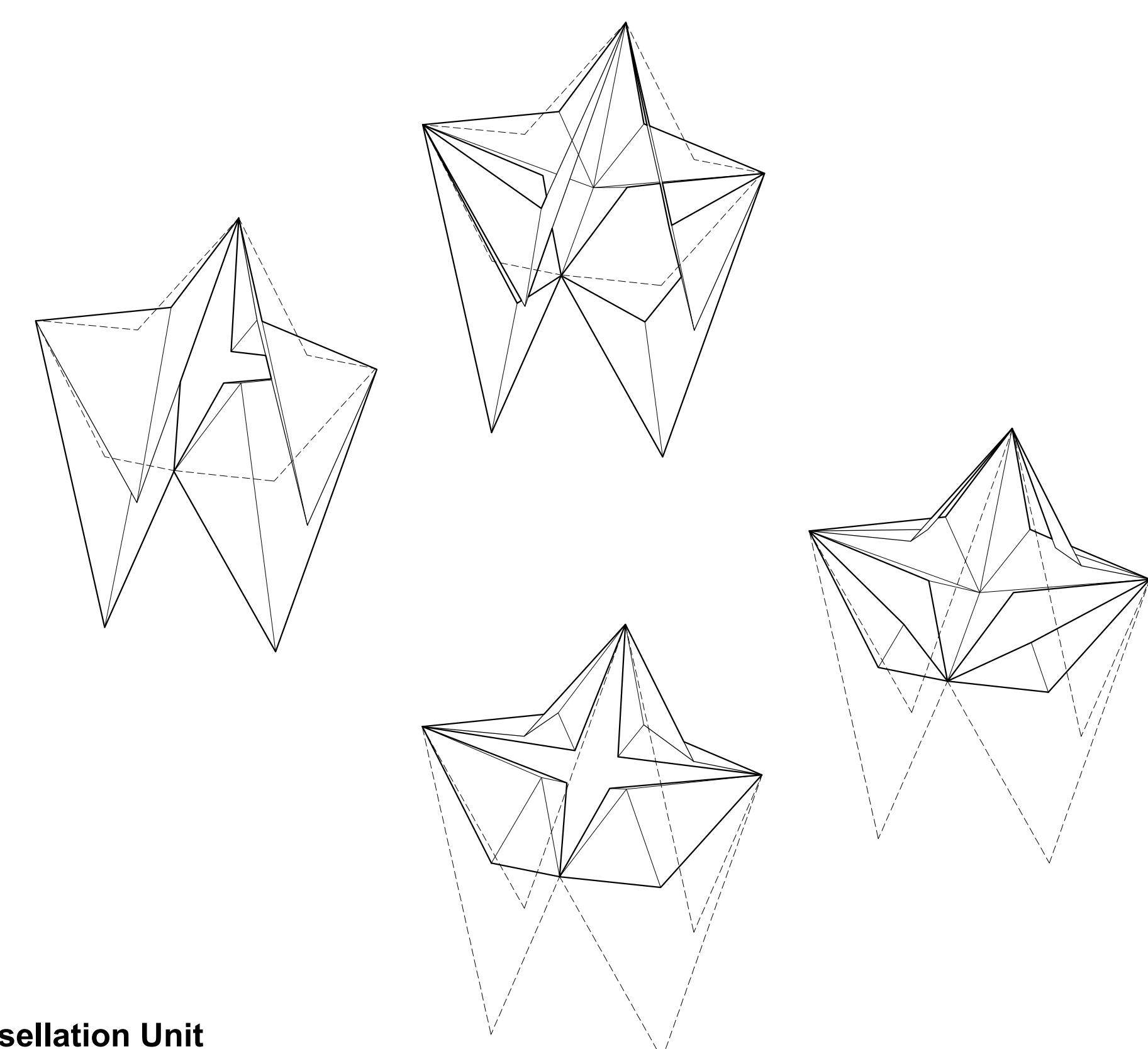


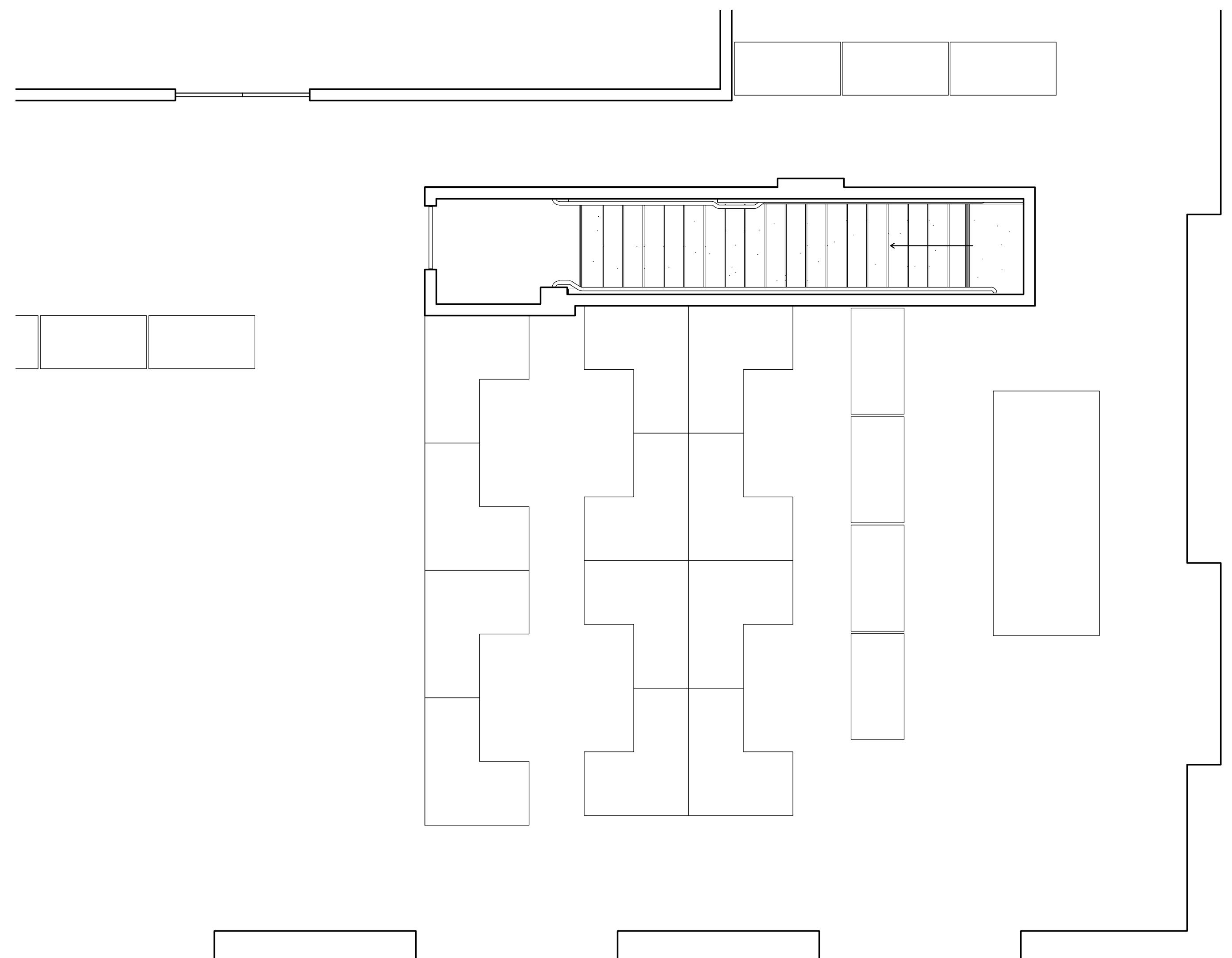
"Photon Gradient" Skylight / Project 2

Aaron Mick / Muha Studio / USC 202 F10

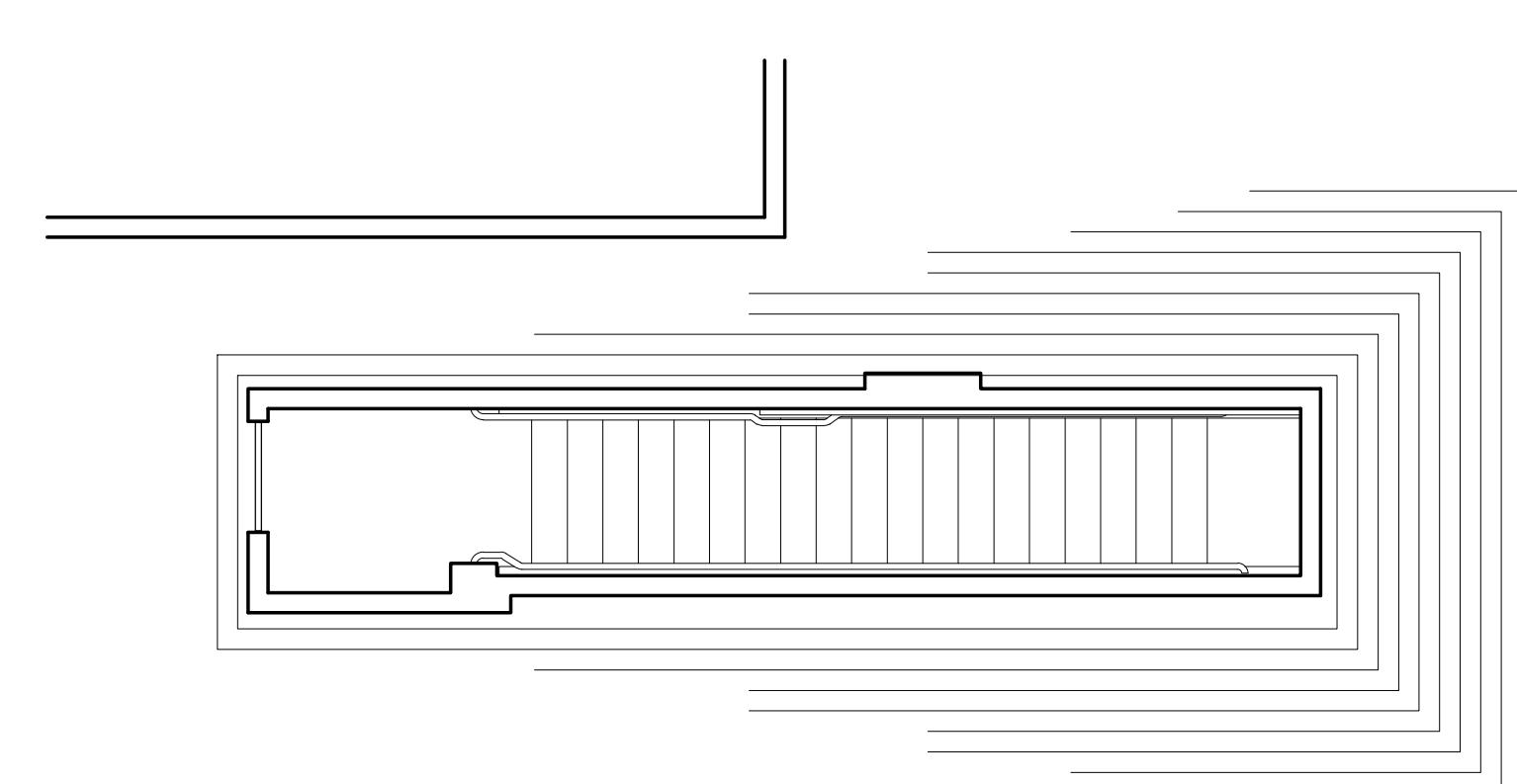
This skylight aims to utilize the tessellation as a dematerialization of the boundaries set forth by the existing stairwell casing, and extends these boundaries through the roof of Watt Hall in a manner that does not seek to change, but enhance the light behavior and character already present in the stairwell condition. Vertical expansion in the tessellation form increases with elevation, as density decreases. A staggered cut in the shell echoes the directionality and rhythm of the existing stair set, reflecting the scale of the tessellation at each of its layers, and serves as a datum along which the dematerialization of the stair shell takes place. Natural light is filtered down through the tessellation, reflecting off the angled triangular segments until it enters the stairwell interior. Light is more intense in the higher, less dense sections of the tessellation toward the top of the stair, and becomes muted and baffled in the deeper, denser parts in the lower part of the stair. This organization creates a heightened sense of rising as one climbs the stairs, and also allows for a reversal in roles between day and night. During nighttime, artificial light from the stairwell interior is diffused through the tessellation from the enclosed interior shell to the exterior space surrounding it. In this way, the tessellated form acts as an accordion-like sieve, opening up toward the sky the more one climbs, and closing down as one descends.



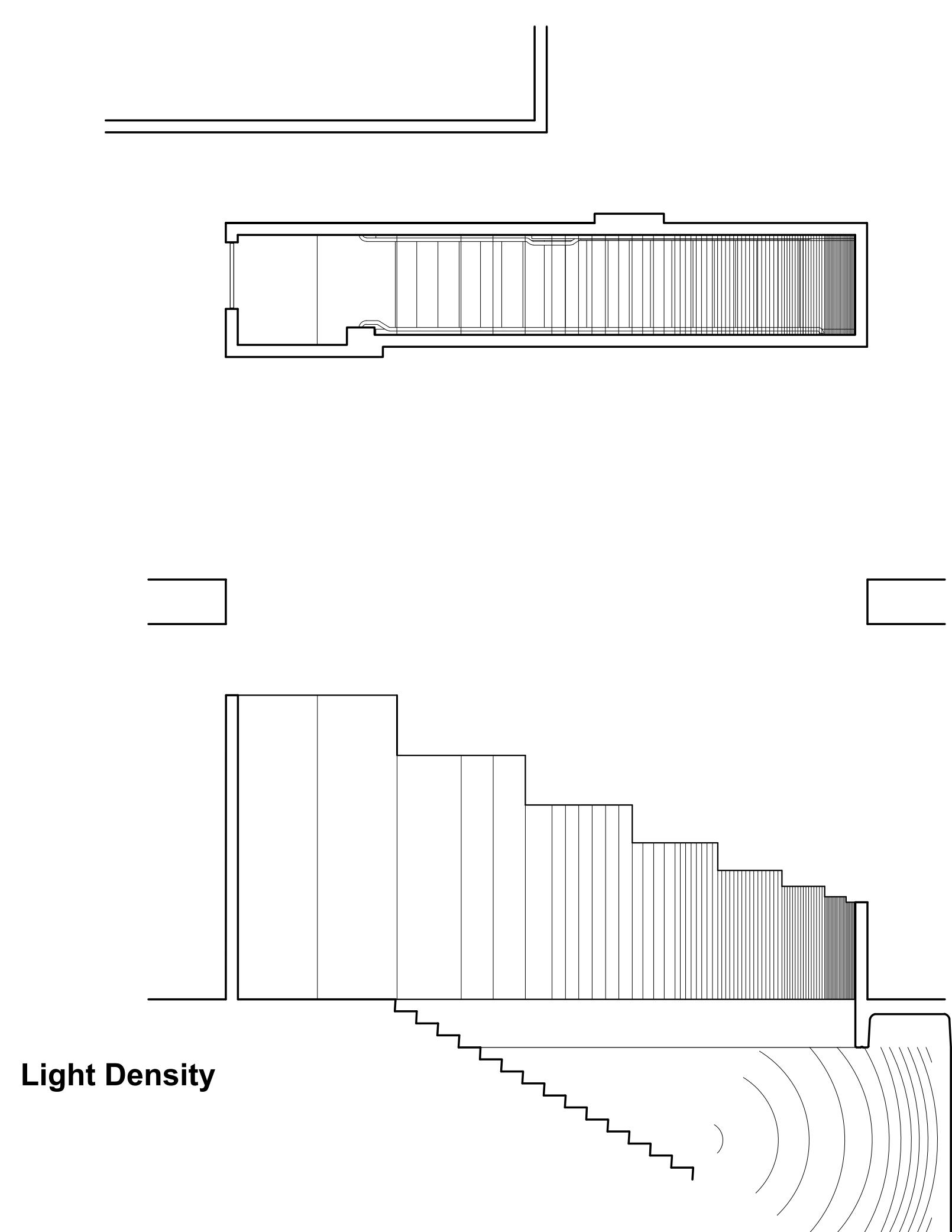
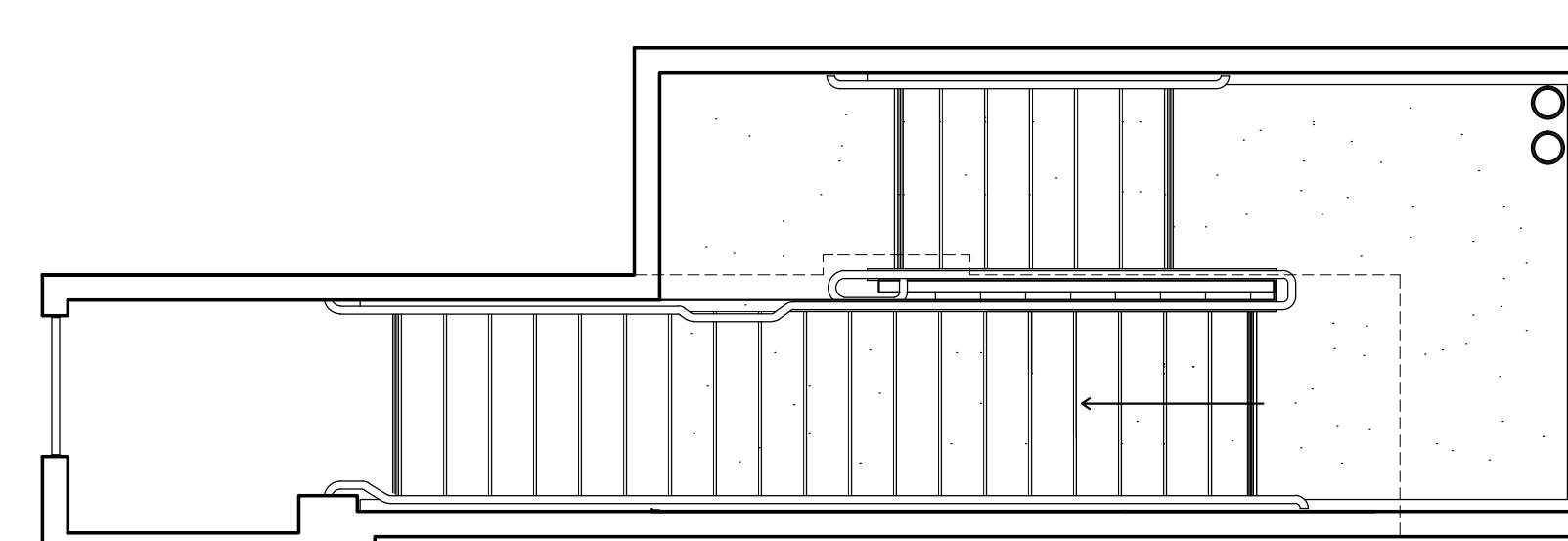
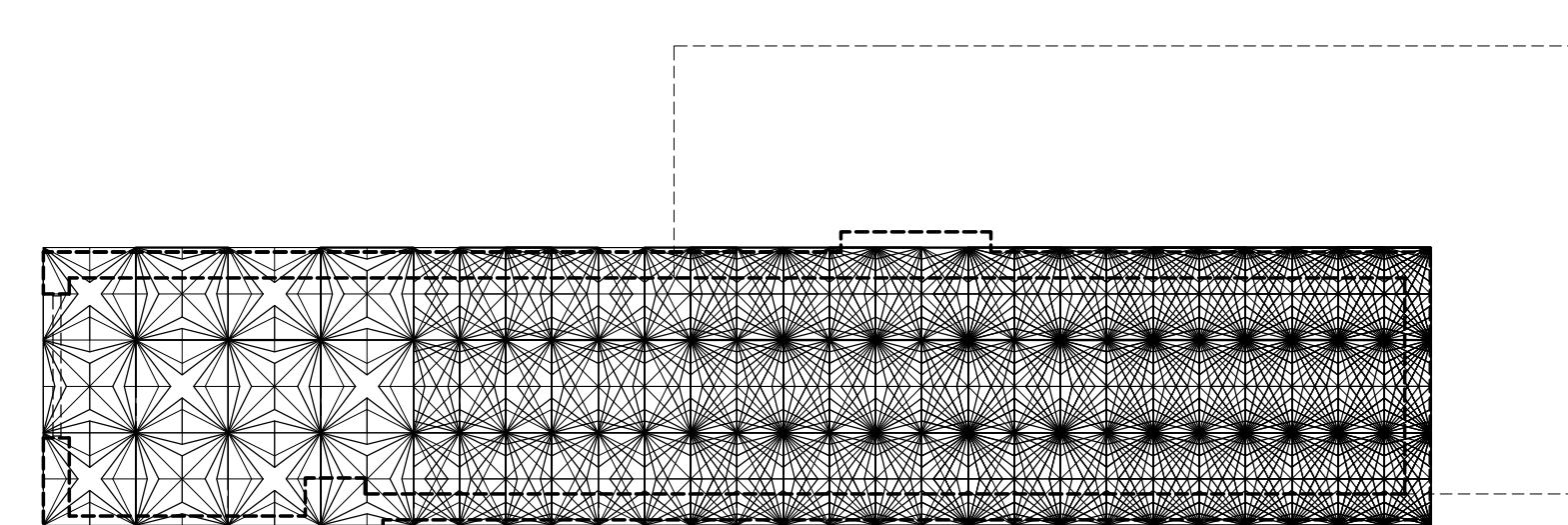
Tessellation Unit
Scale: NTS



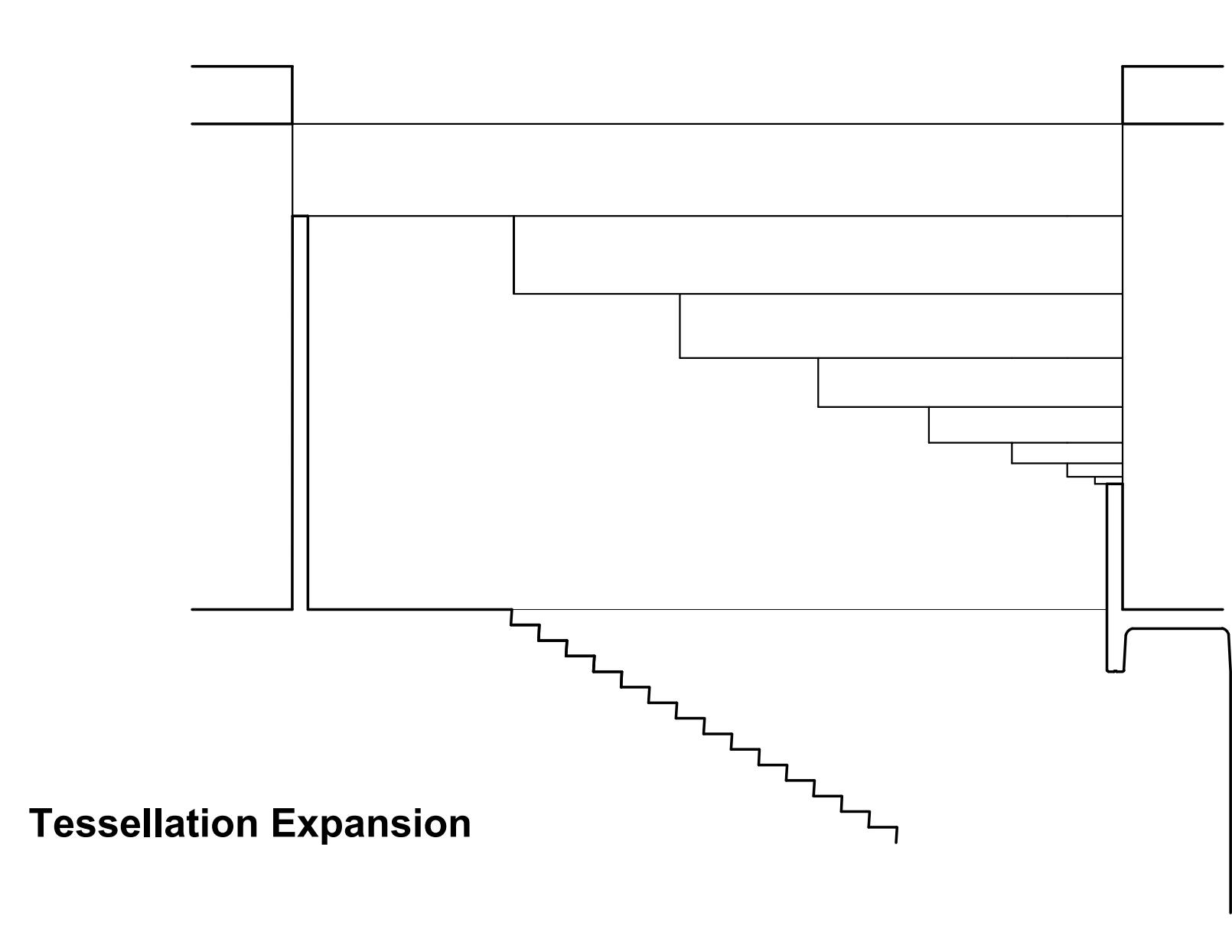
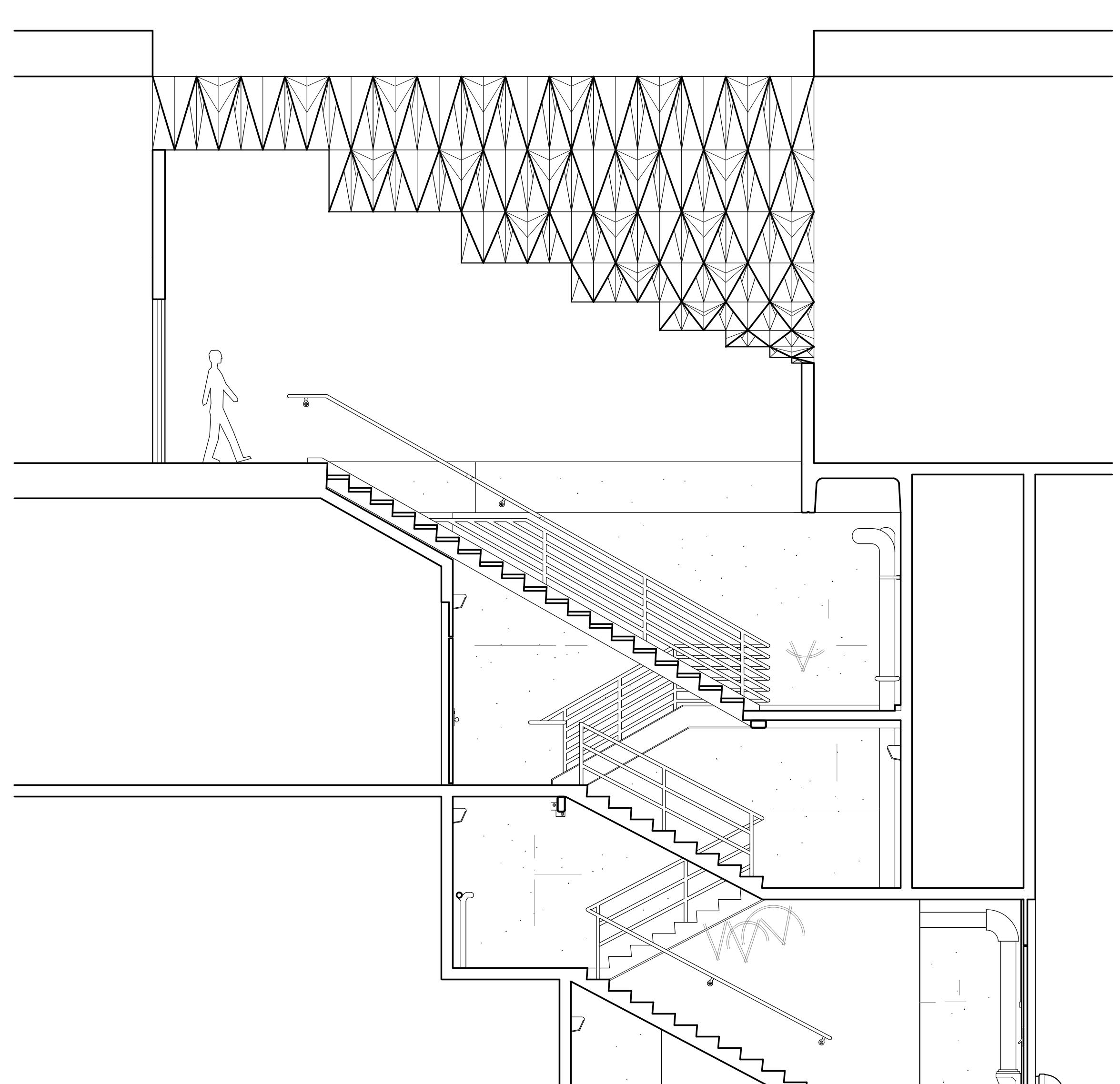
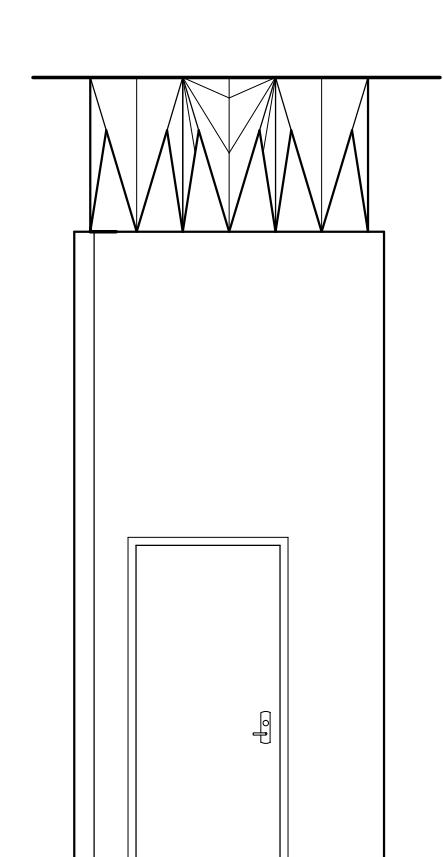
Site Plan
Scale: 1/4" = 1'



Nighttime Luminescence



Light Density



Tessellation Expansion

Plans & Section
Scale: 1/4" = 1'

