

THE FUTURE OF OUR FUTURE

DESIGNING EARLY EDUCATION FOR ALL

Anne R. Manstrom





INTRODUCTION



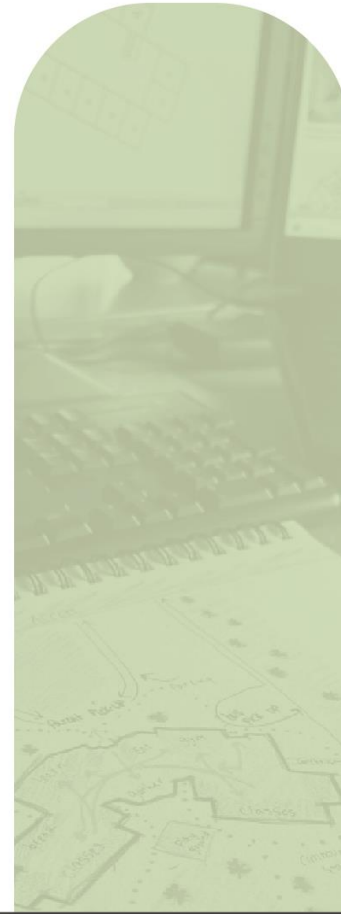
HISTORY



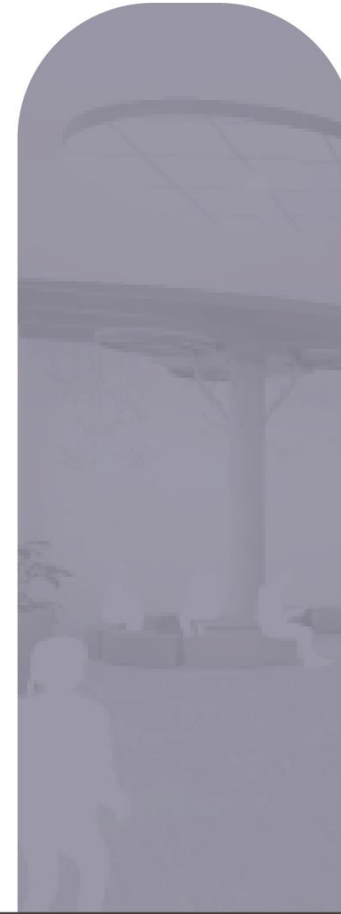
LOCATION



PROCESS



PROGRAM



DESIGN



INTRODUCTION



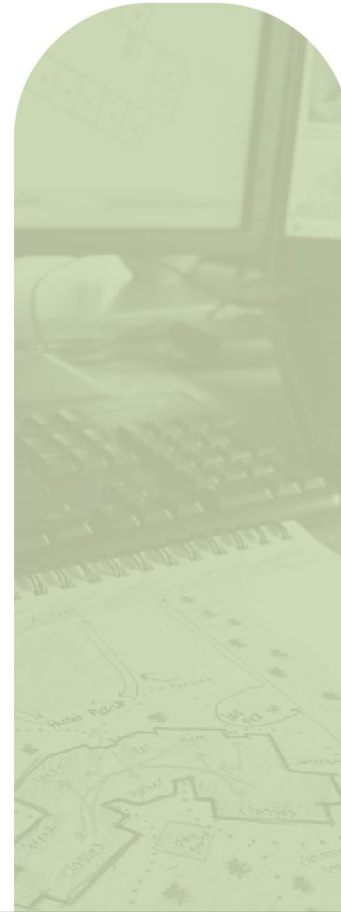
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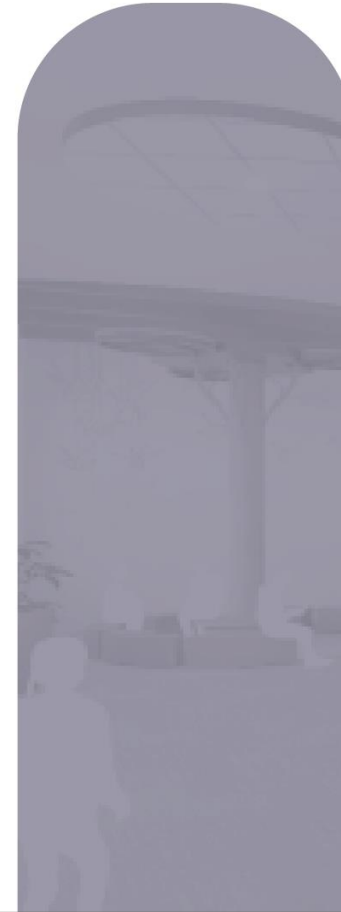
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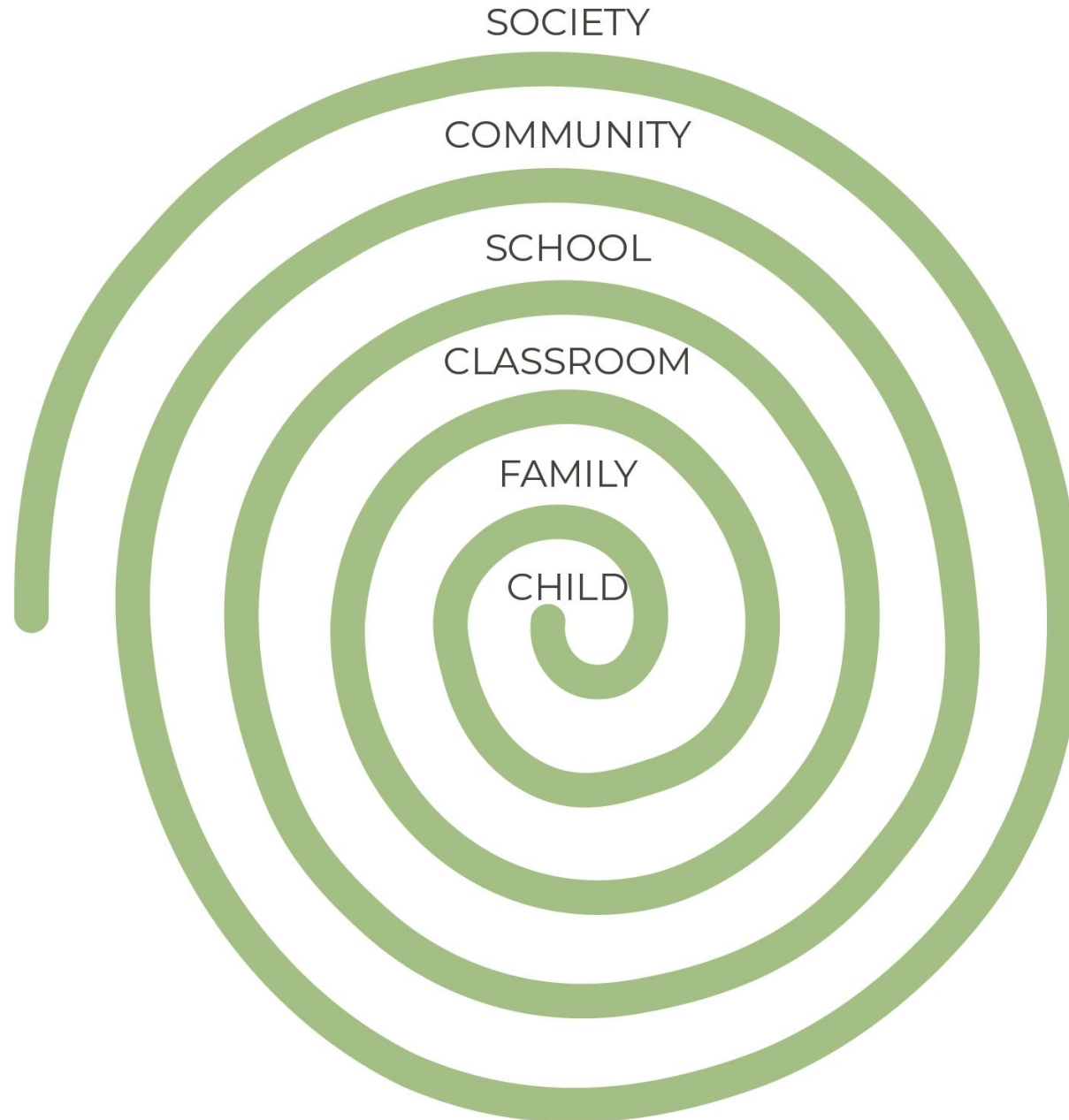
INTRODUCTION TO ELEMENTARY SCHOOLS



HOW TO CHANGE THE FUTURE OF EDUCATION



STUDENT FOCUS BENEFIT



DRIVEN TO SOLUTION





INTRODUCTION



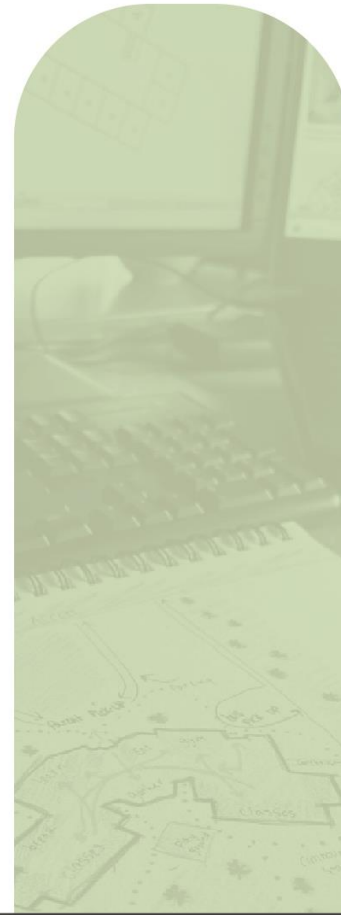
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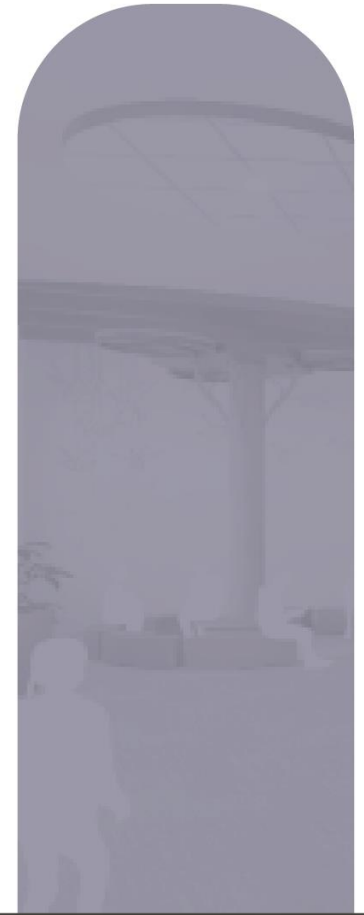
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HISTORY OF ELEMENTARY SCHOOLS



Parochial, Church-Supported School (right) Neighboring the Public School (left) in Hannover, North Dakota (from Henke & Albers, 1997, p. 280)

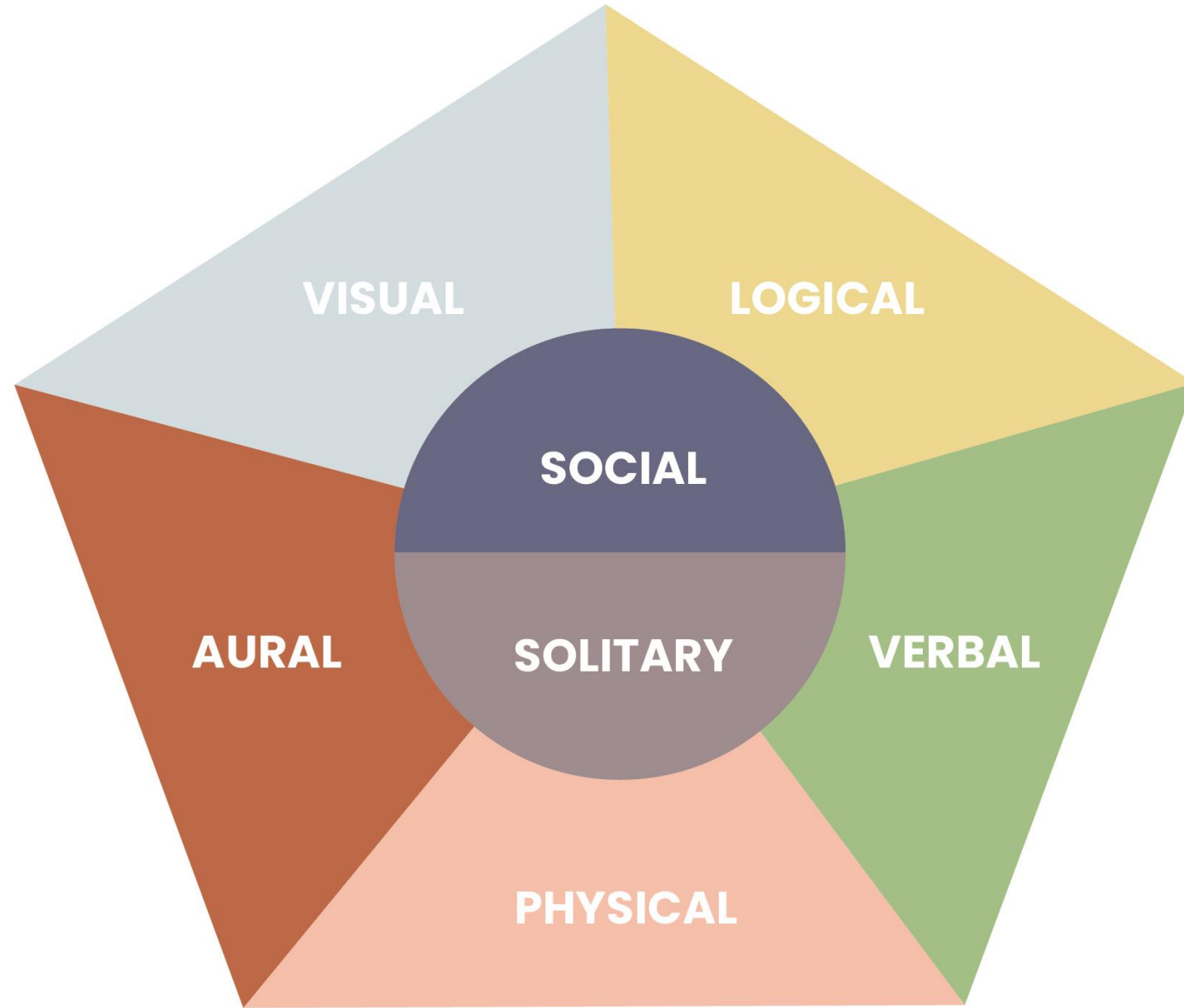
ELEMENTARY SCHOOLS TODAY



Modern Elementary Interior (from Mancure Elementary School)

HISTORY OF UNIVERSAL DESIGN







INTRODUCTION



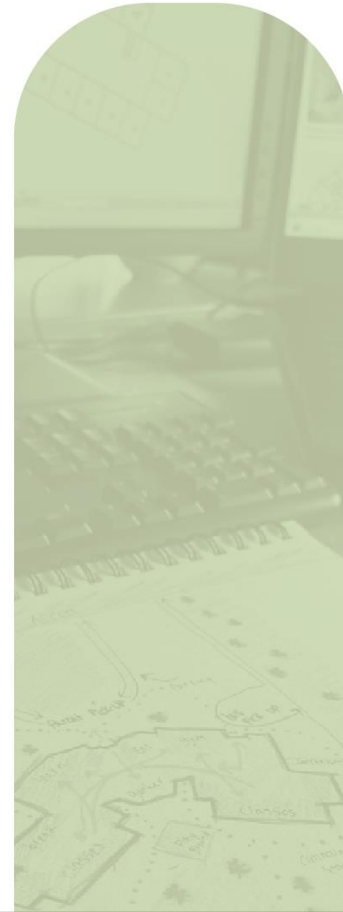
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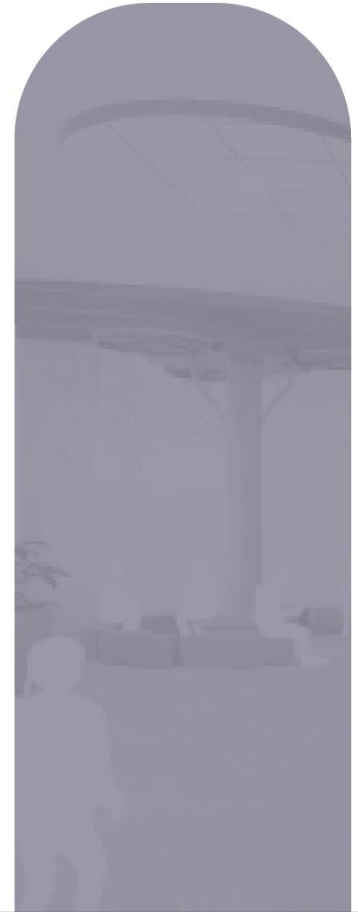
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DESIGN

FARGO, NORTH DAKOTA



Downtown Fargo (from Encyclopædia Britannica)

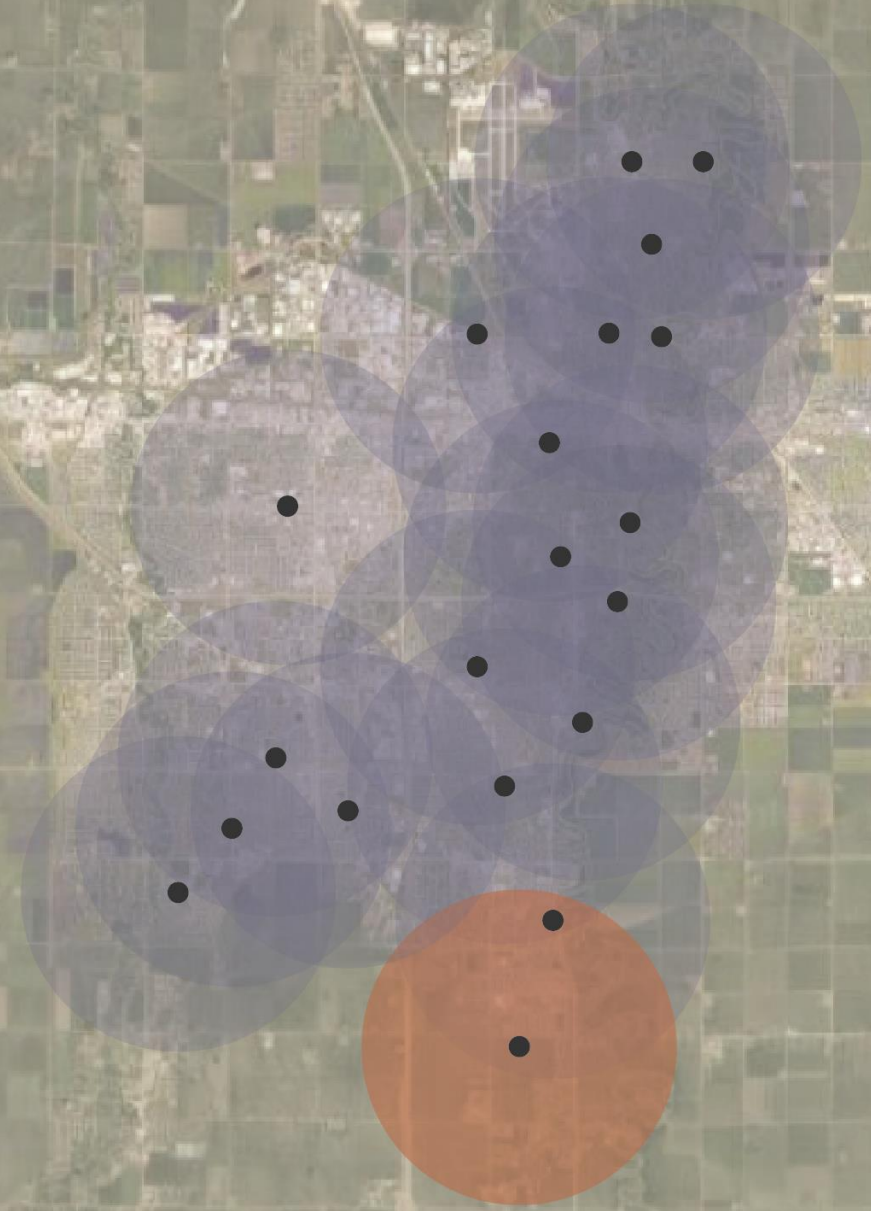


< 2017 2018 2019 2020 2021 2022 1984 1985 1986 1987 1988 1989 1990 1991 >

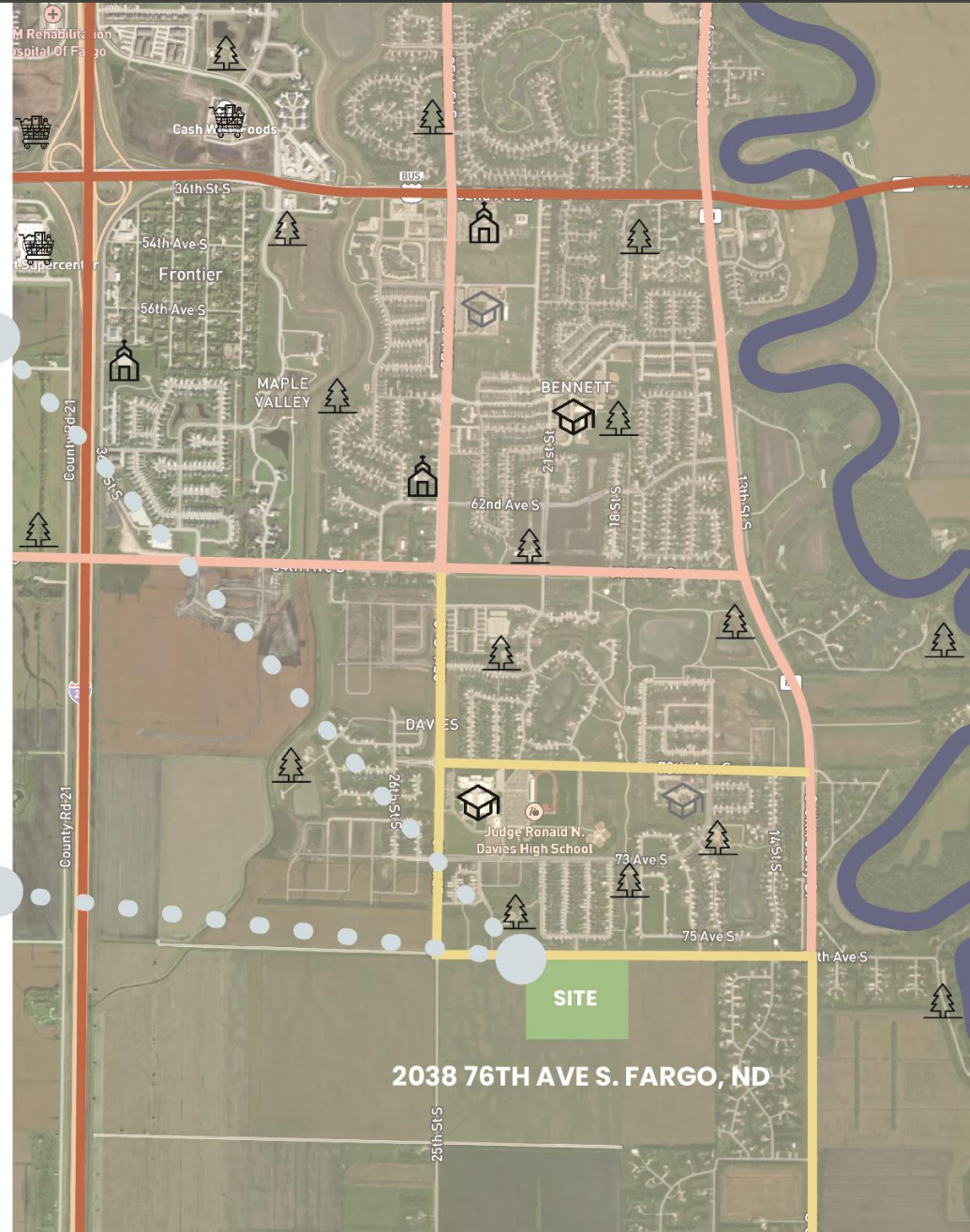
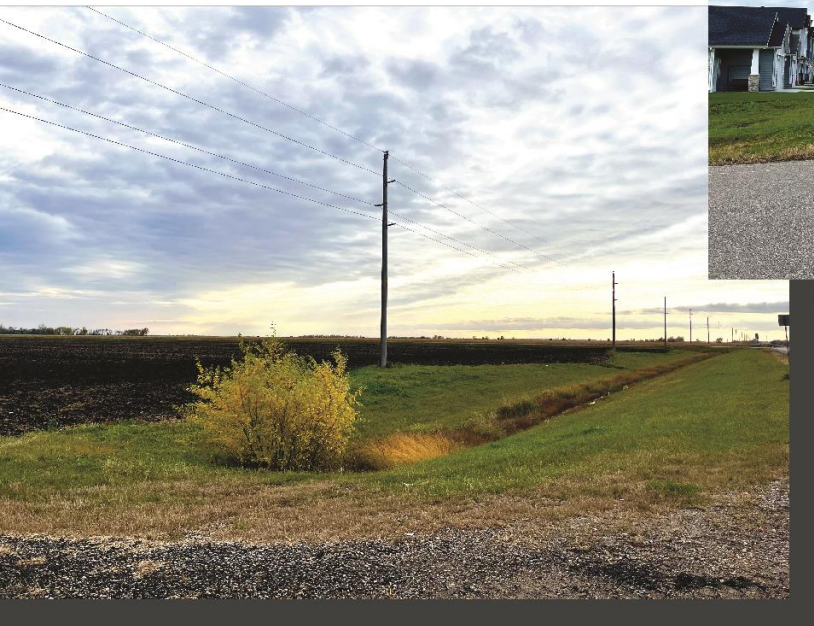
LOCATION NEED



- Walkable distance
- Expansive southern growth
- Outgrowing Bennett Elementary
- Feeder to Discovery Middle and Davie's High



SITE





INTRODUCTION



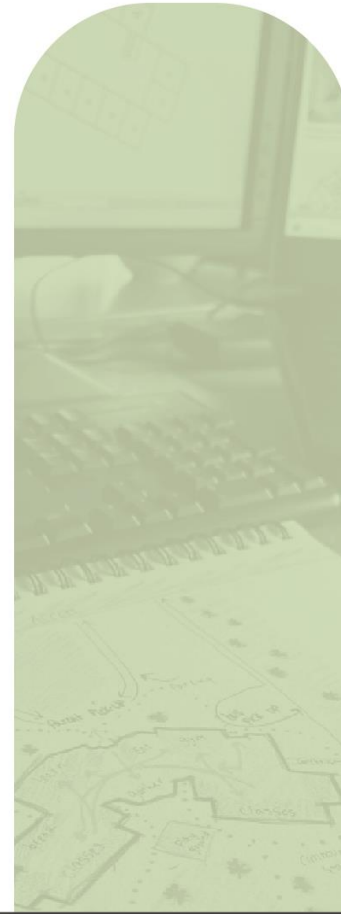
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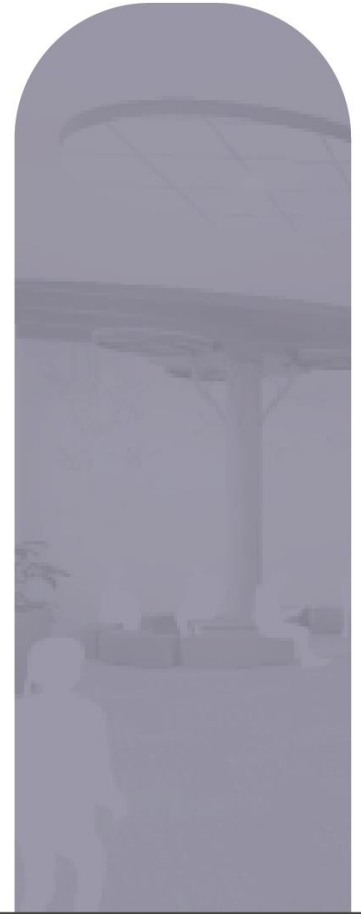
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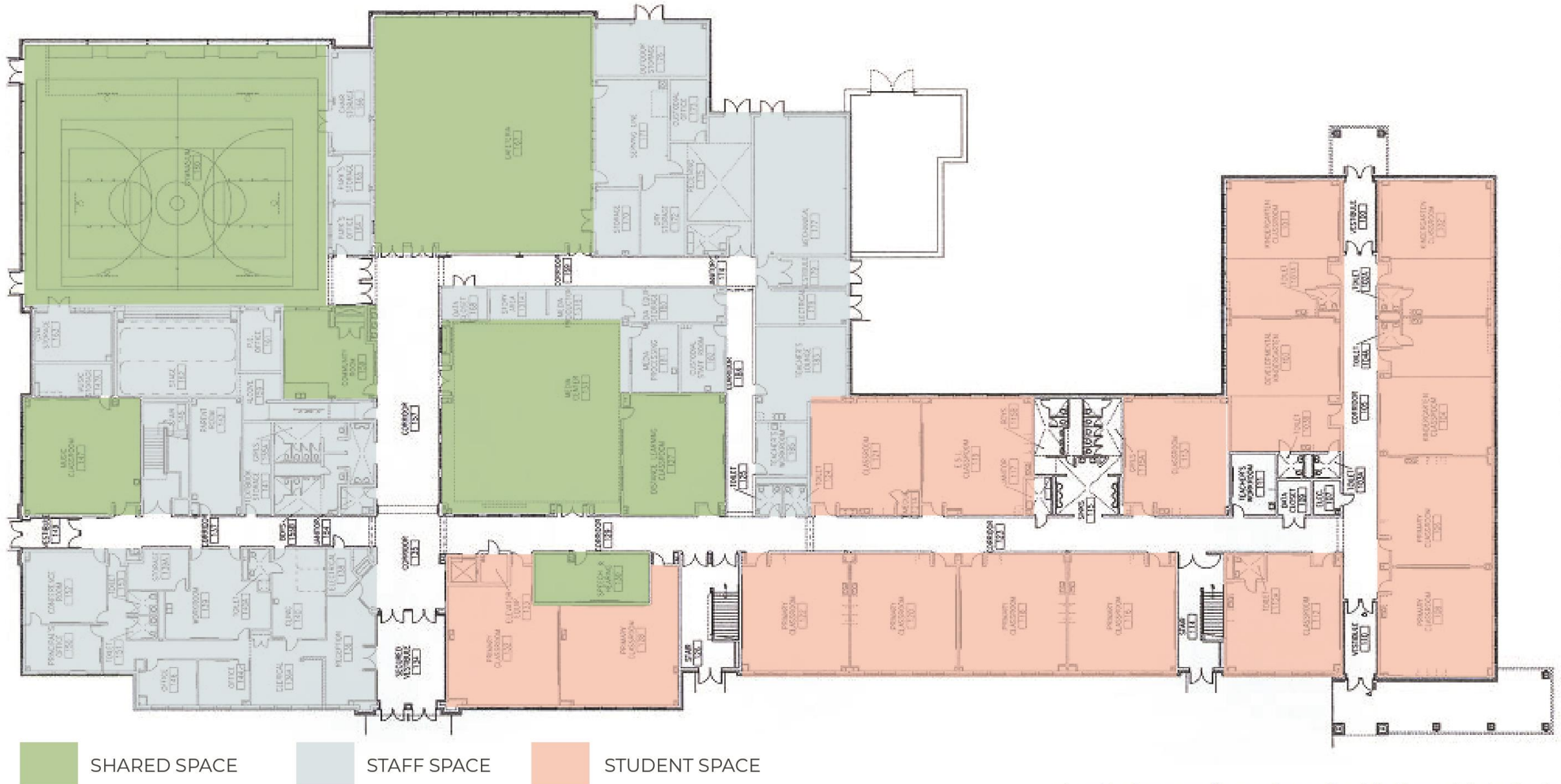


PROGRAM

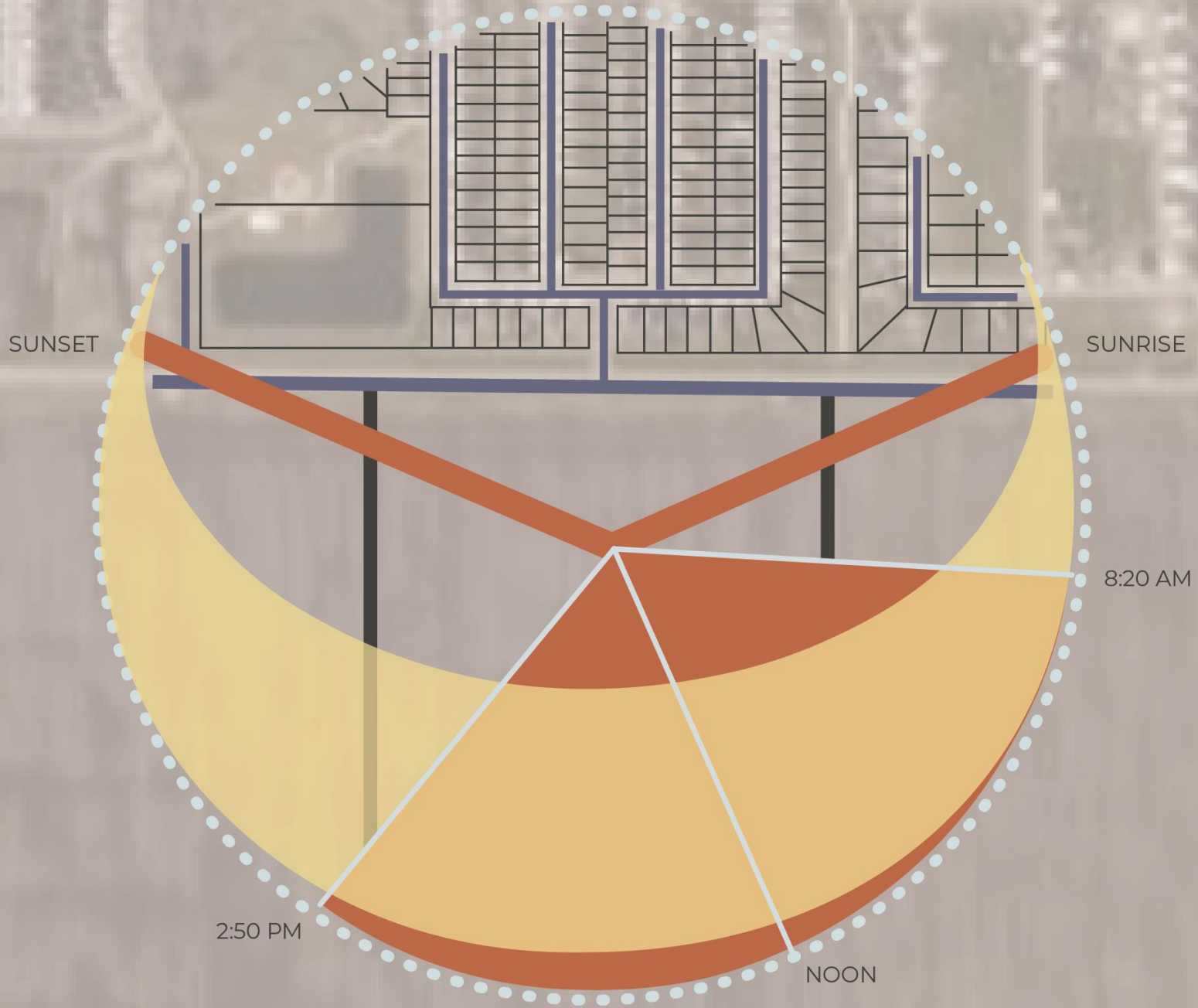


DESIGN

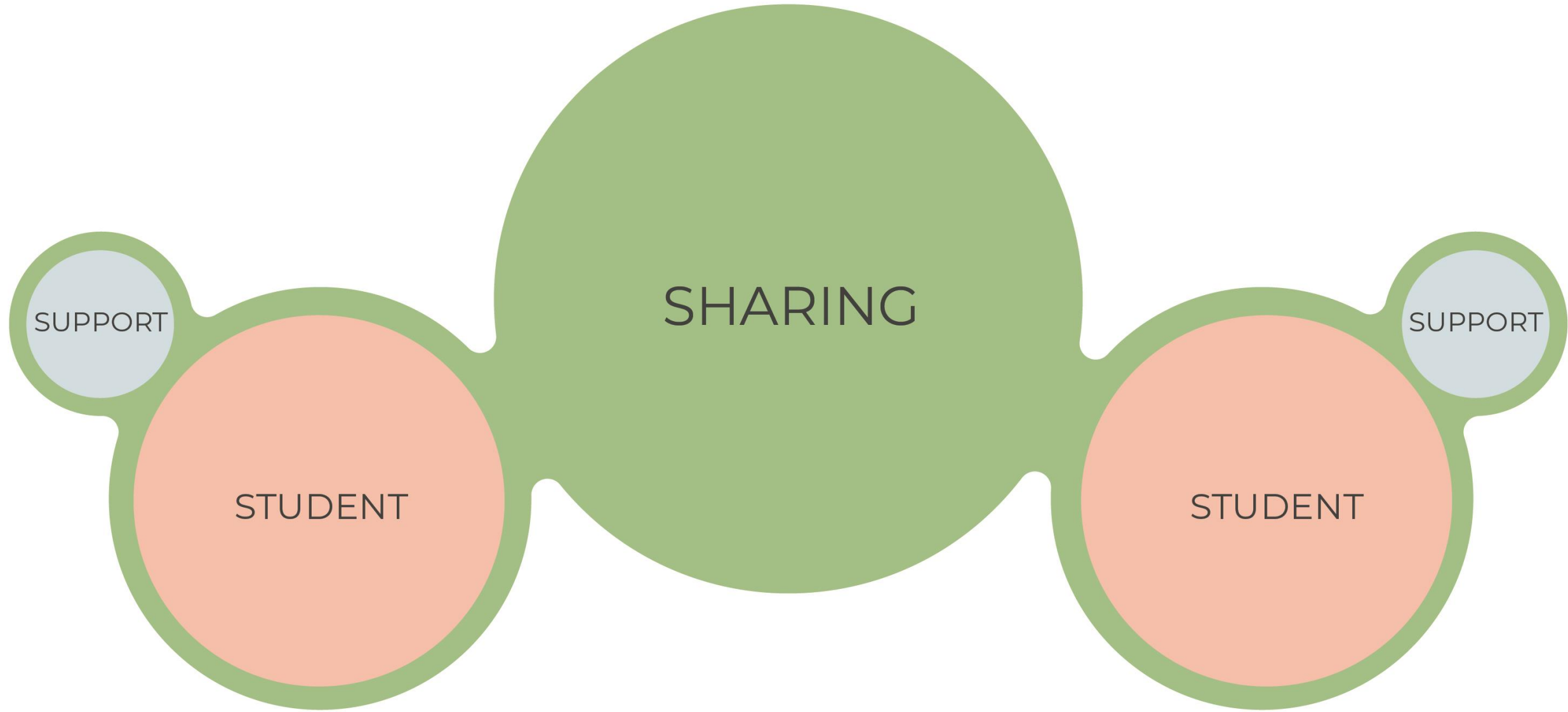
TYPICAL SPACE UTILIZATION



IMPORTANCE OF SUN UTILIZATION



BEGINNING PROCESS DIAGRAMS





INTRODUCTION



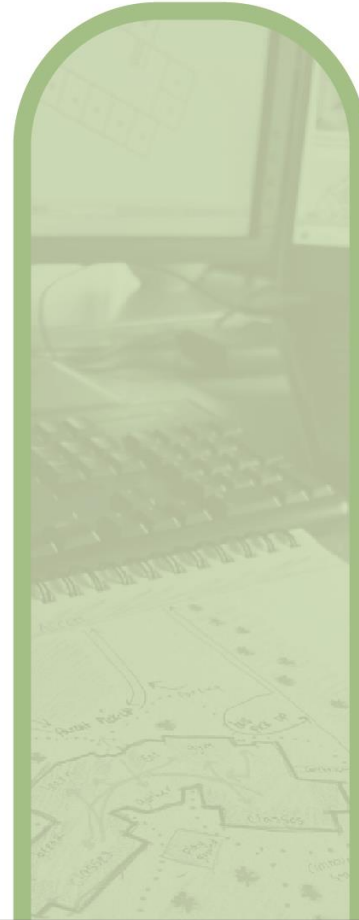
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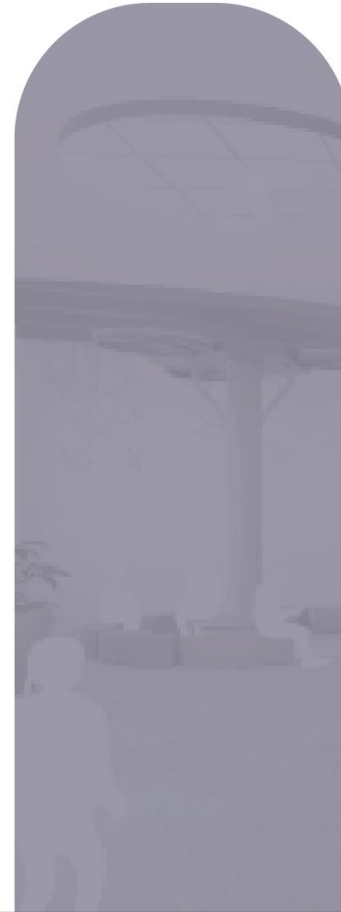
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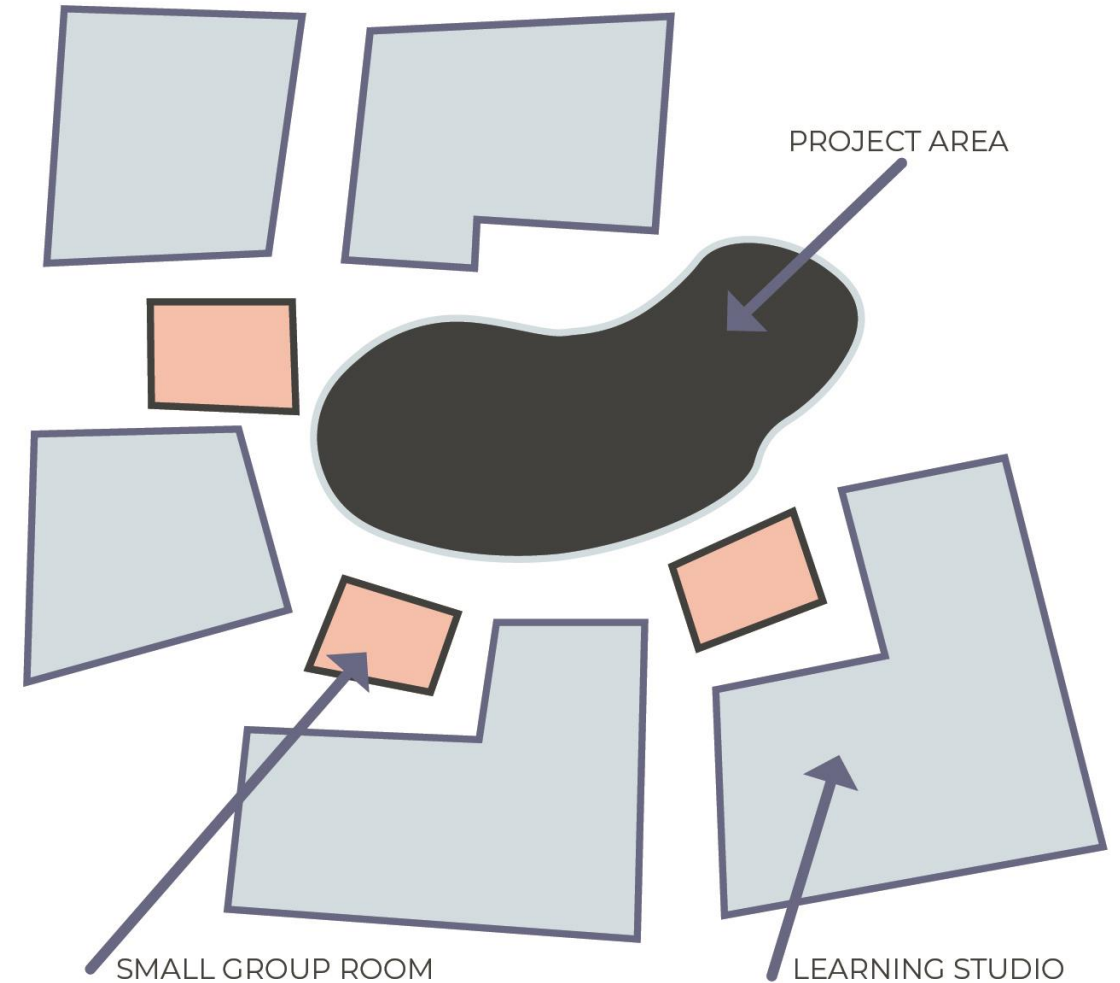
PROGRAM



DESIGN

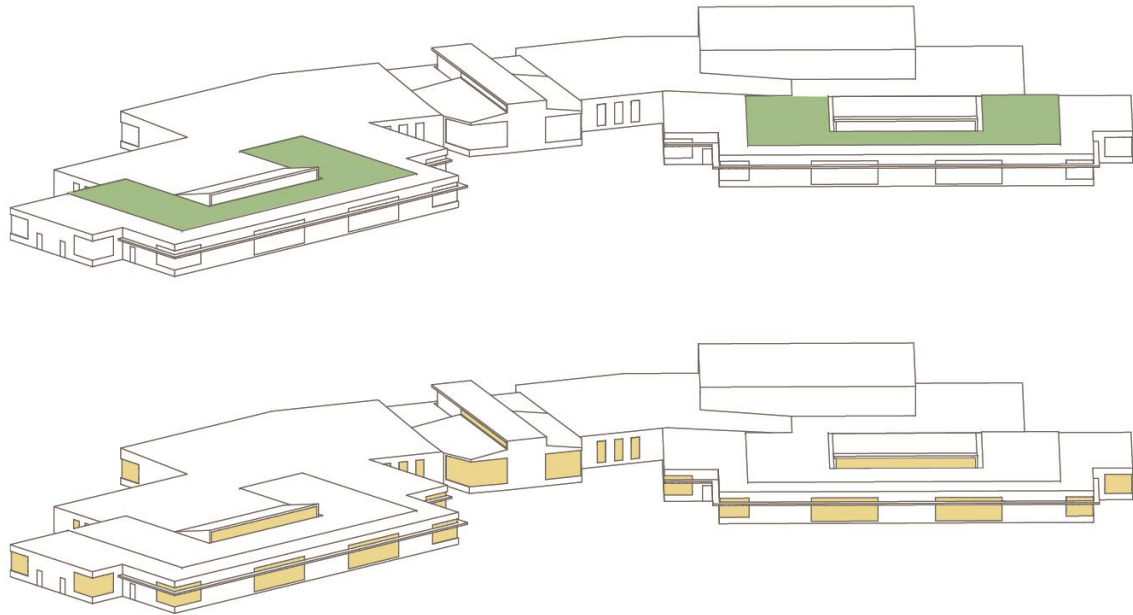
UNIVERSAL DESIGN IMPLEMENTATION

- Single level
- Shared learning spaces
- Shared spaces with other classes
- Clustering amenities
- Close access to restrooms
- Flexible spaces
- Flexible furniture
- Integrating comfort
- Opportunity for personalization
- Wide hallways and doorways



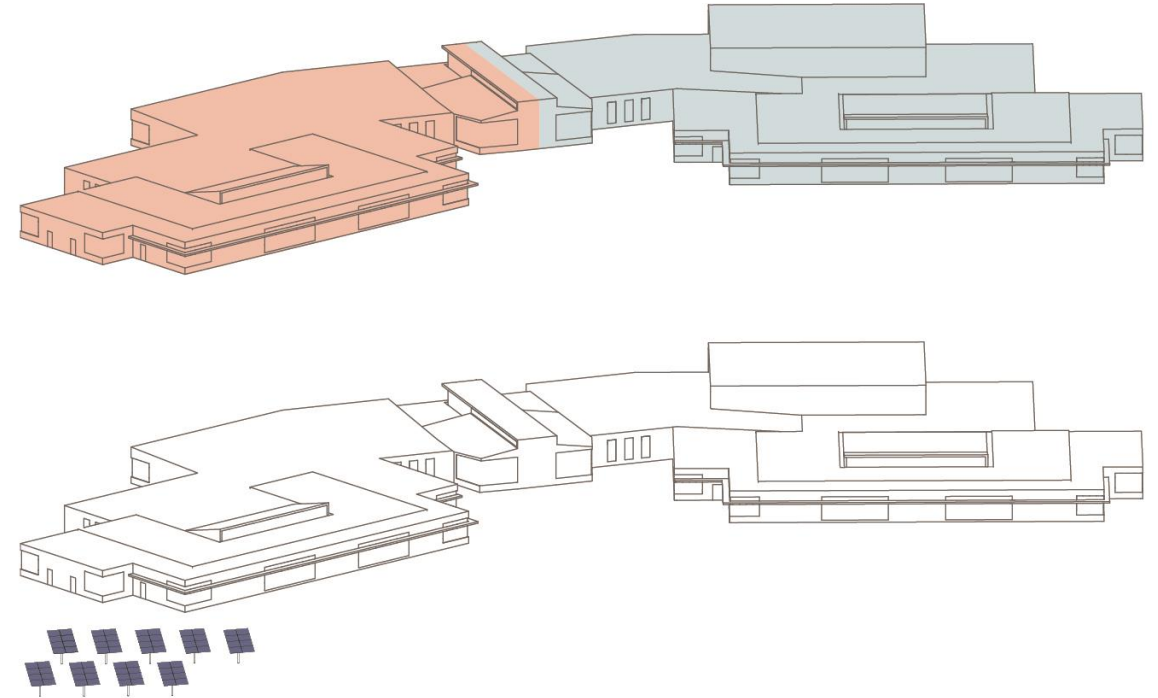
SUSTAINABILITY IMPLEMENTATION

GREEN ROOF



SUNLIGHT EXPOSURE

GEOTHERMAL HEATING & COOLING



SOLAR CAPTURE



INTRODUCTION



HISTORY



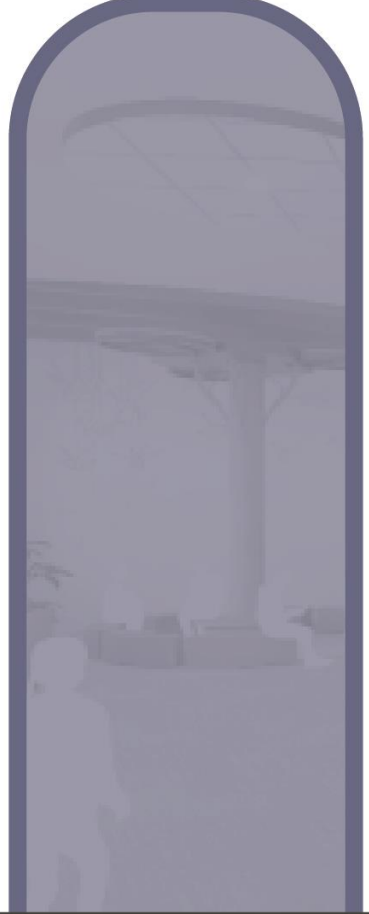
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DESIGN

OVERALL PERSPECTIVE



FLORENCE KLINGENSMITH ELEMENTARY



- KINDERGARTEN 0
- 1ST 1
- 2ND 2
- 3RD 3
- 4TH 4
- 5TH 5
- LEARNING CENTER 6
- SHARED LEARNING 7
- TEACHER'S LOUNGE 8
- MUSIC 9
- ART 10
- LIBRARY 11
- COMMONS 12
- OFFICES 13
- CAFETERIA 14
- KITCHEN 15
- GYMNASIUM 16
- MECHANICAL 17
- LOCKER ROOMS 18
- PARKING 19
- PICK-UP/DROP-OFF 20
- DETENTION POND 21
- PLAYGROUNDS 22
- COMMUNITY GARDEN 23

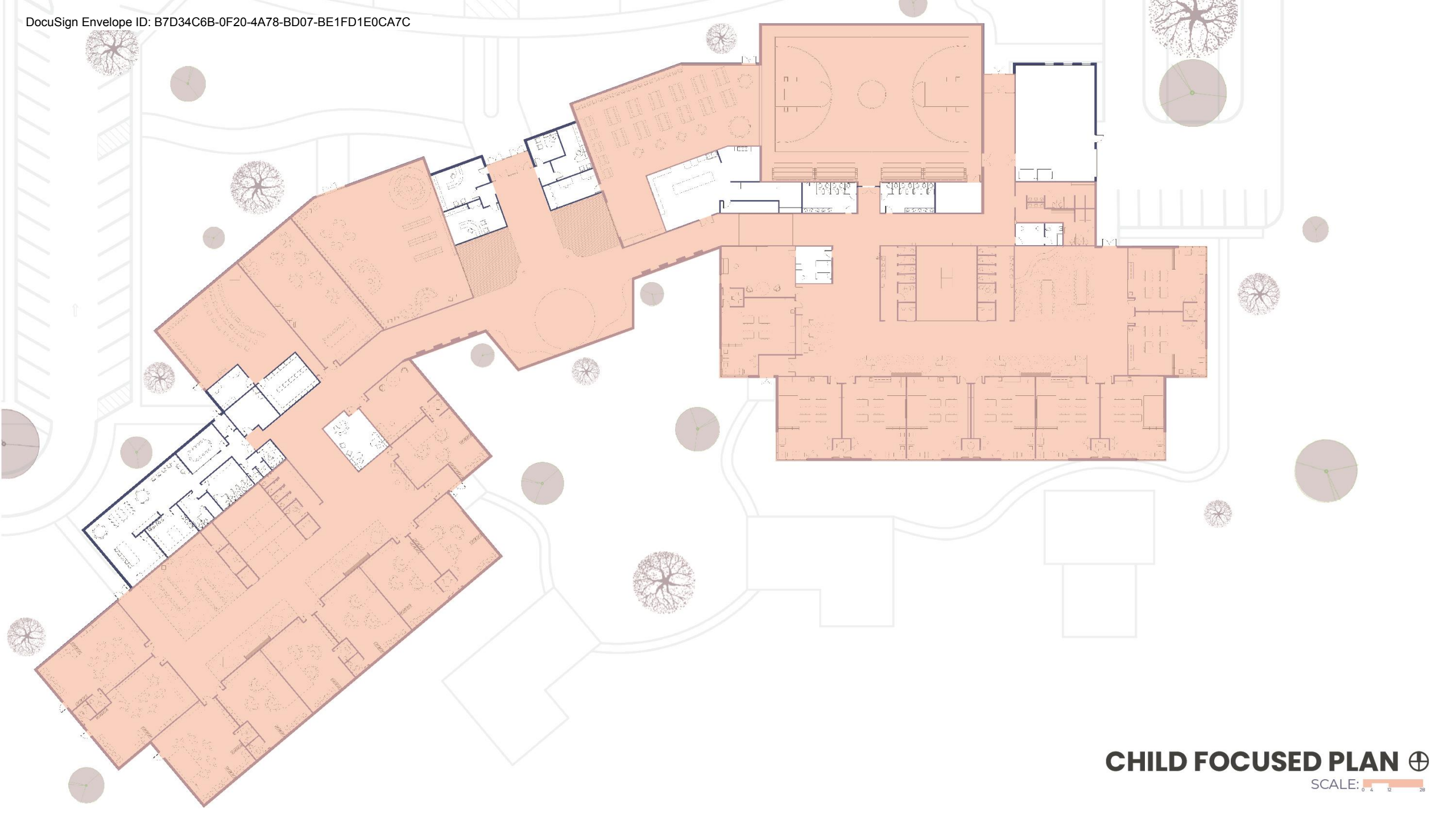
SITE AND FLOOR PLAN

SCALE: 0 6 12 24



FURNITURE PLAN ⊕

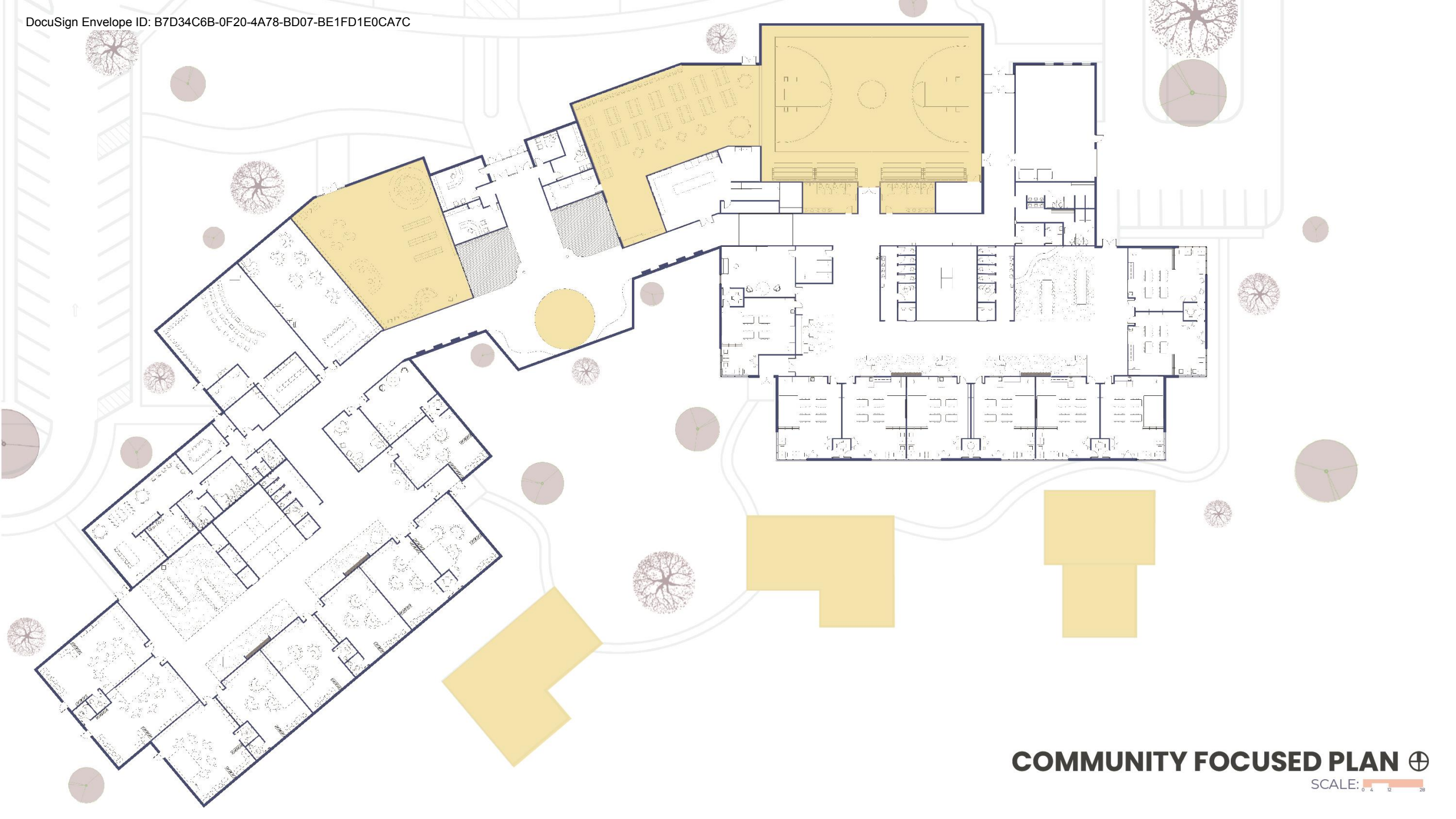
SCALE: 0 4 12 28





STAFF FOCUSED PLAN ⊕

SCALE: 0 4 12 28



COMMUNITY FOCUSED PLAN ⊕

SCALE: 0 4 12 28

ENTRY PERSPECTIVE





CAFETERIA PERSPECTIVE



HAPPY MONDAY
FALCONS!

Date: 4/29/24

Meal: HAMBURGERS

Sides: FRIES, APPLES, BANANAS, CARROTS

Drinks: WATER, MILK, CHOCOLATE MILK

LIBRARY PERSPECTIVE



GYMNASIUM PERSPECTIVE



OUTDOOR COMMUNITY SPACE PERSPECTIVE



PLAYGROUND PERSPECTIVE



CLASSROOM PERSPECTIVE



SHARED LEARNING PERSPECTIVE



SHARED LEARNING VINGETTES



AUDITORY



LOGICAL



SOLITARY



PHYSICAL



COLLABORATIVE



VERBAL



VISUAL

THANK YOU

THE FUTURE OF OUR FUTURE

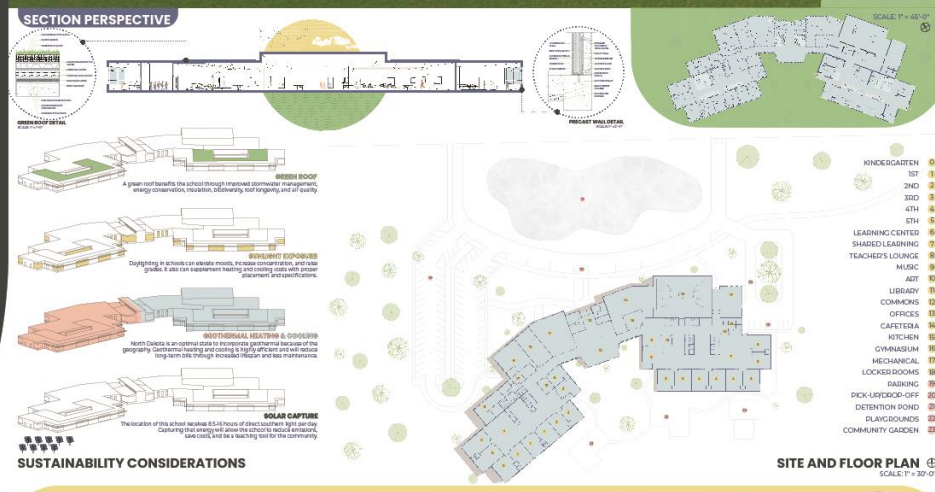
OPEN TO QUESTIONS



THE FUTURE OF OUR FUTURE DESIGNING EARLY EDUCATION FOR ALL

Florence "Theotopos" Klingsmith is an icon of aviation with deep roots in North Dakota. She was the first woman to become a pilot and eventually became North Dakota's first licensed woman pilot. Florence serves as an example for the students to overcome obstacles and pursue their dreams. The example of her and the Falcon mascot reminds students to do the same by soaring above.

Starting from a young age, children strive to be wanted, accepted, and included. Elementary schools and their experiences can greatly influence the rest of a child's life, even into adulthood. In the field of education, the physical building can help shape the users by understanding individual learning types and implementing those into initial planning. Identifying the problems within the current education system and modeling creative solutions is the intended objective of universal design within elementary education. All students, no matter their physical or emotional abilities, fall somewhere within the range of learning styles. Discovering how to incorporate the styles into initial architectural planning is crucial to successful universal design. Including all students by various means will be the overall intention of the elementary school. Establishing an educational framework that is supported by architecture will help students of all abilities learn and develop into successful and active members of society. Schools are places to bring together the people of a region. If the focus of an educational building starts with child-centered, communities, and societies can be influenced. Hence, if this school building can serve as a place for everyone to be seen, the community will benefit from happier and healthier users.



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