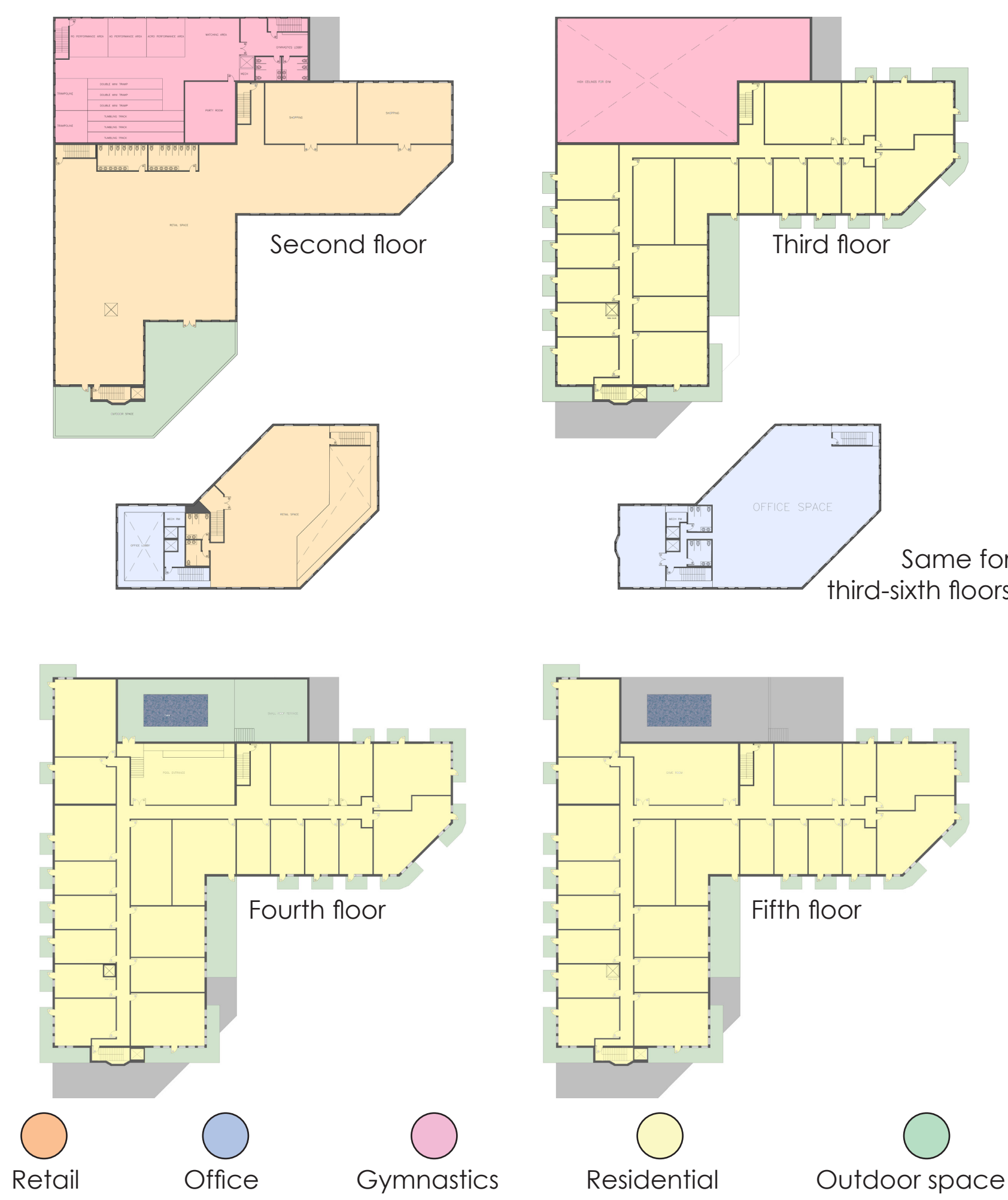
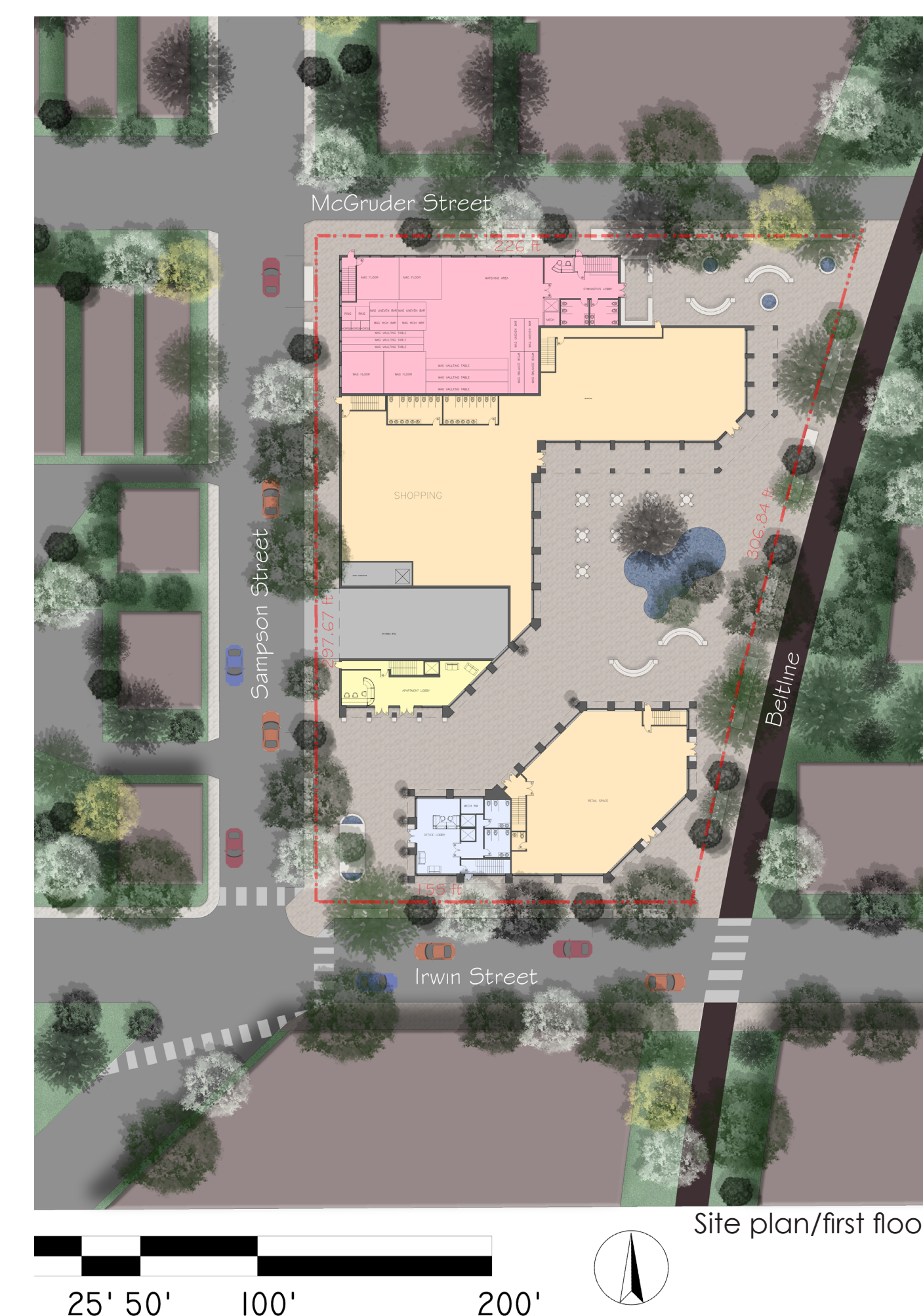


Katrina Johnson, Professor Lionel Johnson, School of Architecture and Interior Design, J.N. Andrews Honors Program, Andrews University



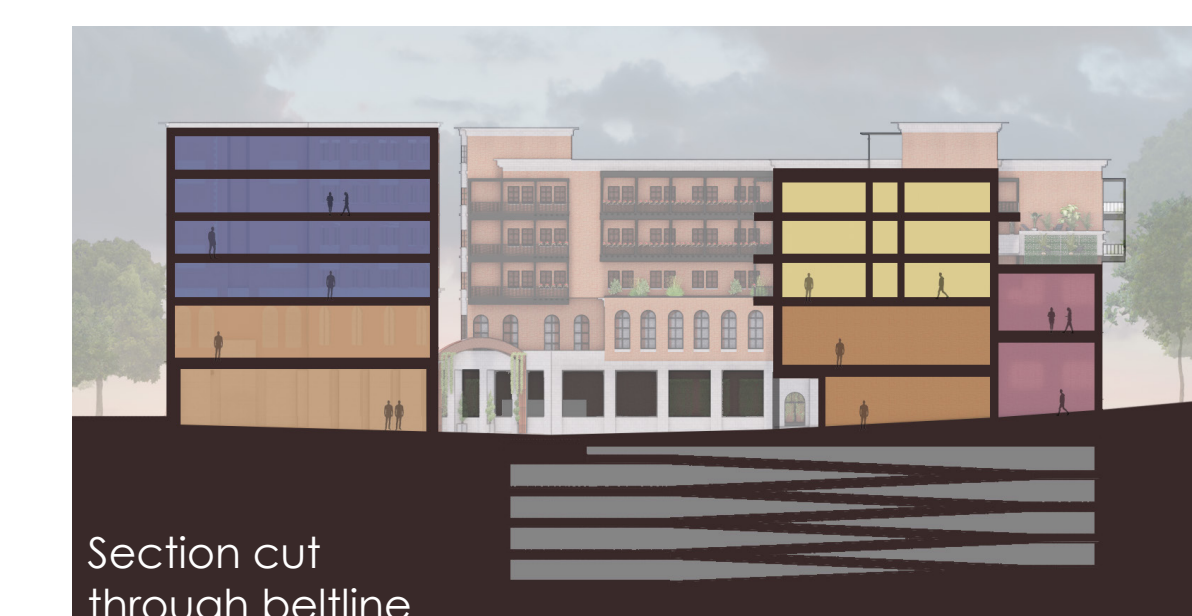
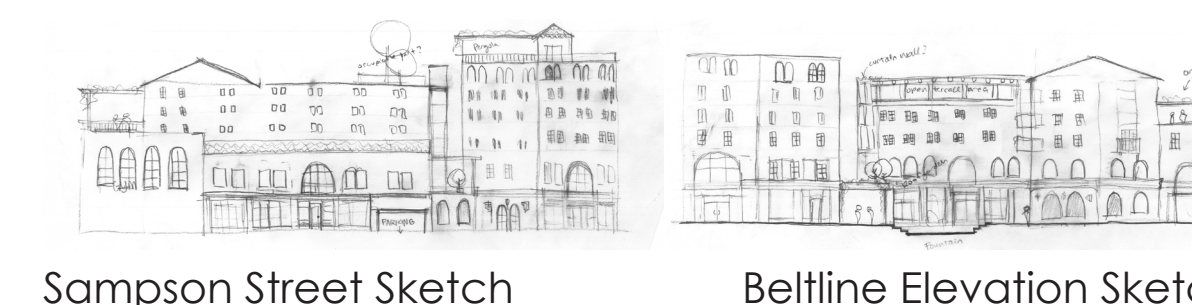
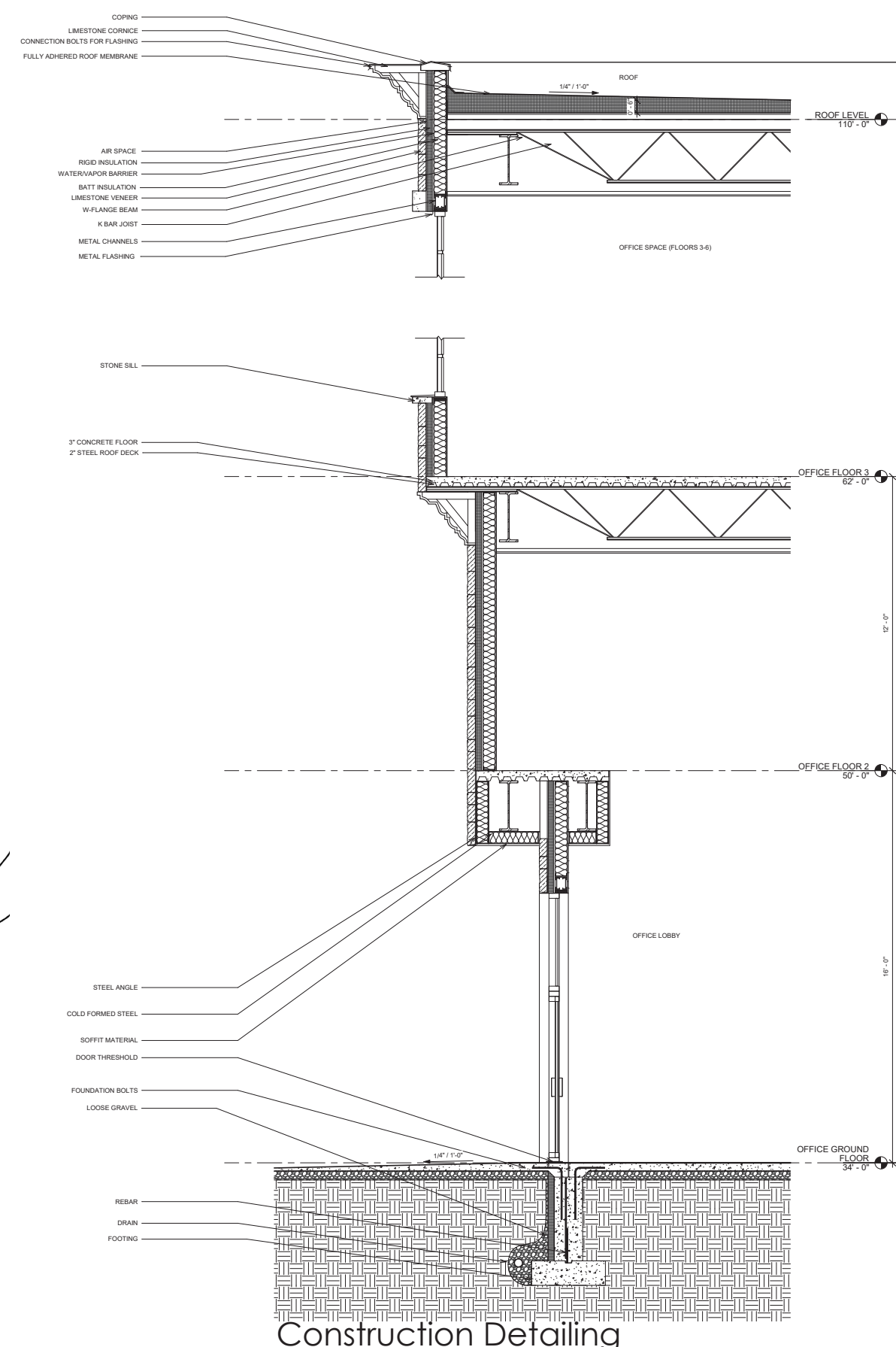
ABSTRACT

The Atlanta Beltline Mixed-Use Development is a vibrant, sustainable public space within the urban fabric of Krog Street, Atlanta. The project encourages neighborhood rejuvenation and reconciles interests of developers and locals, while examining the neighborhood context and zoning ordinances. Fall 2023 marked completion of the initial design, spearheaded by the theme "rejuvenate," achieved by including natural elements, places for holistic wellbeing, and inclusive social spaces. Spring 2024 is dedicated to design refinement, specifically sizing structural elements and designing wall assemblies. This development ensures sustained vitality within Krog Street and contributes to the long-term success and resilience of the entire neighborhood.



METHODOLOGY

- Researched the Krog Street district in Atlanta, GA demographics such as poverty, income, education, median house values.
- Visited the site to investigate and measure the property. Examined terrain, surrounding neighborhood, noise levels.
- Gathered site information like climate, traffic, sunlight, wind, noise levels, surrounding buildings, proximity to public transportation system.
- Investigated zoning ordinances and code allowances.
- Examined precedents.
- Developed a design concept based on chosen guiding principle, "Rejuvenate." Sketching, as seen to the right, was paramount.
- Culminated with presenting the preliminary design concept at the studio review in December, including exterior, interior, and landscaping concepts.
- Designed structure, HVAC systems, and reconciled topography with the building structure.



RESULTS

The project culminates in the design of a successful mixed-use development in the Krog Street district that positively impacts the community. Facilities include:

- Gymnastics center for children and teens
- Gym facilities for adults
- Healthy sandwich shops and smoothie bar
- Local clothes designer
- Outdoor apparel shop
- Outdoor gym equipment, seating and play area
- Public gardens and water features

Design Inspiration:

- The development utilizes traditional Atlantan architectural styles and materials such as brick and limestone.
- Plaza layout is inspired from European plazas such as Piazza del Campo in Siena, Italy.

Patterns present in the project:

- *Children in the city*: create a safe space for all ages
- *Building fronts*: allow the building to wrap the streets and encourage street life
- *Short passages*: allow natural light to flow, place internal windows, furnishings, create a gateway experience, limit the length
- *Public outdoor room*: create sufficient space to gather and encourage natural activity but allow people to define the space themselves



CONCLUSIONS

The project improves the community by meeting the following needs:

- Poverty and employment**
 - New job opportunities
 - High tech companies
 - Local vendors
- Education**
 - Aftercare for kids
 - Promote physical fitness (gymnastics, outdoor gear retailer)
 - Specialized tech companies provide internships
- Rent burden and housing**
 - High rent burden near the site means more than 30% income is spent on rent
 - Providing apartments of varying levels of affordability and luxury
- Health and environment**
 - Passive solar heating and shading
 - Roof terraces for additional outdoor space
 - Native plants and trees
 - Environmentally sustainable materials
 - Rain coverage
 - Physical activity is encouraged



BIBLIOGRAPHY

- Alexander, Christopher, et al. *A Pattern Language*. New York, Oxford University Press, 1977.
- "About — The Krog District." *The Krog District*. <https://www.thekrogdistrict.com/about>. Accessed 4 September 2023.
- "Atlanta Climate, Weather By Month, Average Temperature (Georgia, United States)." *Weather Spark*. https://weatherspark.com/y/15598/Average-Weather-in-Atlanta-Georgia-United-States-Year-Round#google_vignette. Accessed 4 September 2023.
- "Atlanta's Own High Line May Finally Erase Some Racial Divisions." *The Atlantic*, 21 April 2015. <https://www.theatlantic.com/politics/archive/2015/04/atlantas-own-high-line-may-finally-erase-some-racial-divisions/431955/>. Accessed 4 September 2023.
- Bayor, Ronald H. *Race and the shaping of twentieth-century Atlanta*. University of North Carolina Press, 1996.
- Gourmay, Isabelle. *AIA Guide to the Architecture of Atlanta*. Edited by Gerald W. Sams. University of Georgia Press, 1993.
- Immergluck, D. (2009). Large redevelopment initiatives, housing values and gentrification: The case of the Atlanta beltline. *Urban Studies*, 46(8), 1723–1745. <https://doi.org/10.1177/0042098009105500>
- "Krog Street Tunnel - Graffiti Street Art Site in Atlanta, GA." *Discover Atlanta*. <https://discoveratlanta.com/things-to-do/krog-street-tunnel/>. Accessed 4 September 2023.
- "Project Goal: Trails." *Atlanta Beltline*. <https://beltline.org/the-project/project-goals/project-goal-trails/>. Accessed 4 September 2023.
- Rousso, Katie Strasberg. "Inman Park, Atlanta's First Residential Neighborhood, Is Still On The Rise." *Southern Living*, 7 September 2022. <https://www.southernliving.com/travel/georgia/inman-park-atlanta>. Accessed 4 September 2023.
- "What's In A Name? | Krog Street." *Georgia Public Broadcasting*, 16 August 2018. <https://www.gpb.org/news/2018/08/16/whats-in-name-krog-street>. Accessed 4 September 2023.

