



DESIGN PLAYBOOK



AGENDA

- pg. 04 | Guiding Principles
- pg. 06 | Site Concept
- pg. 08 | Site Plan Refinement
- pg. 12 | Playground Concept
- pg. 19 | Floor Plan
- pg. 21 | Exterior Renderings
- pg. 26 | Interior Renderings
- pg. 33 | Appendix

LEARN

A core GMB value is providing opportunities for our employees to grow in their knowledge of the profession. As we have experienced a move to a multi-generational demographic of our workforce, we have focused extensively on the transferring of knowledge between the generations, investing in the education and development of our staff, and building our pipeline of future professionals.

GROW

GMB has been able to build on the success of our knowledge and robust history, further growing our design capabilities and our impact. We have expanded our disciplines in order to more holistically serve our clients through an integrated approach to design concept development. We have also grown the reach of our influence through a growing number of clients and our expanded regional office presence.

GIVE

The purpose of good architecture is to create community. From within the walls of our offices to across the globe, we seek to use our knowledge and influence to make better communities. Corporately and individually, GMB and our employees have leveraged financial and design resources to come alongside local and global organizations who are working for positive community change.

DESIGN PROCESS

WE ARE HERE



MEET



Marketing



LEARN



Programming



EXPLORE



Schematic
Design
(SD)



FOCUS



Design
Development
(DD)



IMPLEMENT



Construction
Documents
(CD)



SUPPORT



Construction
Administration
(CA)



CARE



Follow Thru /
Construction



GUIDING PRINCIPLES

GUIDING PRINCIPLES

PROJECT SUCCESS IDEOLOGY

Guiding Principles are statements that transform insights about the organization into actionable design directions. They are the first test to validate decisions made by the design team during the project development.

The design(s) at Thornapple Kellogg will allow:



1 COMMUNITY GROWTH AND INCREASED ENROLLMENT

Creating sense of community pride
Flexibility for future expansion and adaptability



2 CREATION OF ENHANCED LEARNING ENVIRONMENTS

Collaboration among student, faculty and staff
Flexibility for student [POD vs GROUP vs INDIVIDUAL]

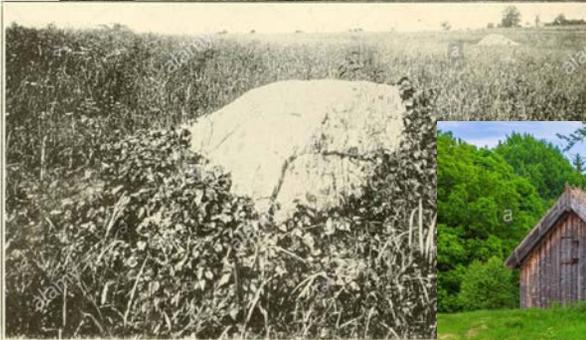
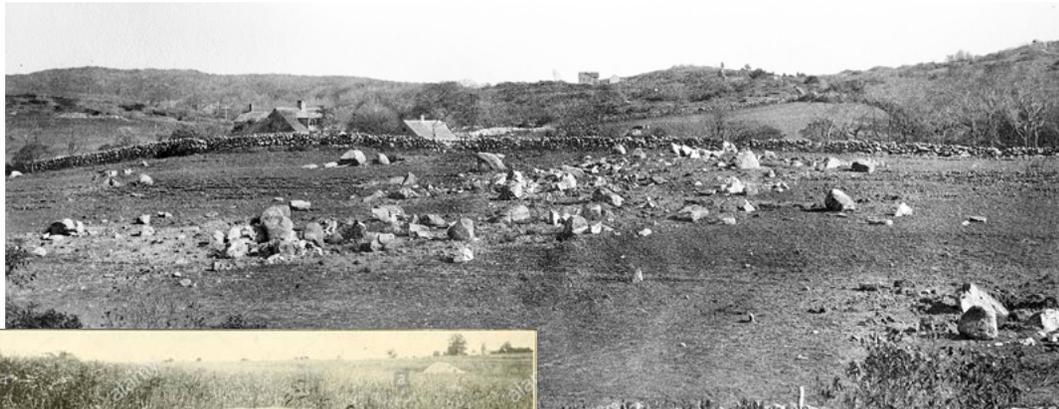


3 IMPROVEMENT OF BASIC INFRASTRUCTURE

Efficient and adaptable infrastructure
Site access and security improvements



BOULDERS, FIELDS, AND FARMS

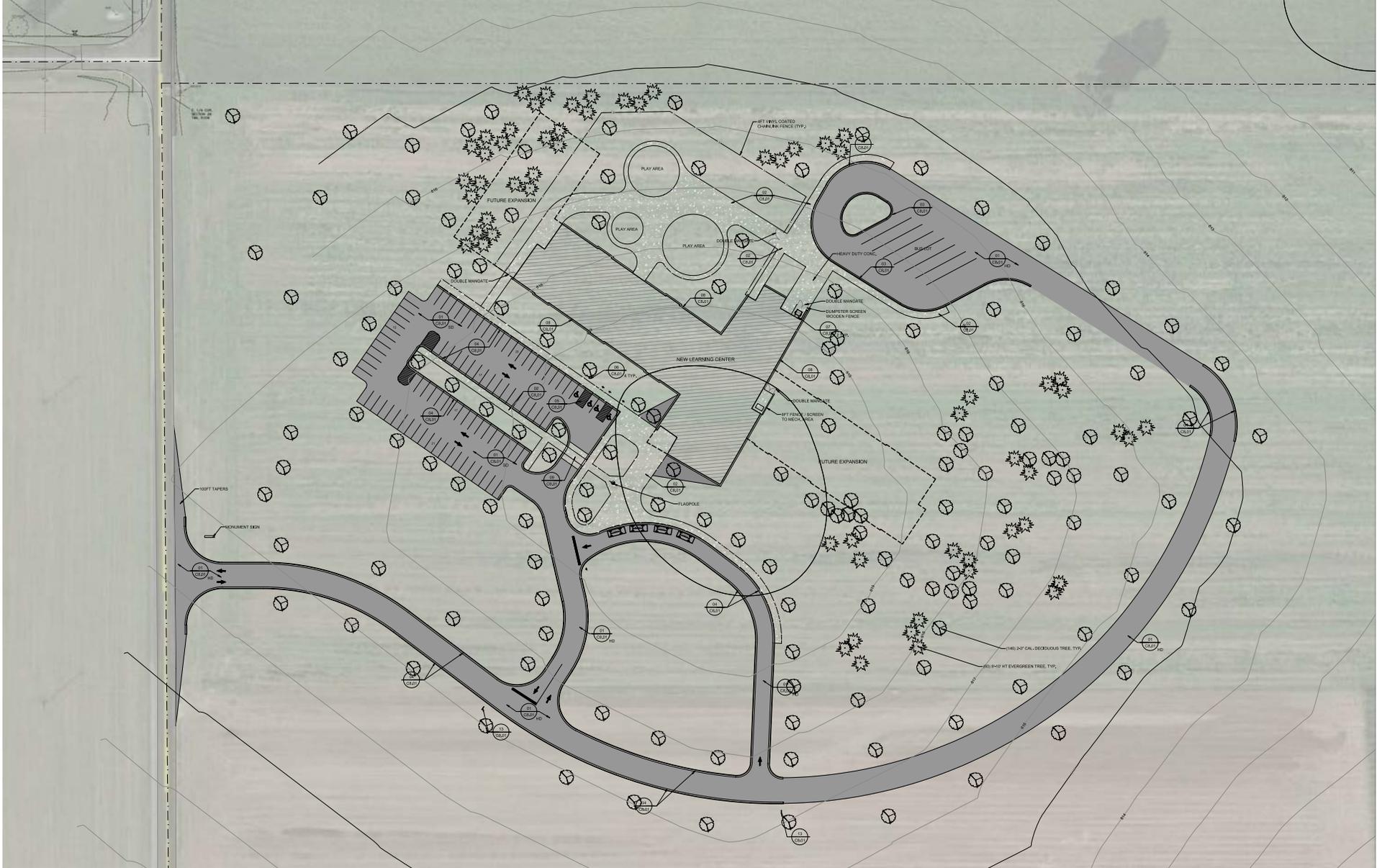




**SITE PLAN CONCEPT
REFINEMENT**

SITE PLAN

10.01.2020

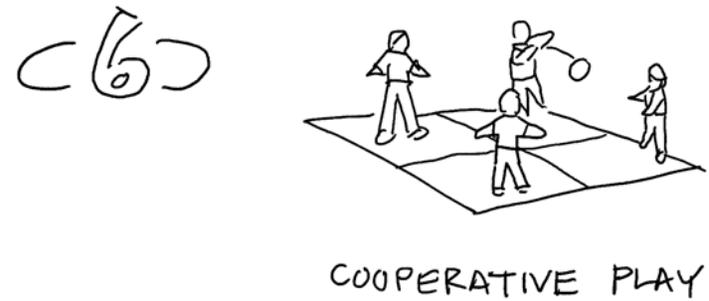
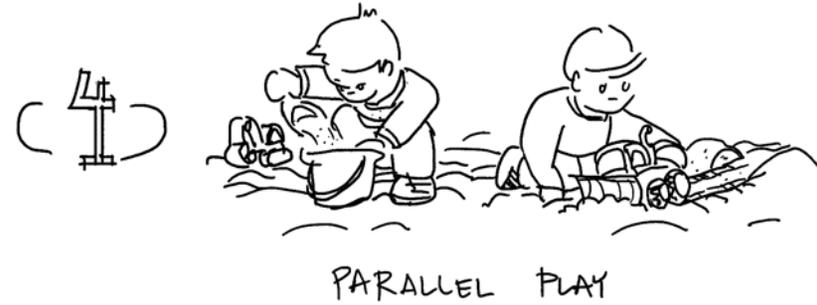
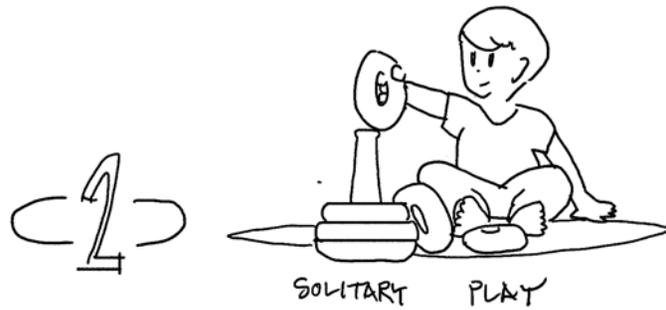
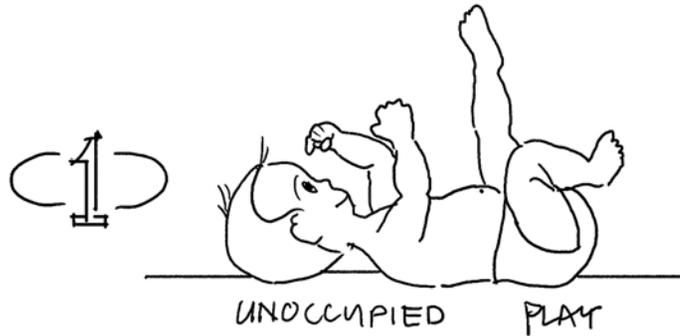






PLAY as a LEARNING MEDIUM

STAGES OF DEVELOPMENT IN SOCIAL PLAY



TYPES OF PLAY ENGAGEMENTS

COMPETITIVE

IMAGINATIVE

PHYSICAL

CONSTRUCTIVE

EXPRESSIVE

SOCIAL

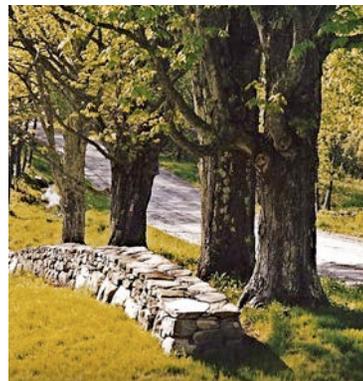
~~DIGITAL~~

DEVELOPMENTALLY APPROPRIATE PLAY ELEMENTS

AGE	DEVELOPMENTAL MILESTONES	RECOMMENDED EQUIPMENT
YOUNG PRESCHOOL (2.9-4 YEARS)	<ul style="list-style-type: none"> ■ Highest activity level of any age in the human life span ■ Increasingly more adventuresome ■ Run back and forth ■ Throw and catch balls ■ Pedal a tricycle ■ Somersault ■ Climb stairs ■ Push and pull larger toys like a wagon ■ Enjoy showing off climbing prowess ■ Hop and jump increasingly well 	<ul style="list-style-type: none"> ■ Structures for climbing and sliding ■ Riding toys and paths to ride on ■ Balance beams ■ Playhouses ■ Water and sand play equipment ■ Loose parts for pretending, creating, building ■ Talk tubes ■ Telescopes ■ Places to run, jump, play ball ■ Materials to enhance all senses (wind chimes for sound, flowers for smell) ■ Shade to sit, eat, read, relax ■ Places to paint, draw and create
OLDER PRESCHOOL (4-5 YEARS)	<ul style="list-style-type: none"> ■ Physically competent ■ Climb well, enjoy trying to go higher and higher ■ Enjoy challenges ■ Roll balls ■ Skip on alternating feet ■ Able to begin riding two-wheel bike 	<ul style="list-style-type: none"> ■ Climbing and sliding structures that provide challenge for increasing skills ■ Bikes and paths to ride on and explore ■ Water and sand play equipment ■ Art studios ■ Structures for imaginative play ■ Loose parts to enhance play ■ Natural features to experience seasons ■ Places to run, play ball, play games

Source: Community Investment Collaborative for Kids Resource Guide 4: Creating Playgrounds for Early Childhood Facilities





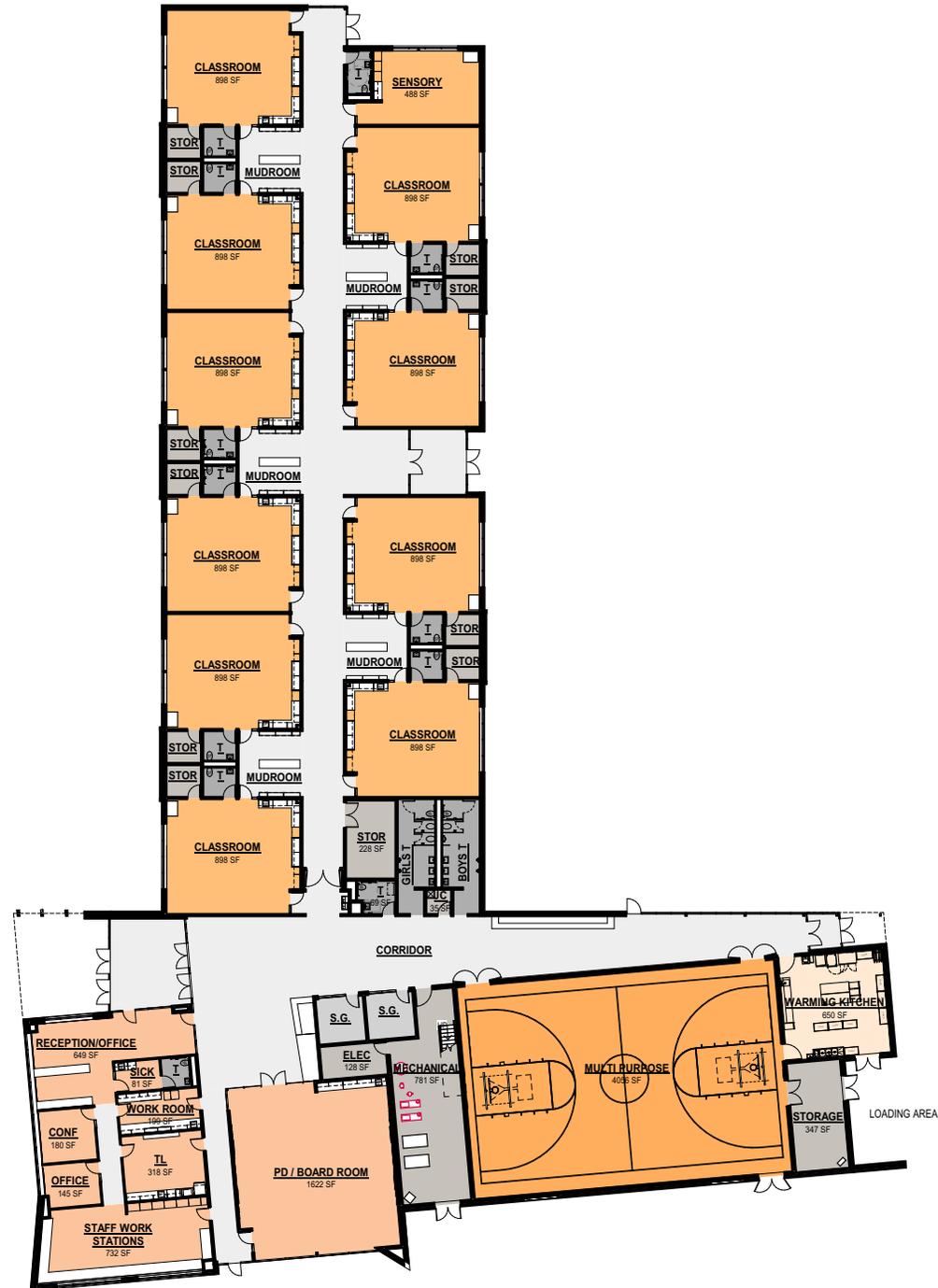




FLOOR PLAN

FLOOR PLAN

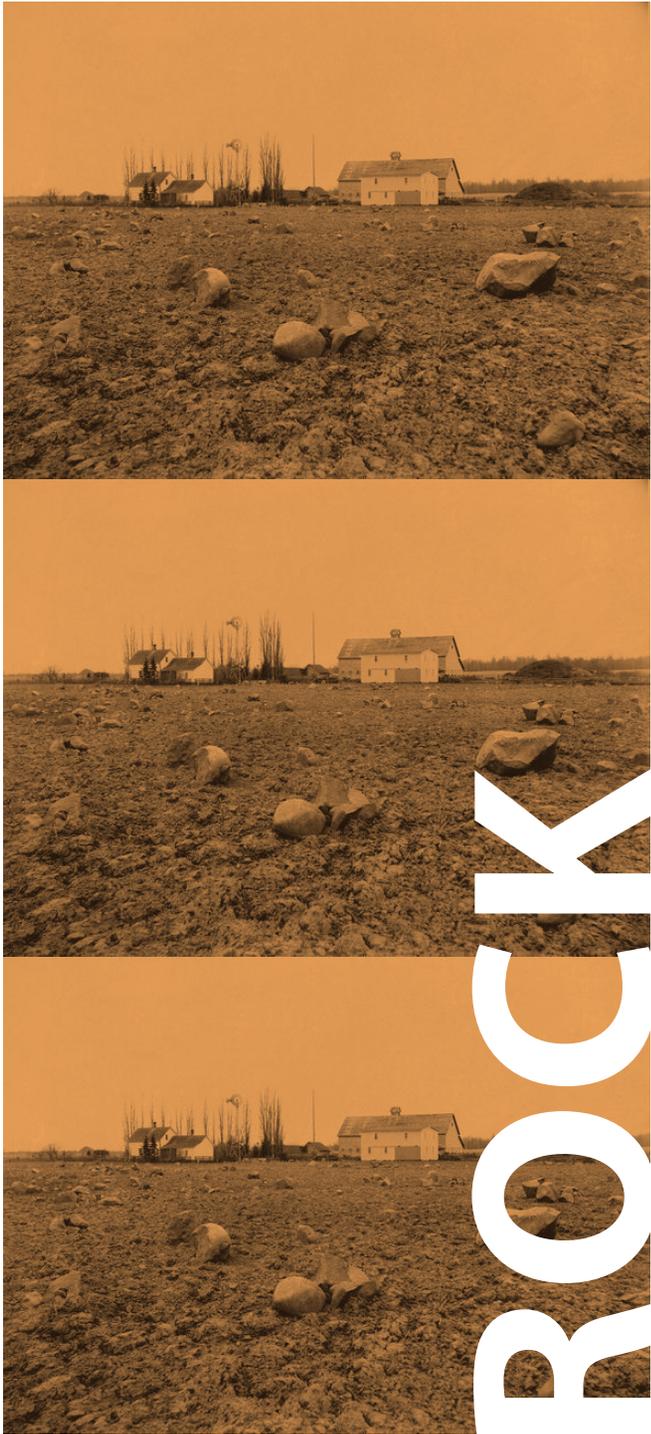
11.10.2020



OVERALL SQUARE FOOTAGE
32,575 S.F.

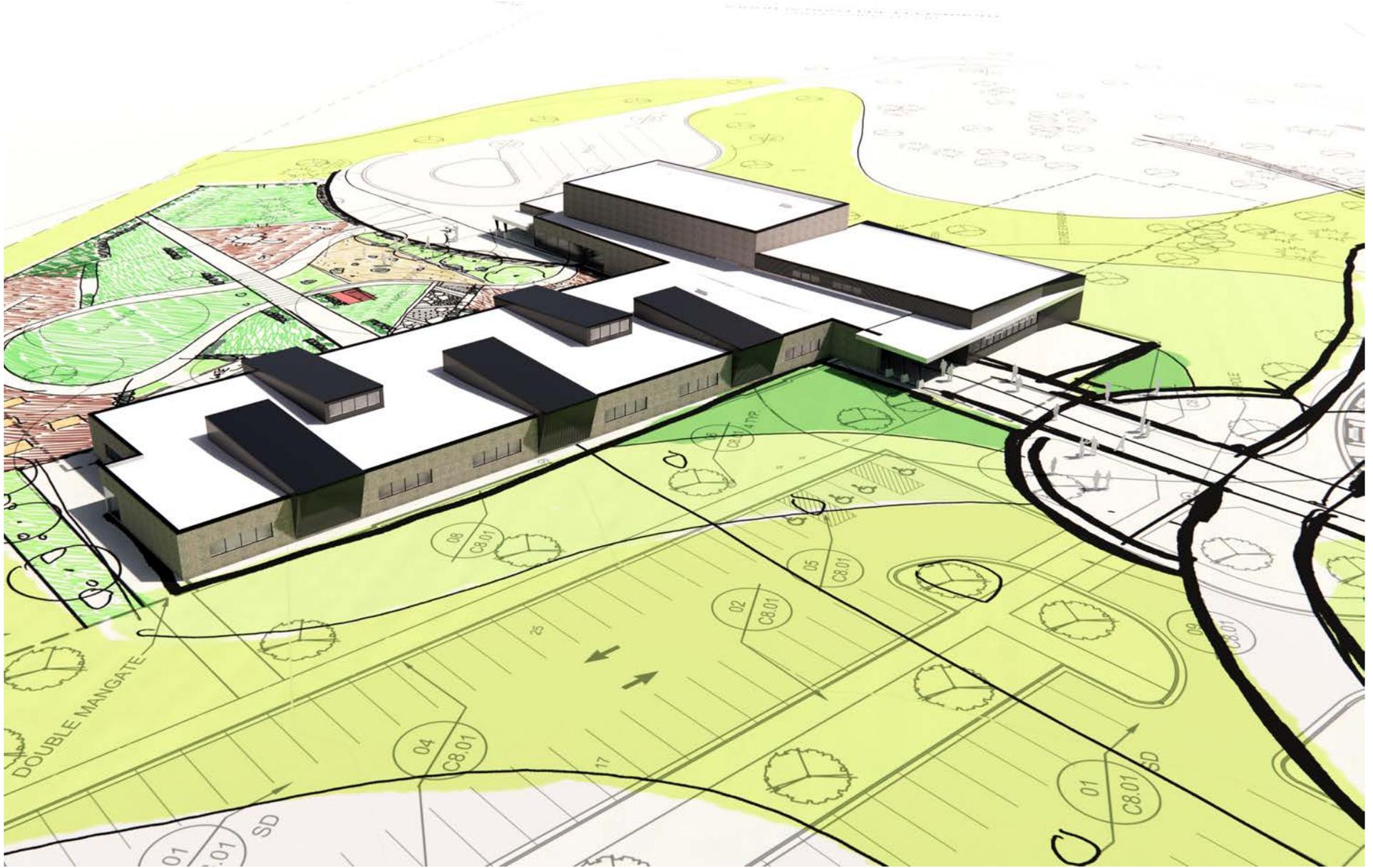


EXTERIOR MASSING



EXTERIOR CONCEPT

ROCK



VIEW: OVERALL AERIAL

EXTERIOR CONCEPT

ROCK



VIEW: ADMINISTRATION / MAIN ENTRY

EXTERIOR CONCEPT

ROCK



VIEW: PROFESSIONAL DEVELOPMENT



The background features a complex, abstract geometric pattern composed of overlapping lines and shapes in various shades of gray. The pattern includes large, dark gray 'X' shapes and smaller, lighter gray rectangular and triangular elements, creating a sense of depth and movement.

INTERIOR RENDERINGS

INTERIOR

ROCK



VIEW: MAIN ENTRY

INTERIOR

ROCK



VIEW: GYMNASIUM / MULTI-PURPOSE CORRIDOR

INTERIOR

ROCK



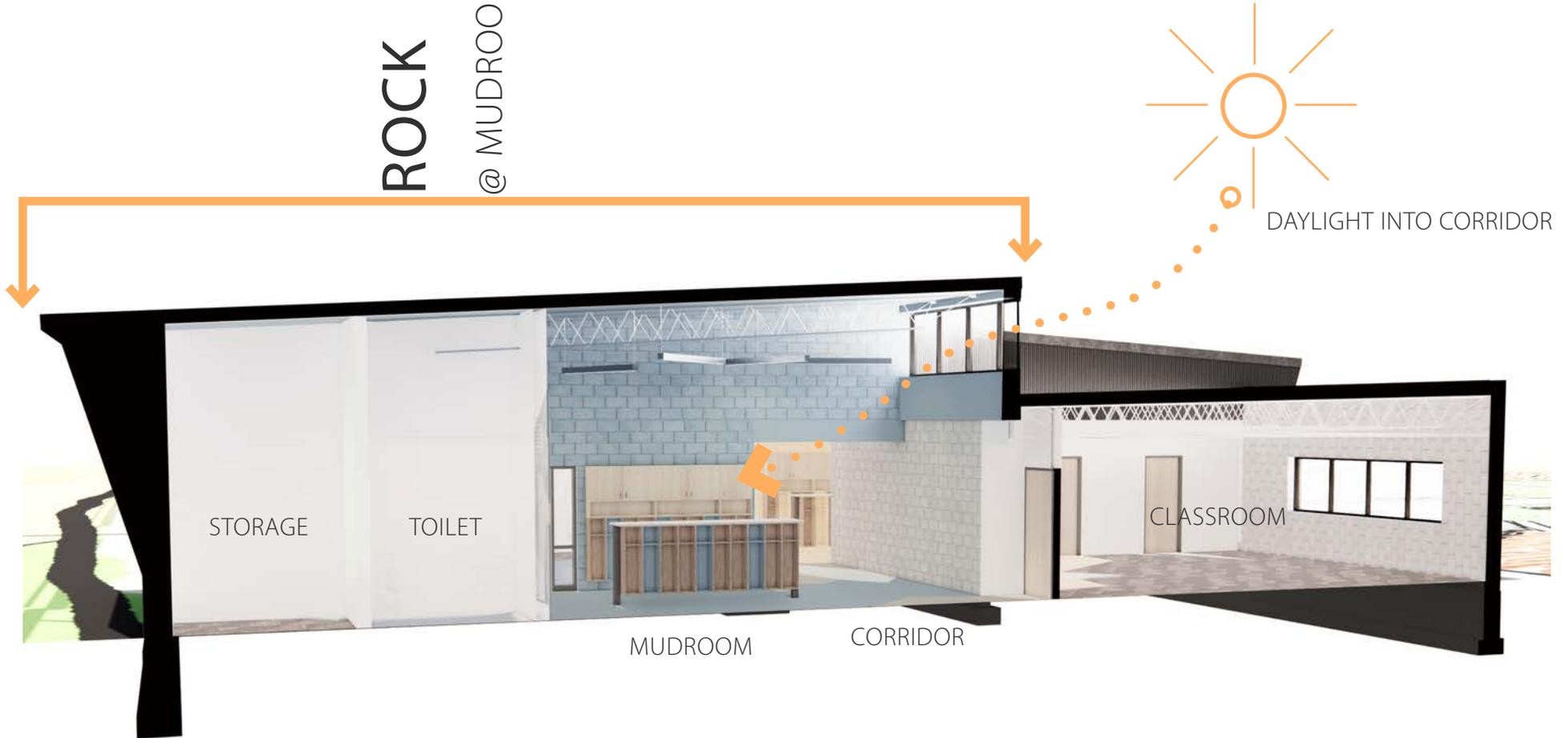
VIEW: MUD ROOM

INTERIOR

ROCK

ROCK

@ MUDROOM(S)



VIEW: MUD ROOM SECTION

INTERIOR

ROCK



VIEW: CLASSROOM CASEWORK



TK

GMB

The background features a complex, abstract geometric pattern. It consists of several overlapping, parallel lines that create a sense of depth and movement. The lines are in various shades of gray, ranging from light to dark. Some lines are horizontal, while others are diagonal, forming a series of nested, elongated shapes that resemble a stylized 'X' or a series of interlocking planes. The overall effect is a modern, architectural aesthetic.

APPENDIX

The background features a complex, abstract geometric pattern. It consists of several overlapping, parallel lines that create a sense of depth and movement. The lines are in various shades of gray, from light to dark. Some lines are horizontal, while others are diagonal. The overall effect is a dynamic, layered composition that frames the central text.

PROGRAM

PROGRAM

NEW LEARNING CENTER

PROGRAM SUMMARY	Exist'g SF	BOND PROGRAM			ADJUSTED PROGRAM			FLEX		PRIORITY (rating 1-3)	REMARKS	
		Program Area	Qty.	Total Area	Program Area	Qty.	Total Area	Tuition	Daycare			
Group ENTRANCE & ADMINISTRATION												
Secure Vestibule	0	200	1	200	200	1	200	x	x			
Waiting Area	285	500	1	500	500	1	500	x	x			
Administrative Assistant Work Area	200	300	1	300	300	1	300	x	x			
Director	375	150	1	150	150	1	150	x				
Conference Room	0	180	1	180	180	1	180	x	x			
Staff Lounge	205	800	1	800	800	1	800	x	x			
Staff Work Stations	705	80	8	640	80	8	640	x				
Staff Restrooms	120	60	2	120	60	2	120	x	x			
Sick Room / Restroom	0	0	0	0	80	1	80	x	x		Can this be shared with a staff restroom?	
MULTIPURPOSE												
Multi-Purpose Room / Gymnasium	0	4000	1	4000	4000	1	4000	x	x		Does gym need to be full size?	
Kitchen (heat and serve only)	0	750	1	750	750	1	750	x				
Storage	0	300	1	300	300	1	300	x				
CLASSROOMS												
Early Childhood Special Education (ECSE)	1150	1000	2	2000	900	2	1800	x				
Great Start Readiness Program (GSRP)	2750	1000	3	3000	900	4	3600	x				
Tuition Pre-School	1525	1000	3	3000	900	4	3600	x				
Sensory Room	205	600	1	600	600	1	600	x	x			
Classroom Toilet Rooms	180	60	8	480	60	10	600	x				
Small Group Rooms	0	150	4	600	150	2	300	x	x			
Storage Rooms	400	100	4	400	100	4	400	x				
PUBLIC SPACE												
Mechanical Room	900	900	1	900	900	1	900	x	x			
Electrical Room	60	100	1	100	100	1	100	x	x			
Group Toilet Rooms	230	400	2	800	400	2	800	x	x			
Custodial	60	50	2	100	100	2	200	x	x			
IT Closet	40	100	1	100	100	1	100	x	x			
Building Storage	2350	200	1	200	200	1	200	x				
TOTAL PROGRAM SQUARE FEET:				20420				21420				
Non Assignable SF Factor = 0.35				7147				7497				
TOTAL GROSS SQUARE FEET(GSF):				27567				28917	← +/- from Bond 1350			

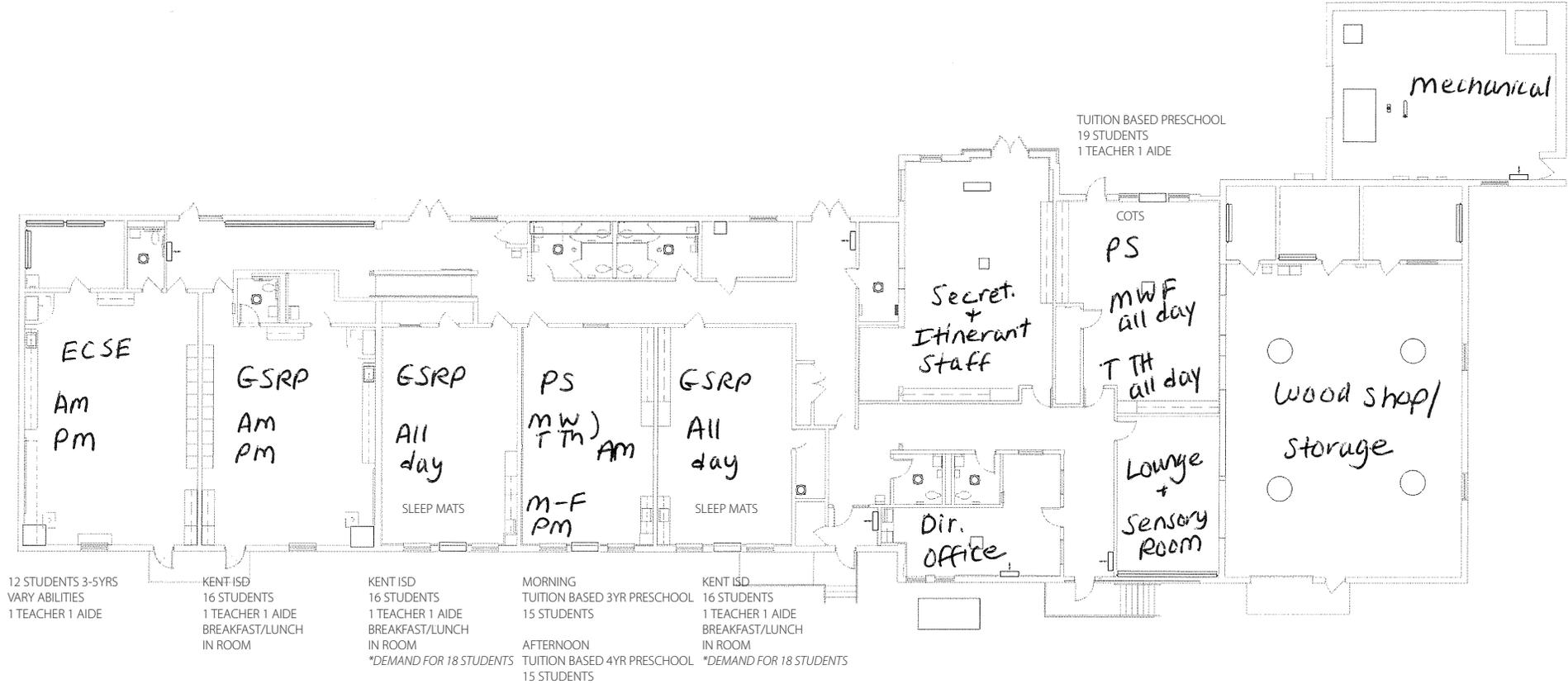


OBSERVATIONS

OBSERVATIONS

BUILDING ANALYSIS

- SEQUENCE OF CLASSROOM STARTS IS CHAOTIC
 - DIRECTORS OFFICE IS TOO LARGE / UNUSED SPACE
 - NOT ENOUGH BUILDING STORAGE
 - BOILERS 3-4 YEARS OLD (2)
 - NO SECURE ENTRANCE
- GOAL/TARGET OF STUDENTS PER CLASSROOM
 PRESCHOOL 20 W/ 2 STAFF
 3 YEAR OLD 15

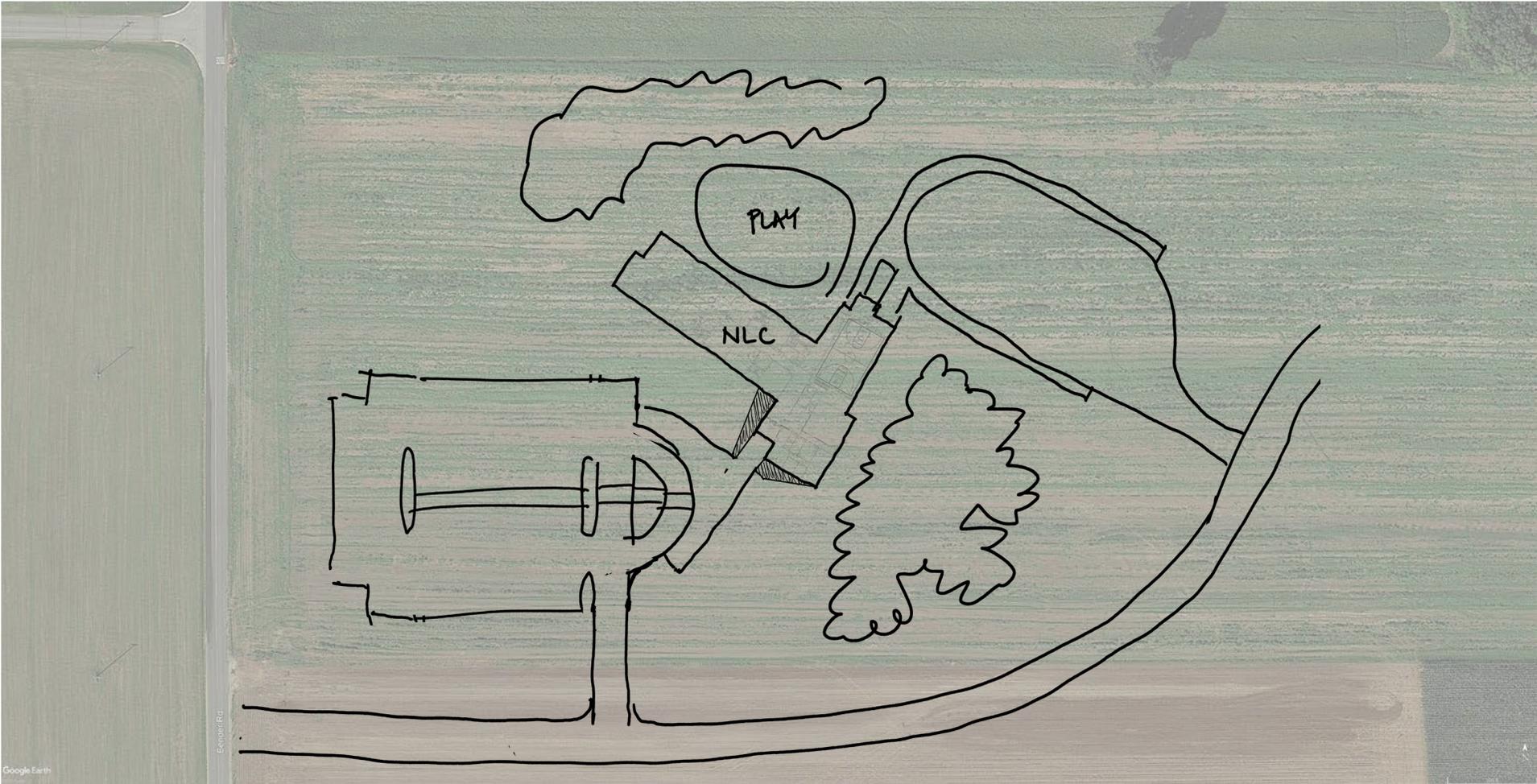




SITE PLAN CONCEPTS
(09.03.2020)

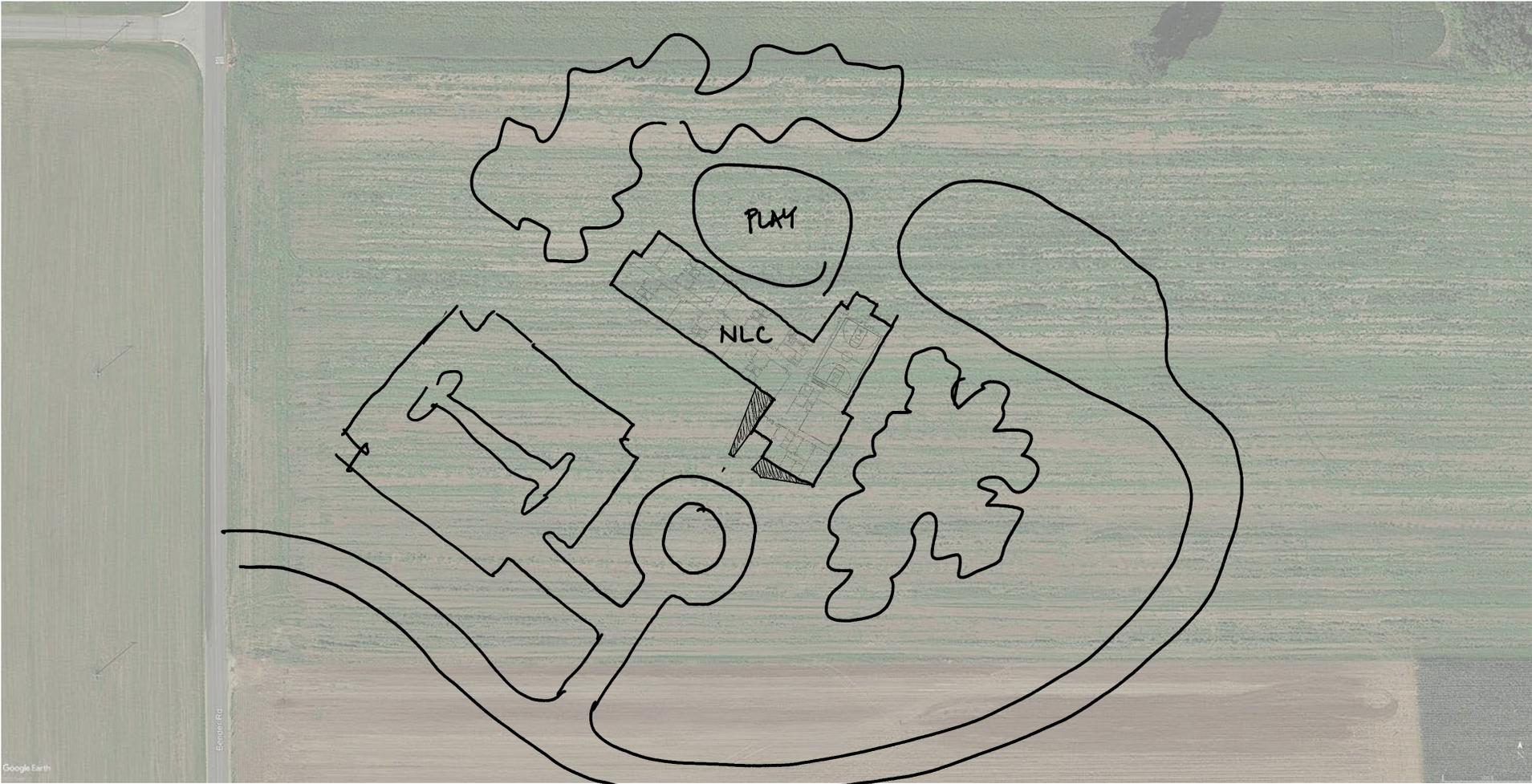
SITE DIAGRAM

BENDER ROAD PROPERTY



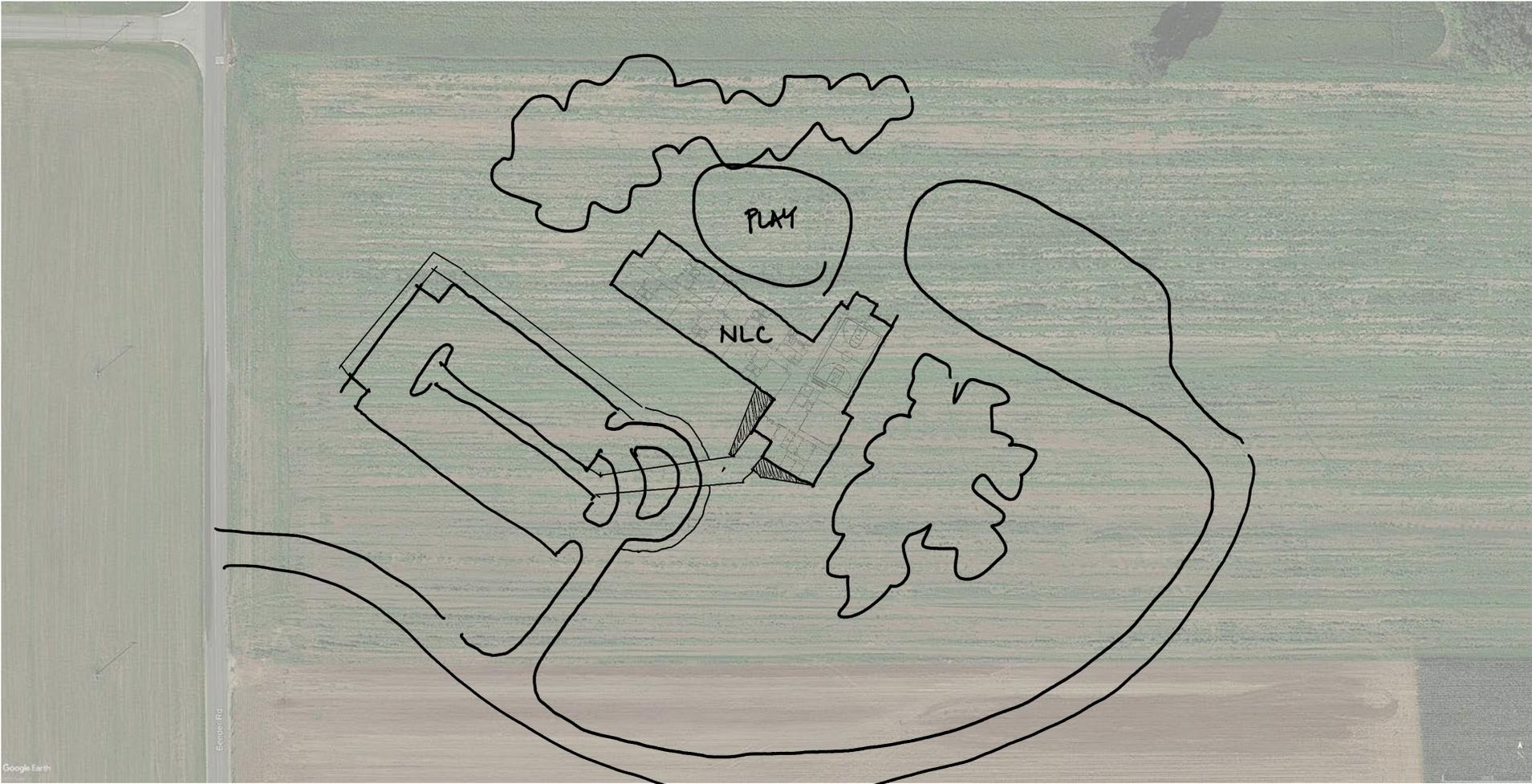
SITE DIAGRAM

BENDER ROAD PROPERTY



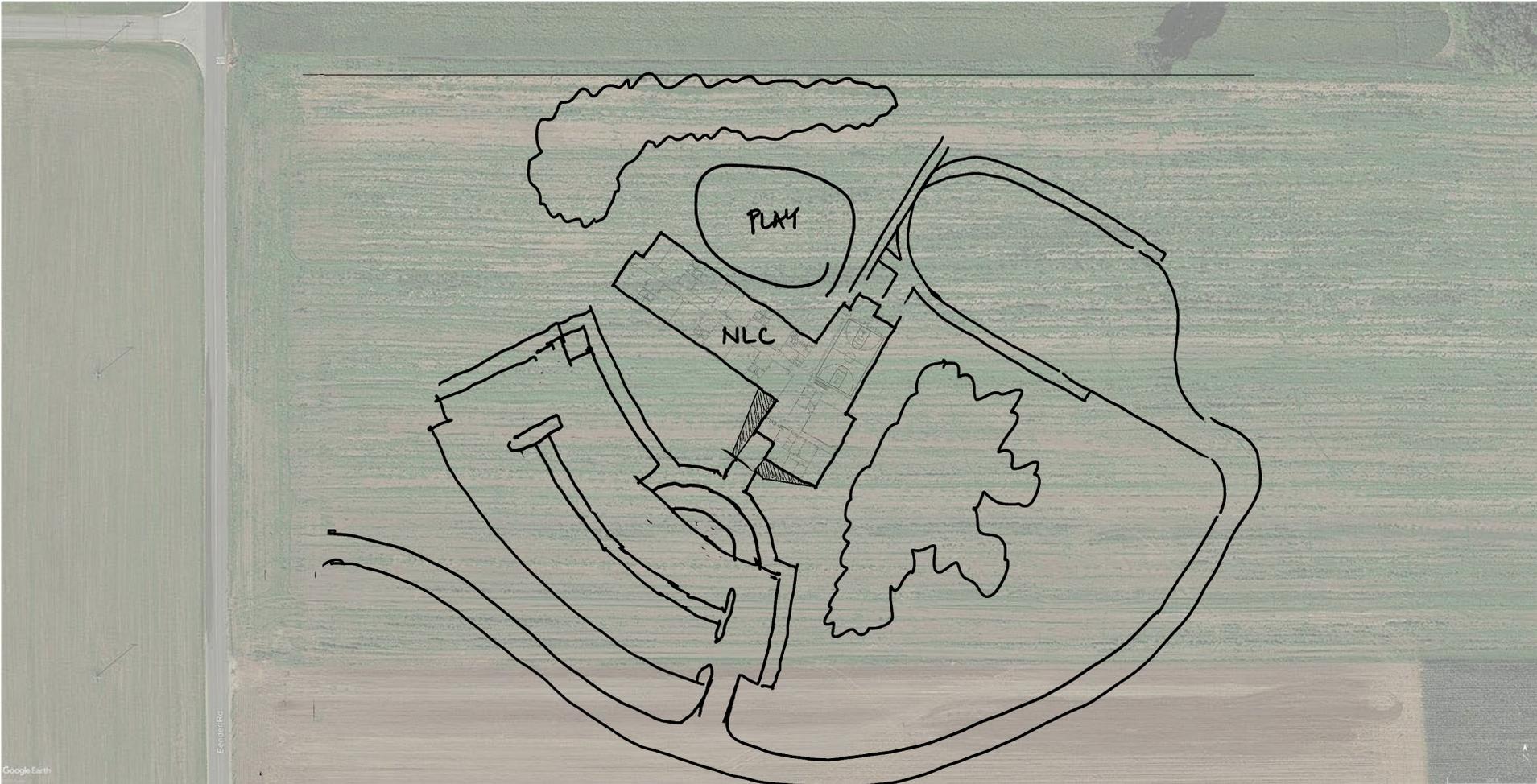
SITE DIAGRAM

BENDER ROAD PROPERTY



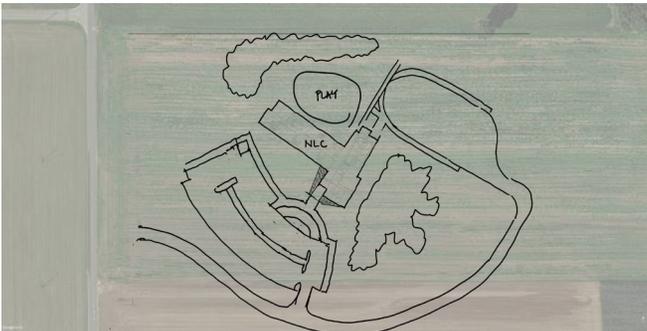
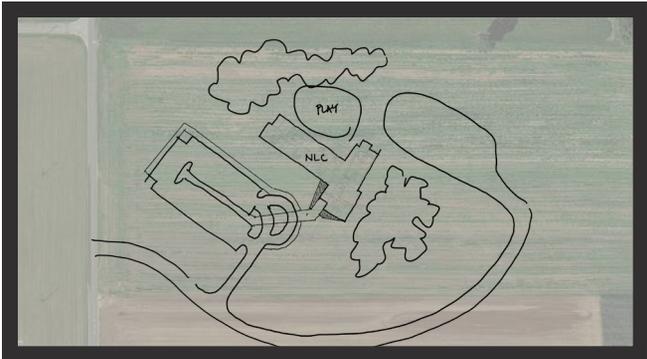
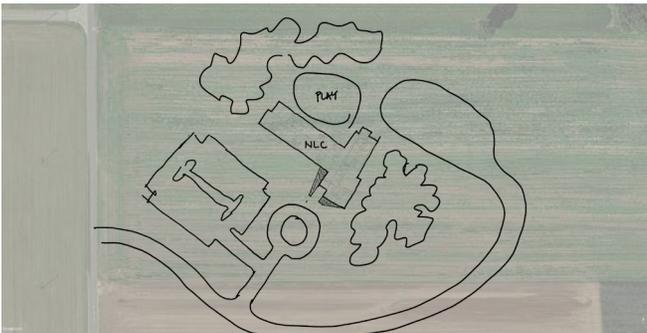
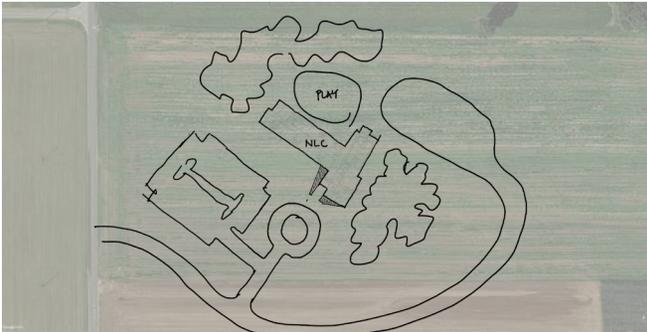
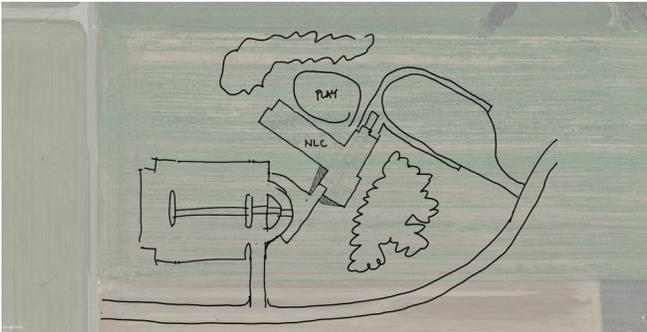
SITE DIAGRAM

BENDER ROAD PROPERTY



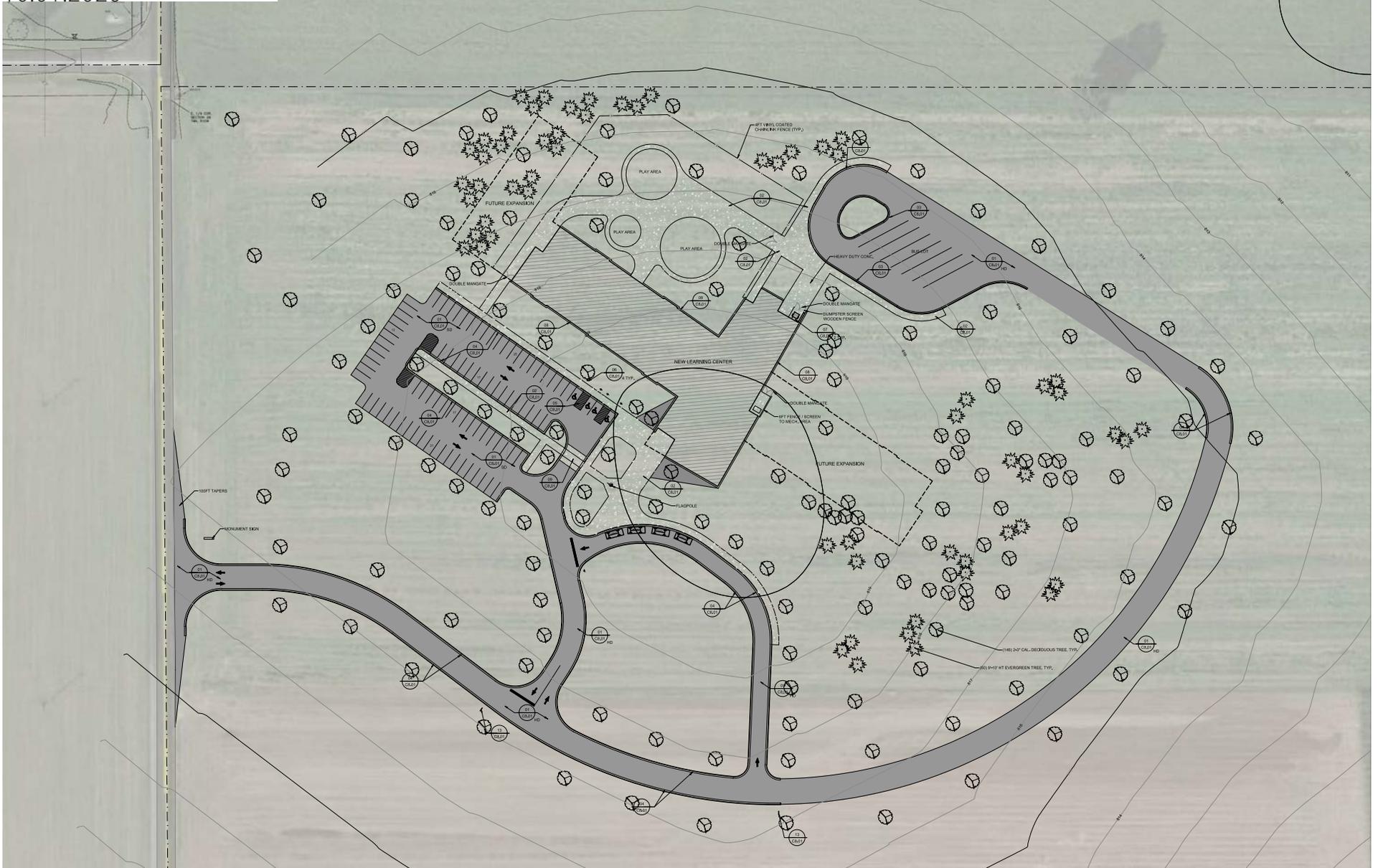
SITE DIAGRAM

CONCEPT SUMMARY



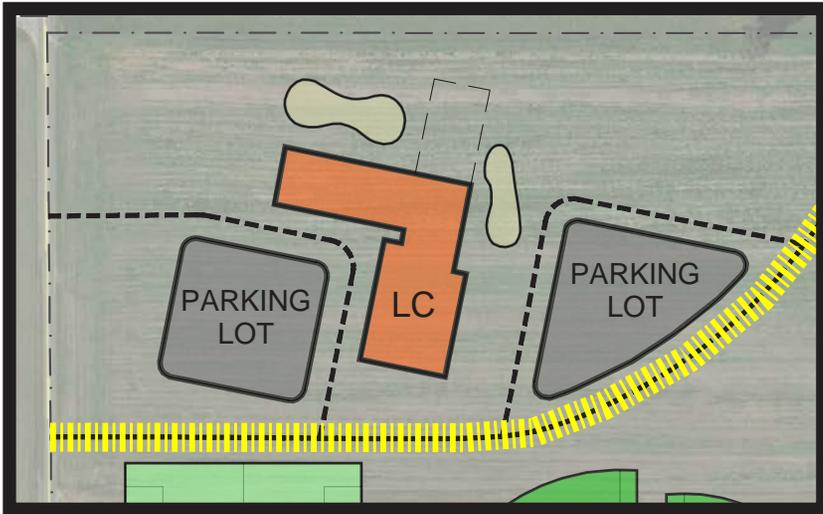
SITE PLAN

10.01.2020



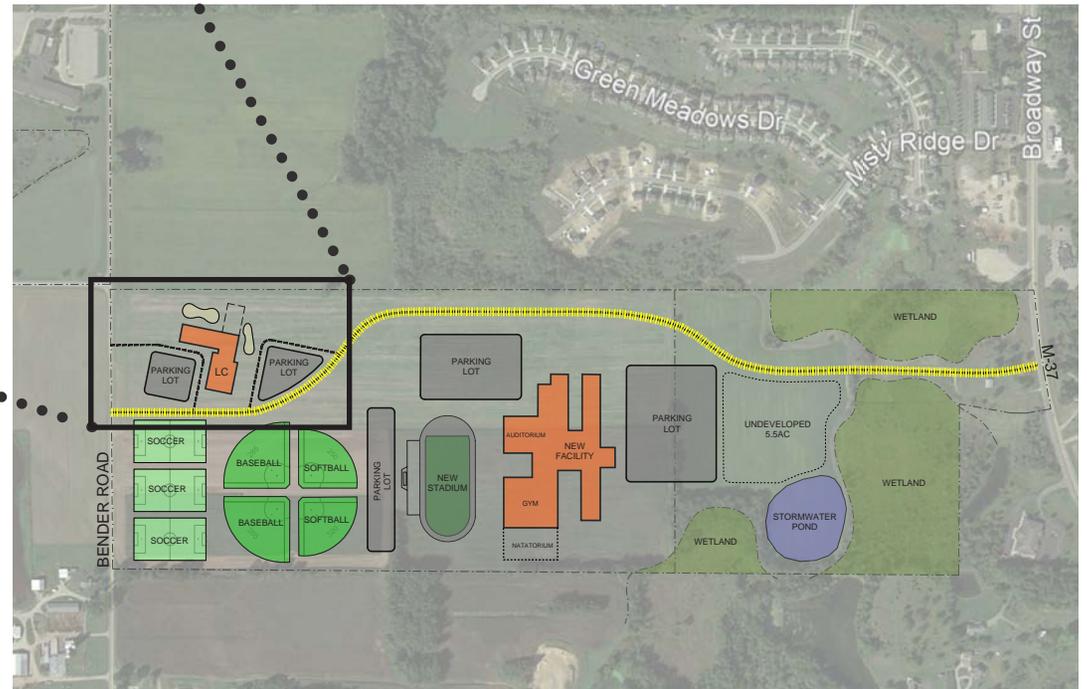
SITE DIAGRAM

BENDER ROAD PROPERTY



SITE ADVANTAGES:

- BETTER TRAFFIC ACCESS
- LOWER INFRASTRUCTURE COST
- SPACE FOR FUTURE EXPANSION
- LIMITED IMPACT / INTERRUPTION TO EXISTING FACILITIES





PLAN DIAGRAMS
(07.02.2020)

PLANNING DIAGRAMS

2019 BOND BOARD

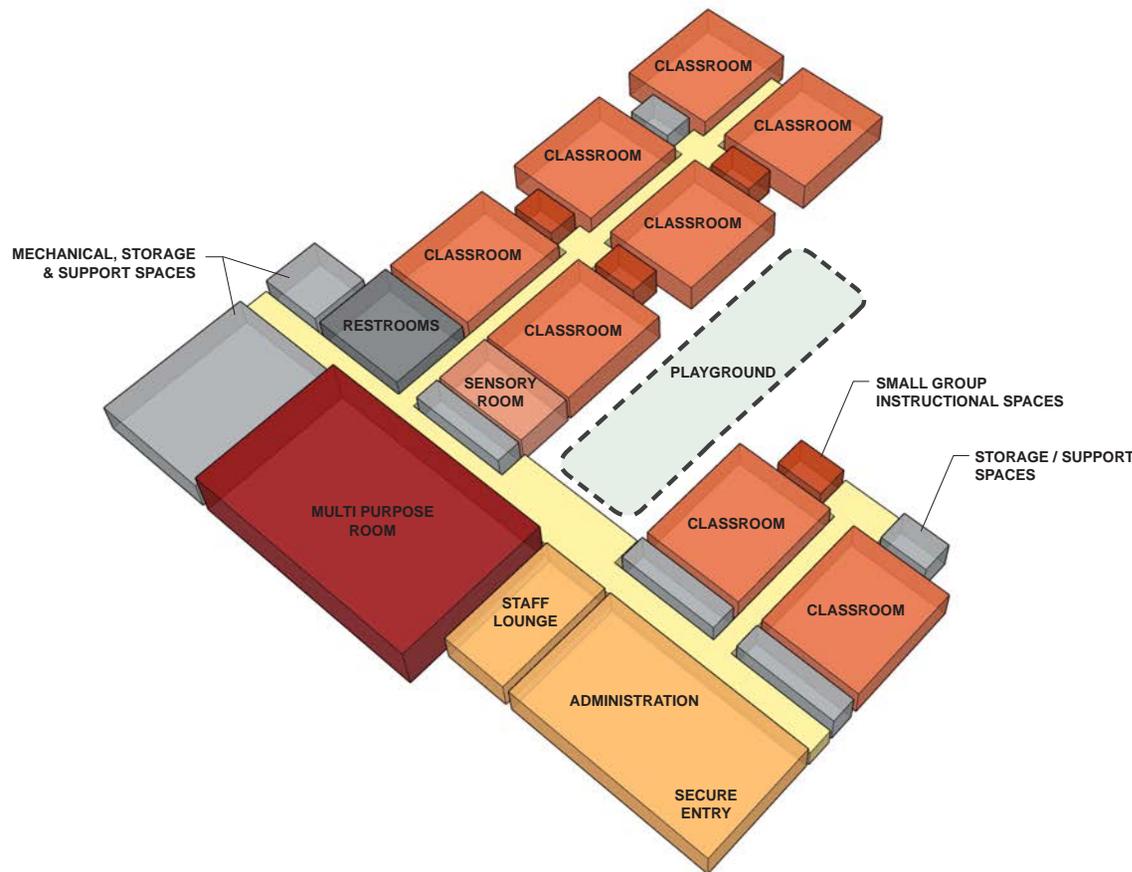


PROPOSED BOND ISSUE IMPROVEMENTS Thornapple Kellogg Schools / Election Day: Tuesday, Nov. 5, 2019

**NO PROJECTED
INCREASE TO CURRENT
TAX RATE**

NEW LEARNING CENTER

www.tkschools.org tkschools ThornappleKellogg



GROWTH

Construction of a new Learning Center for pre-schoolers to accommodate a growing number of students. Features include:

21st Century learning environment housing Early Childhood Special Education, Great Start Readiness Program and tuition-based preschool

Age appropriate classrooms

Secure entry

Sensory room

Small group instructional spaces

Multi-purpose room used for breakfast, lunch, and gross motor activities

Childcare

Conceptual site and building diagrams depict potential building and site relationships. Actual layout and design to be developed. This informational material is paid for by Thornapple Kellogg Schools, 10051 Green Lake Road, Middleville, MI 49333.



PLANNING DIAGRAMS

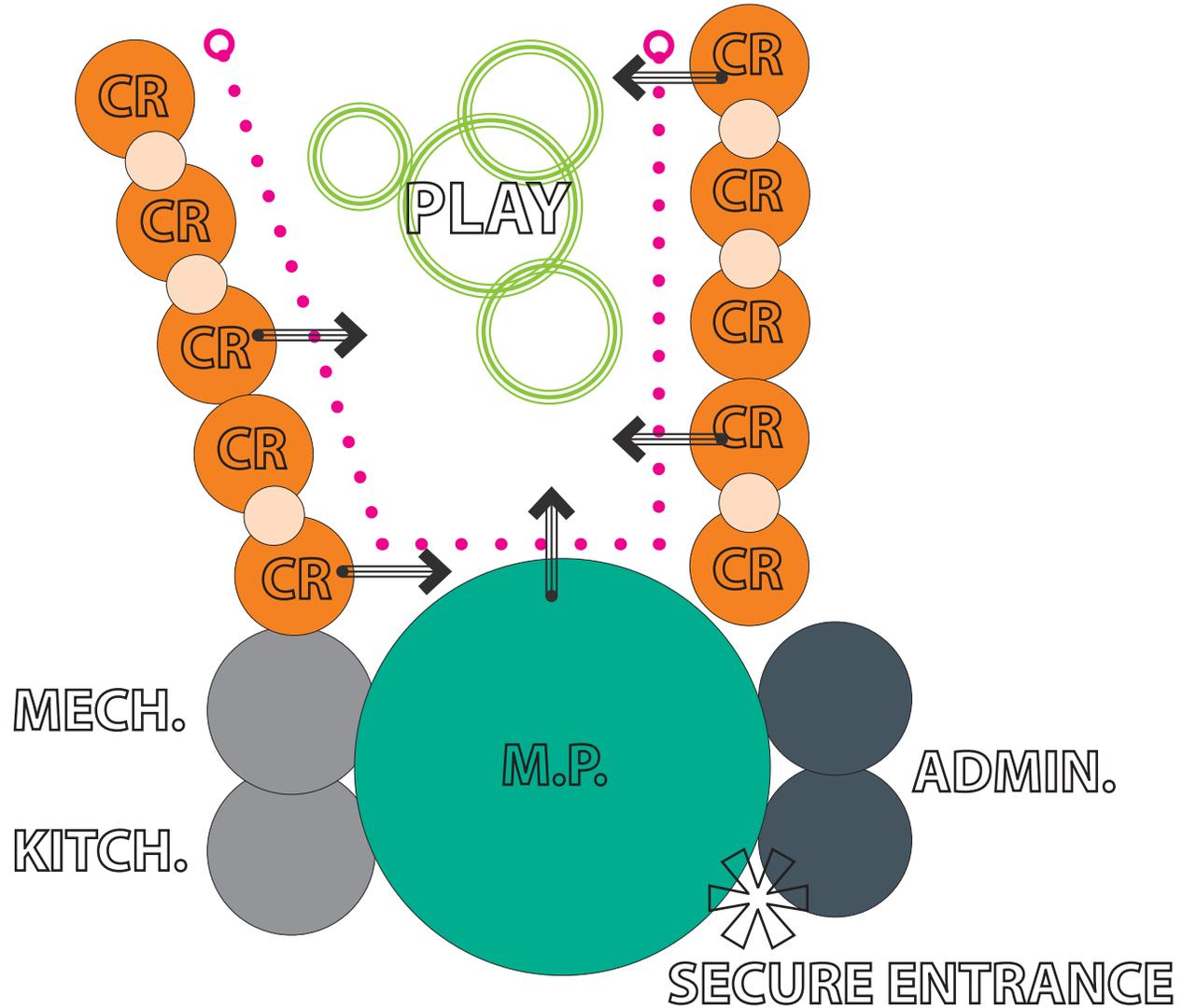
OPTION 01

PROS:

- SECURE BUILDING ENTRANCE
- SEPARATION OF PUBLIC vs. PRIVATE
- ALLOWS FOR INDIVIDUAL ACCESS TO OUTDOOR PLAY FROM CLASSROOMS
- BUILDING SHELTERED OUTDOOR PLAY AREA
- MULTI-PURPOSE HAS CONNECTION TO OUTDOOR PLAY

CONS:

- SEPARATION OF CLASSROOM NEIGHBORHOODS
- MORE SQUARE FOOTAGE USED ON BUILDING CIRCULATION



- CLASSROOM
- CLASSROOM SUPPORT
- ADMIN. RECEPTION
- MULTI-PURPOSE / GYM
- SUPPORT
- ◎ PLAYGROUND

PLANNING DIAGRAMS

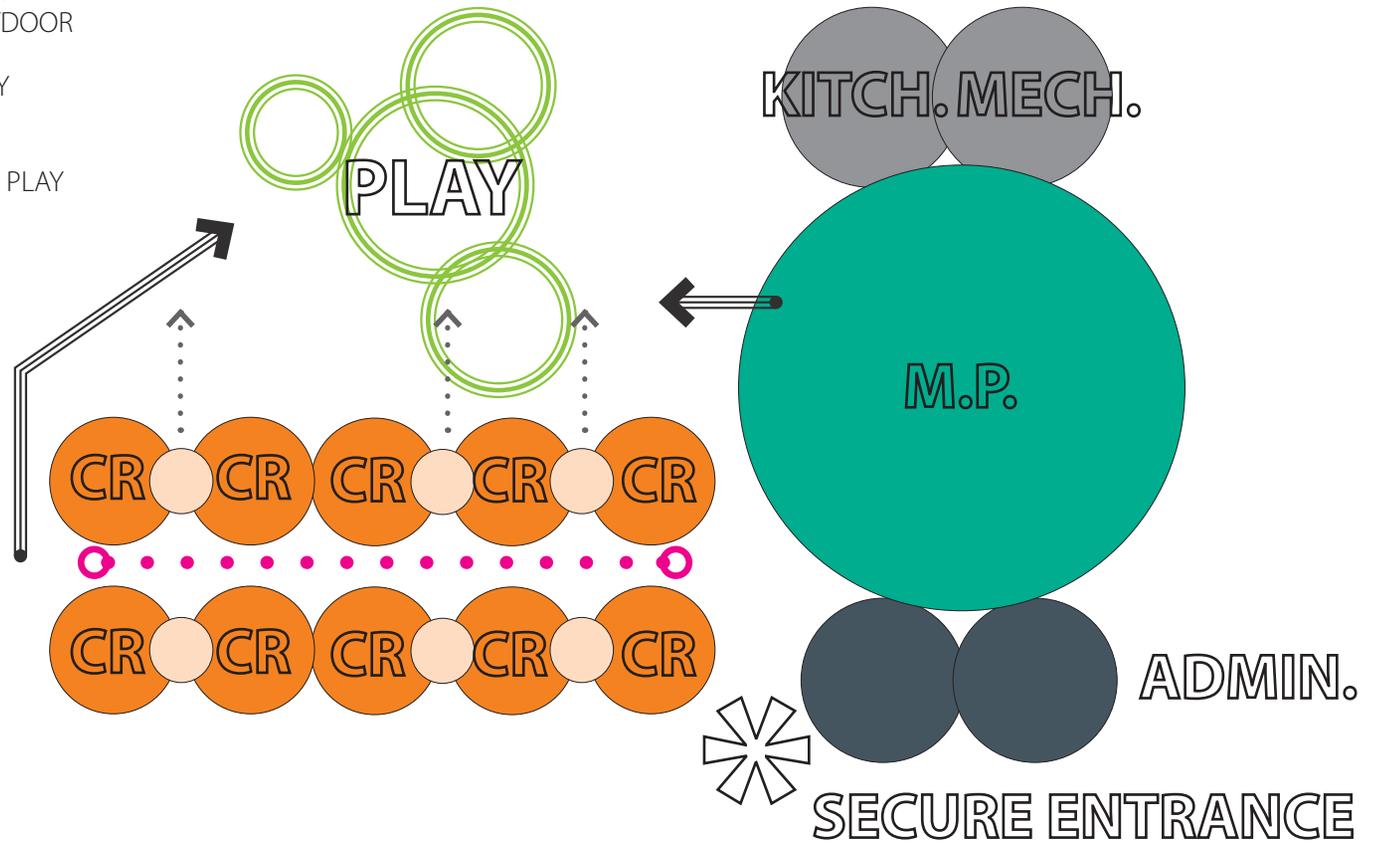
OPTION 02

PROS:

- SECURE BUILDING ENTRANCE
- SEPARATION OF PUBLIC vs. PRIVATE
- EFFICIENT CLASSROOM BUILDING BLOCK
- BUILDING SHELTERED OUTDOOR PLAY AREA
- MULTI-PURPOSE HAS CONNECTION TO OUTDOOR PLAY
- NEIGHBORHOOD CLASSROOM COMMUNITY

CONS:

- SEPARATION OF CLASSROOM TO OUTDOOR PLAY
- MULTI-PURPOSE NOT CENTRALLY LOCATED



- CLASSROOM
- CLASSROOM SUPPORT
- ADMIN. RECEPTION
- MULTI-PURPOSE / GYM
- SUPPORT
- ◎ PLAYGROUND

PLANNING DIAGRAMS

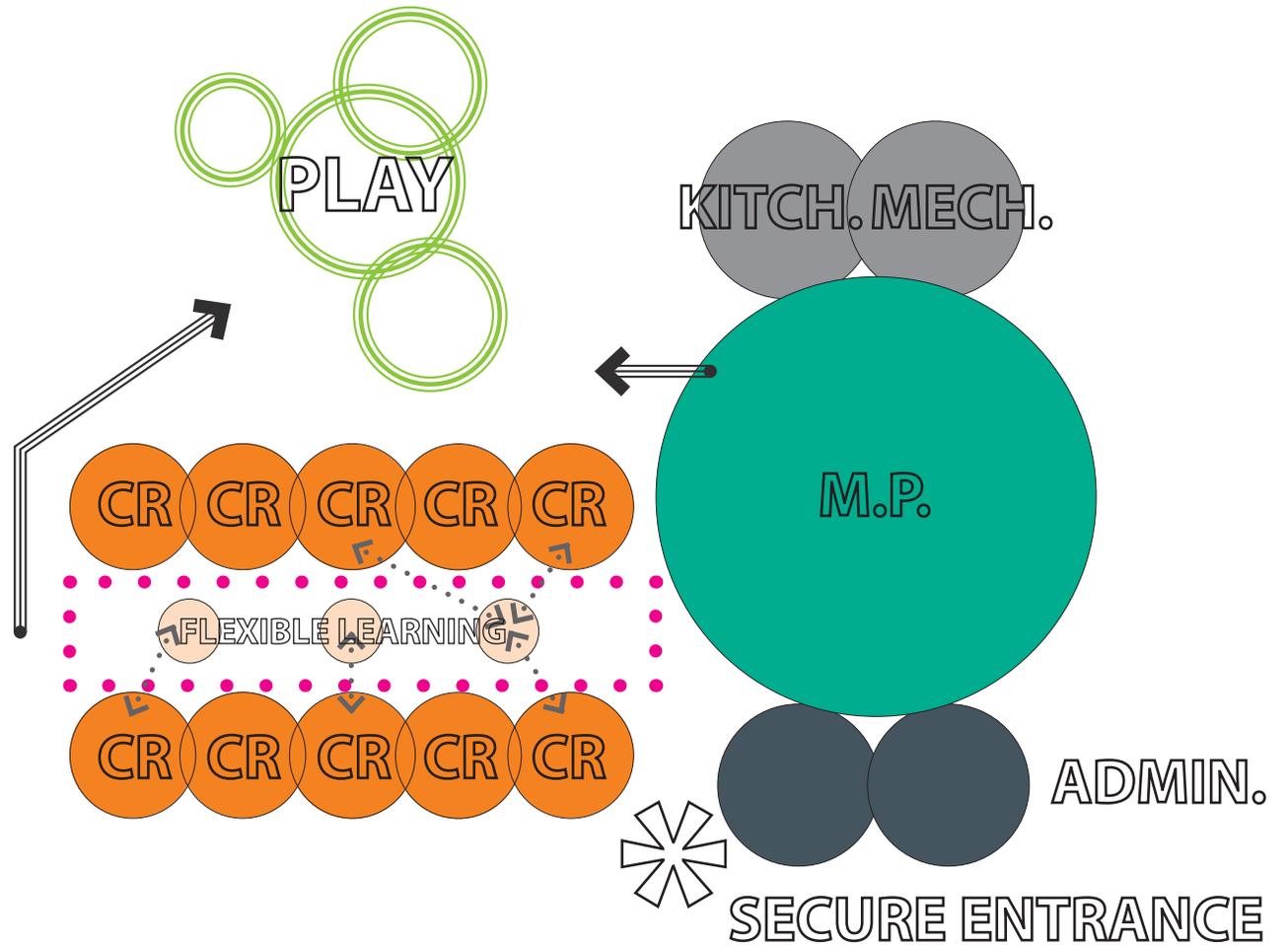
OPTION 03

PROS:

- SECURE BUILDING ENTRANCE
- SEPARATION OF PUBLIC vs. PRIVATE
- EFFICIENT CLASSROOM BUILDING BLOCK
- BUILDING SHELTERED OUTDOOR PLAY AREA
- MULTI-PURPOSE HAS CONNECTION TO OUTDOOR PLAY
- NEIGHBORHOOD CLASSROOM COMMUNITY
- SHARED CLASSROOM RESOURCES "HUB"

CONS:

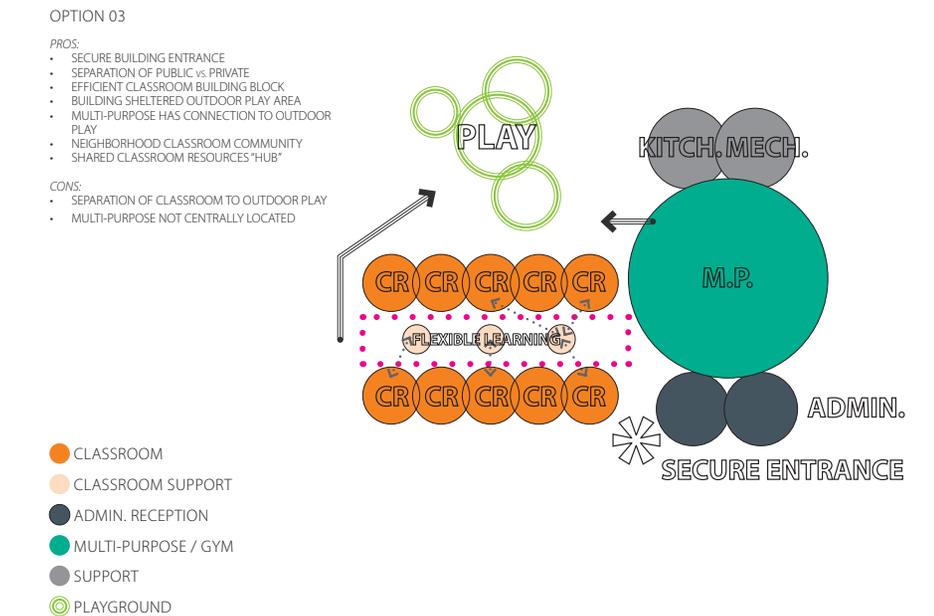
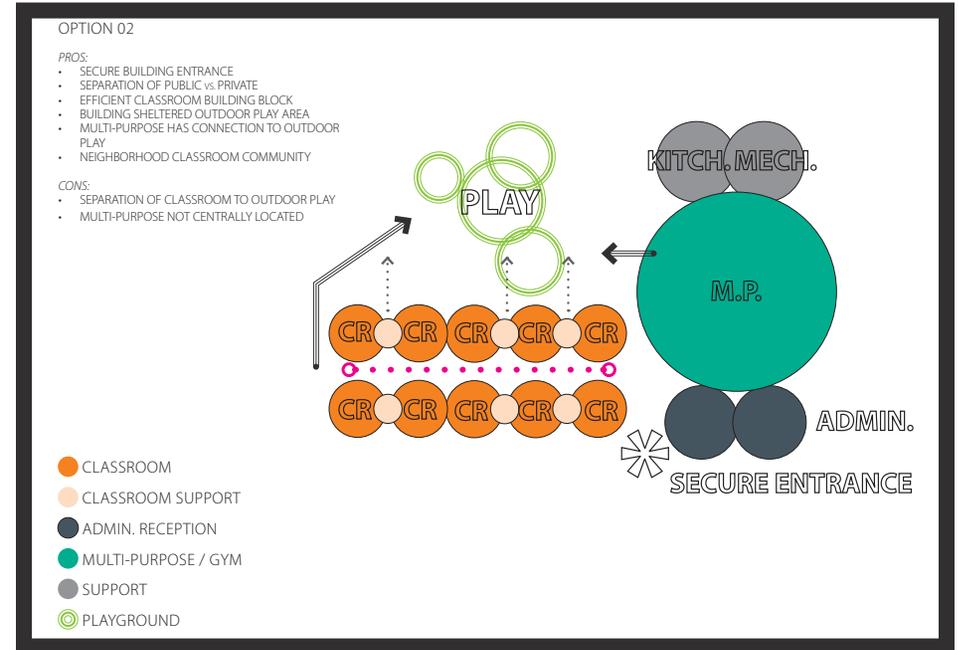
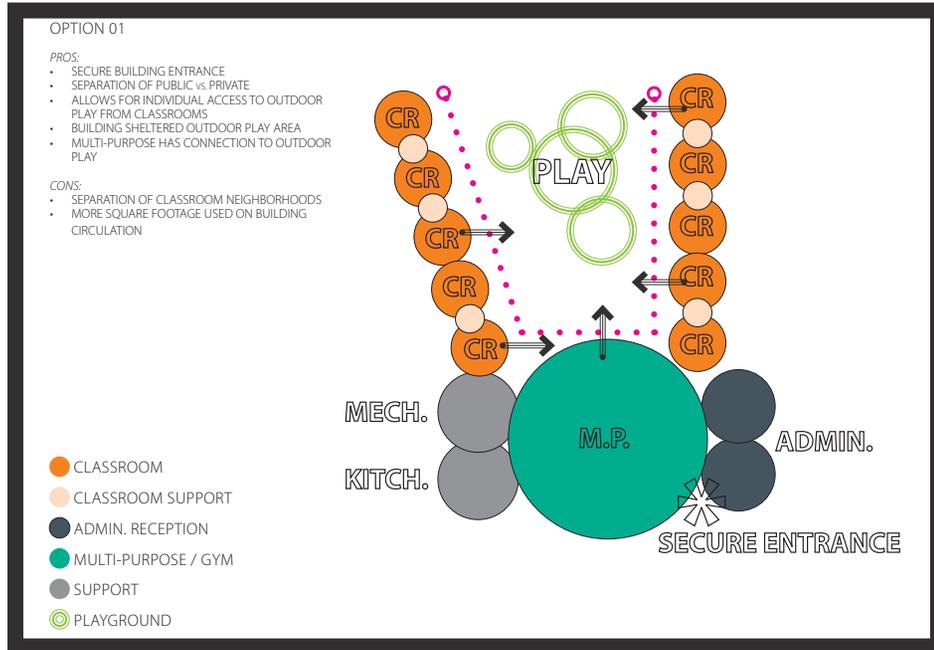
- SEPARATION OF CLASSROOM TO OUTDOOR PLAY
- MULTI-PURPOSE NOT CENTRALLY LOCATED



- CLASSROOM
- CLASSROOM SUPPORT
- ADMIN. RECEPTION
- MULTI-PURPOSE / GYM
- SUPPORT
- ◎ PLAYGROUND

PLANNING DIAGRAMS

CONCEPT SUMMARY



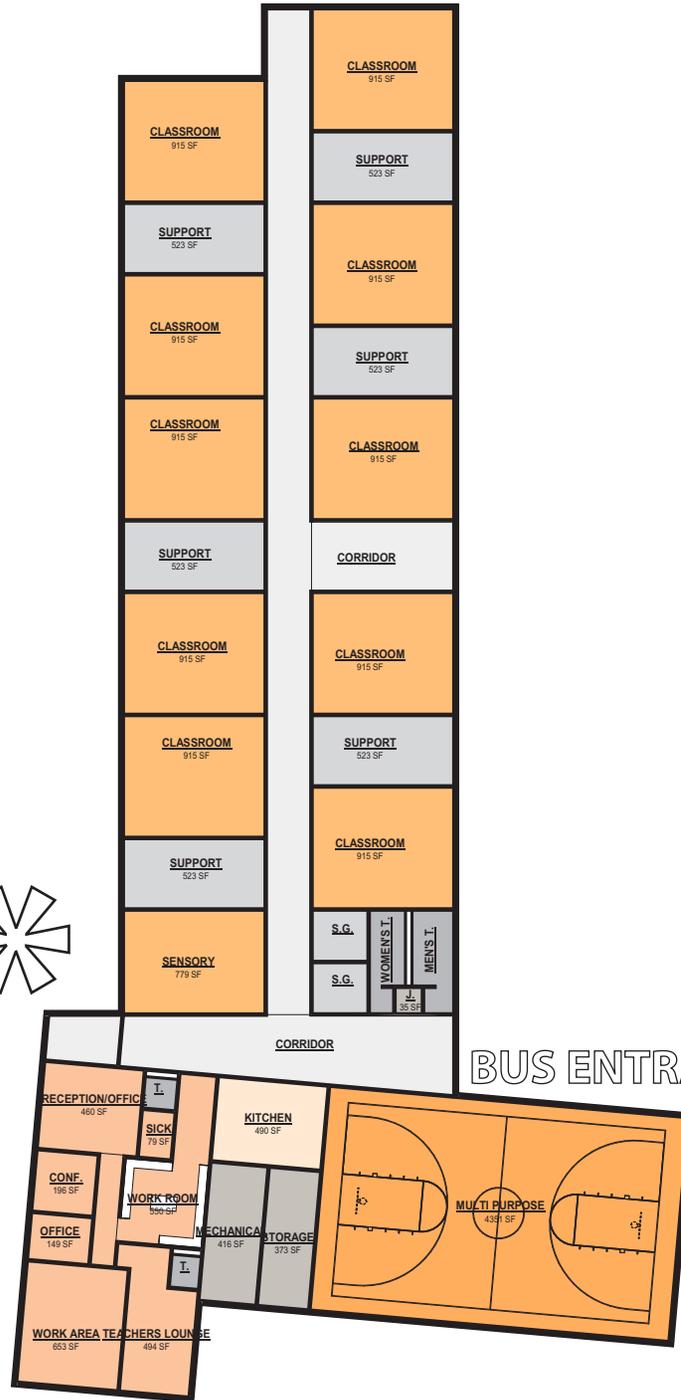
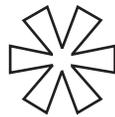


FLOOR PLAN CONCEPTS
(07.30.2020)

PLAN DIAGRAM

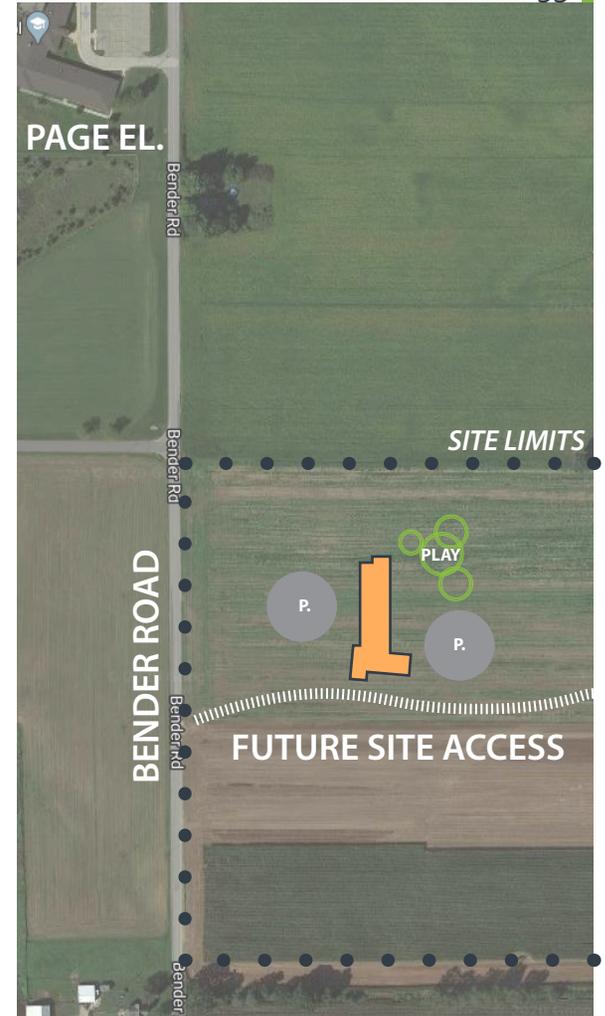
SPINE

SECURE ENTRANCE



BUS ENTRANCE

OVERALL SQUARE FOOTAGE
28,750 s.f.

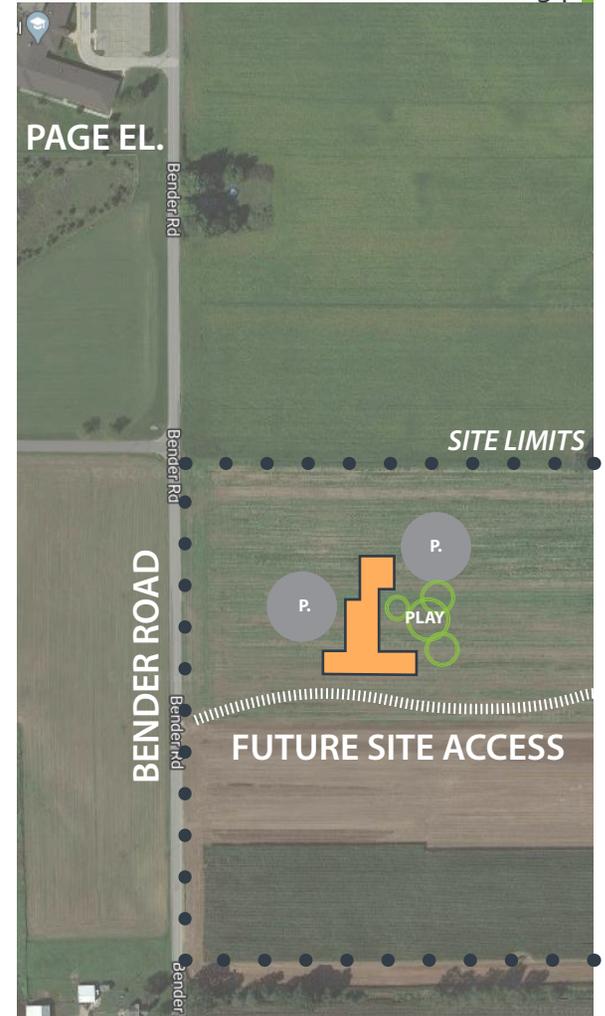
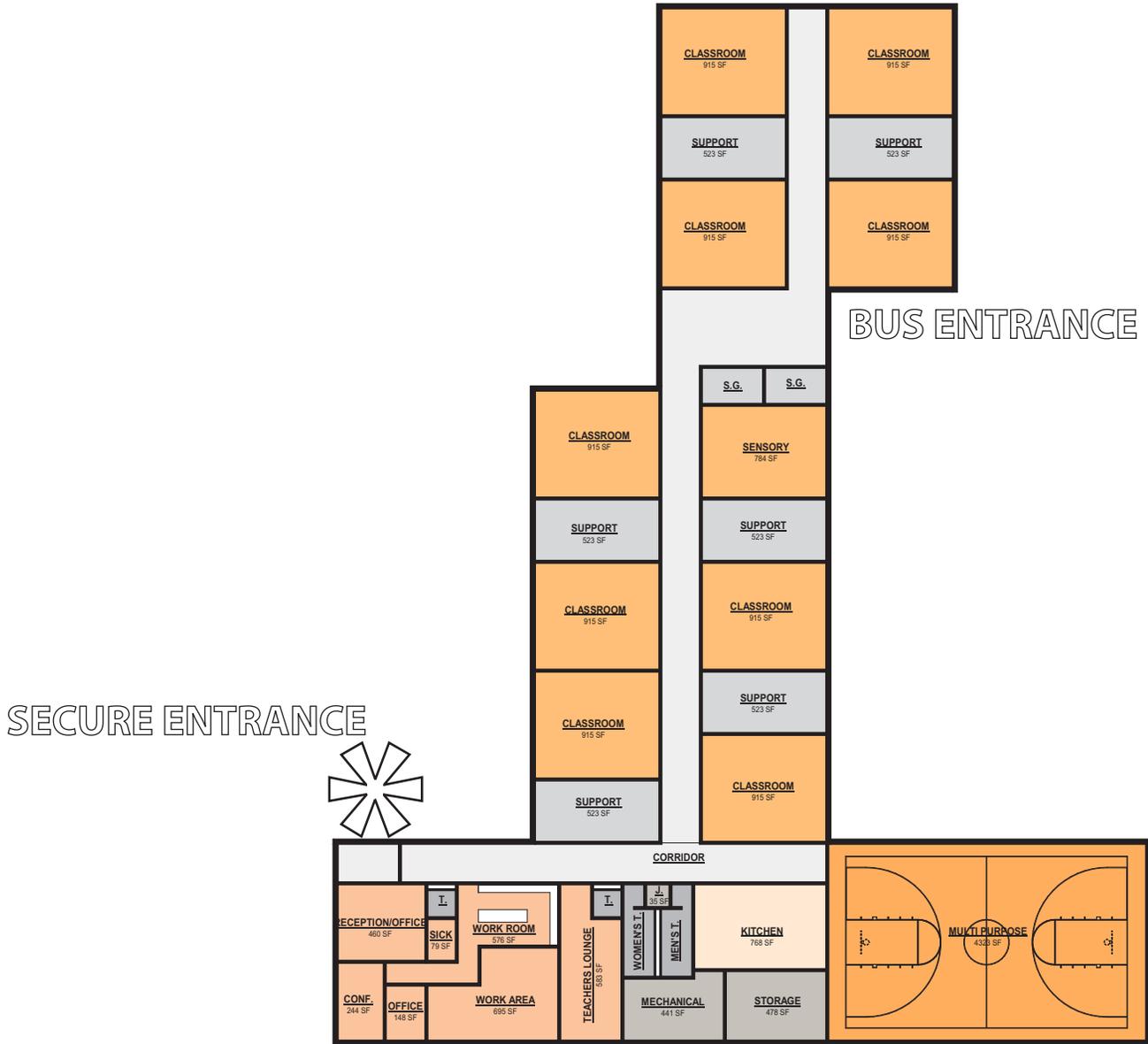


SITE CONCEPT



PLAN DIAGRAM

BLOCKS



SITE CONCEPT

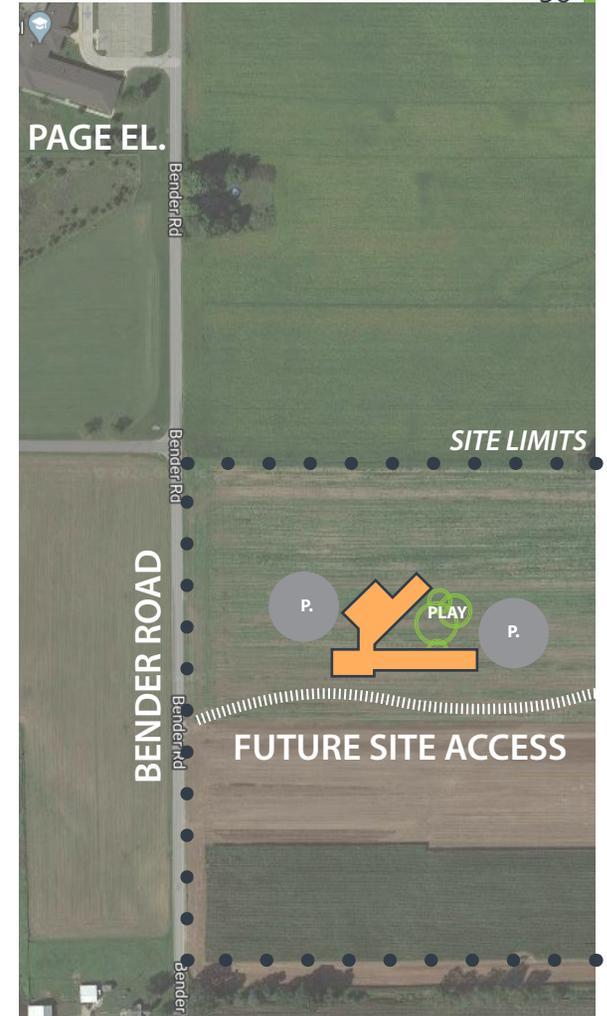
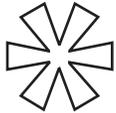
OVERALL SQUARE FOOTAGE
28,600 s.f.

PLAN DIAGRAM

WINGS2.1



SECURE ENTRANCE



SITE LIMITS

BENDER ROAD

FUTURE SITE ACCESS

SITE CONCEPT

BUS ENTRANCE

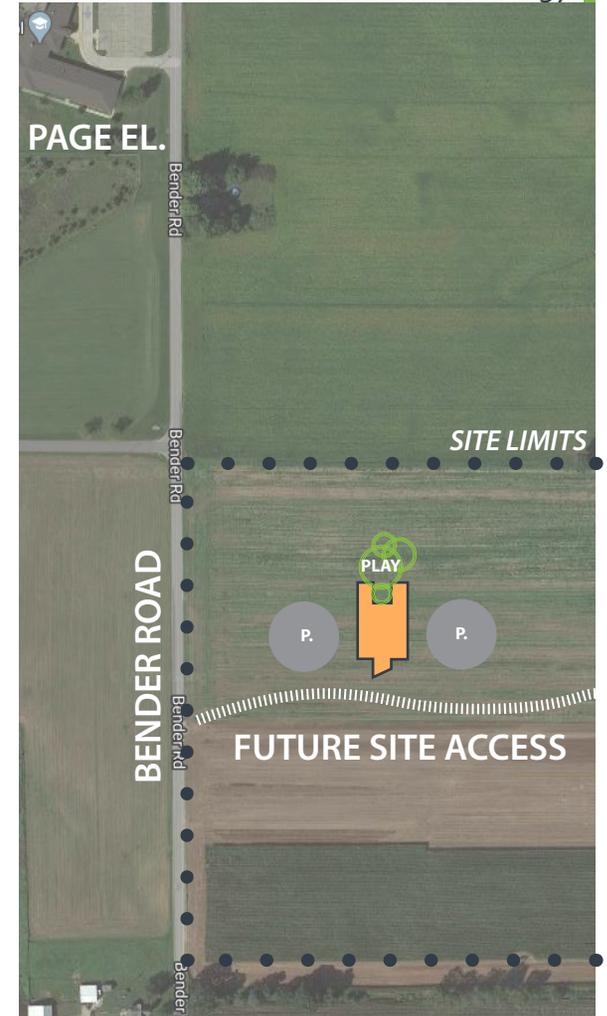
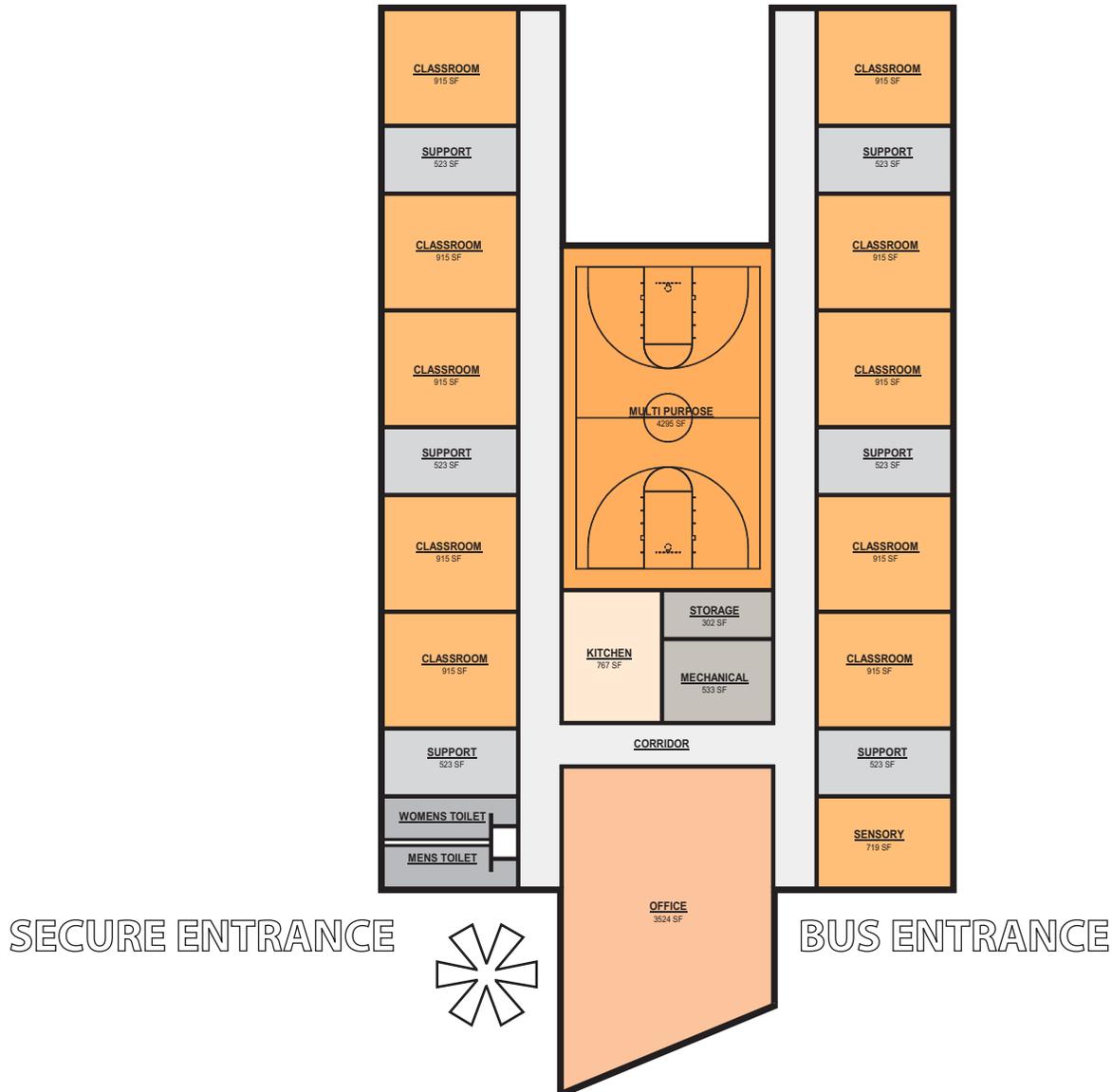
OVERALL SQUARE FOOTAGE

29,850 s.f.



PLAN DIAGRAM

WINGS2.2

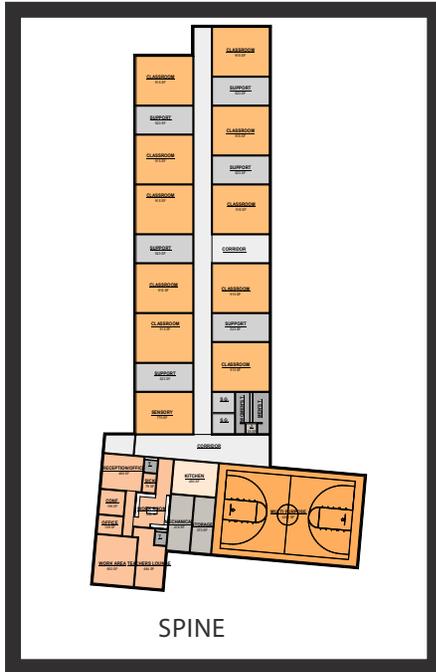


SITE CONCEPT

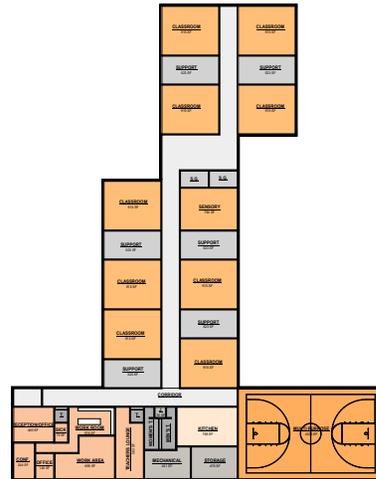
OVERALL SQUARE FOOTAGE
30,100 s.f.

PLAN DIAGRAM

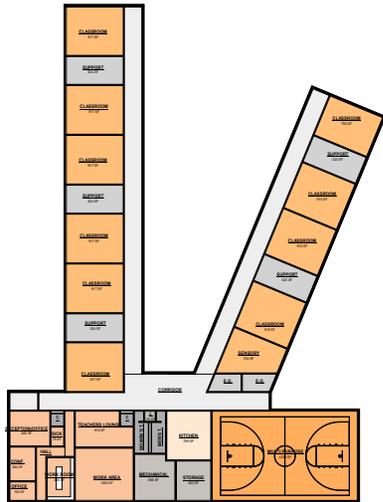
CONCEPT SUMMARY



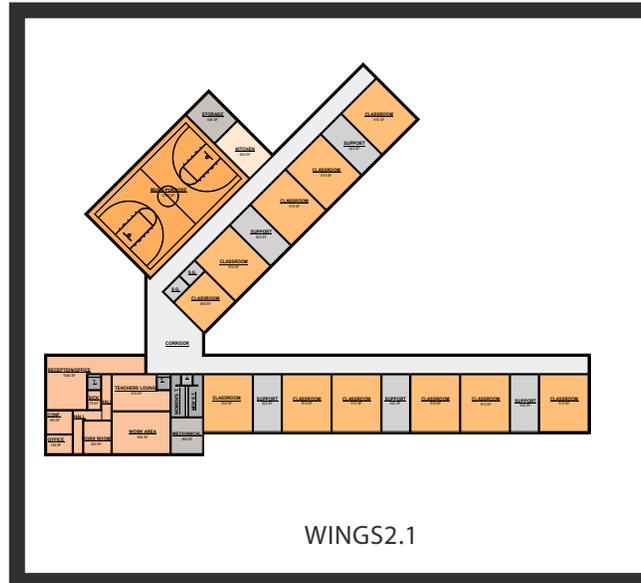
SPINE



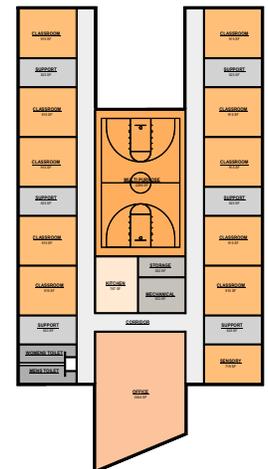
BLOCKS



WINGS



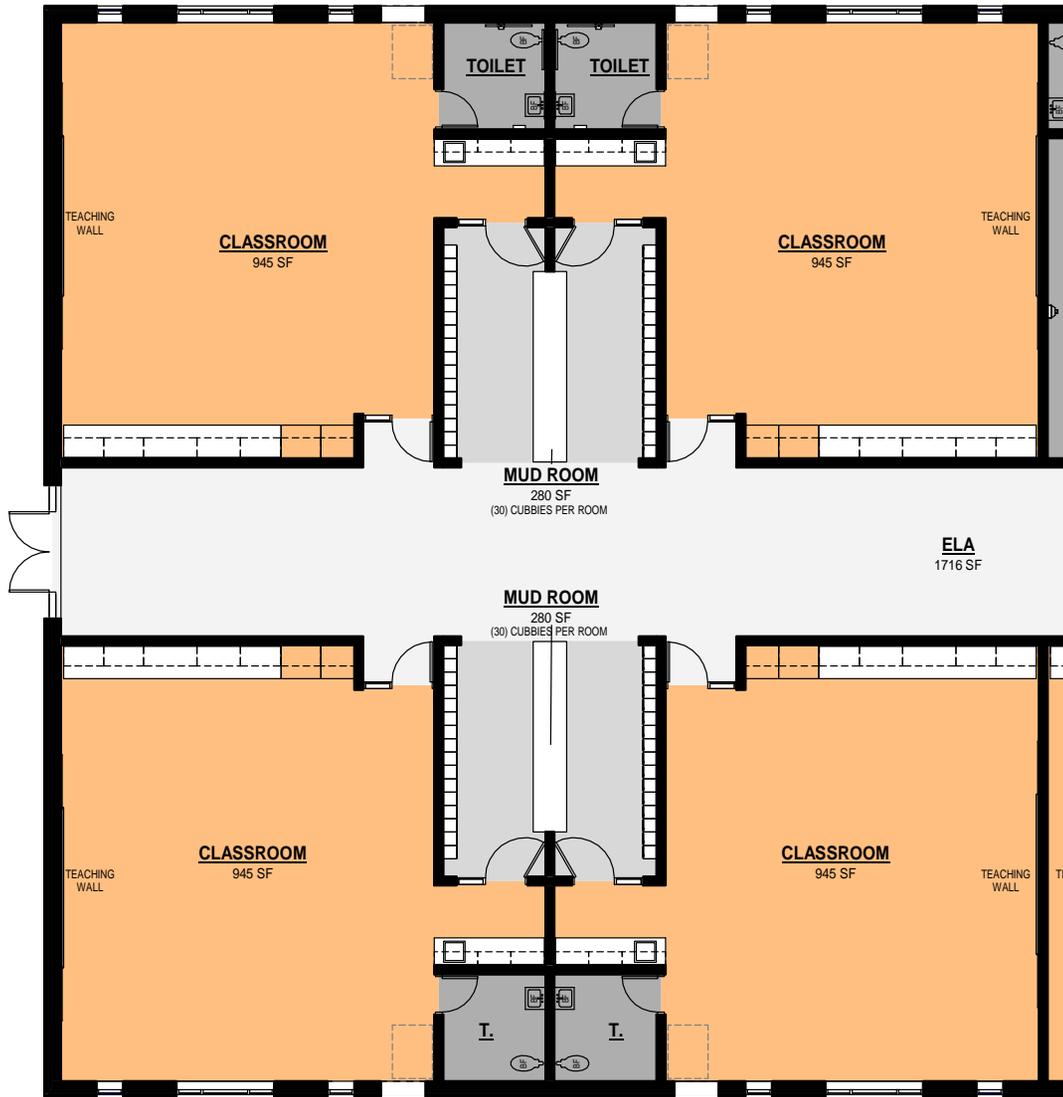
WINGS2.1



WINGS2.2

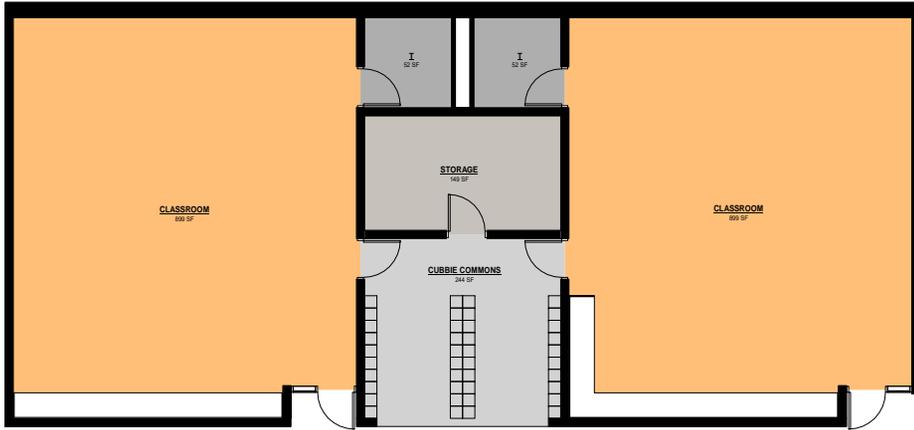
CLASSROOM DIAGRAM

MC FALL ELEMENTARY

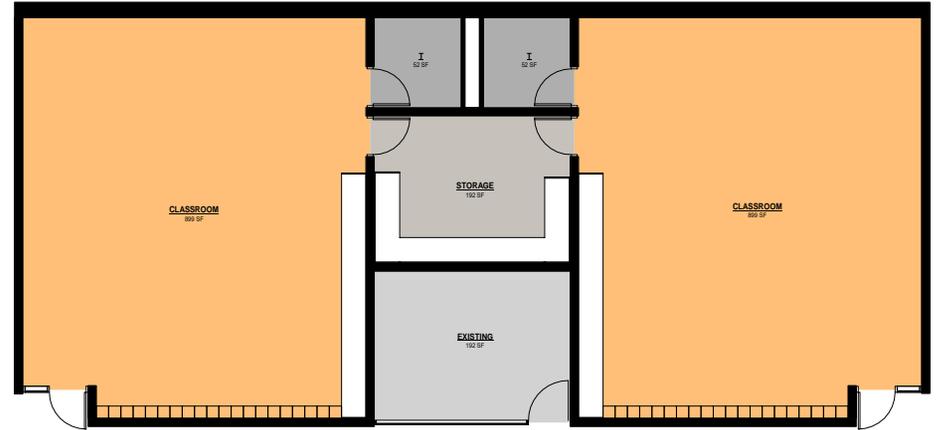


PLAN DIAGRAM

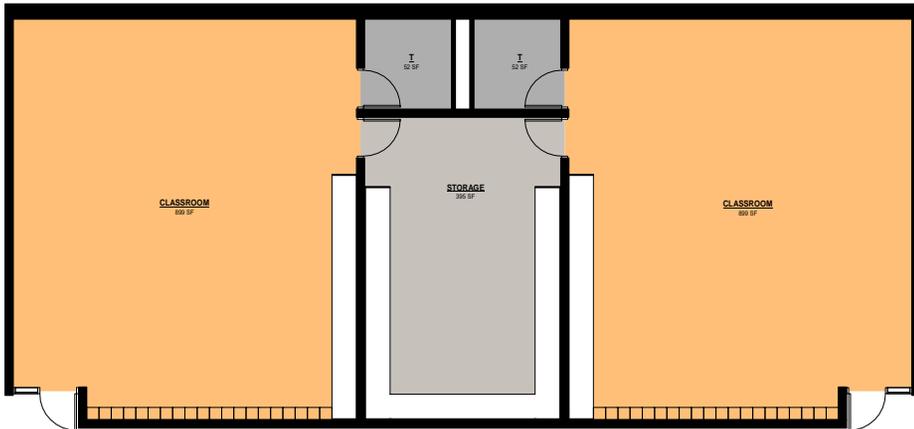
CLASSROOM MODULES



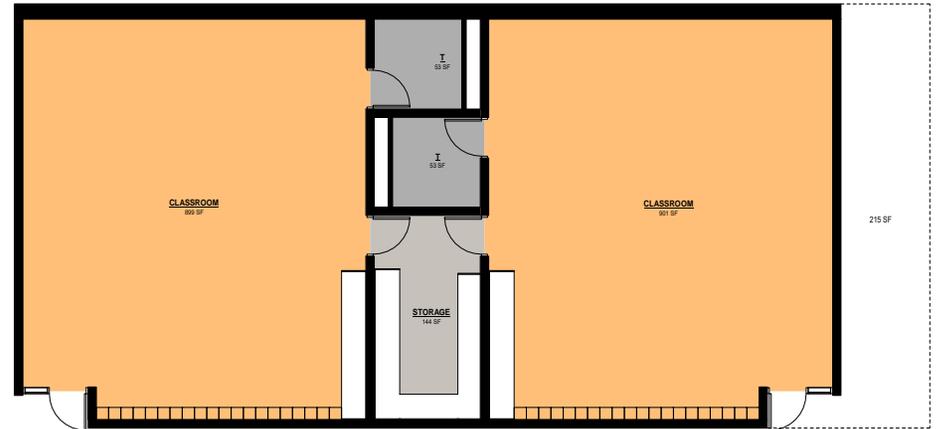
Option 01



Option 02



Option 03



Option 04

FLOOR PLAN

08.13.2020 - REV1



OVERALL SQUARE FOOTAGE
28,800 s.f.

FLOOR PLAN

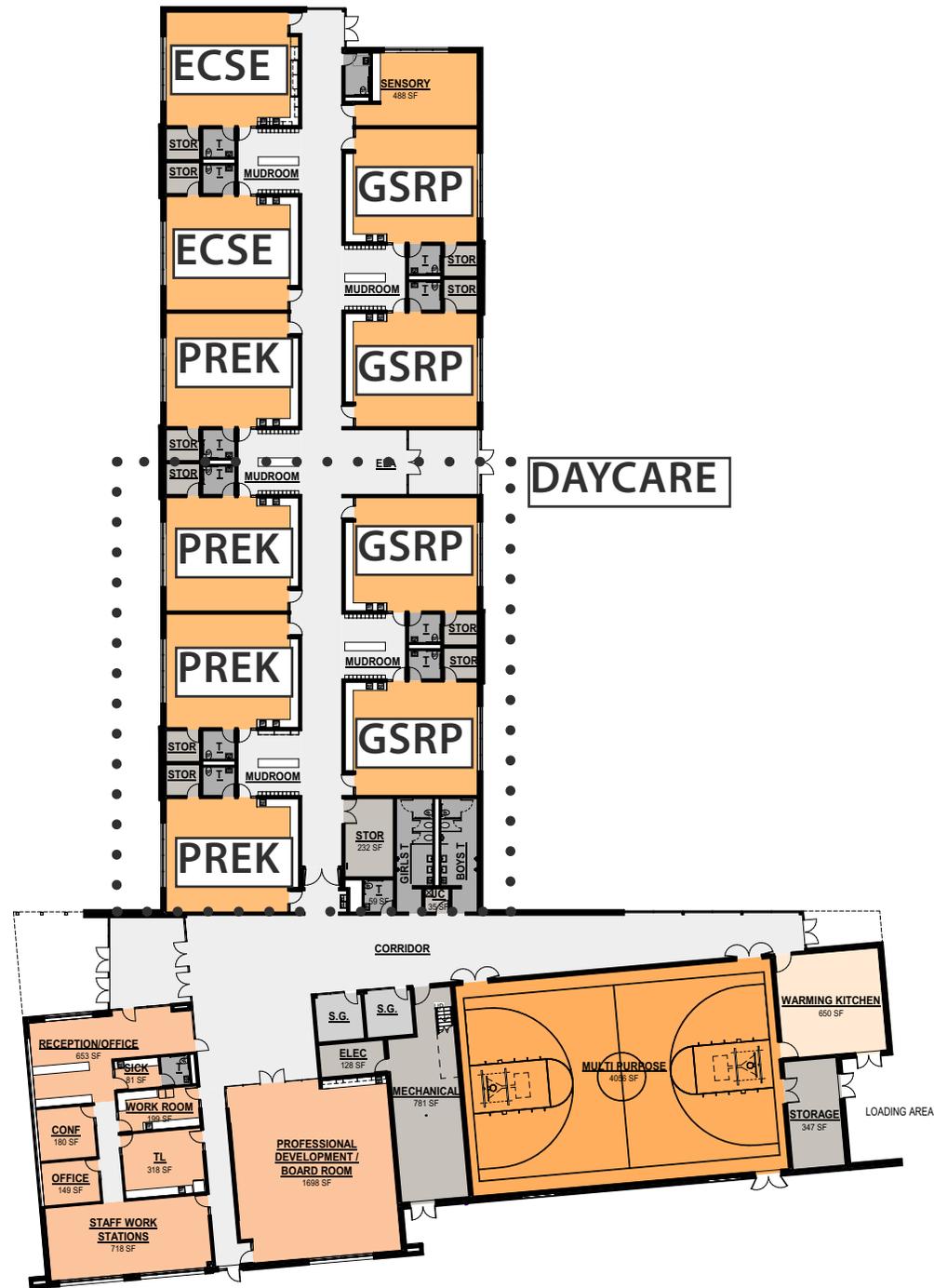
08.13.2020 - REV2



OVERALL SQUARE FOOTAGE
31,650 s.f.

FLOOR PLAN

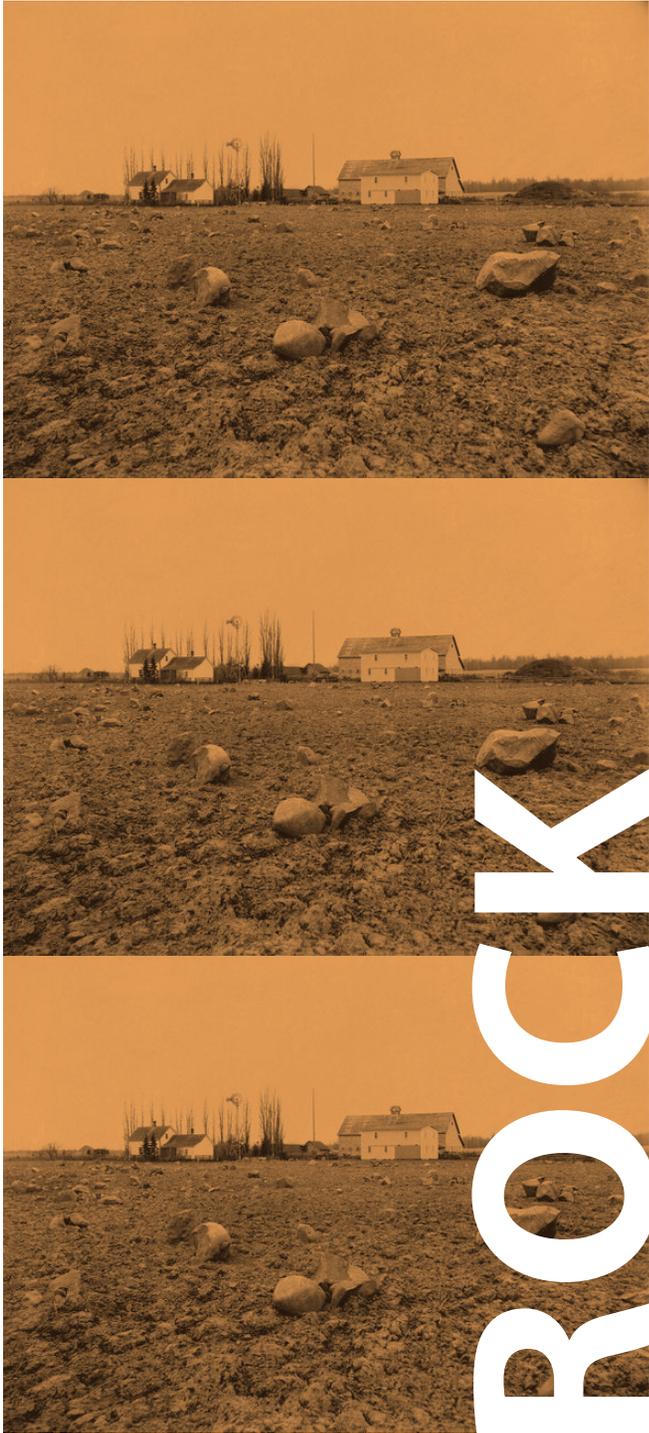
CLASSROOM IDENTIFICATION





EXTERIOR MASSING CONCEPTS

(08.13.2020)



EXTERIOR CONCEPT

ROCK



VIEW: BENDER ROAD

EXTERIOR CONCEPT

ROCK



VIEW: ENTRY 01

EXTERIOR CONCEPT

ROCK



VIEW: ENTRY 02

EXTERIOR CONCEPT

ROCK



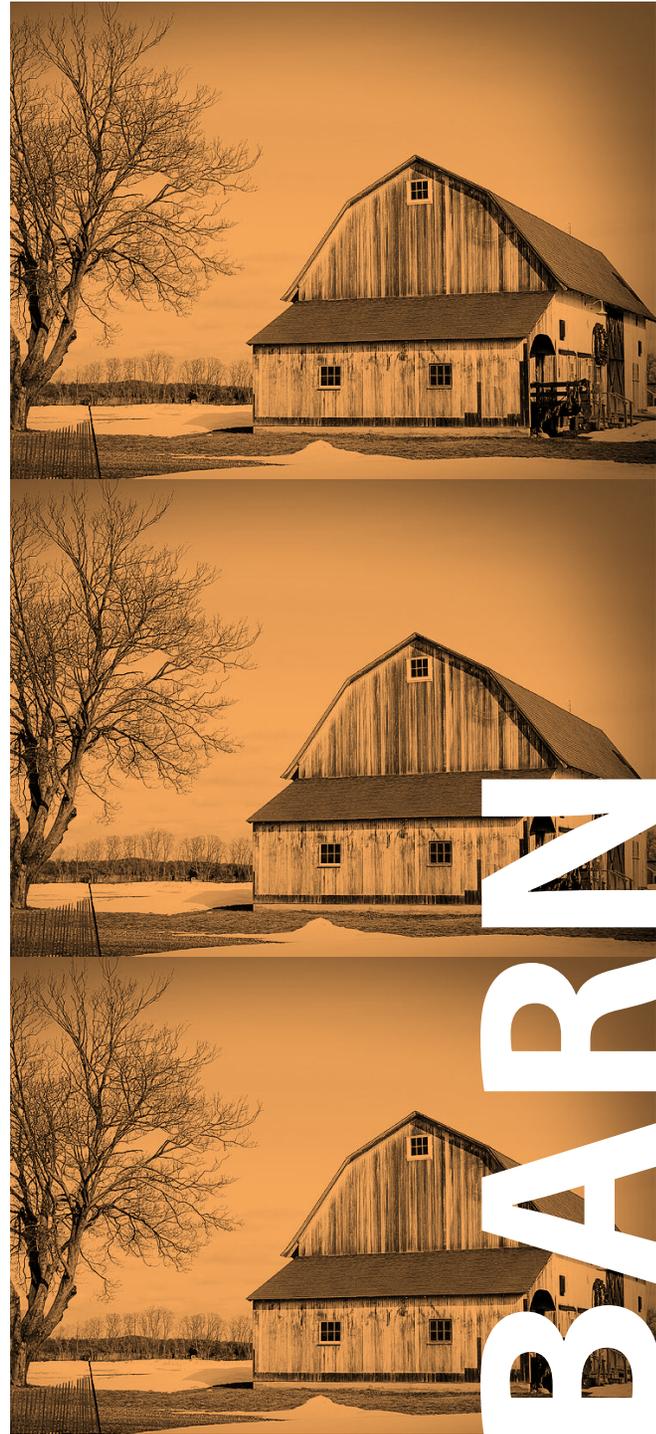
VIEW: CLASSROOM

EXTERIOR CONCEPT

ROCK



VIEW: GYM/MULTI-PURPOSE



EXTERIOR CONCEPT

BARN



VIEW: BENDER ROAD

EXTERIOR CONCEPT

BARN



VIEW: ENTRY 01

EXTERIOR CONCEPT

BARN



VIEW: ENTRY 02

EXTERIOR CONCEPT

BARN



VIEW: CLASSROOM

EXTERIOR CONCEPT

BARN



VIEW: GYM/MULTI-PURPOSE



Owen
Ames
Kimball

GMB

EXTERIOR CONCEPT

SILO



VIEW: BENDER ROAD

EXTERIOR CONCEPT

SILO



VIEW: ENTRY 01

EXTERIOR CONCEPT

SILO



VIEW: ENTRY 02

EXTERIOR CONCEPT

SILO



VIEW: CLASSROOM

EXTERIOR CONCEPT

SILO



VIEW: GYM/MULTI-PURPOSE

EXTERIOR MASSING

CONCEPT SUMMARY



Preferred Classroom

- + light into corridors
- + secure entry design
- + natural light into work room/ board room

- no light into corridor or cubbie space
- shingle roof is not as dynamic



Preferred Admin Office

- + Single slope office roof line





EXTERIOR MASSING CONCEPTS

(10.05.2020)

EXTERIOR CONCEPT

ROCK



VIEW: BENDER ROAD

EXTERIOR CONCEPT

ROCK



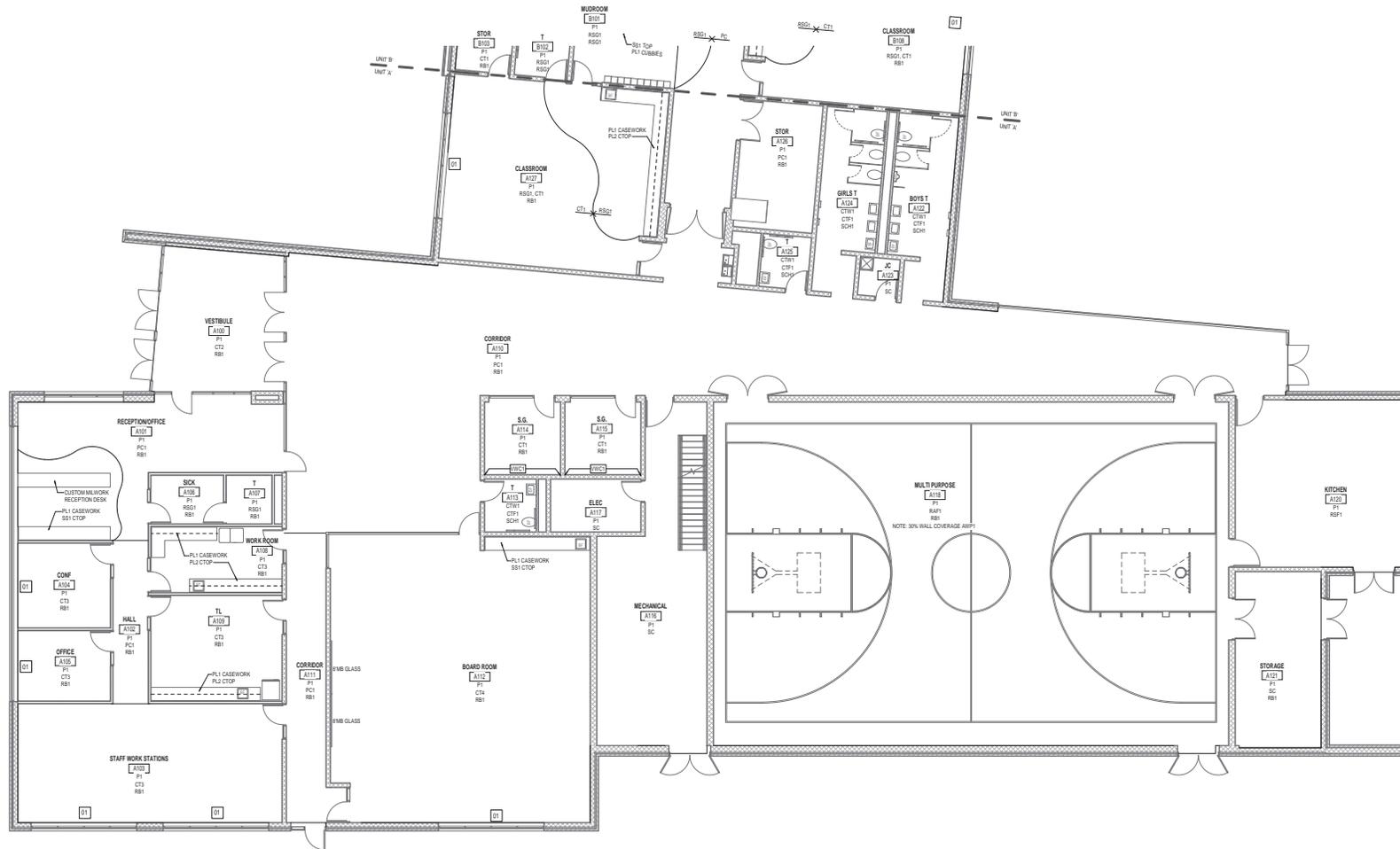
VIEW: ENTRY 01



INTERIOR FINISHES
(10.05.2020)

INTERIOR FINISHES

MATERIALITY



VESTIBULE: *Walk- Off Carpet*

CORRIDOR: *Rubber*

RECEPTION: *Rubber/ Carpet*

SICK/ TOILET: *Rubber*

CONF, OFFICE, LOUNGE & WORK: *Carpet*

BOARD ROOM: *Carpet*

SMALL GROUP: *Carpet*

SINGLE OCC. TOILET: *Tile*

GROUP TOILET: *Rubber*

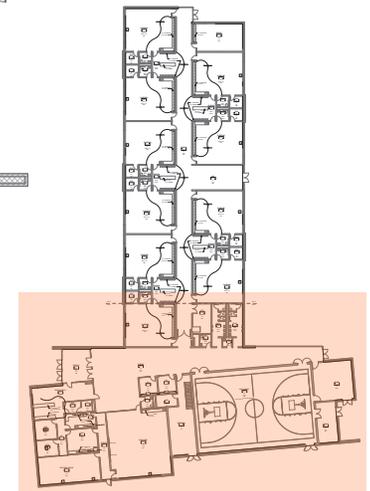
SICK/ TOILET: *Rubber*

ELEC, MECH & JC: *Sealed Concrete*

MULTIPURPOSE: *Resilient Athletic Flooring*

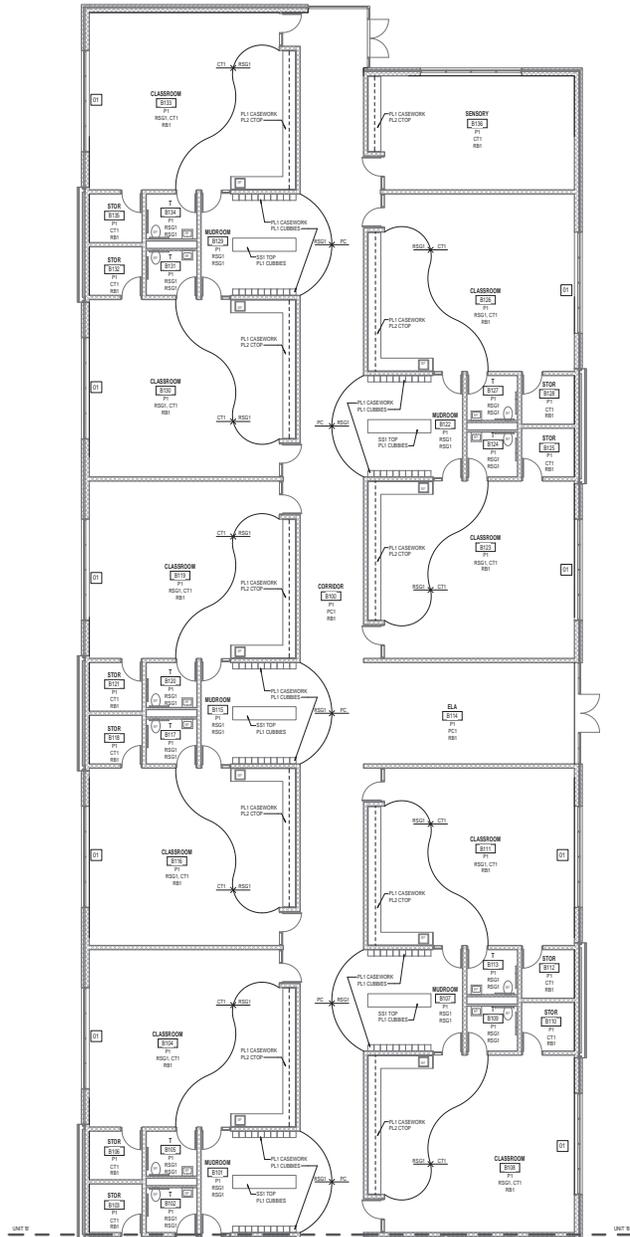
KITCHEN: *Resilient Sheet*

STORAGE: *Sealed Concrete*

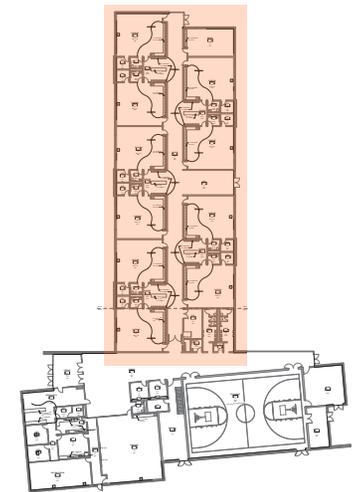


INTERIOR FINISHES

MATERIALITY



- CORRIDOR:** Rubber
- ELA:** Walk-Off Carpet
- MUD ROOM:** Rubber
- CLASSROOM:** 1/3 Rubber - 2/3 Carpet
- CLASSROOM TOILET ROOM:** Rubber
- STORAGE:** Carpet
- SENSORY:** Rubber



INTERIOR CONCEPT

ENTRY CORRIDOR



INTERIOR CONCEPT

BOARD ROOM



INTERIOR CONCEPT

CLASSROOM CORRIDOR



INTERIOR CONCEPT

CLASSROOM CORRIDOR



INTERIOR CONCEPT

CLASSROOM CASEWORK

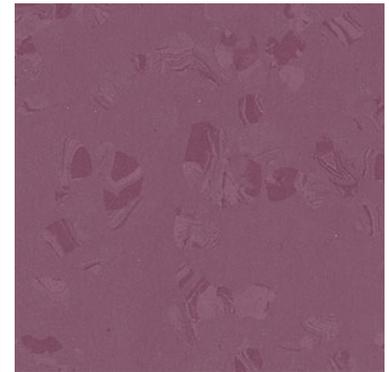
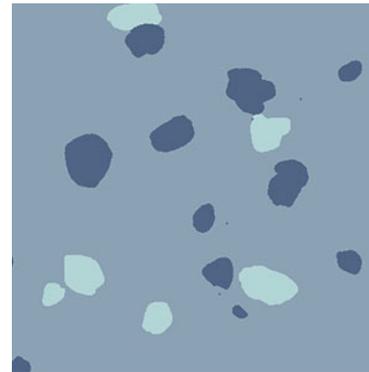
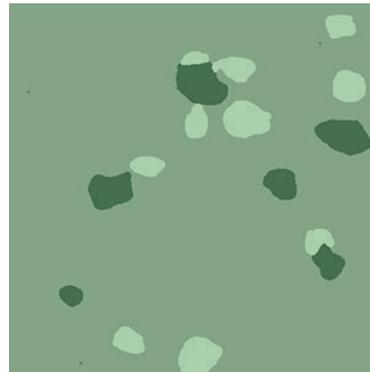
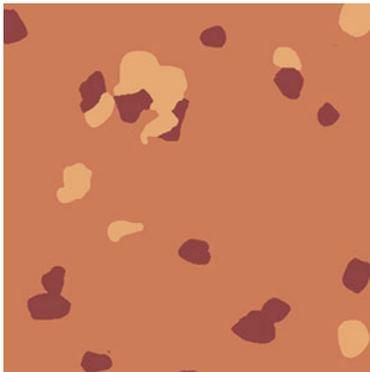
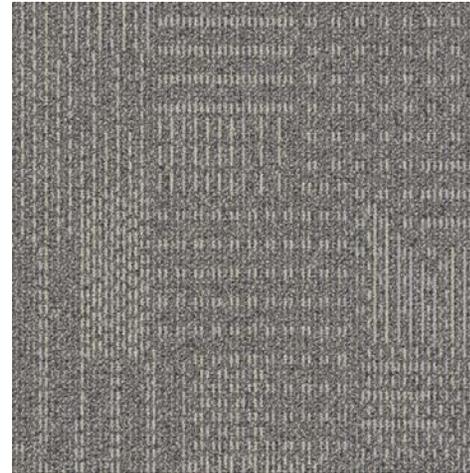
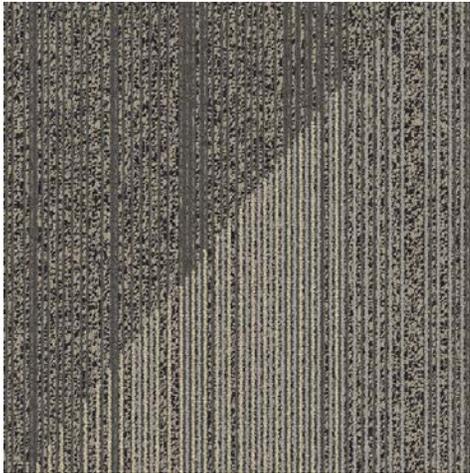




INTERIOR FINISHES

INTERIOR FINISHES

CLASSROOM



INTERIOR FINISHES

MUDROOM

