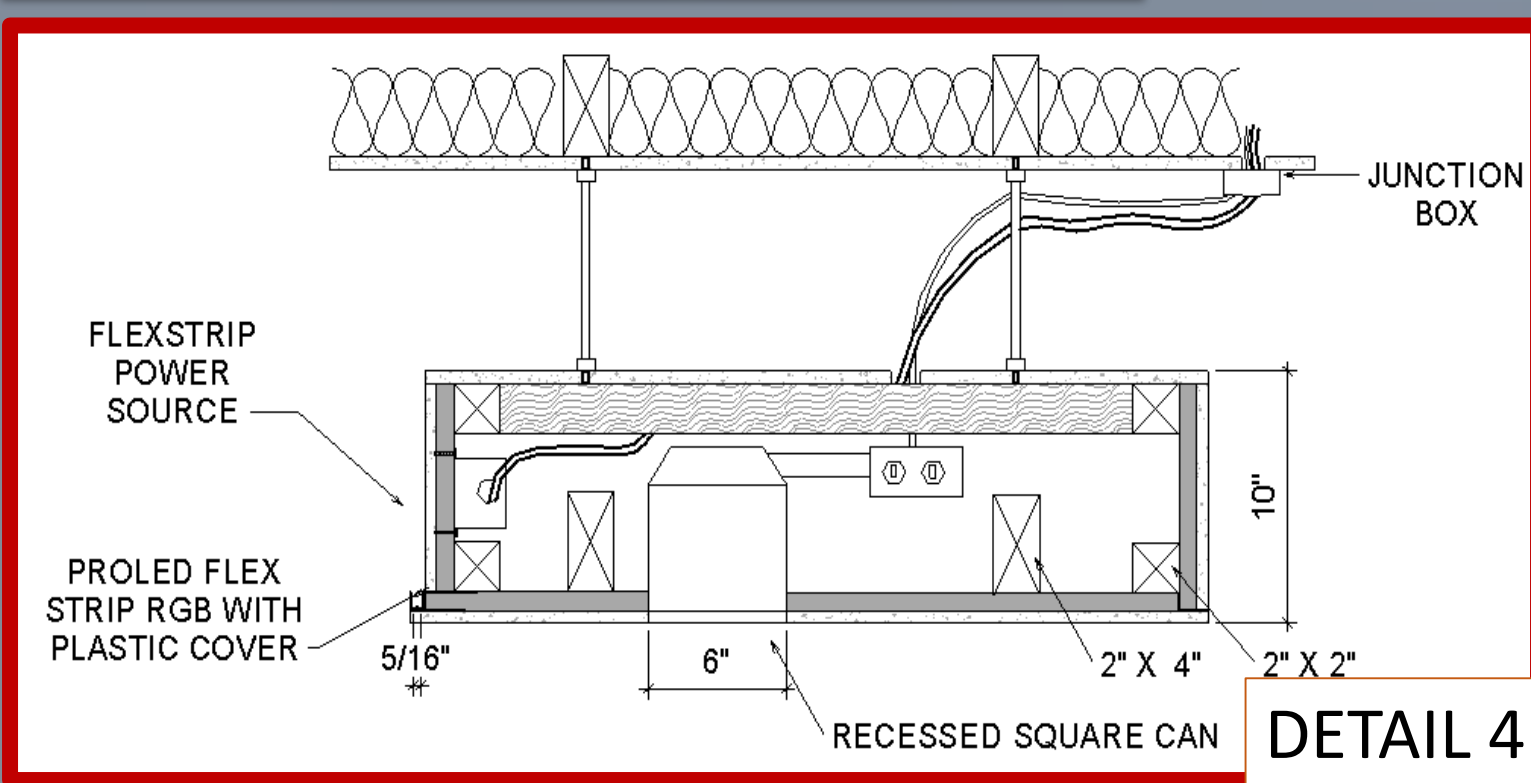
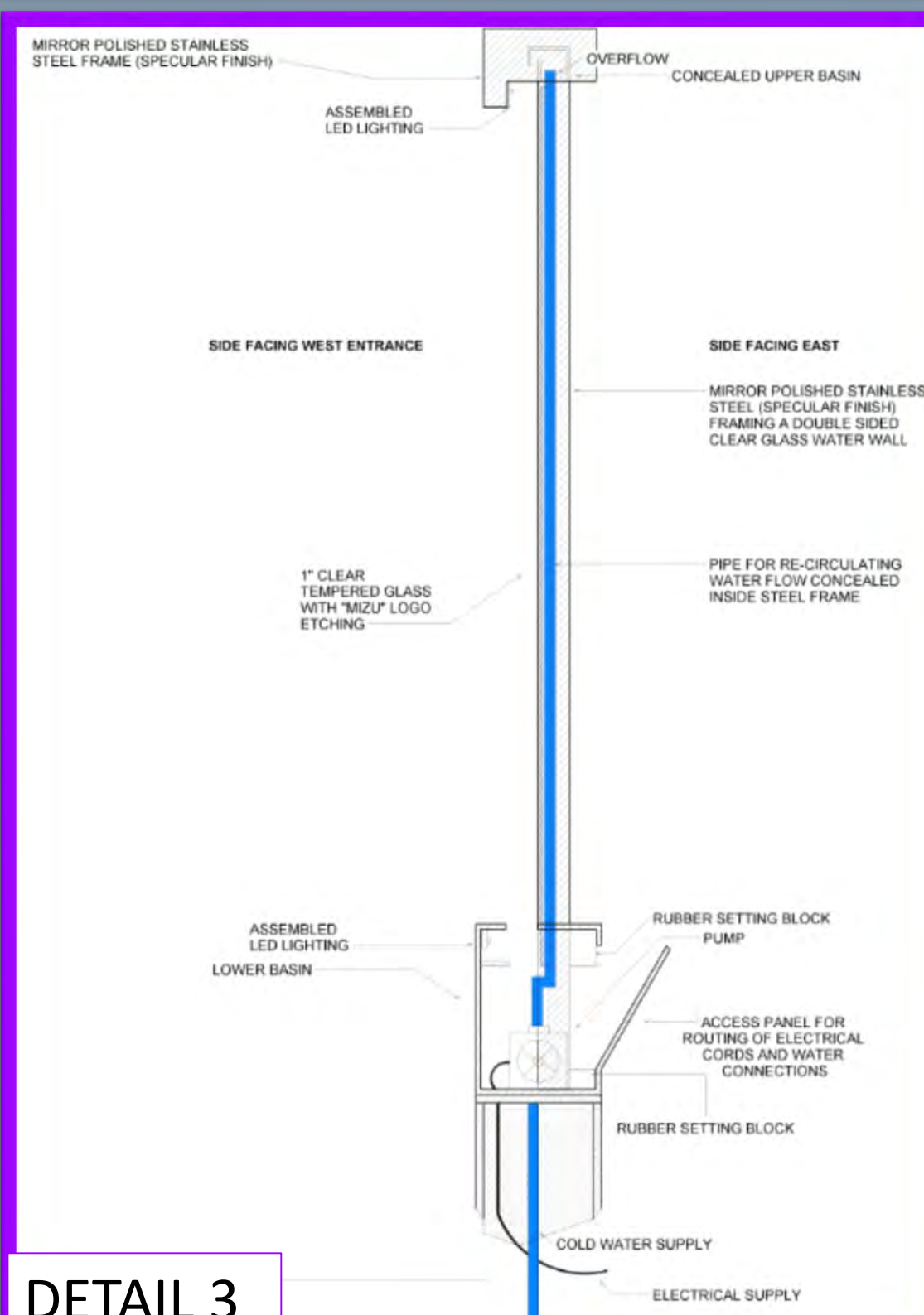
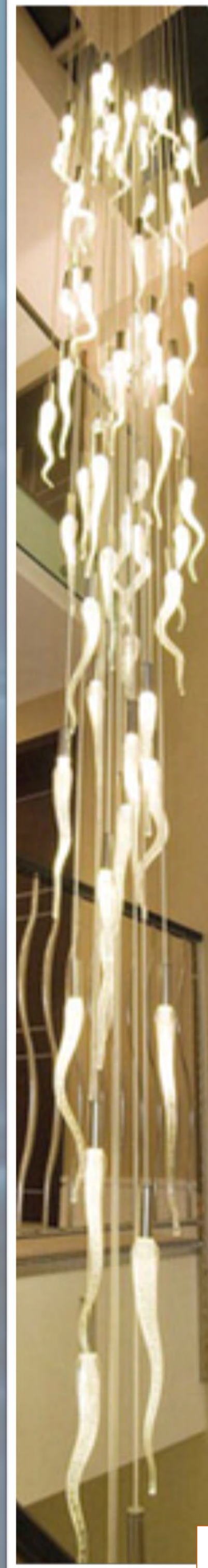
IES Dallas Student Lighting Design Competition 2015



CONTROL WRITE-UP
The lighting controls have met the mandatory control requirements of 2009 IECC energy conservation codes. Control strategies implemented into the project for the lighting system will ensure that this lighting system will fall far below the energy requirements for a Dallas retail establishment.

The interior lighting controls will implement two main strategies to reduce the consumption of energy. The first strategy is use occupancy sensors in areas such as the fitting rooms, restrooms, and the storage area for automatic shutoff when not occupied. The second strategy is to use daylight harvesting in the main lower level receiving a high consistent level of daylight.

The controls will allow for presetting of light levels and themes in the primary retail spaces, fitting room entrance, restrooms, floral, and fragrance areas during normal operation hours. The controls will also allow for custom settings for special or evening events. Most luminaires will have dimming capabilities for energy conservation and visitor comfort.



CONCEPT STATEMENT

Our luxury clothing, fragrance, and flower store, *Mizu*, is designed with unique lighting design and visitor comfort in mind. The elite establishment is remodeled from a historic brick building in downtown Dallas, Texas. The clothing is modern and of the highest quality, so the lighting and design will reflect this concept. *Mizu*, meaning water, is the store's inspiration and the largest factor in the design. Implementing characteristics of water—including transparency, illusion of movement, and tranquility—will envelop the customer in a sense of peace and pleasure. For instance, one refreshing highlight of the *Mizu* experience involves the technology of concealed projectors to emphasize not only the rhythmic movement of water but also movement through an inviting space. Acrylic, specular, and contemporary furniture coupled with translucent lighting fixtures further enhances the *Mizu* concept.

Energy efficient light sources and effective controls will guide the lighting design. LED lamps, with creative uses of networked controls in tandem with sensors and timers. Photo sensors will promote daylight harvesting but control glare and ultraviolet damage to merchandise. Careful consideration of luminaire selection, provides for maintenance that is less challenging. Multiple use of NanoLED (which offer limitless possibilities) and Incito Square Luminaires support cost reduction, effortless reordering, and group re-lamping. Offering sheer delight to *Mizu* and alluring presence from its exterior, the inspiration piece of the lighting concept is an "ICE" chandelier. It features LED energy efficient lighting with acrylic sculptural pieces cascading from a central luminaire. The "ICE" chandelier features some of the most advanced software technology available today. This technology allows for use of only 65 watts of power and controls a seamless full-color changing spectrum of light (with gradation option), adding a creative accent to evening events. Merchandise will be accented in three ways. Mannequins will be highlighted by the fully adjustable, multi-directional NanoLED fixtures. LED tape lighting will accent jewelry and fragrance displays in the glass cases. Recessed ceiling downlights will highlight horizontally displayed merchandise, but are fully adjustable for future renovation or display changes.

The task and accent lighting will guide the shoppers through a path to the finest merchandise. The clever and resourceful use of hidden task and interesting accent lighting will give the space elegance and sleekness, while using non-uniform lighting to add interest and comfort. Final touches in lighting emphasize the water concept. A backlit full-length mirror mounted on the three-dimensional wave wall will greet customers entering each fitting area. Clients shopping on both levels will be captivated by the custom backlit water fall behind the jewelry area on the stair half wall. Visitors to *Mizu* will long remember the unique message and design of the store in which lighting and technology play a major role, and desire to come back and linger in the comfort of the space.