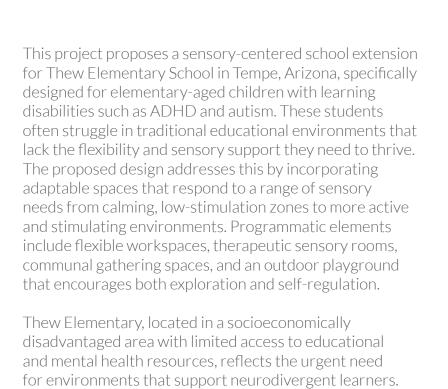
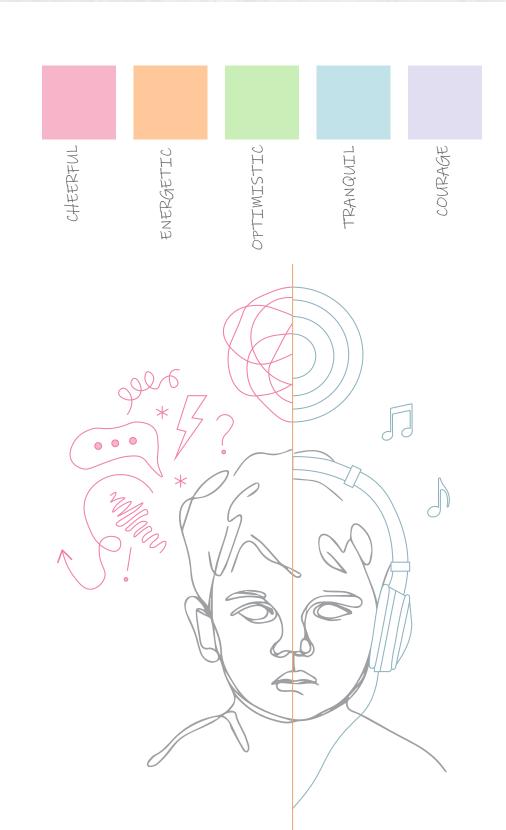


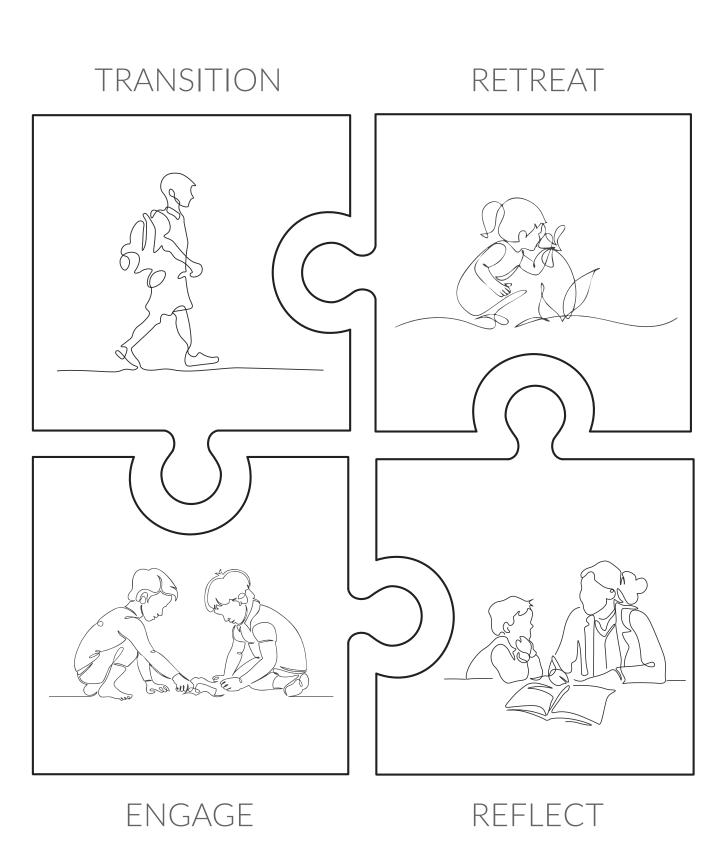
## SENSORY RETREAT INCLUSIVE EDUCATION

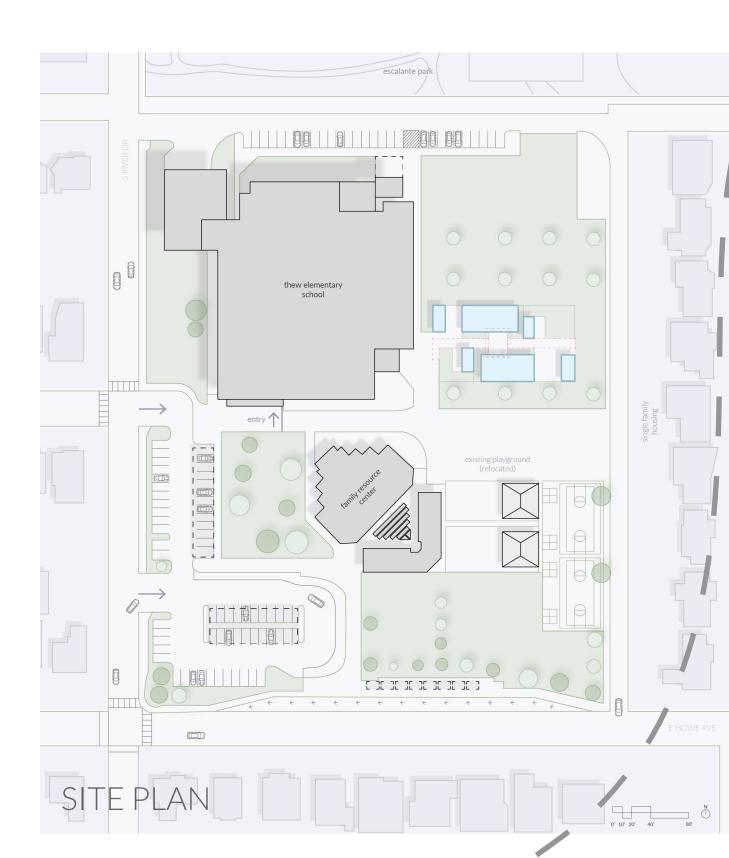


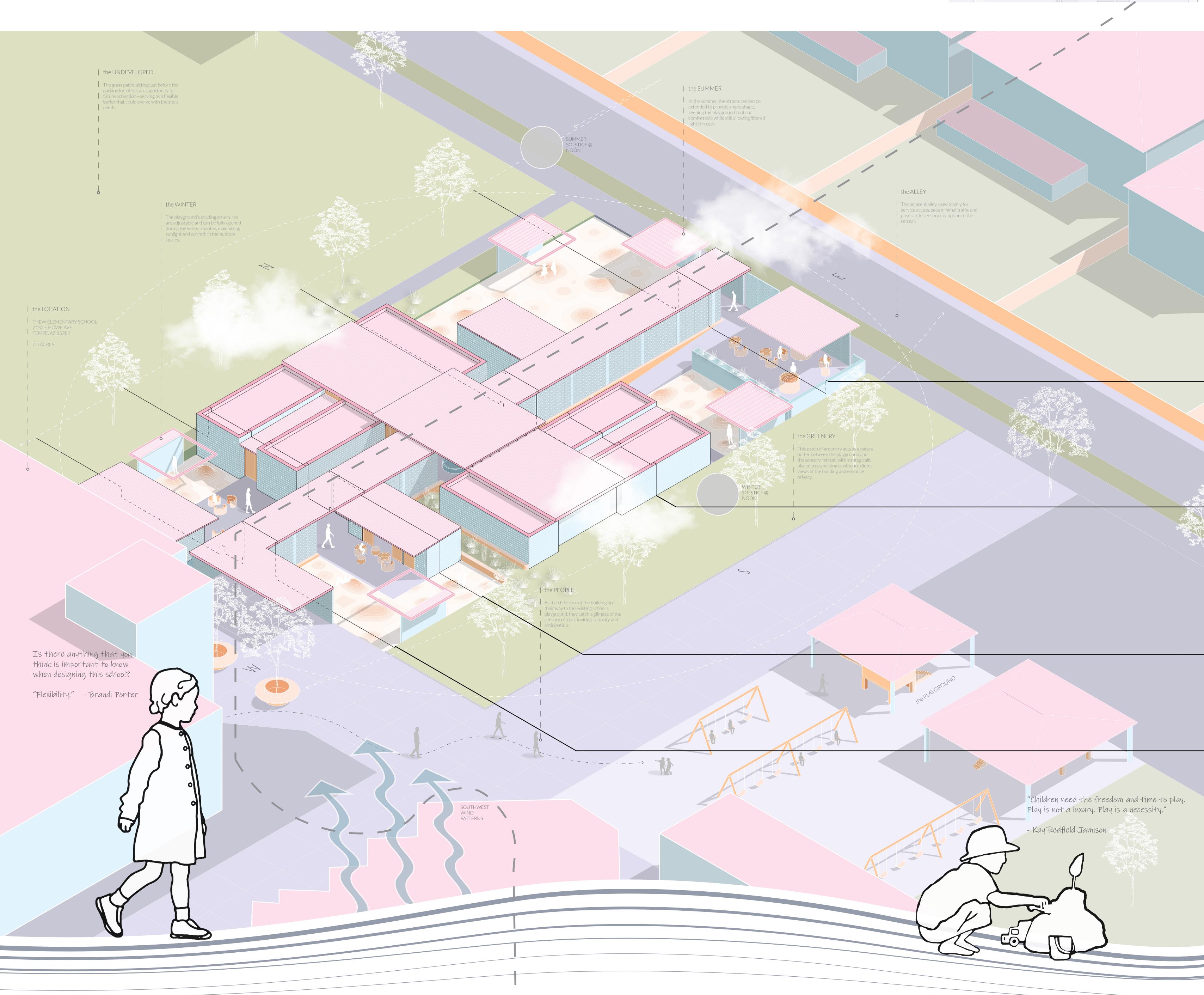
many classrooms are overcrowded and under-resourced, contributing to high rates of absenteeism, especially among students receiving special education. This project not only provides a physical retreat for overwhelmed students, but also aims to bridge systemic gaps by creating an equitable, inclusive environment that improves mental health, reduces stress, and increases student engagement. Rooted in the local historical, cultural, and environmental context of Tempe, the design incorporates natural materials, biophilic elements, and community-informed strategies to reflect the values of the surrounding neighborhood. Environmental interventions, such as microclimate creation, thermal comfort, and adaptable furniture, further enhance the comfort and usability of the space. Ultimately, the project is more than a physical intervention; it is a tool for educational justice and emotional well-being, supporting children in developing the confidence, focus, and sense of belonging they need to succeed in and beyond the classroom.

With a student population of 600 and only 25 teachers,







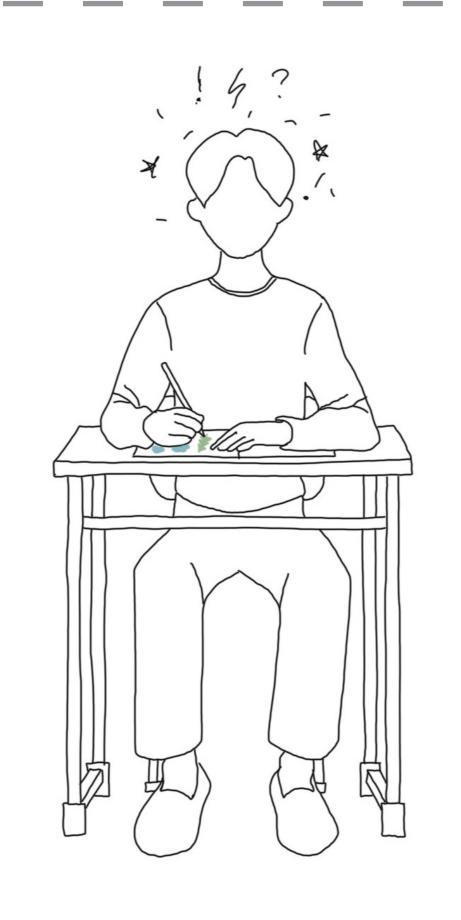


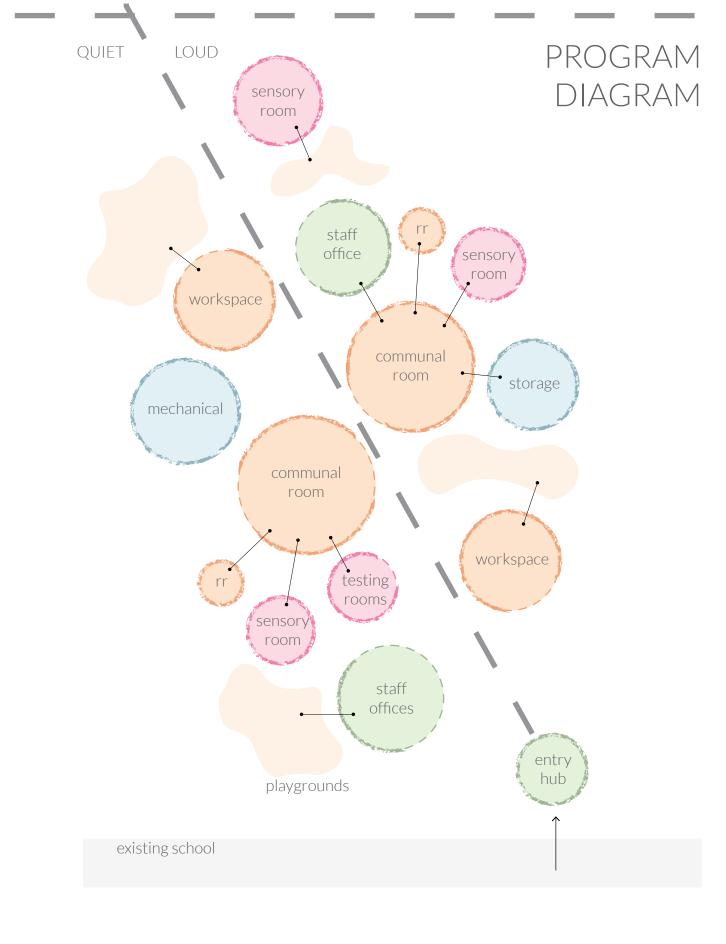


## HYPERSENSITIVE

Children who are hypersensitive to sensory input require calm, predictable environments that help them feel secure and in control. Research in sensory integration highlights how overstimulation from loud sounds, bright lights, or chaotic visuals can cause stress or shutdown in these children. To support their needs, spaces should minimize sensory triggers by using soft lighting, muted colors, and sounddampening materials. Natural elements like wood, cork, and textiles offer gentle tactile experiences that are soothing and familiar.

Incorporating biophilic design further supports emotional regulation. Views of greenery, indoor plants, and natural airflow have been shown to reduce anxiety and promote a sense of calm. These quiet, lowstimulation spaces give hypersensitive children the opportunity to retreat, reset, and re-engage on their own terms which creates a learning environment that is both inclusive and responsive to individual









HYPOSENSITIVE

Children who are hyposensitive to sensory input—often seen in those with ADHD—require environments that provide increased sensory stimulation to stay engaged. These children tend to seek movement, bright visuals, and varied textures to maintain focus and interest. According to research in occupational therapy and sensory processing, stimulating environments help activate under-responsive sensory systems, improving attention and participation in tasks. Design elements like vibrant colors, dynamic lighting, interactive surfaces, and opportunities for physical activity are essential to meet these needs. Spaces tailored for hyposensitive children benefit from flexible layouts that encourage movement and exploration. Modular furniture, climbing structures, sensory walls, and spaces that invite jumping or rolling help them regulate their energy levels. Providing a variety of stimulating materials—such as rubber, textured tiles, or color-changing panels—can support sensory seeking in a purposeful way. These elements not only meet their physical and cognitive needs but also promote active learning, creativity, and self-expression.

sensory needs.

regulation, and individualized focus.

