

A PLAYFUL APPROACH

DESIGNING OUR FUTURES THROUGH PLAYING AND LEARNING

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CONCEPT

STEM abbreviated Science, Technology, Engineering and Math is an innovative approach to modern day challenges. It encourages students to take an interest in competitive fields that will have a long term impact on the future of our global society. These fields require high-skilled, technologically advanced workers. This is why there has been a new push to incorporate designers and artists who have also had an assortment of modern day achievements into a new segment known as STEAM. Art and Design are transforming our 21st century approach to driving innovation just as science and technology did in the last century. This field is growing and expanding to be incorporated in all major fields. This is why it is imperative to draw in the younger generation now more than ever. We hope to promote the program to students in central NY by incorporating art, design, and learning into their everyday school activities.

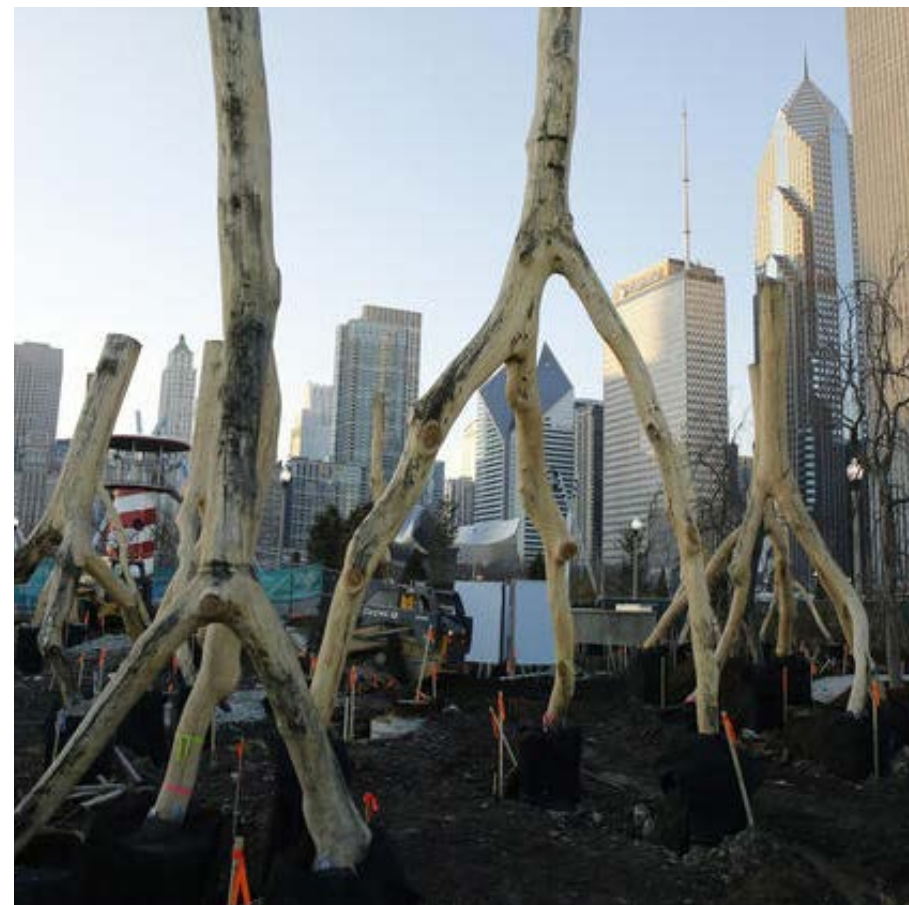
Problems

There are many challenges facing the children of this generation. These include growing up too quickly, violence in schools, materialism, obesity, attention disorders and educational disparity. These challenges cause significant health burdens in adulthood that is independent of adult-level risk factors. We want to face these challenges head on with our new interactive way of learning and becoming physically involved.

Precedents



Manassas Park Elementary School, Manassas Park, Virginia



Maggie Daley Park, Chicago



Ice skating ribbon, Maggie Daley Park, Chicago



Submersible trampoline, school of Rohrdorf, Germany



Balancing trunks, Paresen, Germany



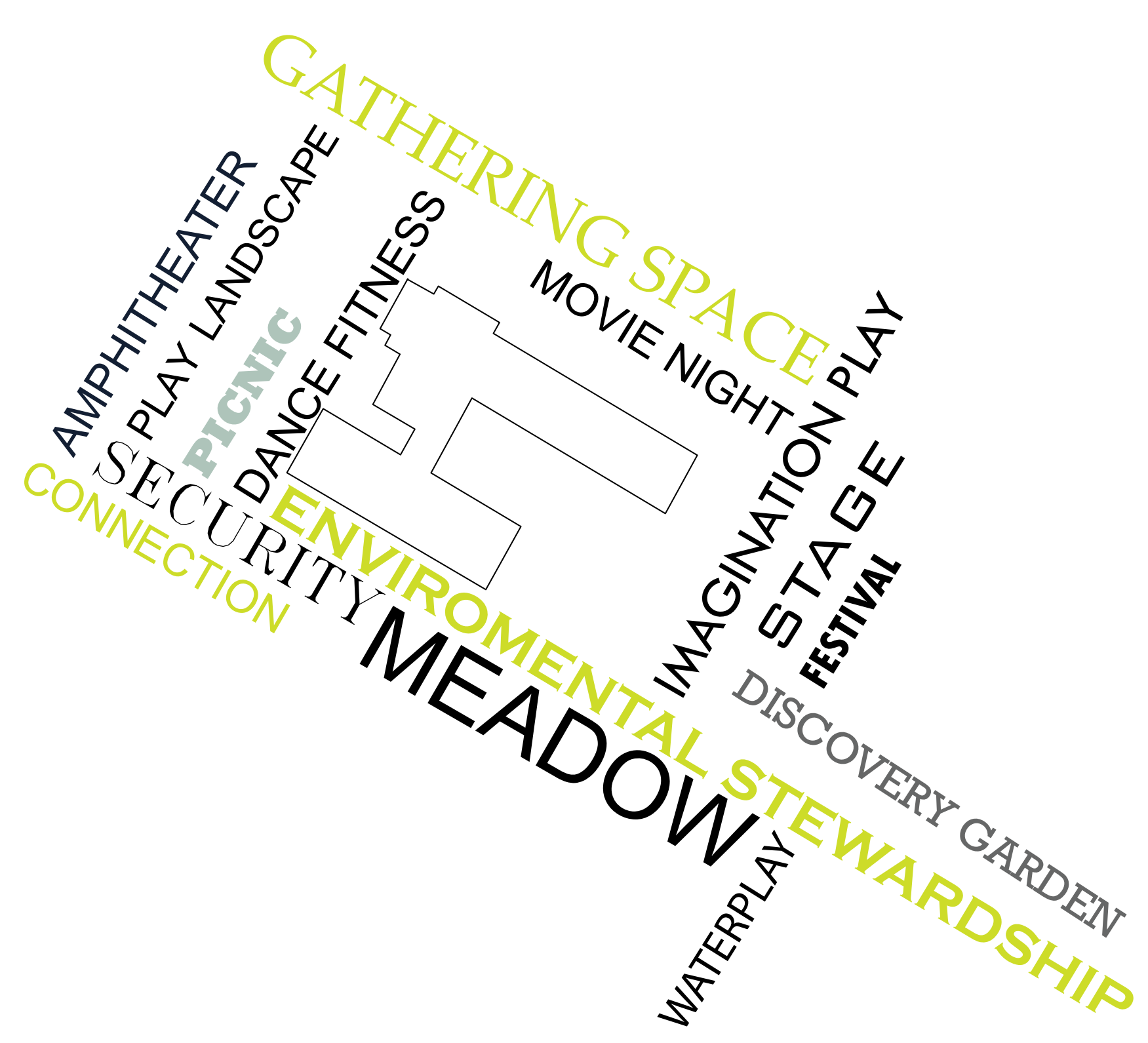
Bollard jumping on the "Eco Trully", Lluta Valley, Chile



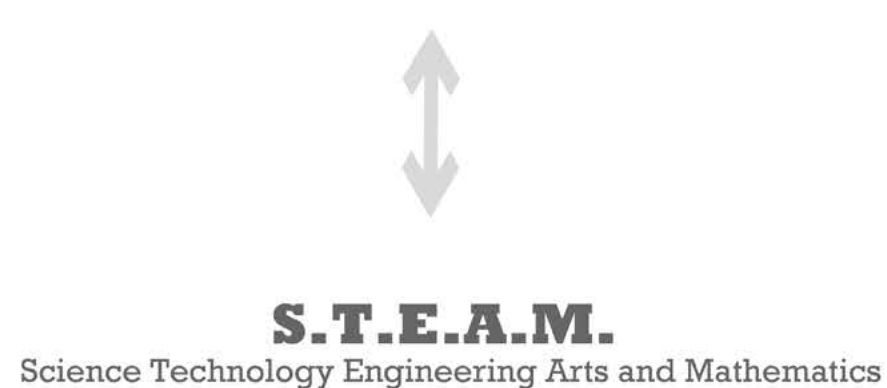
Portable/inflatable planetarium by The Peterborough Planetarium, Ontario, Canada



Maggie Daley Park, Chicago



Active Learning



UNIVERSAL DESIGN

U.S. STANDARDS FOR EDUCATION

LINGUISTIC NATURALIST
LOGICAL-MATHEMATICAL
INTRAPERSONAL SPATIAL
MUSICAL INTERPERSONAL
BODILY-KINESTHETIC
8 types of intelligence

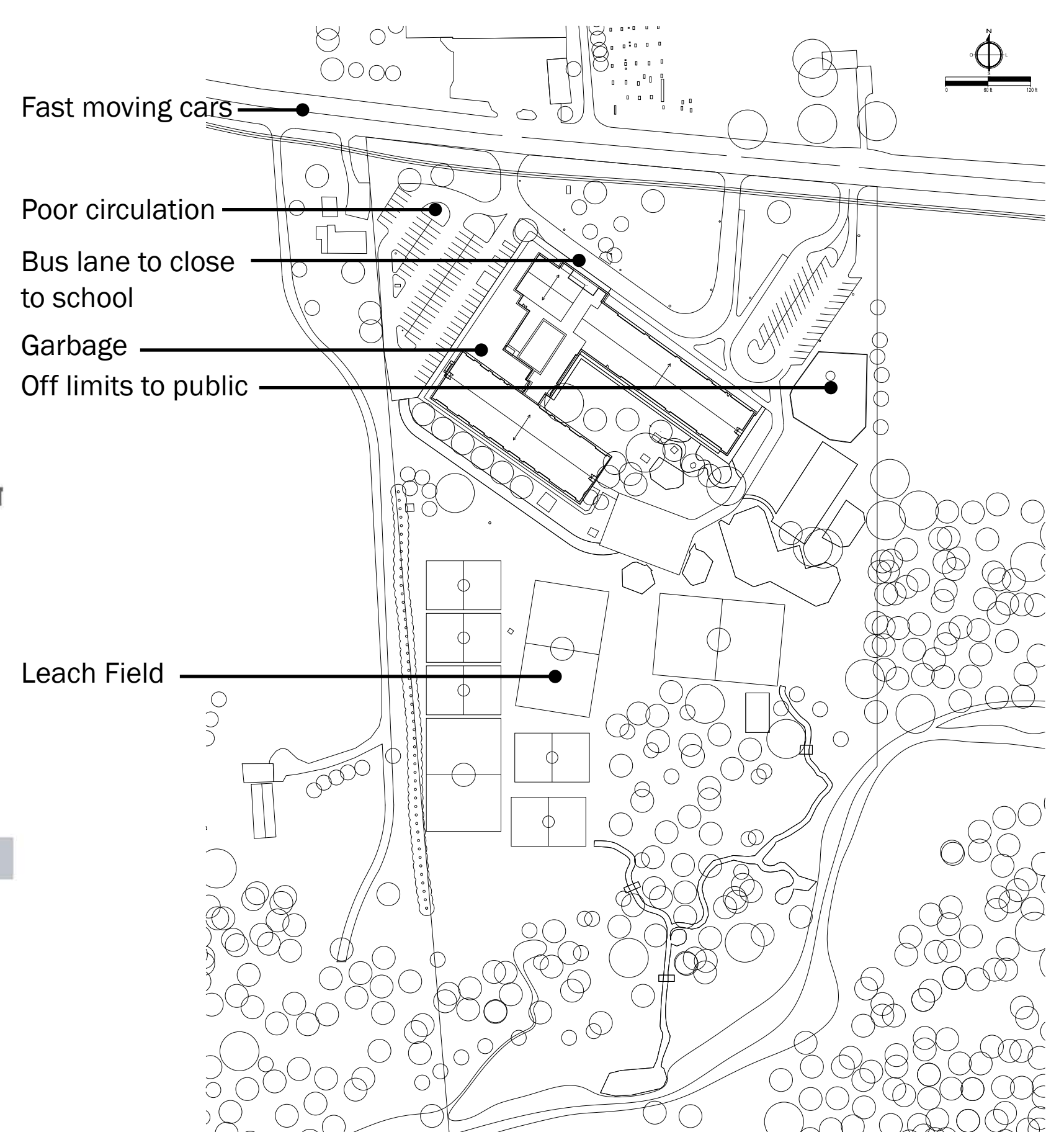
ANALYSTS EXPLORERS
DIPLOMATS SENTINELS
16 personalities

PUSH WEATHER FORCE FULL NATURE HABITATS LIFE
LIGHT SPACE HEREDITY ANIMALS PLANTS DIFFERENT MATERIALS
SPECIES PLANTS PROPERTIES OF MATERIALS LANDS PLACES BODIES OF WATER
SEASONS FORCES ORGANISMS CLIMATE IMPACT EVOLUTION
MAPS MOTION ENERGY WATER CHANGES EARTH ENVIRONMENT
MATTER WEIGHT ENERGY MOVEMENTS ECOSYSTEMS SUBSTANCES ENERGY

kindergarten 1st grade 2nd grade 3rd grade 4th grade 5th grade

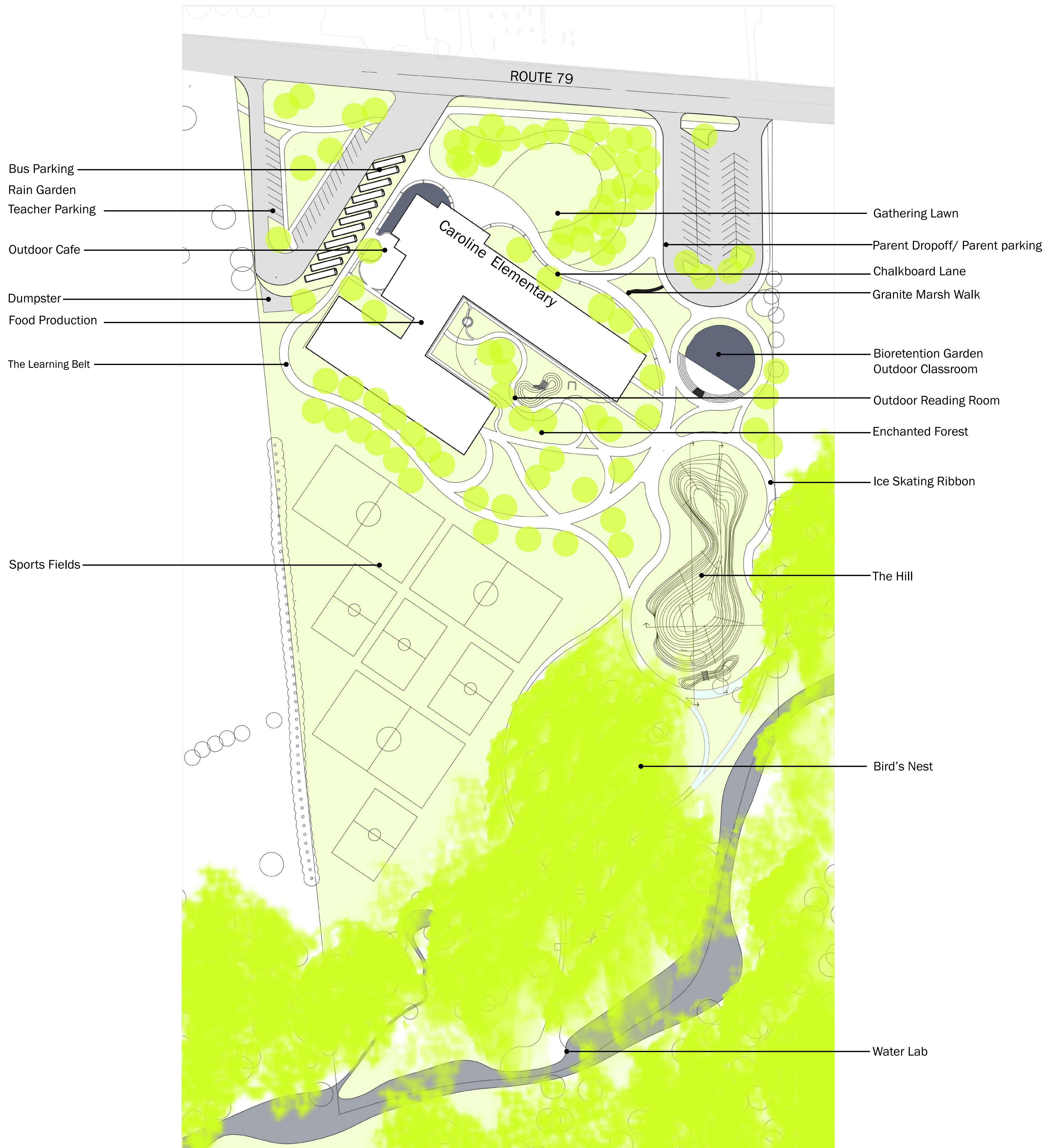
NEXT GENERATION SCIENCE STANDARDS

Current Conditions



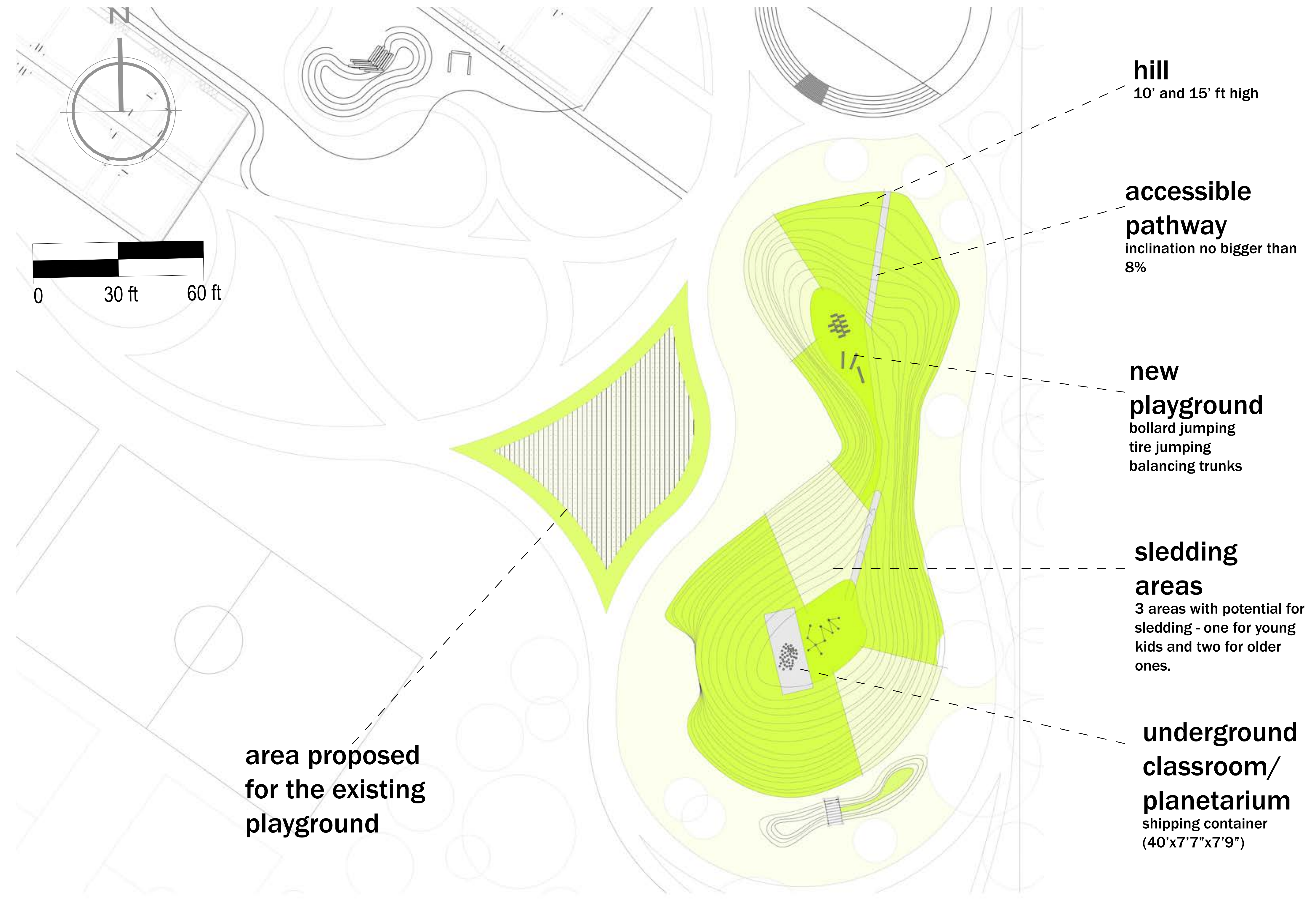
CAROLINE ELEMENTARY SCHOOL

MASTER PLAN



CAROLINE ELEMENTARY SCHOOL

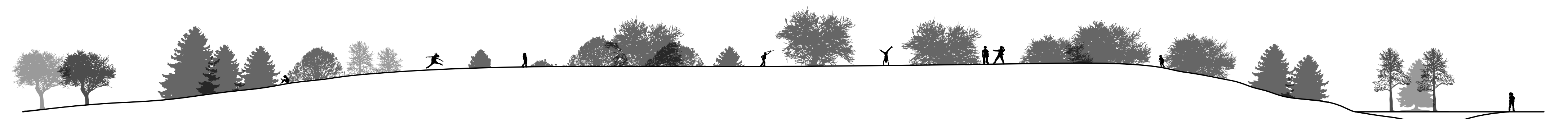
AREA 1



ITHACA SKY

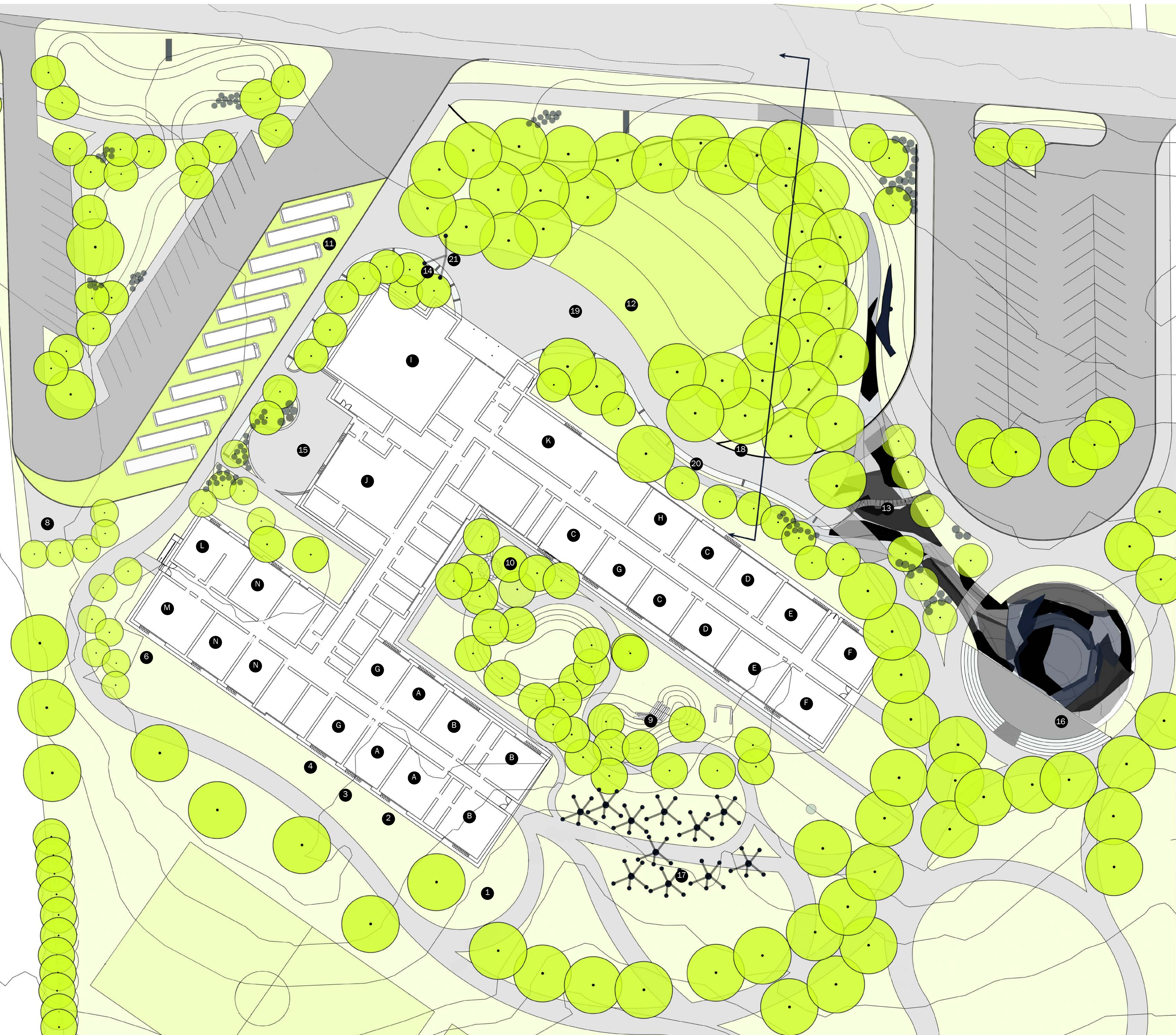
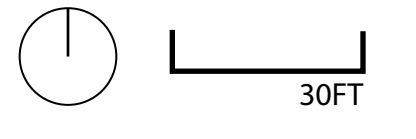


PERSPECTIVES



CAROLINE ELEMENTARY SCHOOL

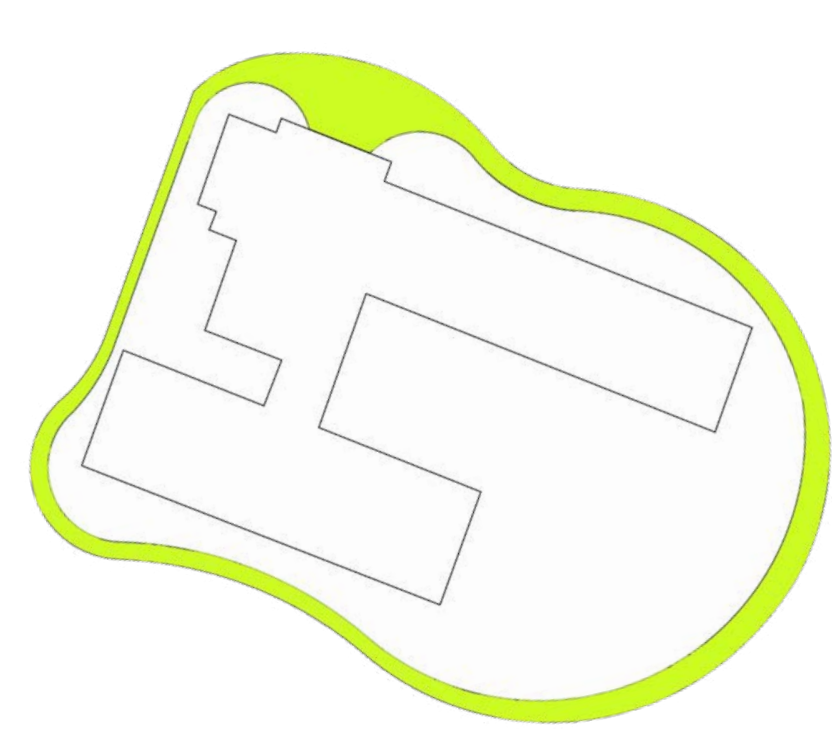
SITE SCALE PLAN



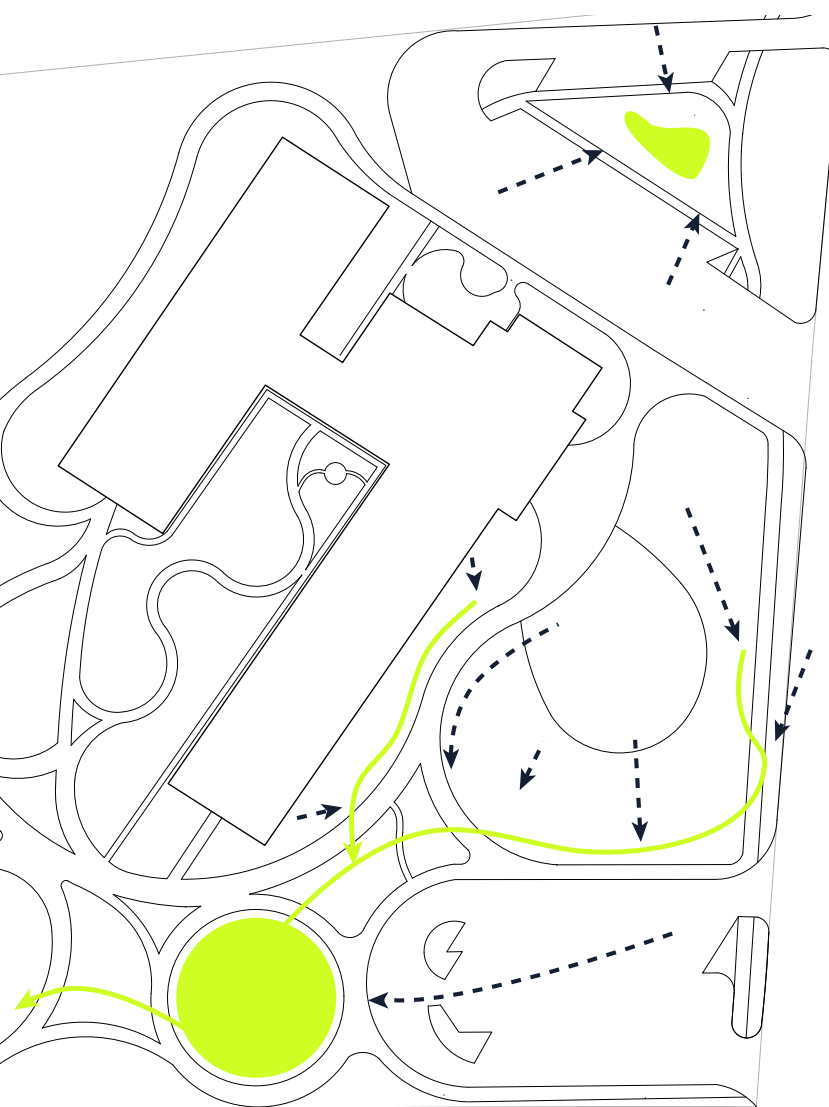
- 1. Eukaryotic Track
- 2. Bird Sanctuary
- 3. Archaeological Dig
- 4. Mammals of the World
- 5. Human Evolution (Monkeybars)
- 6. Musical adventure
- 7. Solar System Journey
- 8. Garbage Collection
- 9. Black Locust log Bleachers
- 10. Stump Circle
- 11. Pavegrass
- 12. Gathering Area
- 13. Granite Curb Walkway
- 14. Chalkboards Lane(Bluestone veneer)
- 15. Outdoor Cafe
- 16. Bioretention Garden Outdoor Classroom(constructed from black locust)
- 17. Enchanted Forest(taken from the sit)
- 18. Timber Range Fence with black locust posts
- 19. Chip n Seal Walkway
- 20. Stone Dust Buffer
- 21. Entry Sculpture

- A. Kindergarten
- B. 1st Grade
- C. 2 nd Grade
- D. 3rd Grade
- E. 4th Grade
- F. 5th Grade
- G. Special Education
- H. Computer Lab
- I. Gymnasium
- J. Cafeteria
- K. Library
- L. Art
- M. Music
- N. Pre K

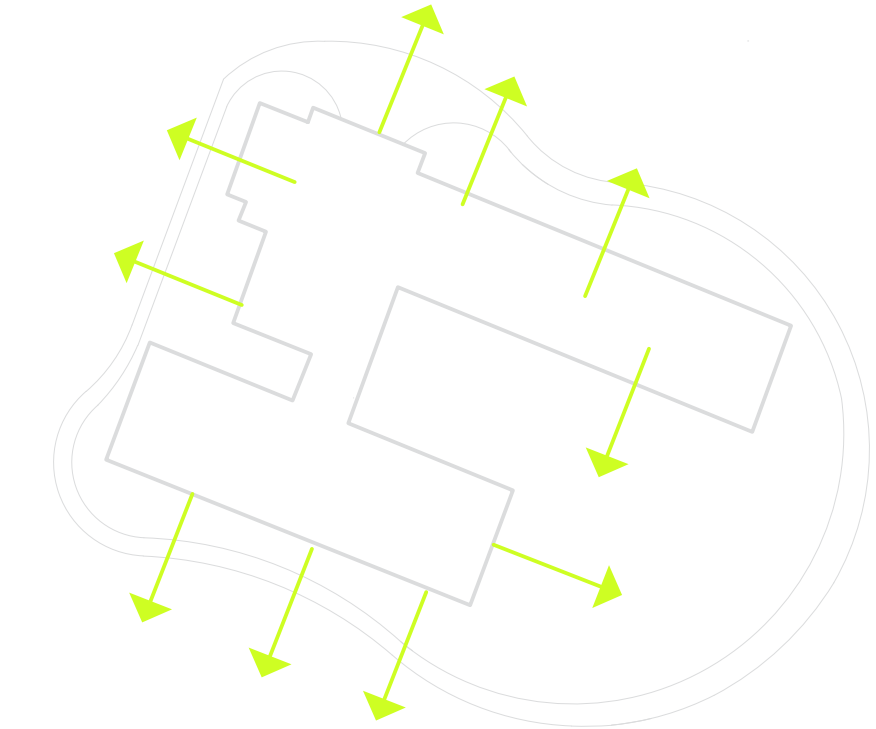
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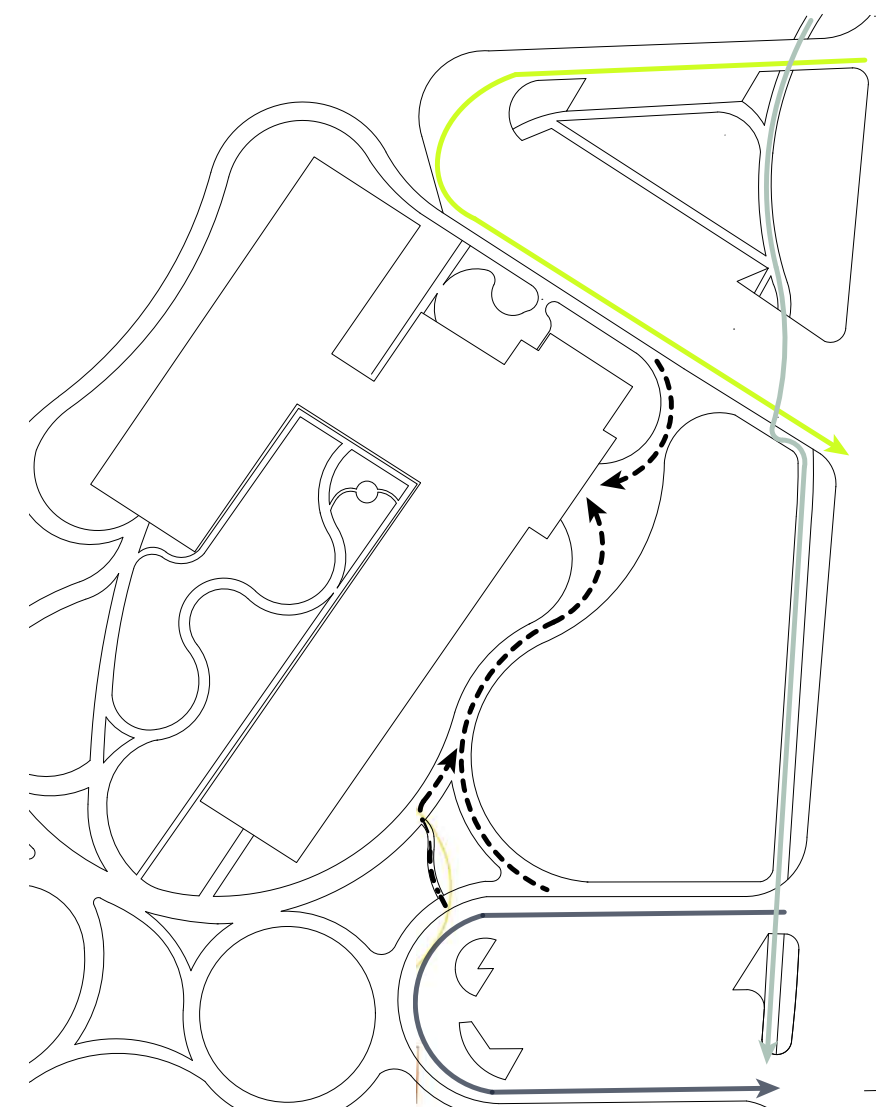
WATER MANAGEMENT



EXPANDING



CIRCULATION



THE CLASSROOM PORCH



Site Ecological Typologies

- Ornamental Gardens
- Native Woodland Gardens
- Lawns
- Meadows
- Vegetable gardens
- Freshwater Gardens

Ornamental Gardens

gorgeous plant life, both native and exotic, that's been chosen for its vibrant flowers, evergreen foliage and rich fall colors.

Freshwater Gardens

natural beauty and utility of the Freshwater Gardens, which also filter rainwater for reuse in the schools bathrooms

Native Woodland Gardens

Teaching students about habitats of habitats of commonly found plants in nearby forests.

Lawns

Are maintained organically by creating a healthy soil ecosystem.

Meadows

stretches of grass and herbaceous perennials that thrive in the sunshine and are less maintenance intensive

