

CONCEPT

EXTERIOR PLAZA

LOBBY

FLEX CLASSROOM













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EXTERIOR PLAZA

QUANTITATIVE CRITERIA

<u> Walkways:</u>

E_h: 0.5 fc at grade

LPD: 0.2 W/ft² or 1 W/ft of walkway length

Entries:

E_h: 1 fc at grade

LPD: 30 W/ft of door width at main entry LPD: 30 W/ft of door width at main entry

Entry Canopies:

E_h: 4 fc at grade LPD: 0.4 W/ft²

QUALITATIVE CRITERIA

-connection to surrounding buildings

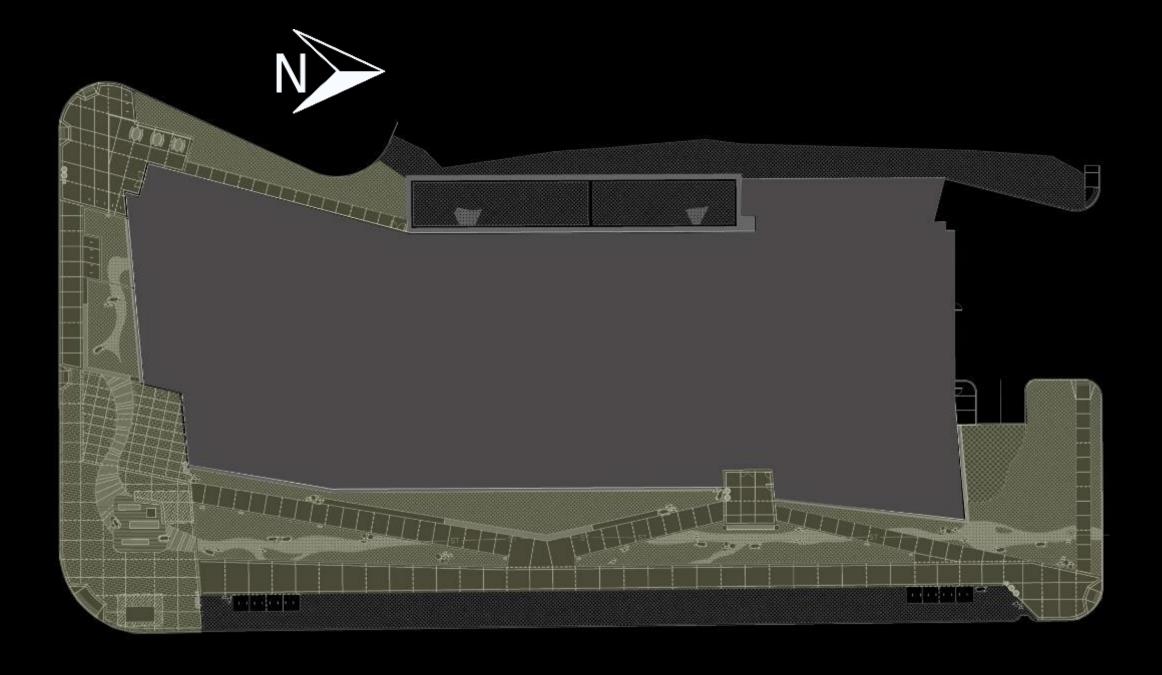
-Transition

-relaxation

-safety

-Places for gathering

-consider light spill from building interior

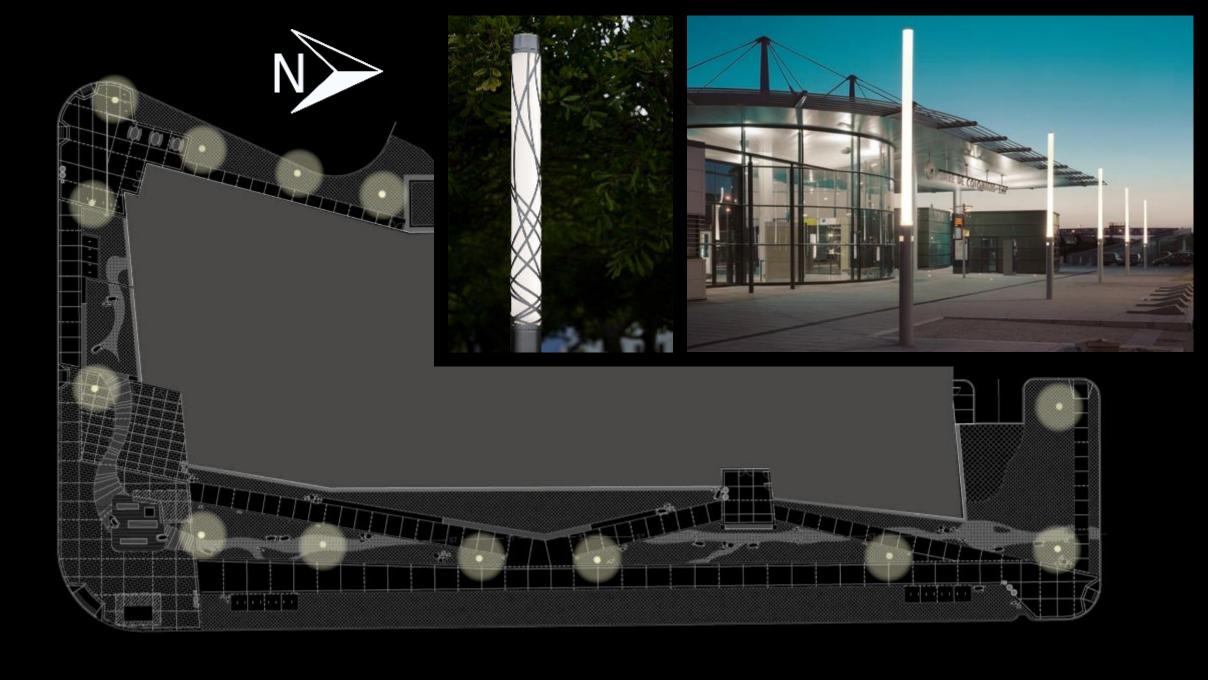


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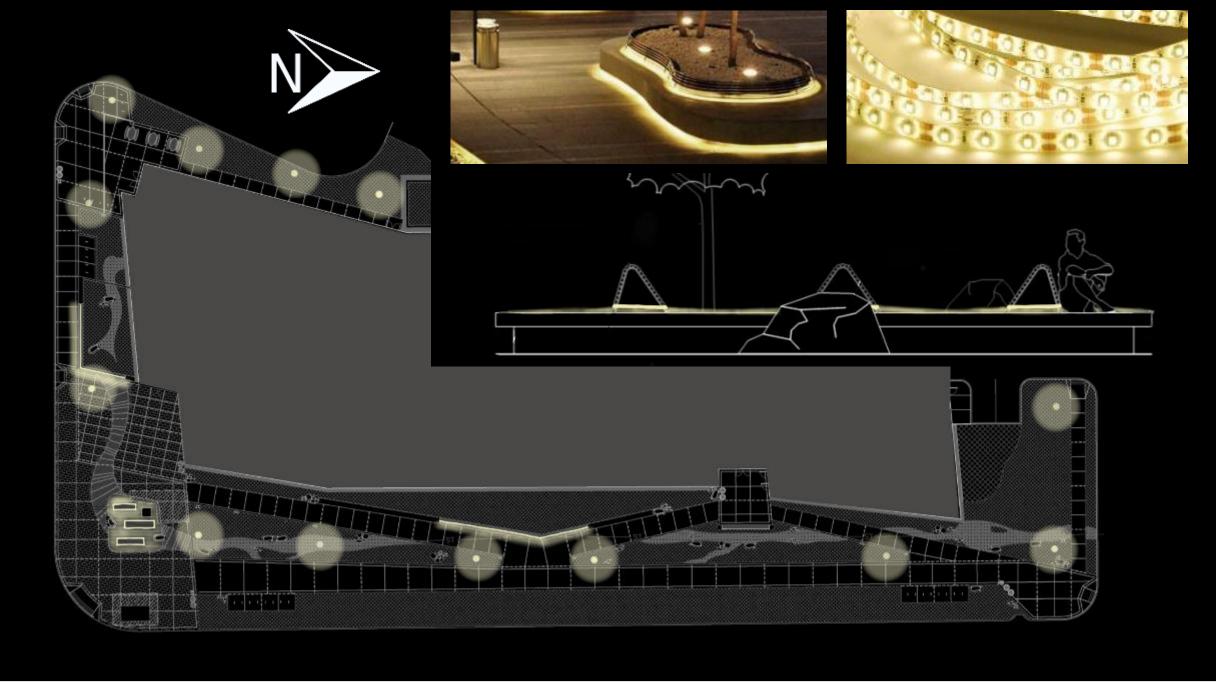


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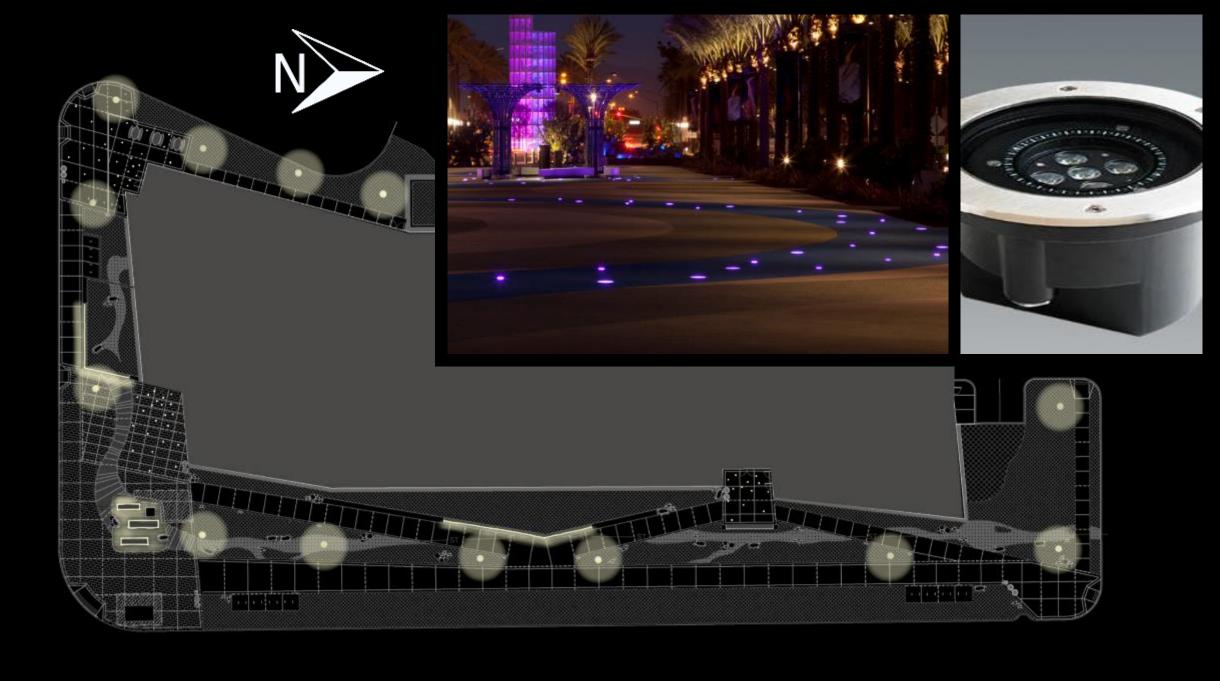


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QUANTITATIVE CRITERIA

<u>Daytime:</u>

 E_h (at building entry): 10 fc at floor

 E_v : 5 fc at 5'

Uniformity (avg to min): 3:1

LPD: 1.36 W/ft²

Night time:

E_h: 5 fc at floor

 E_v : 2 fc at 5'

Uniformity (avg to min): 3:1

LPD: 1.36 W/ft²

QUALITATIVE CRITERIA

-Heart of the building

-Main entry

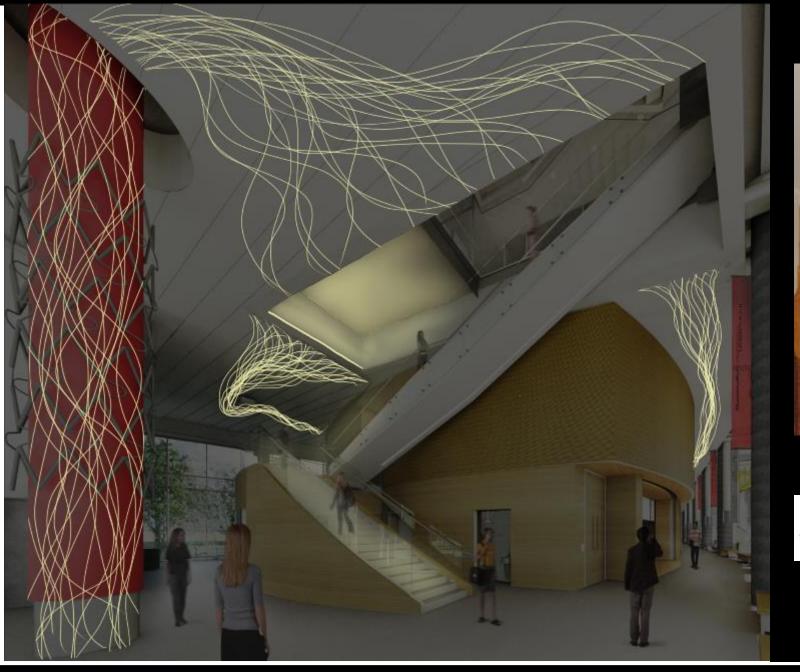
-Transition

-Wayfinding

-Height of space

-Connection to adjacent spaces

-3 designs





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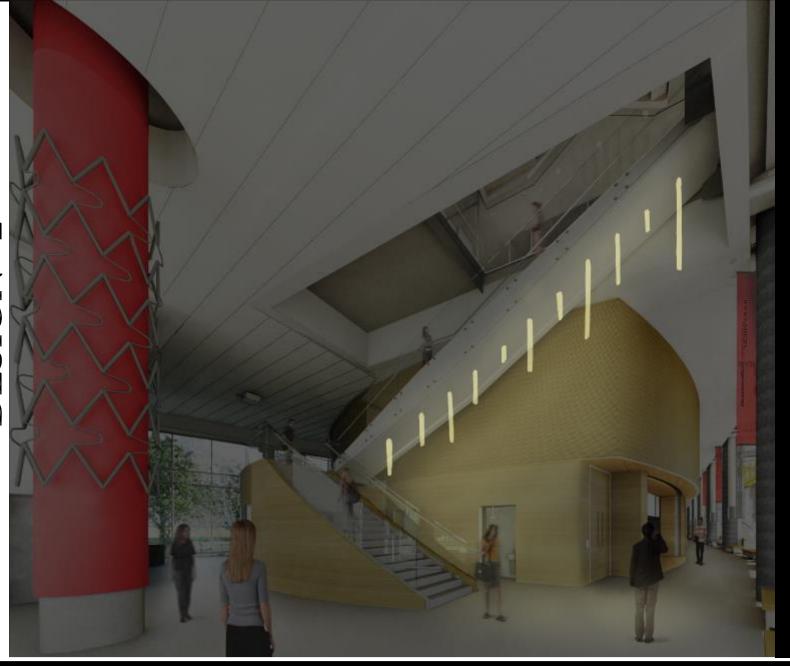


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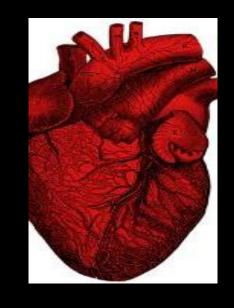
EXTERIOR PLAZA

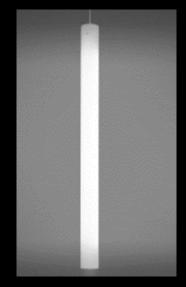
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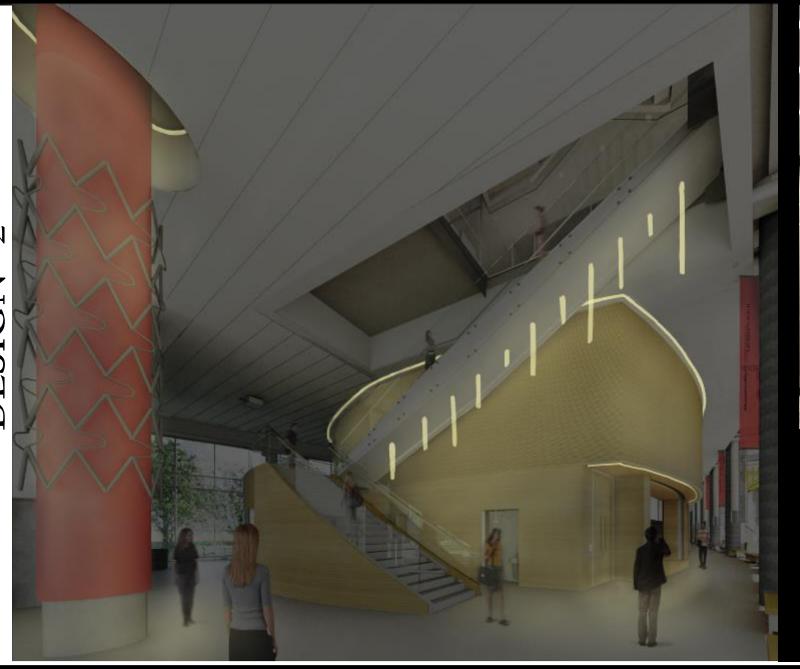


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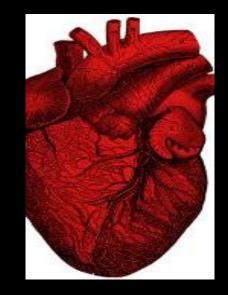
EXTERIOR PLAZA

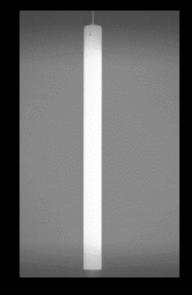
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QUANTITATIVE CRITERIA

Lectures w/ AV and notes Scene:

 E_h : 5 fc at 2'

 E_{v} : 1.5 fc at 4'

 E_v (at screen): 1.5 fc at 4'

Uniformity (avg to min): 2:1

LPD: 1.24 W/ft²

Classroom Scene:

 E_{h} : 40 fc at 2.5'

 $E_{\rm v}$: 1.5 fc at 4'

Uniformity (avg to min): 2:1

LPD: 1.24 W/ft²

QUALITATIVE CRITERIA

-Flexibility

-Variety of spaces (1, 2, or 4 spaces)

-Lecture vs. Event gathering

-Illuminance

-Uniformity

-Controls

-Psychological Impression: Public vs Private

Public- Events

Private- Classroom instruction







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FLEX LAB

QUANTITATIVE CRITERIA

Lab Bench:

 E_{h} : 50 fc at 3'

 E_{v} : 30 fc at 4'

Uniformity (avg to min): 1.5:1

LPD: $1.81 \,\mathrm{W/ft^2}$

Demonstration Area:

E_b: 100 fc at 3'

 E_{v} : 30 fc at 4.5'

Uniformity (avg to min): 3:1

LPD: 1.81 W/ft^2

QUALITATIVE CRITERIA

- -Illuminance
- -Uniformity
- -Daylighting influence
- -Controls
- -Individual task lighting
- -Mechanical and lab equipment
- -Openness to surrounding spaces
- -Height of space





















THANK YOU

SPECIAL THANKS TO:

BALLINGER THE LIGHTING PRACTICE DR. HOUSER