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EXECUTIVE SUMMARY I PROJECT NARRATIVE



The Schematic Design for Brent Elementary School, located in Ward 6 of Washington, DC, stands as a visionary solution to address the unique challenges posed by the site's limited space. Designed to accommodate preK-5th-grade students, this schematic design offers innovative approaches while adhering to a consistent and forward-thinking educational program. The development of this design has been driven by an inclusive process that prioritizes engagement with stakeholders and the local community. Recognizing the importance of diverse perspectives, the design team has actively sought input from educators, parents, and community members. This collaborative effort ensures that the final design reflects the aspirations and needs of those directly impacted by the school's transformation.

Despite the constraints imposed by the small site, this design showcases creative solutions that optimize spatial functionality. This design prioritizes flexible learning environments, acknowledging the evolving nature of education and the diverse needs of students spanning from PreK to 5th grade. The innovative program integrates modern pedagogical approaches, fostering a dynamic and adaptable educational experience. Crucially, ongoing conversations with the Department of General Services (DGS) and the District of Columbia Public Schools (DCPS) underscore a commitment to aligning the designs with evolving educational standards and community expectations. This iterative process ensures that the final design not only meets current needs but remains adaptable for future educational advancements.

The design shows a commitment to sustainability and environmental consciousness. Green initiatives are woven into the fabric of the designs, reflecting a dedication to creating a learning environment that is both eco-friendly and supportive of the community's broader values.

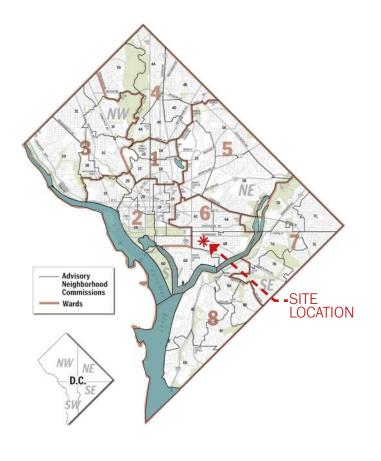
In conclusion, the design for Brent Elementary School exemplifies a collaborative, inclusive, and innovative approach to overcoming the challenges of a small site. The iterative engagement with stakeholders and ongoing dialogue with relevant authorities position this design as a transformative solution for Brent Elementary School, setting the stage for a model educational facility within Ward 6.





SITE ANALYSIS I SITE LOCATION





w:

301 NORTH CAROLINA AVE SE

SQUARE: 0792 LOTS: 0033

ORIGINAL BUILDING CONSTRUCTION: 1968

ADDITION CONSTRUCTION: 2009

EXIST ENROLLMENT (2022-2023): 419 Students

DESIGN CAPACITY: 577 Students CONSTRUCT. COMPLETION: July 2027







SITE ANALYSIS I ZONING



Zoning / Land Use

Zone District: RF-1/CAP

Overlay Area: CAP (Capitol Interest)

Historic District: Capitol Hill Historic District

Zoning Regulation

FAR: 1.8

Max Height (Not Including Penthouse): 40'-0"

Max Penthouse Height: 18"-6"

Front Setback: Not Required

Rear Yard: 20'-0" Min

Side Yard: Not Required

Lot Occupancy: 60% Max At Max Building Height, can

increase to 70% provided that additional 10% not

exceed 20'-0" in height or 2 stories

Pervious Surface: 50% Min

1 Parking Space Per 8,000 GSF

1 Min Loading Berth

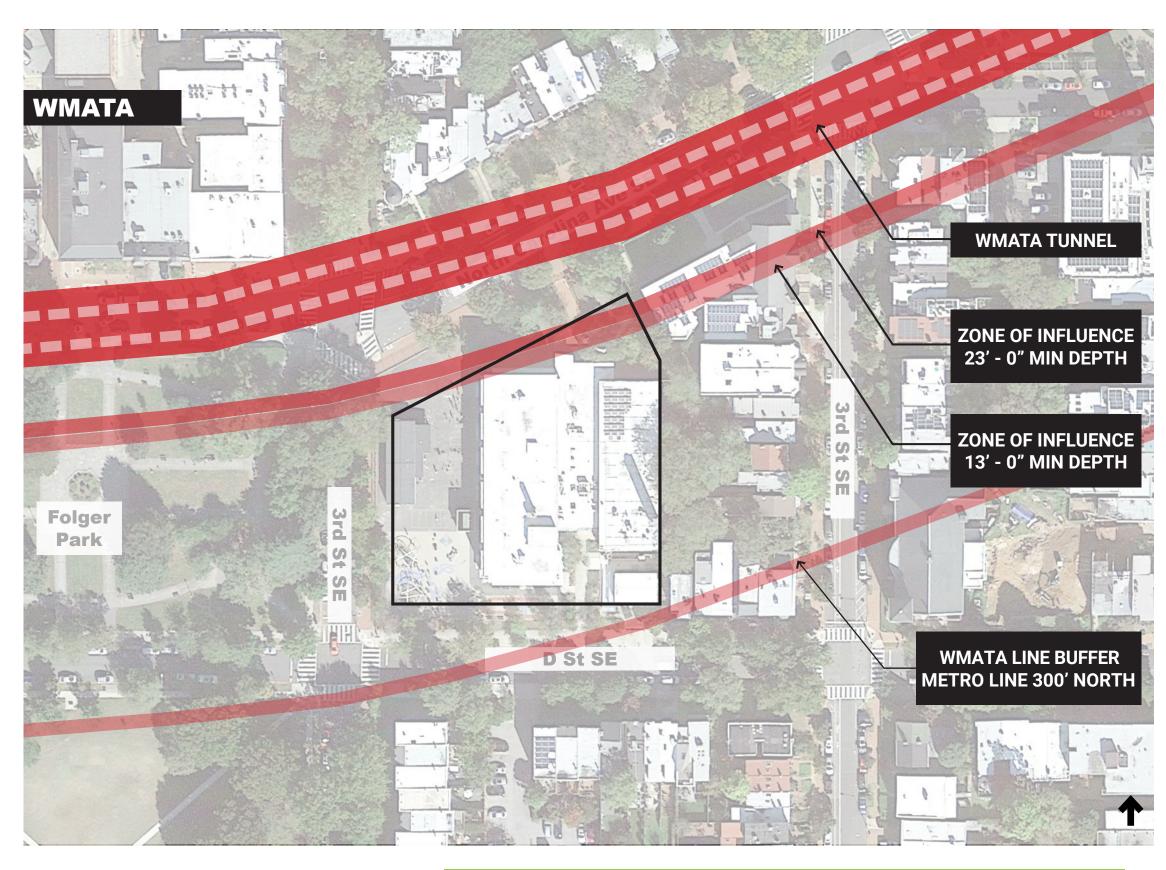
1 Min Service/Delivery Space







SITE ANALYSIS I WMATA



WMATA tunnel is located to the north of the site approximately following North Carolina Ave SE. Zone of Influence (ZOI) of the WMATA tunnel overlaps the northeast corner of the property as shown. The depth of the ZOI decreases as the distance from the WMATA tunnel increases.

To avoid the Zone of Influence (ZOI), the building footings would have to be between the depth of 23'-0" to 13'-0" below grade in the darker red band shown in the diagram and between the depth of 13'-0" to 0'-0" in the lighter red band.





SITE ANALYSIS I EXISTING SITE



© INTERSECTION AT 3RD ST SE & N CAROLINA AVE SE



B VIEWFROM 3RD ST SE



A INTERSECTION AT 3RD ST SE & D ST SE



DENTRANCE ON N CAROLINA AVE SE





E CHURCH AT N CAROLINA AVE SE & 4TH ST SE



■ ENTRANCE AT D ST SE



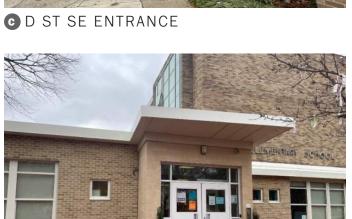
G VIEW FROM D ST SE





SITE ANALYSIS I EXISTING SITE





B N CAROLINA AVE SE ENTRANCE

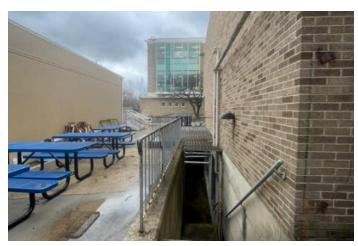


A 3RD ST SE FACADE

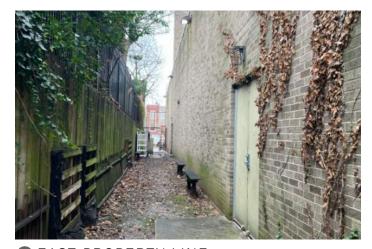


D SCHOOL MURAL





■ MECH AREAWAY



■ EAST PROPERTY LINE



G EAST PROPERTY LINE







SITE ANALYSIS I EXISTING SITE



N CAROLINA AVE SE LOOKING NORTH

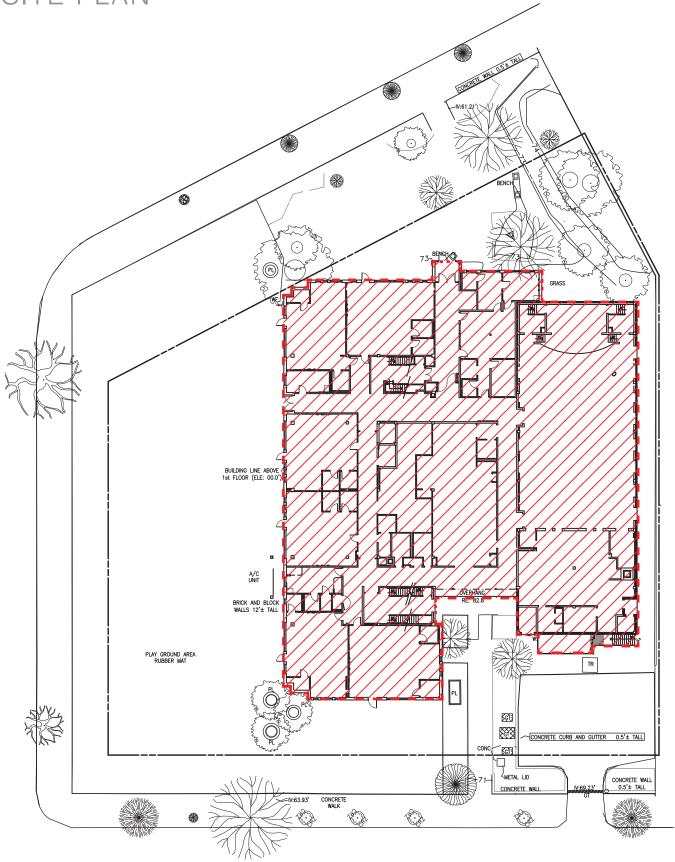


D ST SE LOOKING SOUTH





EXISTING CONDITIONS I SITE PLAN



LEGEND



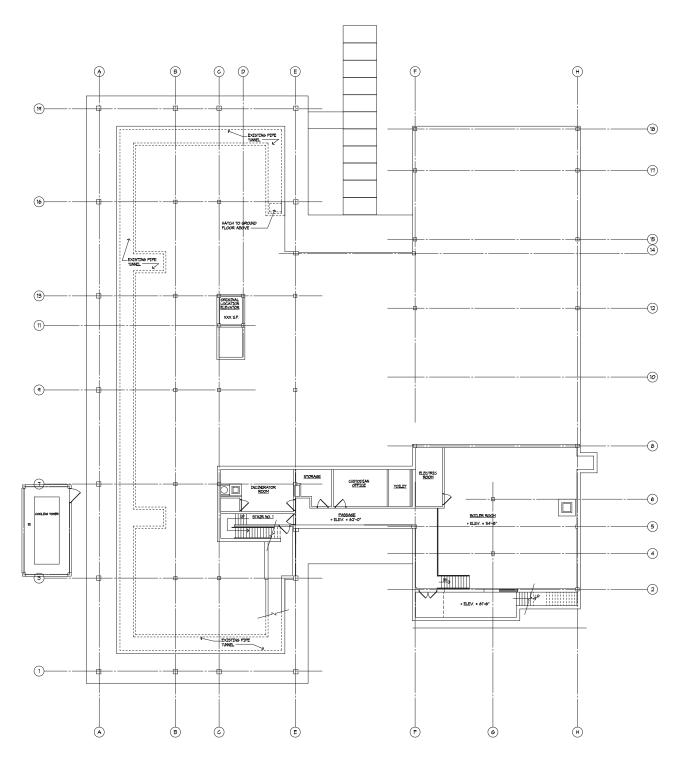


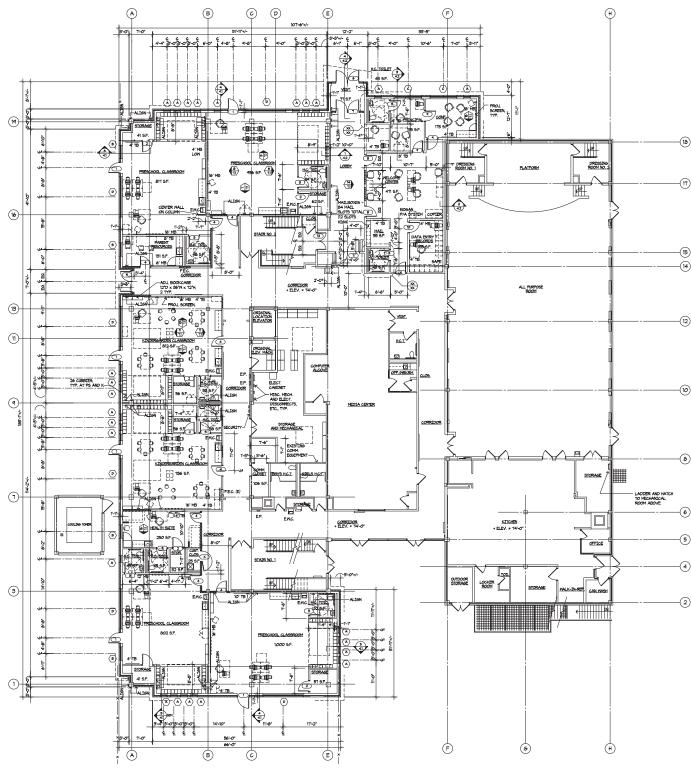






EXISTING CONDITIONS | PLANS



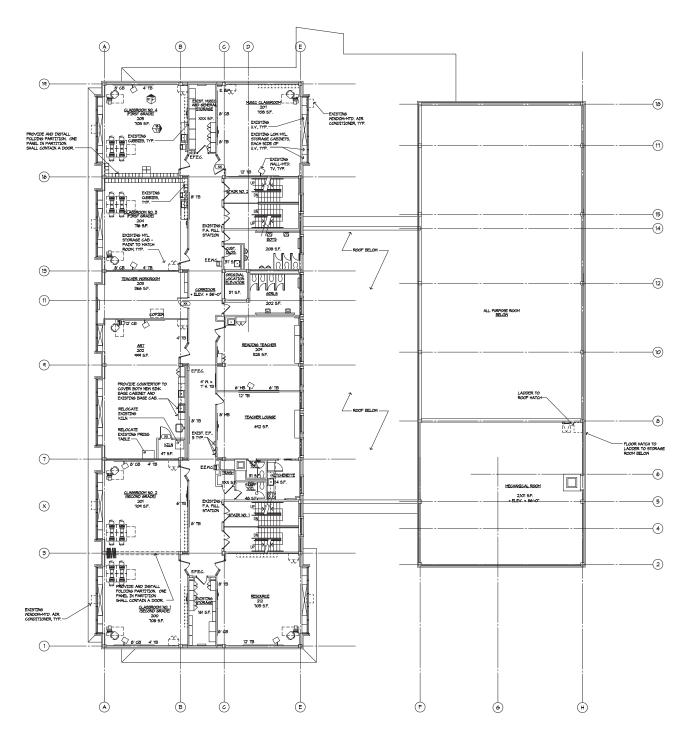


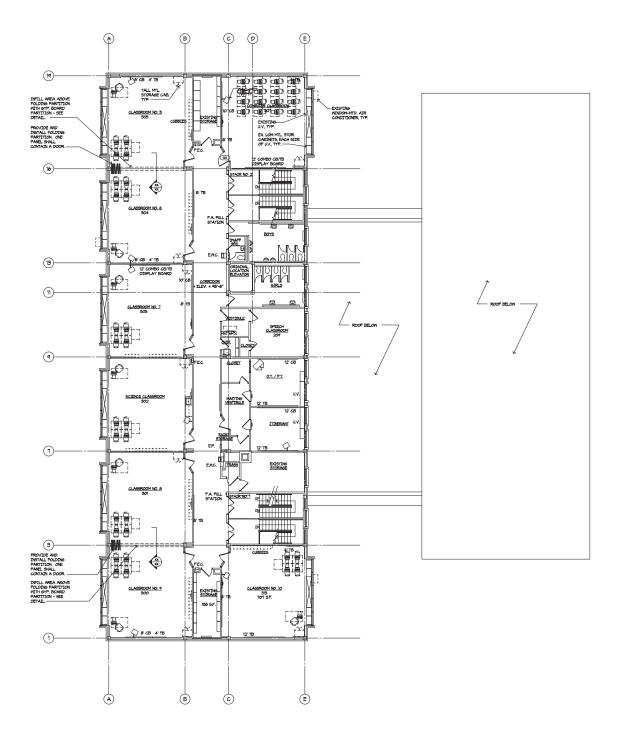
LEVEL 1 **BASEMENT**





EXISTING CONDITIONS | PLANS



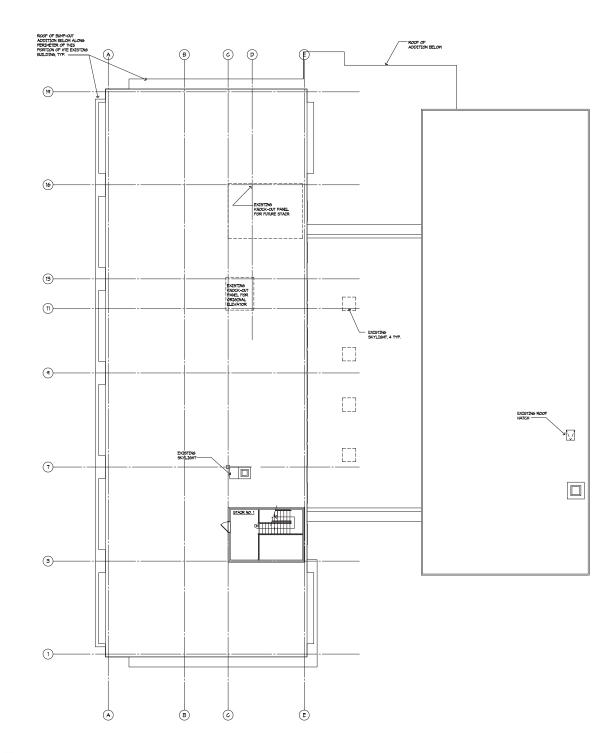


LEVEL 2 LEVEL 3





EXISTING CONDITIONS I PLANS

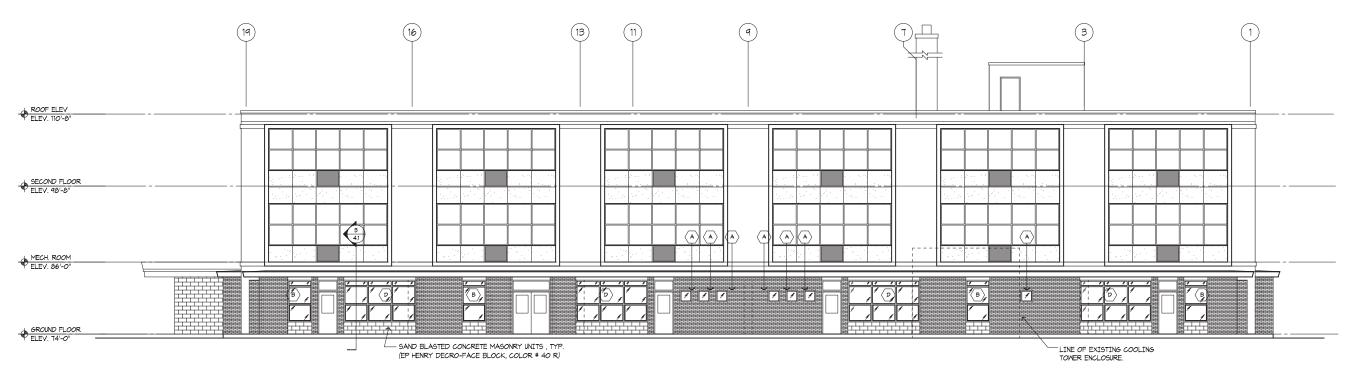


ROOF

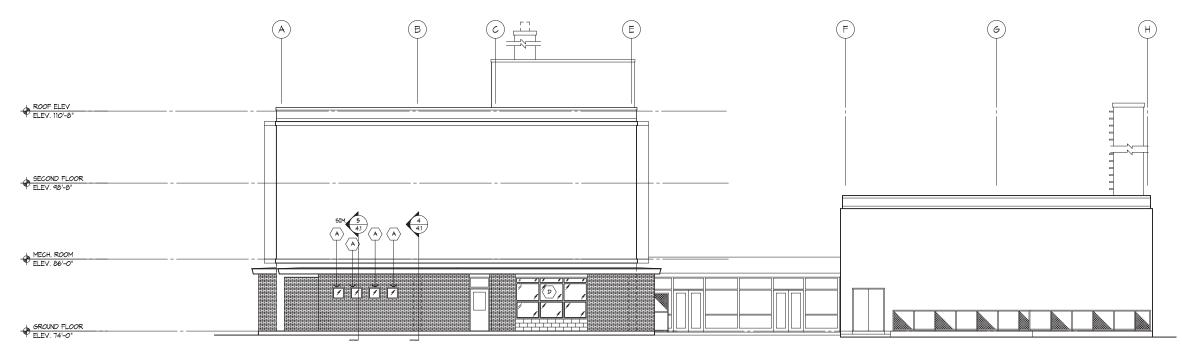




EXISTING CONDITIONS | ELEVATIONS



3RD ST ELEVATION



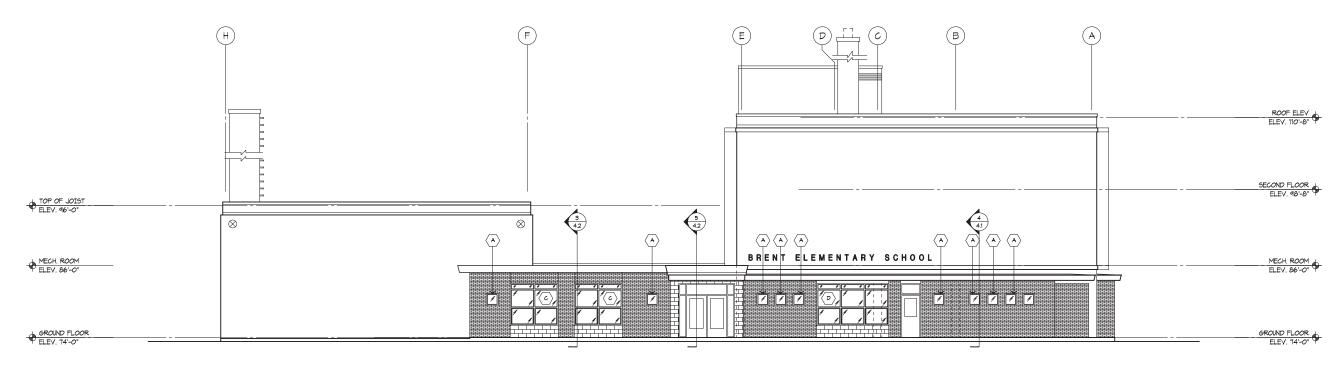
D ST ELEVATION



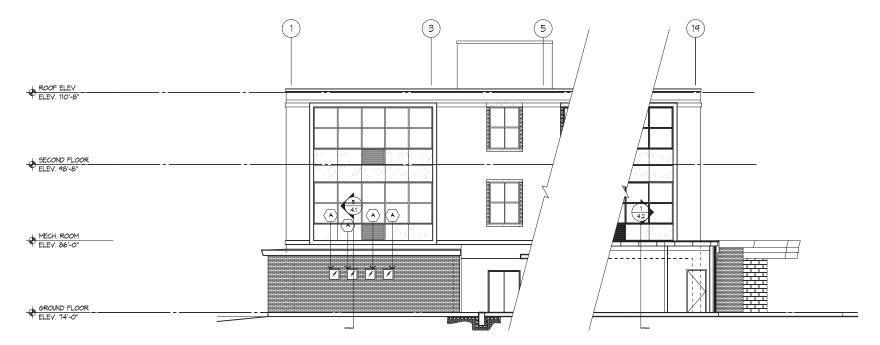




EXISTING CONDITIONS | ELEVATIONS



NORTH CAROLINA AVE ELEVATION



EAST ELEVATION





CONCEPT DESIGN | CONCEPT NARRATIVE



The following design incorporates feedback from DGS, DCPS, the SIT Committee and preliminary review from other agencies. The design incorporates 2 primary goals:

- 1. Creating a highly engaging elementary school per the DCPS Program, with an emphasis on Reggio Emilia instruction per the Brent School pedagogy.
- 2. Providing an urban response that celebrates the tree-lined and walkable Capitol Hill neighborhood, as envisioned per the original l'Enfant city plan featuring grand avenues and public parks.

The result is an appropriately scaled 'city school', which frames the street corner, overlooking both North Carolina Ave SE and Folger Park.

The design adheres to best practices in school design, like the following:

- · CPTED principles for site and building layout
- · Locations for Public Art
- · High performing building envelope and mechanical systems
- · The incorporation of daylighting and views for connections to nature
- · Age-appropriate 'blocking and stacking' to ensure safe egress for all learners, and easy access to 'Specials' to minimize travel distance
- · Distributed Administration for passive supervision throughout the building
- · Grade level Small Learning Communities (SLCs) or "neighborhoods"
- · Equitable access to toilets and accessible circulation for both students and staff
- · Flexible break out and gathering spaces (Discovery Commons and Resource Rooms)
- · Centralized location of gathering spaces for ease of school and potential community use.

The design site layout features the new building flanking 3rd St SE and North Carolina Ave SE. The entrance, on the first floor, and the "Specials" above, celebrate the corner and create a strong focal point for the architecture, the neighborhood, and for easy wayfinding. Front yards leverage public space to integrate outdoor learning and bike racks. A large play area is situated behind the building, in a sunny open yard which features play grounds, outdoor learning, a traffic garden, landscaping, and access from the Gymnasium and Dining. Parking and service zones are located at the south east corner of the site, with access from D Street, SE.

The building mass follows the property line which helps maximize play araes. The ribbon window configuration helps each classrooms receive proper daylight and views, while the flexible ribbon opening infill accomodates the alignment of various sized rooms as they stack up the building. Ther vertical High-performance Concrete Panels break the scale of each classroom wing to relate to the smaller scale adjacent residential neighborhood. The main wall "peels away" at the corners revealing the special program spaces behind such as the Library, Arts & Science rooms, Discovery Commons and Main Entry.

The design also includes the following strategies to create a high performing building:

- · Roof area for future Photo Voltaic (PV) array to offset on-site energy usage
- · Area for extensive green roof as part of the Storm Water Management (SWM) system
- · Sun shades where needed to diffuse southern daylight and western glare.

Safety features of the site layout include:

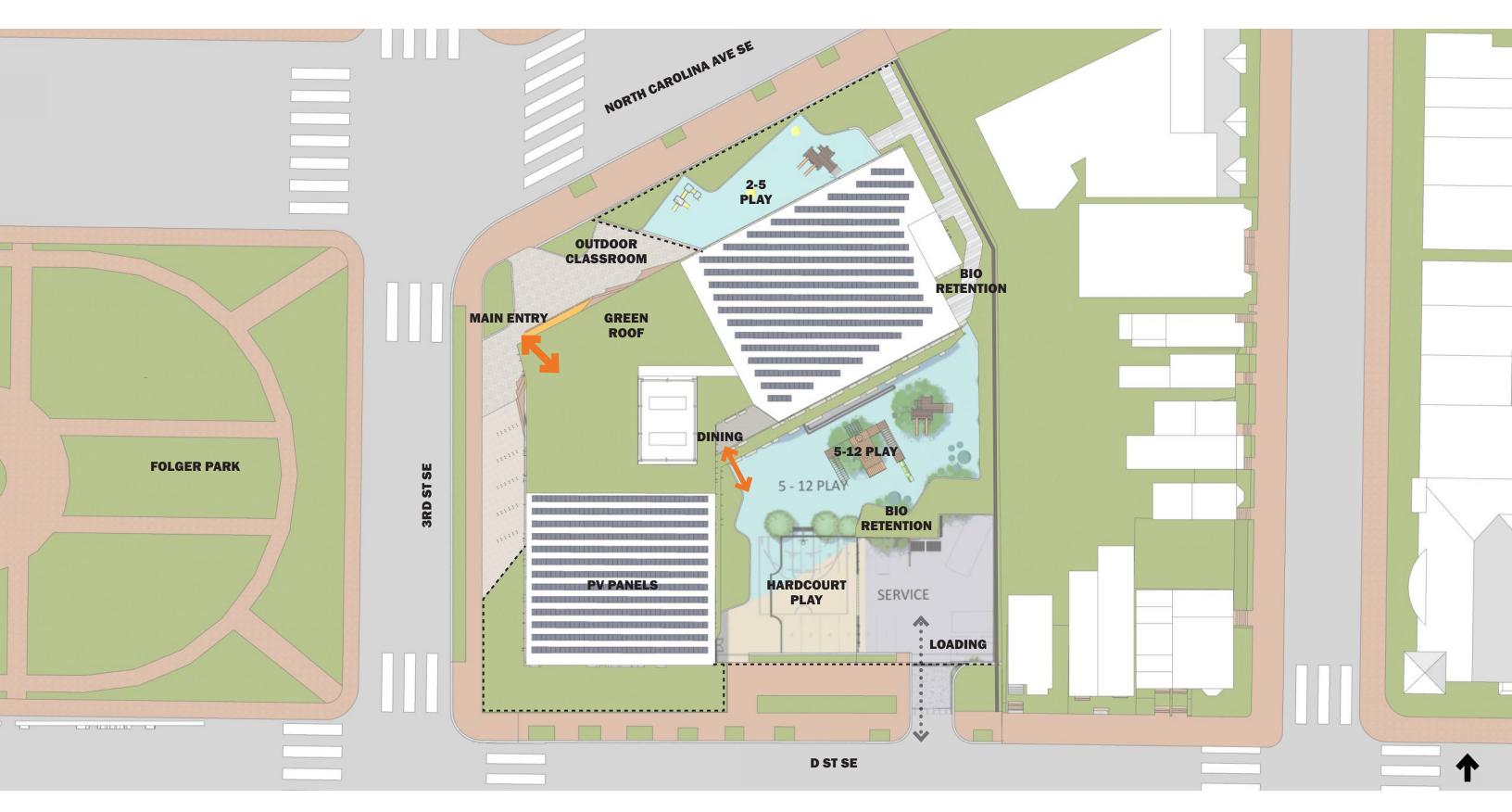
- · Easily identified single point of entry
- · Administrative office windows facing the front gathering plaza
- · Perimeter fencing securing student areas
- Main playground away from busy streets







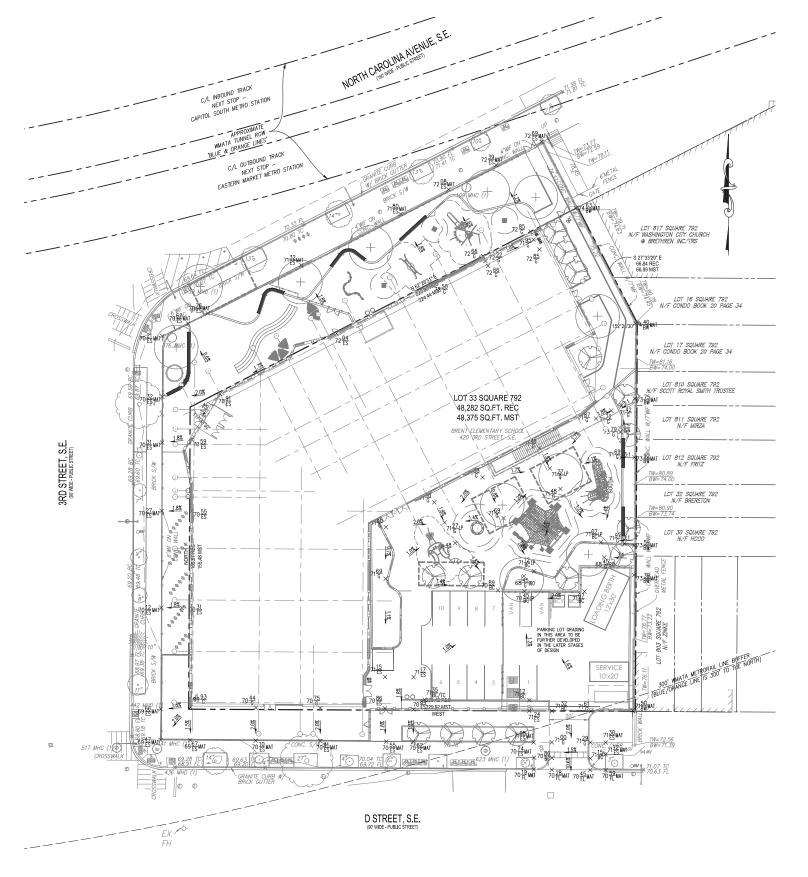
CONCEPT DESIGN | SITE PLAN







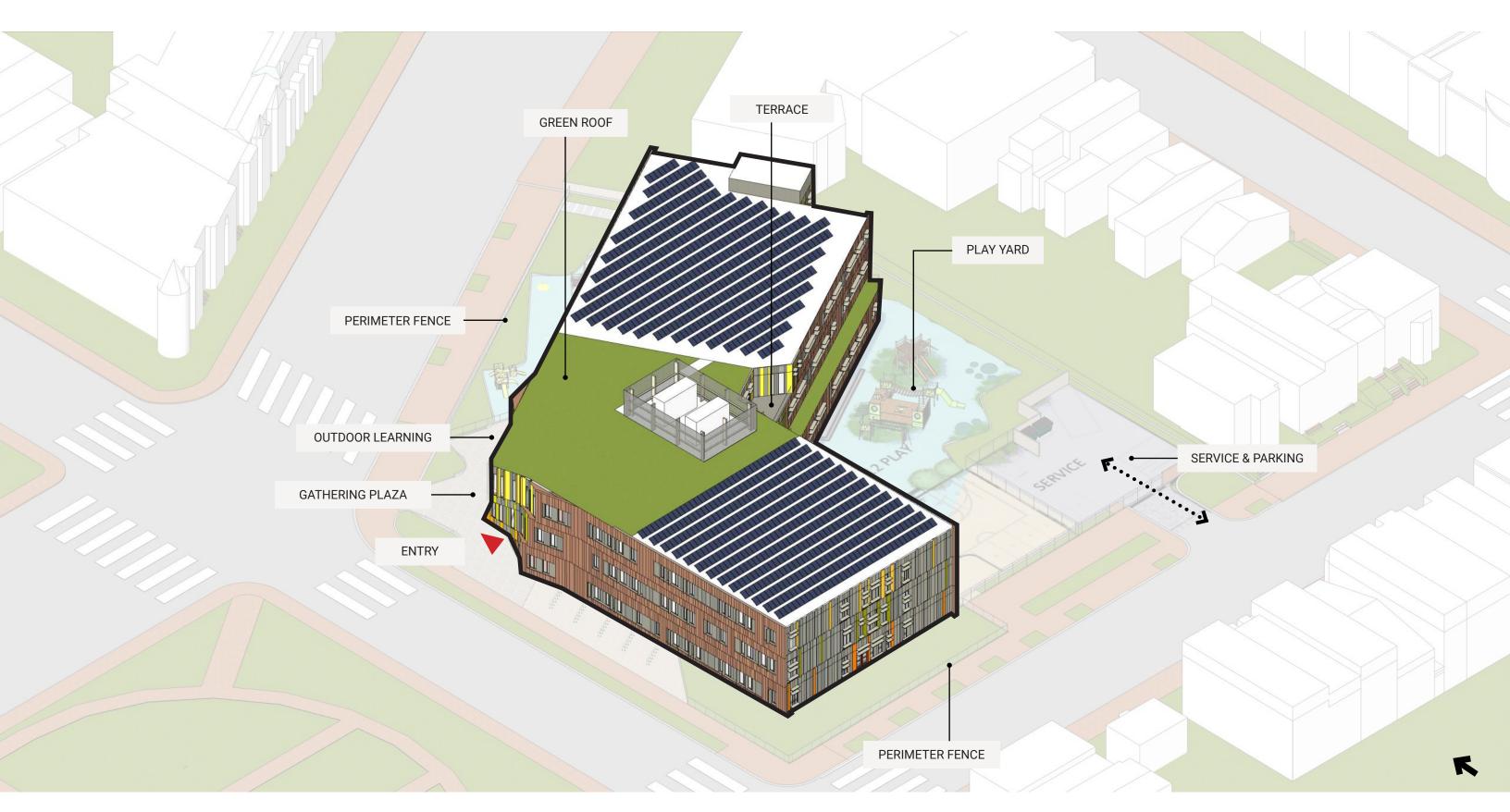
CONCEPT DESIGN | GRADING PLAN







CONCEPT DESIGN | MASSING



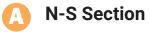






CONCEPT DESIGN | SITE & SECTION









CONCEPT DESIGN | MATERIALS





Large format ultra-high perfoming concrete raincreen panels in terracotta colors with add a vertical texture the the building, and be a mix of tone on tone colors and several textures.



Aluminum Composite Material panels will differentiate the corner material and be expressed in long vertical lines.

NEUTRAL PANEL COLOR OPTION





Intermittent use of colored Aluminum Composite Material Panels will enliven and celebrate the corner as both an entry focal point and an expression of the special programs inside.



CONCEPT DESIGN | FACADE CONCEPT









BRENT ELEMENTARY SCHOOL

























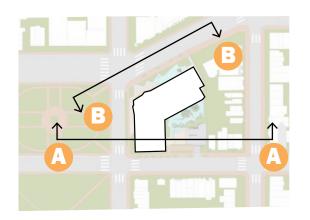








CONCEPT DESIGN | SECTION & ELEVATION







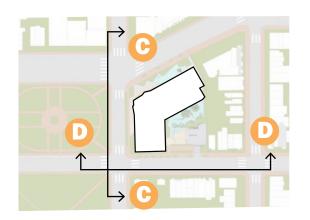
Folger Park 3rd St SE







CONCEPT DESIGN | ELEVATIONS





3rd St SE Elevation

D St SE



D St SE Elevation



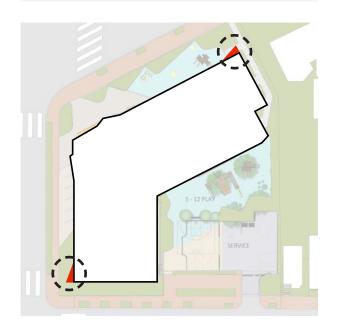




CONCEPT DESIGN | FACADE BOOKEND OPTION



BOOKENDS ANGLED WALLS ON NORTHEAST CORNER OF NORTH FACADE + SOUTHWEST CORNER OF WEST FACADE



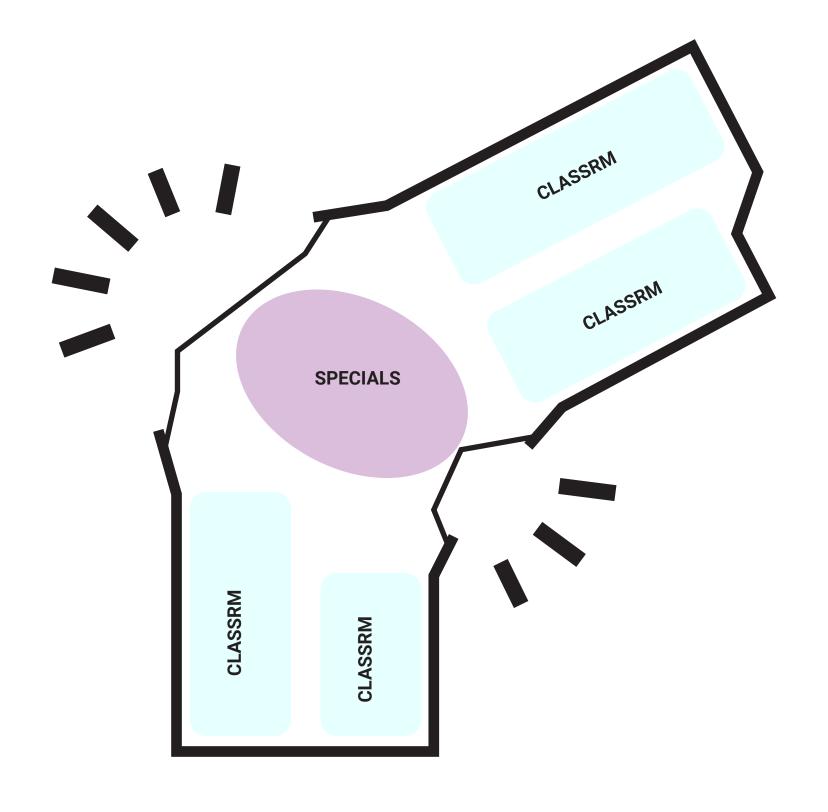








CONCEPT DESIGN | PLAN PARTI













CONCEPT DESIGN | PLAN - LVL O

















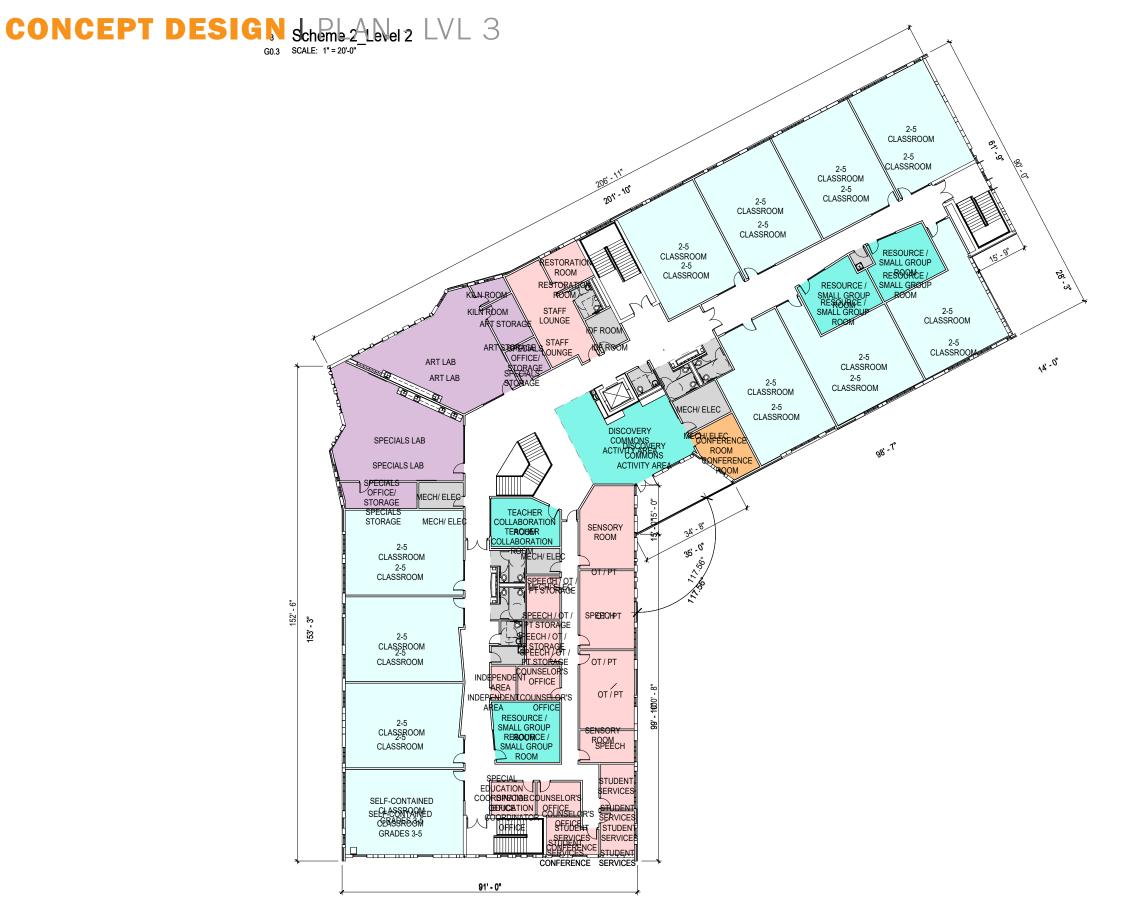
CONCEPT DESIGN | PLAN - LVL 2

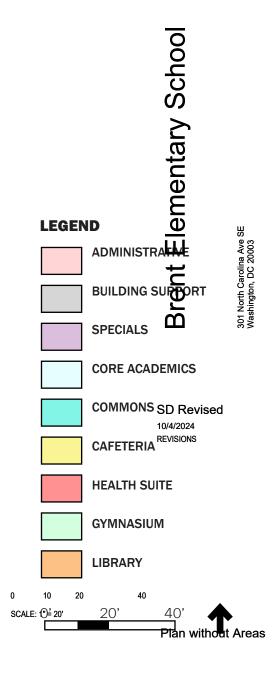
















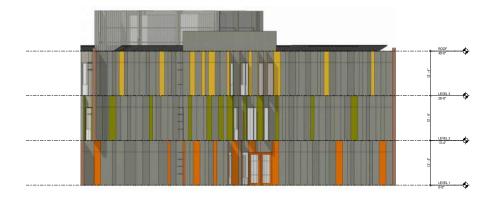
CONCEPT DESIGN | ELEVATIONS



Sketchup Elevation - N Carolina Ave SE



Sketchup Elevation - 3rd St SE



Sketchup Elevation - D St SE



Sketchup Elevation -Courtyard East



Sketchup Elevation -Courtyard South



Sketchup Elevation -East

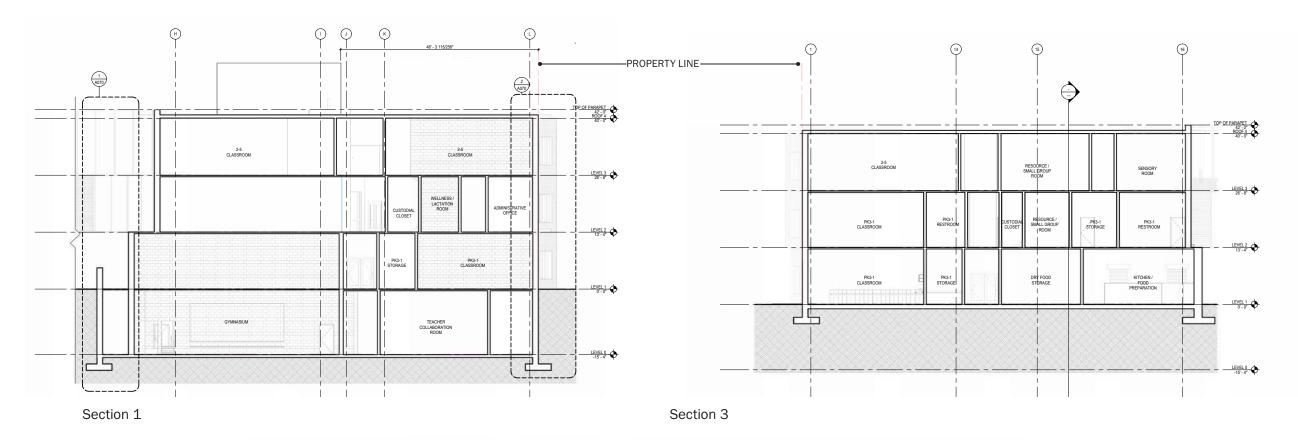
NOT TO SCALE

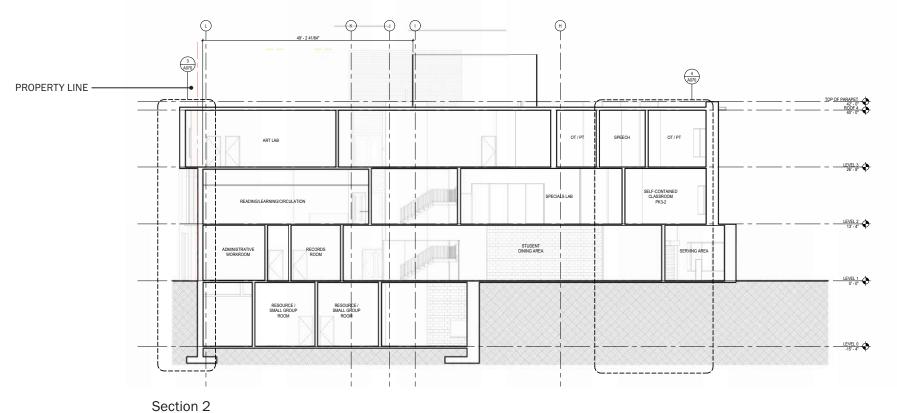


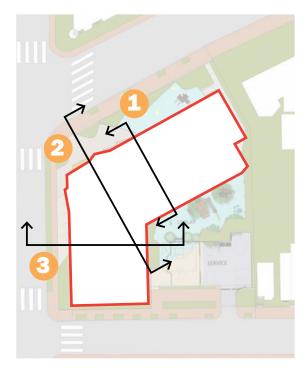




CONCEPT DESIGN | SECTIONS







NOT TO SCALE



