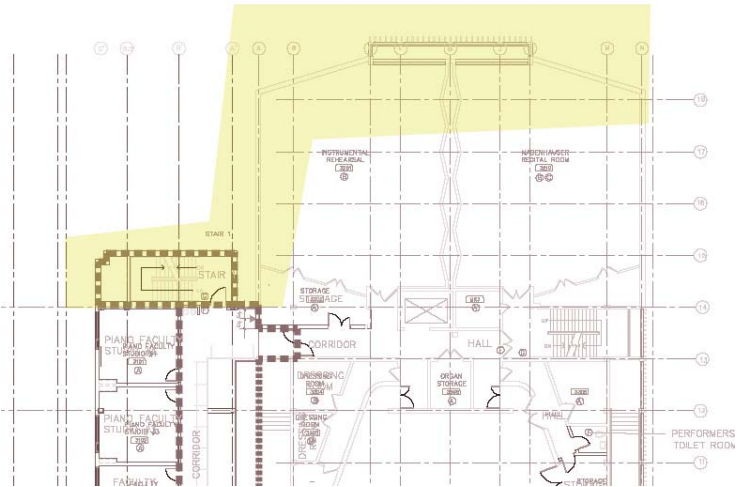


EXTERIOR

DESIGN GOALS

The north façade of the Whalen Center is where the new construction interfaces with the weathered concrete face of Ford Hall. There is great potential for this façade along the campus mall to be the main visual icon for the School of Music. The lighting design for this exterior space should reinforce the strength and stability of the School of Music,



concrete façade $\rho = .4$
medium brick façade $\rho = .3$

and the strength and stability of Ithaca College as a whole. The building should present a well grounded, serious, powerful attitude while remaining attractive and easily identifiable. On performance nights the facility should have the ability to come alive and draw students, faculty, and visitors to the building. The implementation of color and motion will surely achieve the goal of attracting patrons, yet caution should be taken in the application of color and motion. This building is part of a college campus, and therefore has a responsibility to respect the architectural context of its surroundings.

DESIGN SCHEMATIC

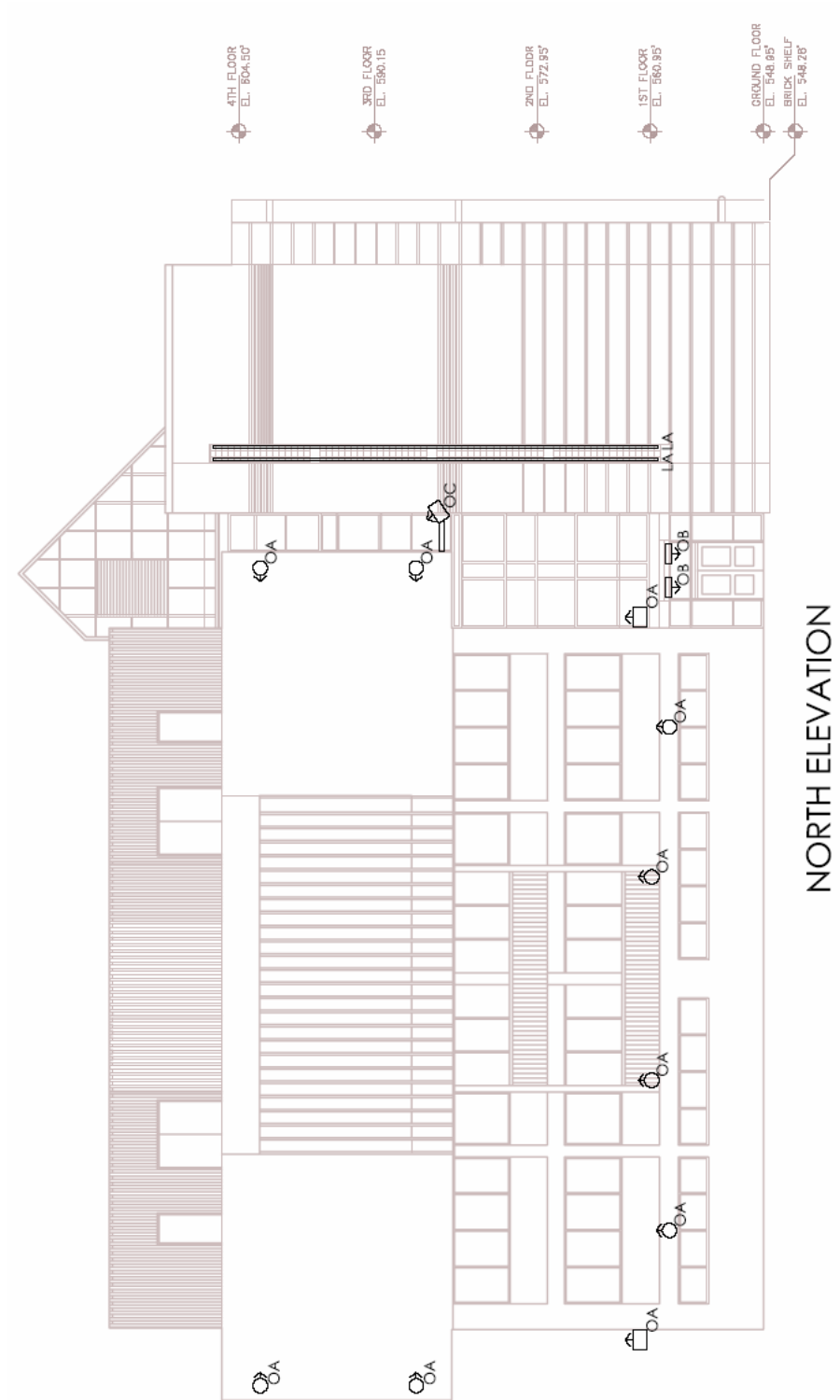
The Ford Hall façade will primarily be lit using the VSI luminaire (type OA) from BEGA. (www.bega-us.com) This luminaire is designed to evenly illuminate the surface on which it is mounted. Eight of these luminaires will be mounted roughly at the first floor level with the distribution pointed upwards. Four of these luminaires will be mounted on

the high flat faces of the Ford façade pointing in towards the protruding balcony. Adjacent to the intersection of the new Whalen Center and the old Ford Hall, there is a stairway tower which runs the full four stories of the building. A unique architectural element of this stair tower is a 1'-10" wide glass block section in the exterior wall. Two 14.5 meter sections of VersaTUBE LED color changing luminaires (type LA) from Element Labs (www.elementlabs.com) will be placed behind the glass block insert. Subtle motion will be incorporated with the 30-bit color capability of the luminaires to further enhance visual attraction. Four glass-lens, surface mount luminaires (type OB) from BEGA will be mounted under a slightly sloped metal overhang that protects the entrance at the base of the stair tower. Finally, an asymmetric signlight (type OC) from Elliptipar (www.elliptipar.com) will be placed on the upper west wall of the Ford Hall façade which has raised metal lettering identifying the facility.

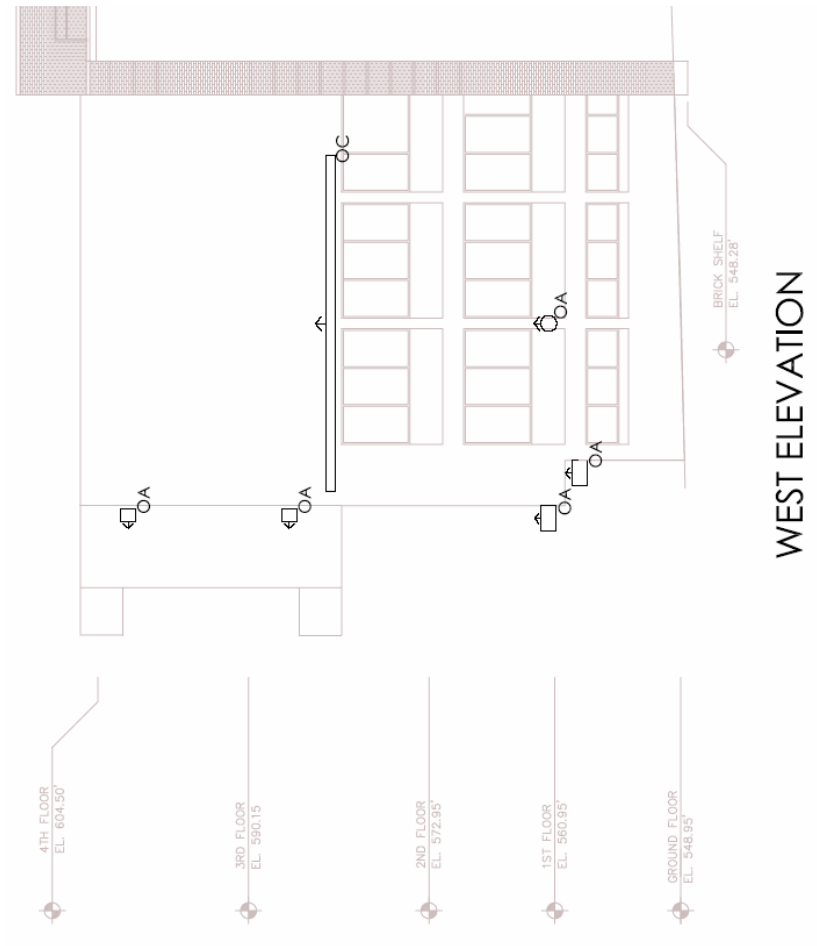
LIGHTING ANALYSIS

The rich hues of the color changing LED luminaires are distorted and diffused through the glass block and create a strong vertical element which will draw attention to the building and vertically down to the ground level entrance. The BEGA glass block luminaires create a bright and smooth pool of light at this entrance and help identify the entrance to the facility from the adjacent campus mall. The sharp photometric distribution of the VSI luminaires gives great detail with light and shadow, utilizing the geometry of the concrete structure of Ford Hall. Although the VSI is very effective at illuminating the surface on which it is mounted, there is still a significant amount of light that never reaches the vertical surface. This stray light is caught by the concrete overhang, giving a strong, dependable appearance to the facility.

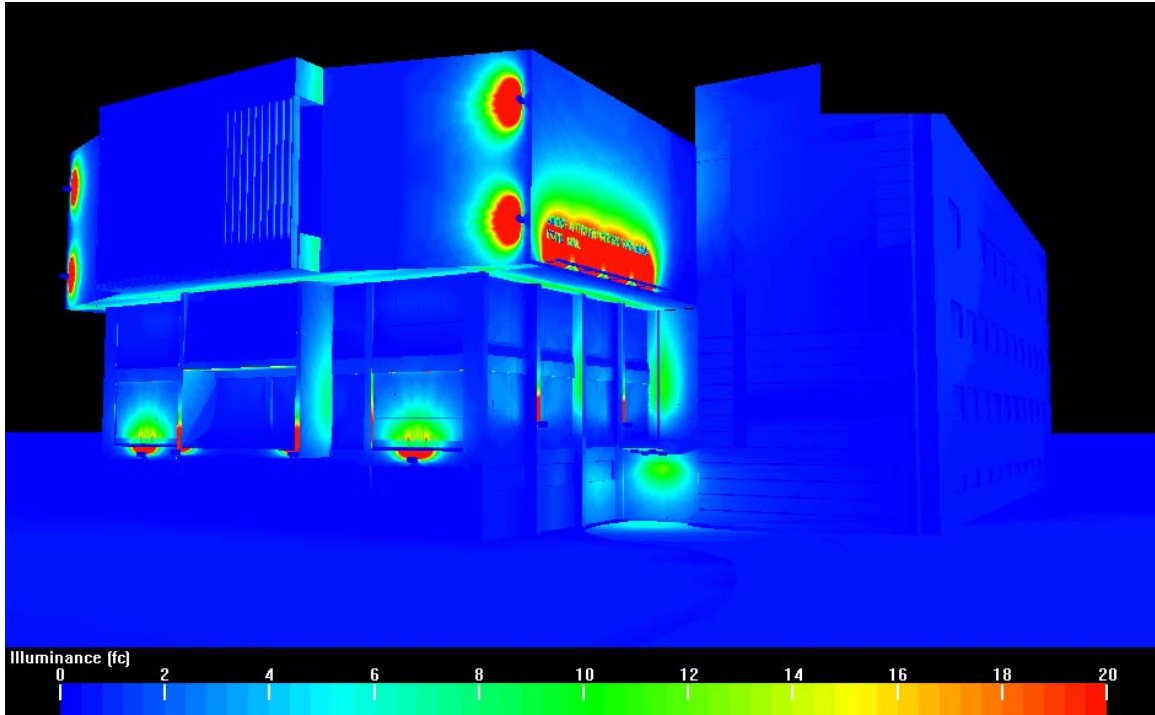
LIGHTING ELEVATION



LIGHTING ELEVATION



LIGHTING ANALYSIS



ASHRAE/IESNA 90.1-1999 Compliance

Façade Illumination (9.3.2)

Area Illuminated	9500	sf
Allowed Density	0.25	W/sf
Allowed Wattage	2375	W
Luminaire Count	12	ea
Ballast Input Watts	185	W
Actual Wattage	2220	W
Actual Density	0.23	W/sf
% Difference	6.53	% Below 90.1

Canopied Illumination (9.3.2)

Canopy Area	48	sf
Allowed Density	3	W/sf
Allowed Wattage	144	W
Luminaire Count	4	ea
Ballast Input Watts	27	W
Actual Wattage	108	W
Actual Density	2.25	W/sf
% Difference	25.00	% Below 90.1

Advertising/Sign Lighting Exempt 9.2.3(c)

LIGHTING RENDERING



LIGHTING RENDERING

