

DGS - HART MIDDLE SCHOOL

COMMISSION OF FINE ARTS FINAL SUBMISSION

May 7th, 2026



PROJECT GOALS

- Improve overall school functionality, arrival experience and security
- Provide access to Gym and Auditorium near entrance
- Improve Site Security
- Provide Partner Space with dedicated entrance
- Minimize disruption to occupied school areas during construction
- Provide a resilient building and campus to mitigate current building flooding issues

CONCEPT APPROVAL LETTER

U.S. COMMISSION OF FINE ARTS

ESTABLISHED BY CONGRESS 17 MAY 1910

401 F STREET NW SUITE 312 WASHINGTON DC 20001-2728 202-504-2200 FAX 202-504-2195 WWW.CFA.GOV

27 February 2026

Dear Mr. Hunter:

In its public meeting of 19 February conducted by videoconference, the Commission of Fine Arts reviewed a concept design submission for renovations and additions to Charles Hart Middle School, located at 601 Mississippi Avenue, SE. The Commission approved the concept and provided the following comments for the development of the design.

The Commission members expressed strong support for the proposed new landscape and addition, particularly the new two-story entrance portal and amphitheater seating that would be constructed at the rear of the historic 1928 school building. Citing the civic quality of the new additions, they suggested using a similar design language for the new main entrance that would be located between the old and new buildings; they also suggested refinement of this entrance area to accommodate new public artwork. For the connecting hyphen at the rear between the addition and the existing school, they recommended using glass instead of the proposed light-colored brick. Finally, they suggested consideration of transparent panels for the new doors that would be set within the historic entrance, commenting that the proposed solid panels would give the school an unwelcoming appearance.

The Commission looks forward to further review of this project, including any public artwork, which should be submitted as a separate project. Please continue to consult with the staff which, as always, is available to assist you.

Sincerely,



Thomas E. Luebke, FAIA
Secretary

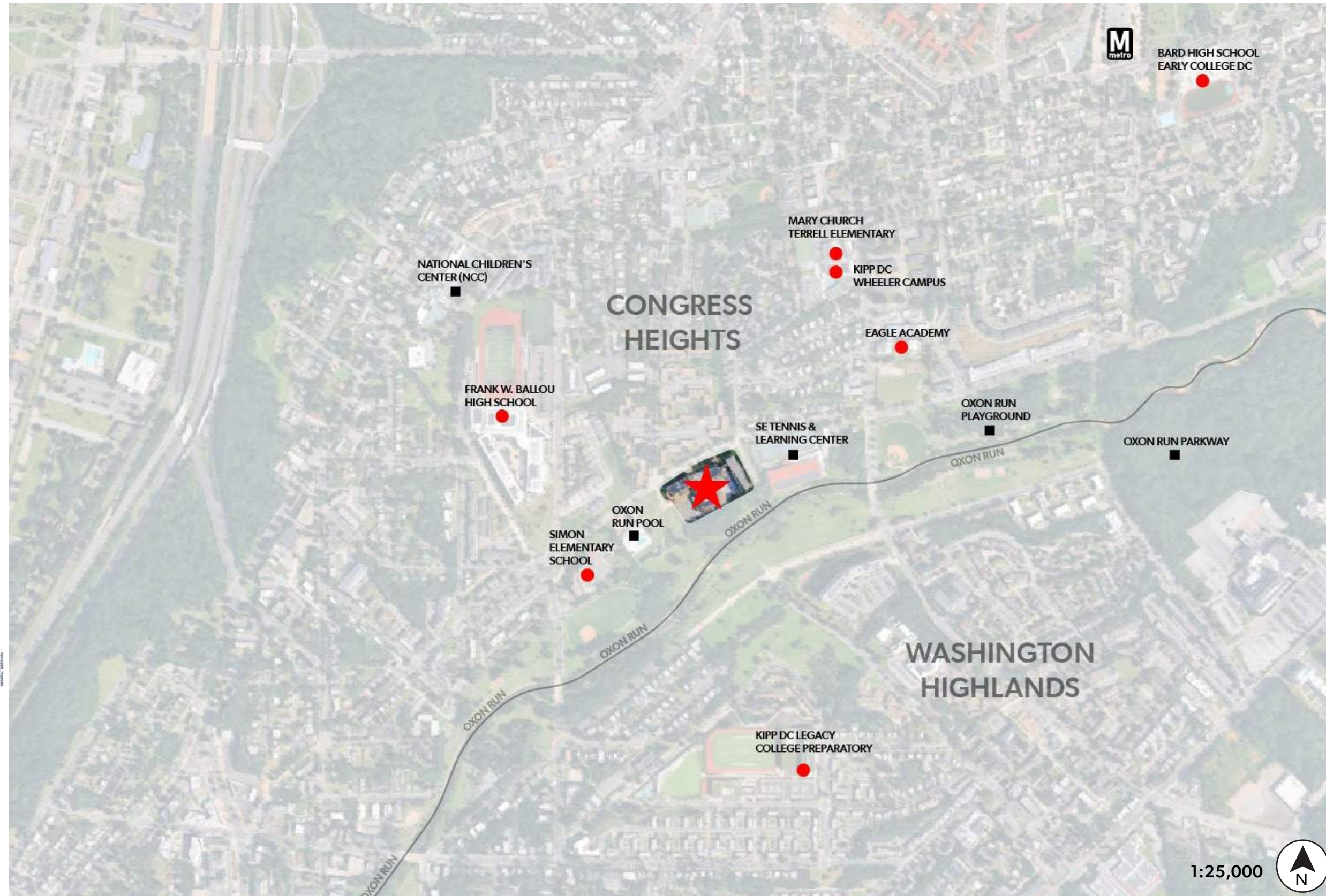
Delano Hunter, Director
D.C. Department of General Services
3924 Minnesota Avenue, NE
Washington, DC 20019

cc: Alexander DeFee, Studios Architecture
Dani Alexander, Studio AKA

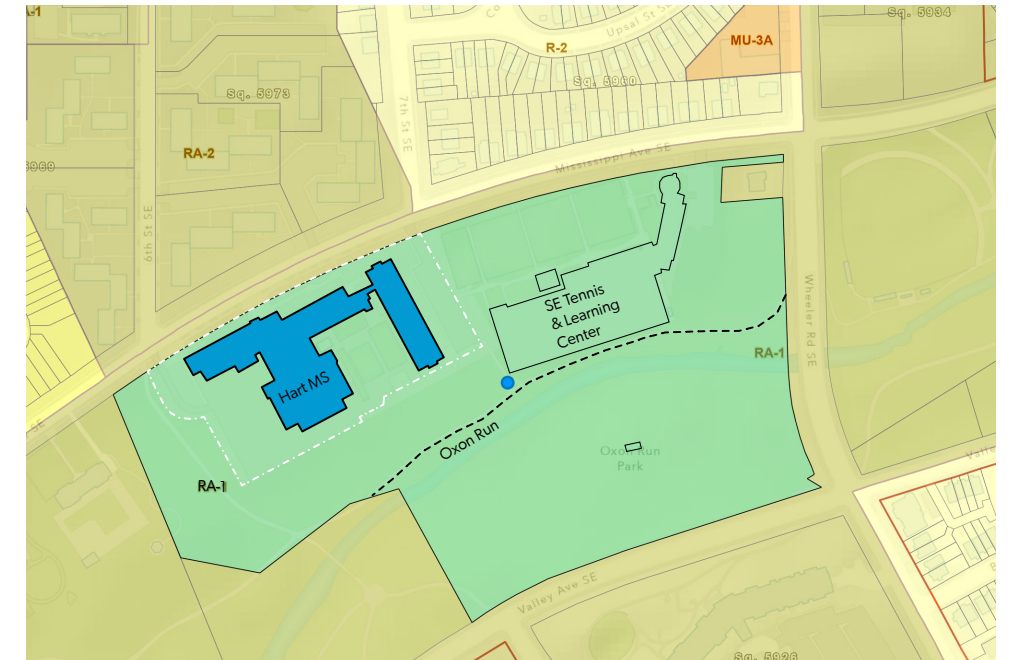
WHAT WE HEARD

- **Strong Support for New Addition's architecture and landscape shown in concept submission**
- **Complimentary of the new addition's civic quality; particularly as it faces the playing field and courtyard.**
- **Investigate bringing civic design language for Addition main entry on Mississippi Avenue.**
- **Investigate different material (glass) at the connecting hyphen at the rear between the addition and the existing school.**
- **Provide glass lights at doors at historic entrance, rather than solid doors.**

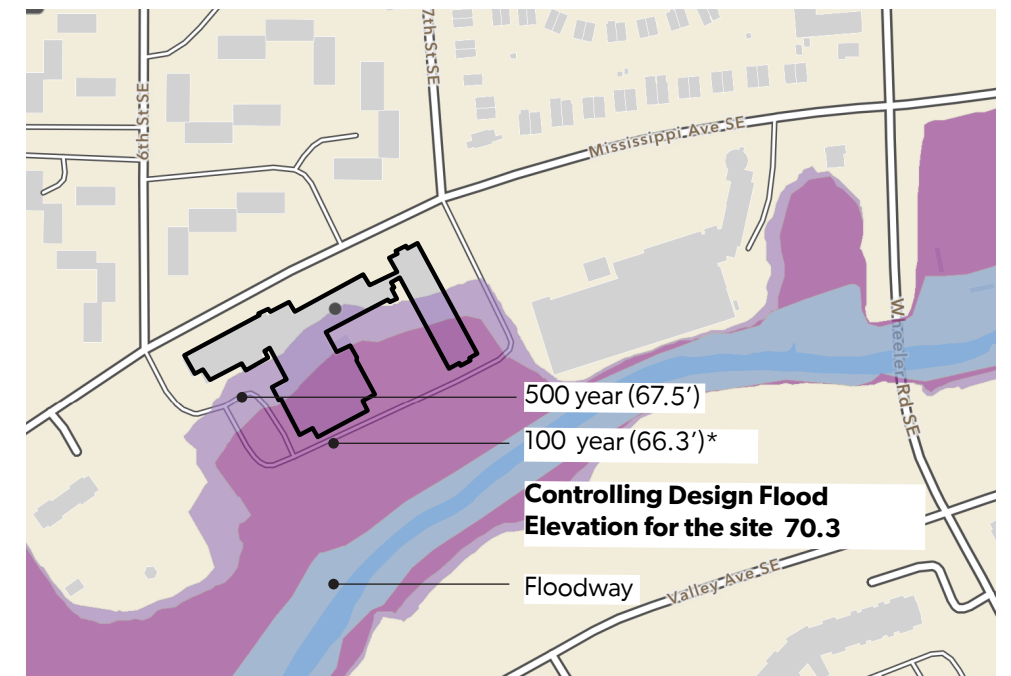
SITE



SITE PLAN



ZONING PLAN

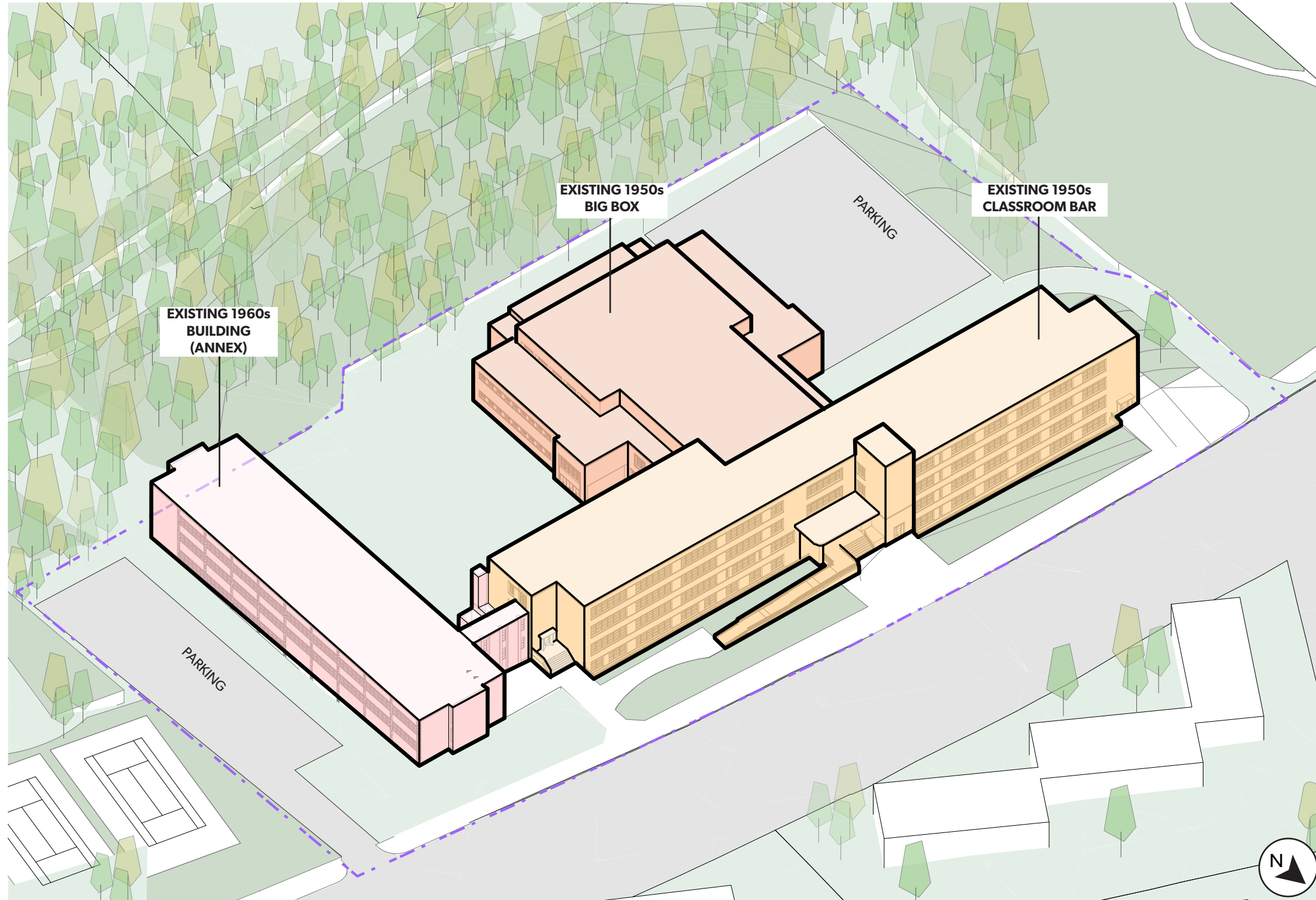


FEMA FLOOD PLAIN DIAGRAM

Note: **Controlling Design Flood Elevation** is either the 500 Year FP + 2'-0" or 100 Year FP + 4'-00", whichever is higher.

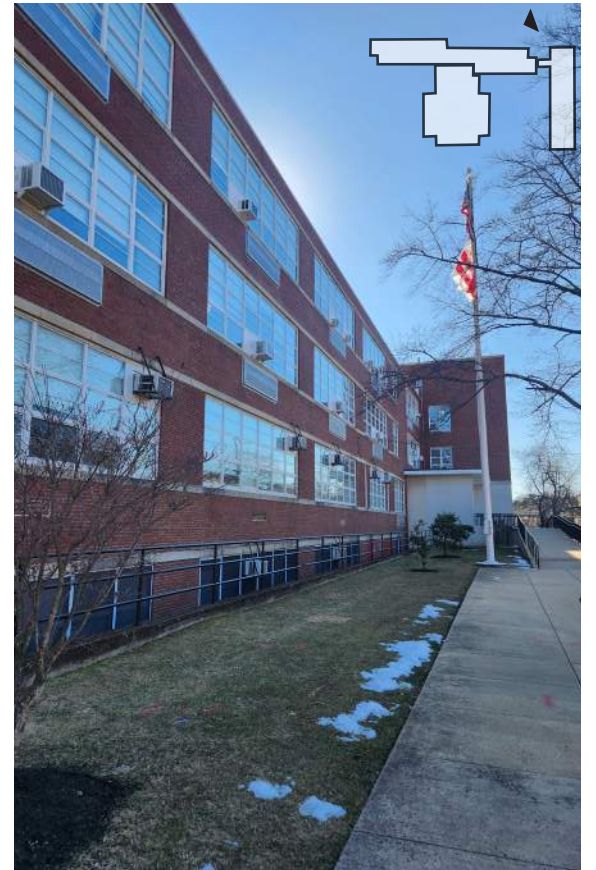
*Based on WSSI Detailed Flood Elevations

EXISTING BUILDING

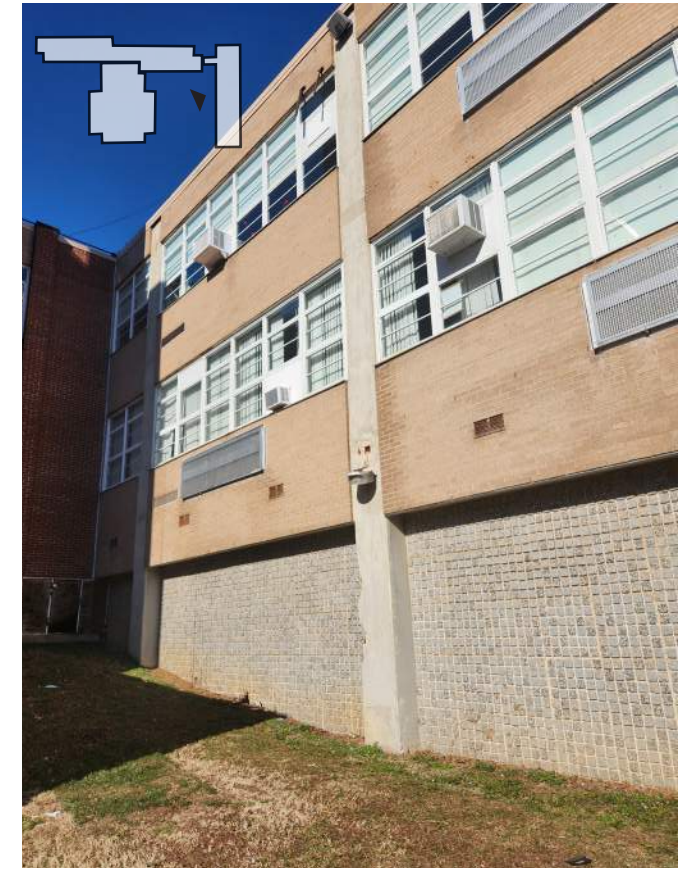


- EXISTING 1950s CLASSROOM BAR
- EXISTING 1950s BIG BOX
- EXISTING 1960s BUILDING(ANNEX)

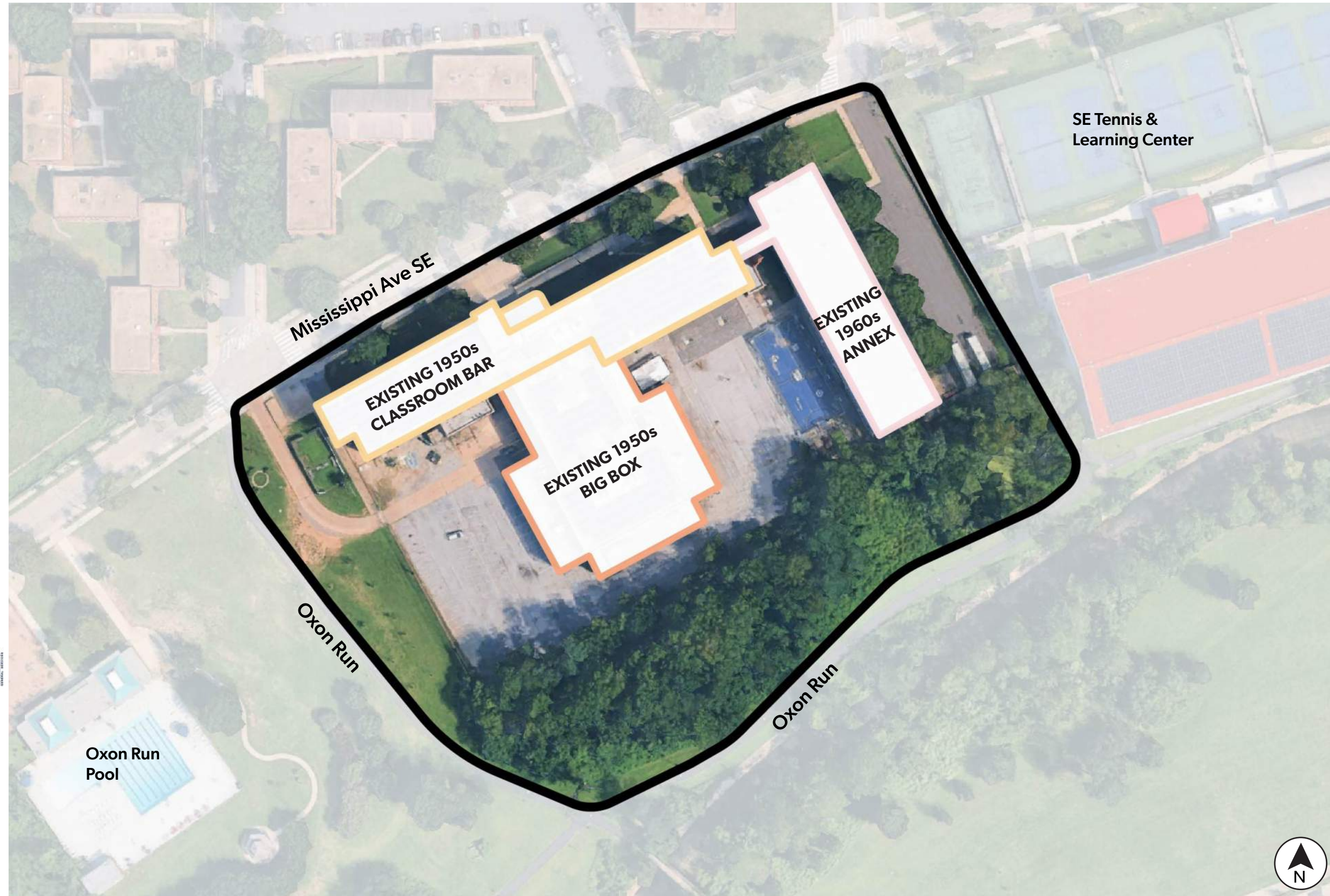
EXISTING BUILDING



EXISTING BUILDING



EXISTING PART I



- EXISTING 1950s CLASSROOM BAR
- EXISTING 1950s BIG BOX
- EXISTING 1960s BUILDING(ANNEX)

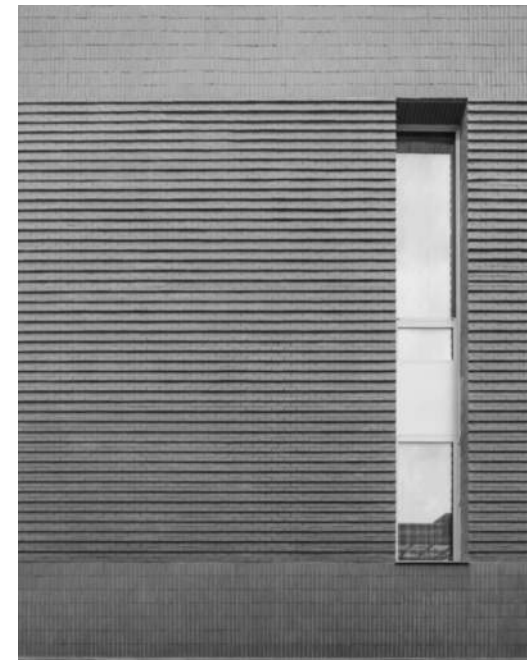
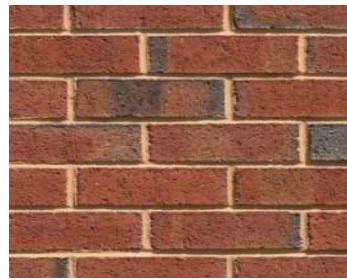
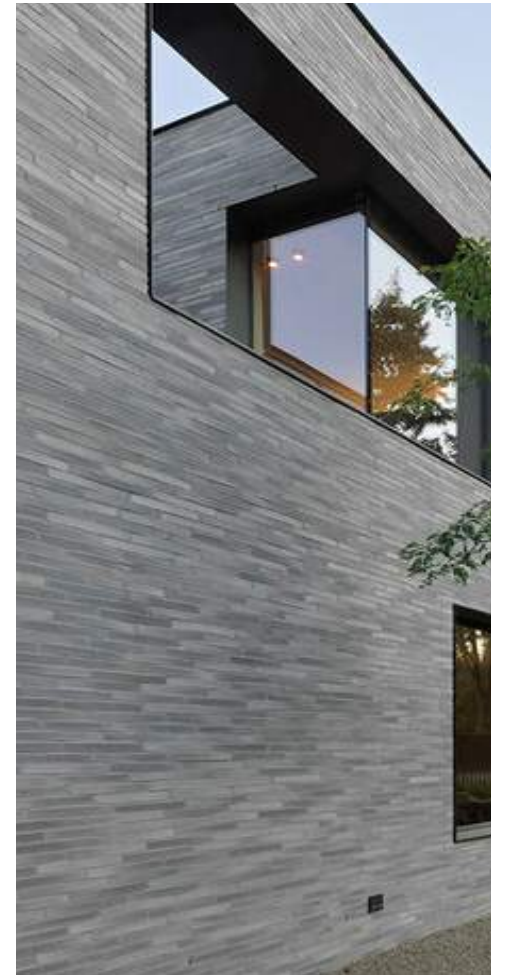
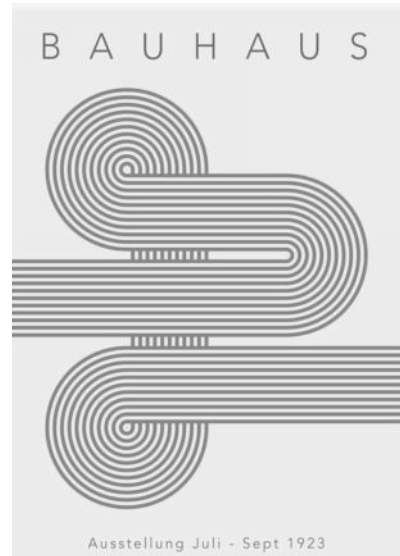
PROPOSED PART I



- EXISTING 1950s CLASSROOM BAR
- NEW ADDITION
- EXTERIOR PROGRAMMING



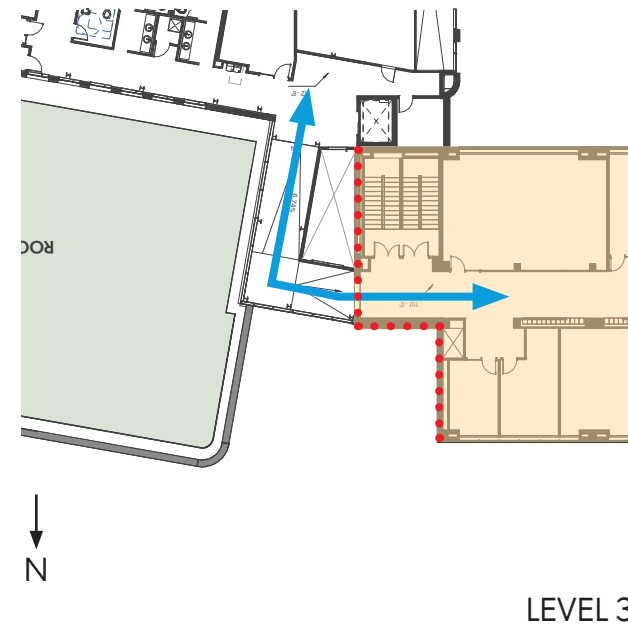
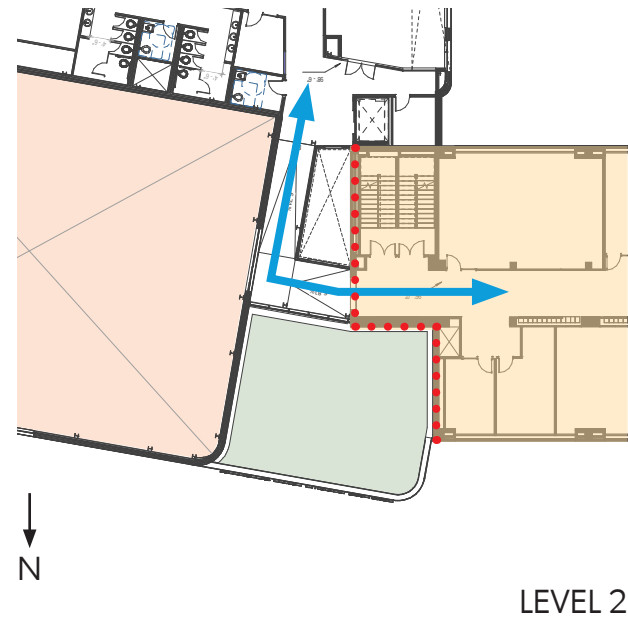
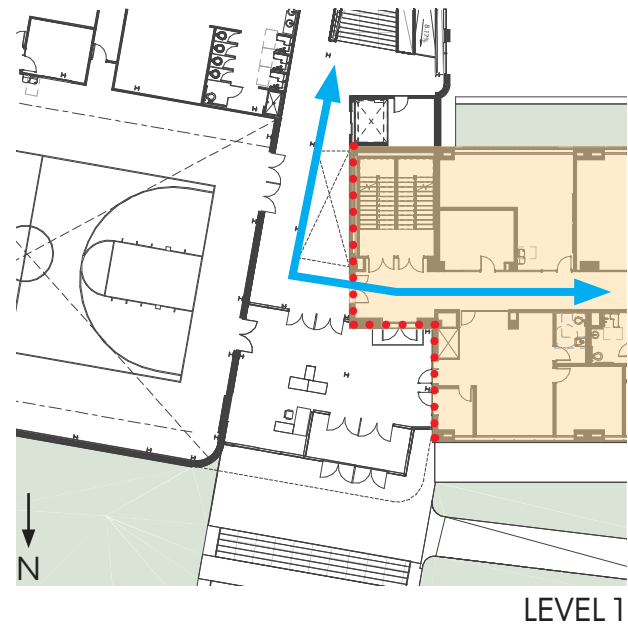
PROPOSED EXTERIOR LOOK & FEEL



NORTH ELEVATION & MAIN ENTRANCE - APPROVED CONCEPT DESIGN - February 2026 - CFA3570



NORTH ELEVATION & MAIN ENTRANCE - APPROVED CONCEPT DESIGN - February 2026 - CFA3570



Hart MS East Elevation (1956)



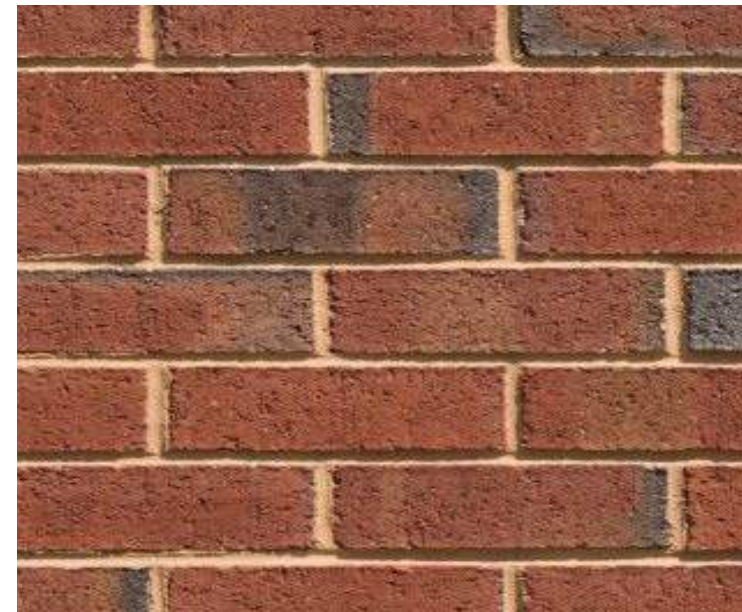
NORTH ELEVATION & MAIN ENTRANCE - UPDATED



NEW MASONRY



NEW CURTAIN WALL

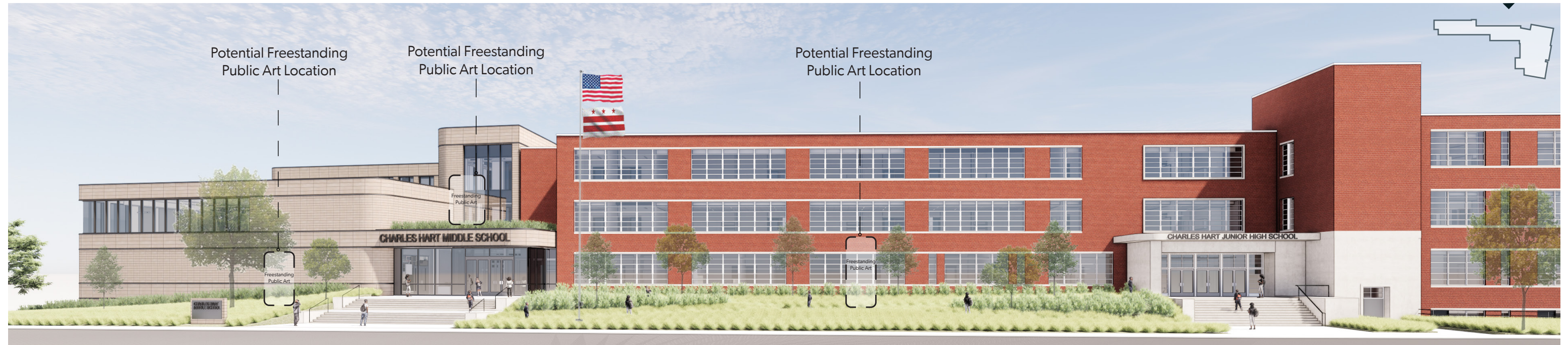


EXISTING BRICK

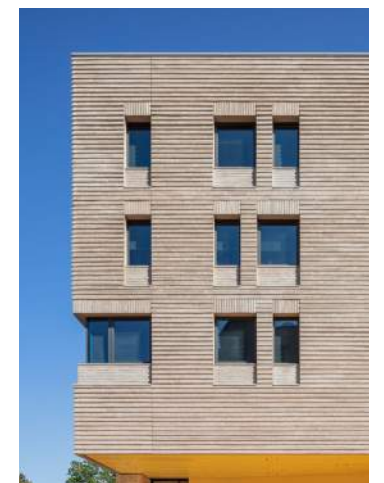
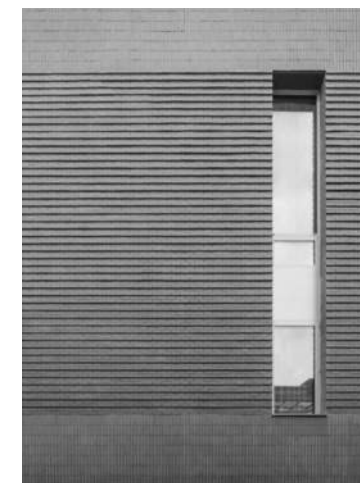
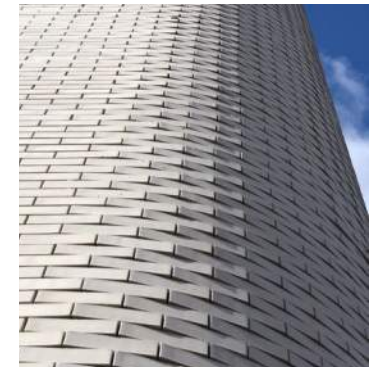


EXISTING PRECAST

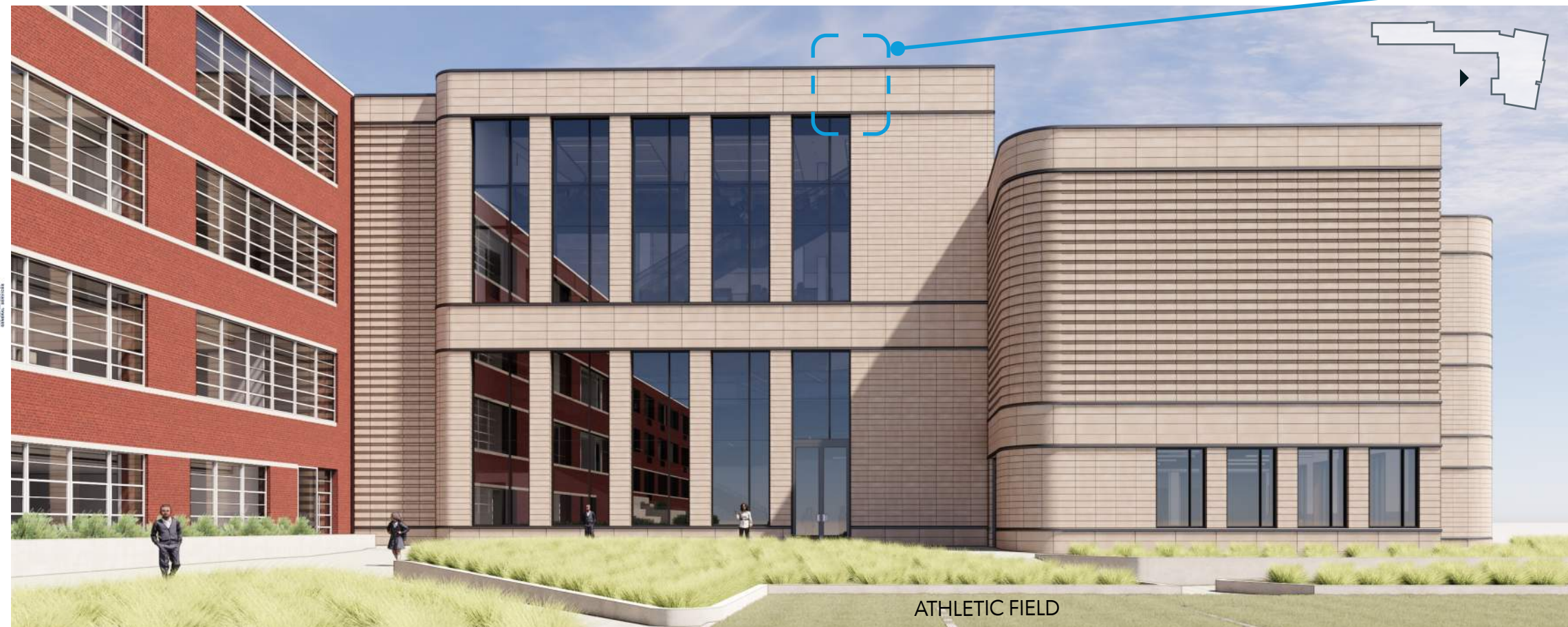
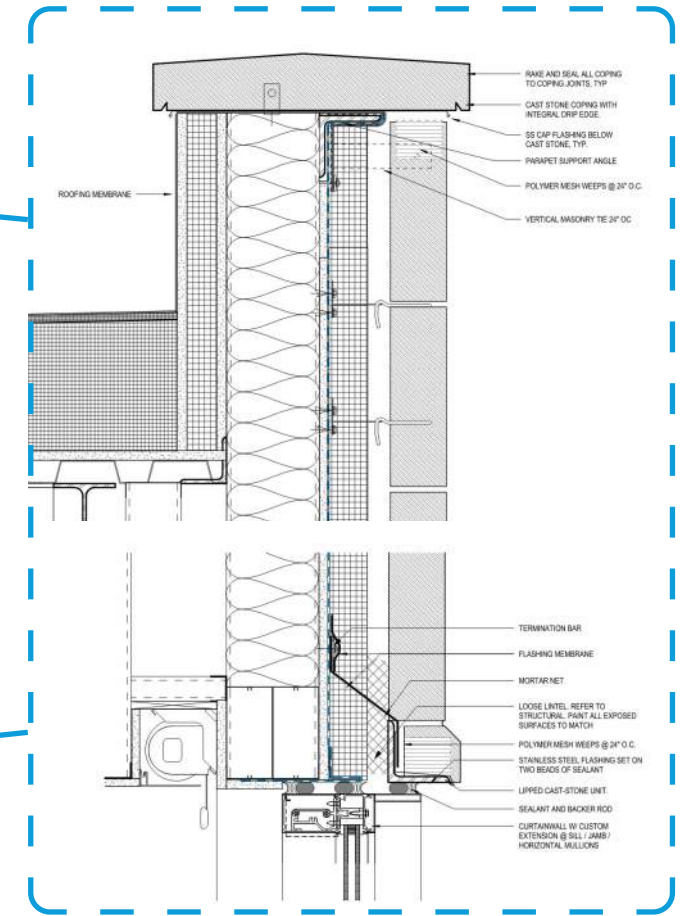
NORTH ELEVATION & MAIN ENTRANCE - UPDATED



EAST & WEST ELEVATION - APPROVED CONCEPT DESIGN - February 2026 - CFA3570



EAST & WEST ELEVATION - UPDATED

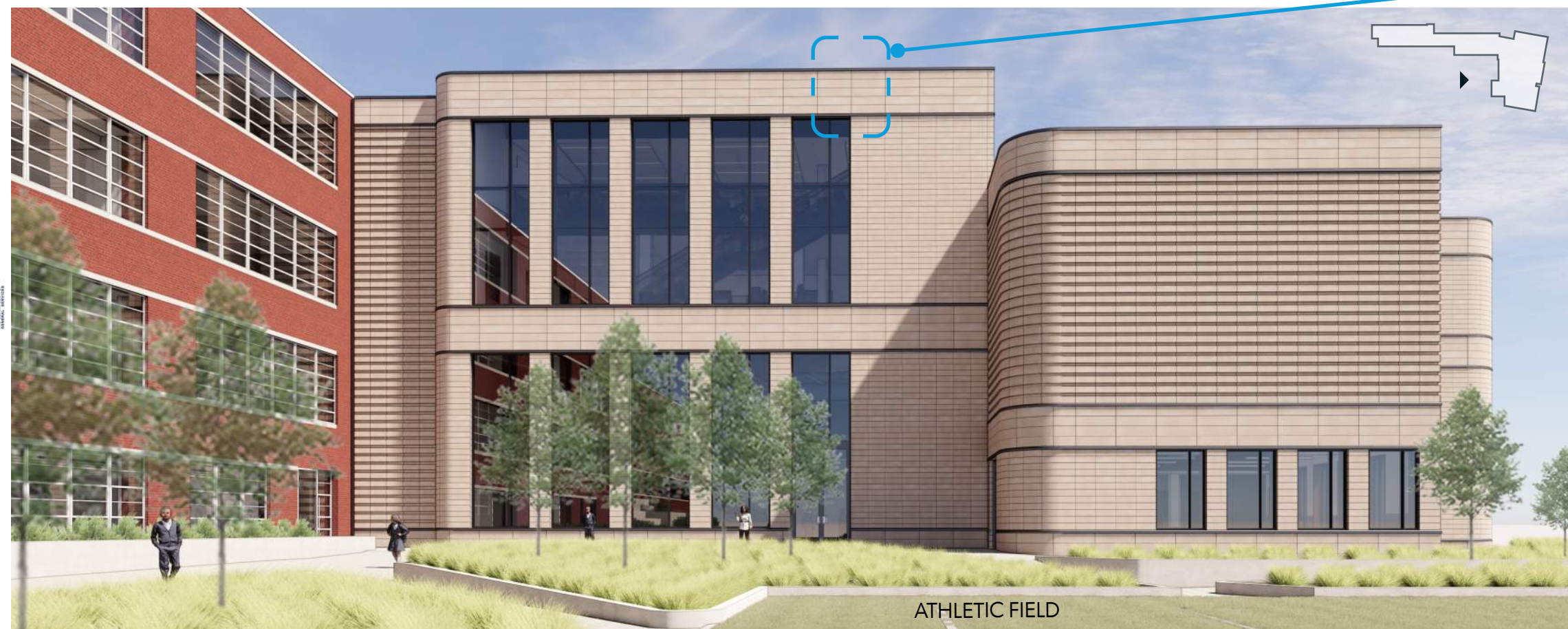
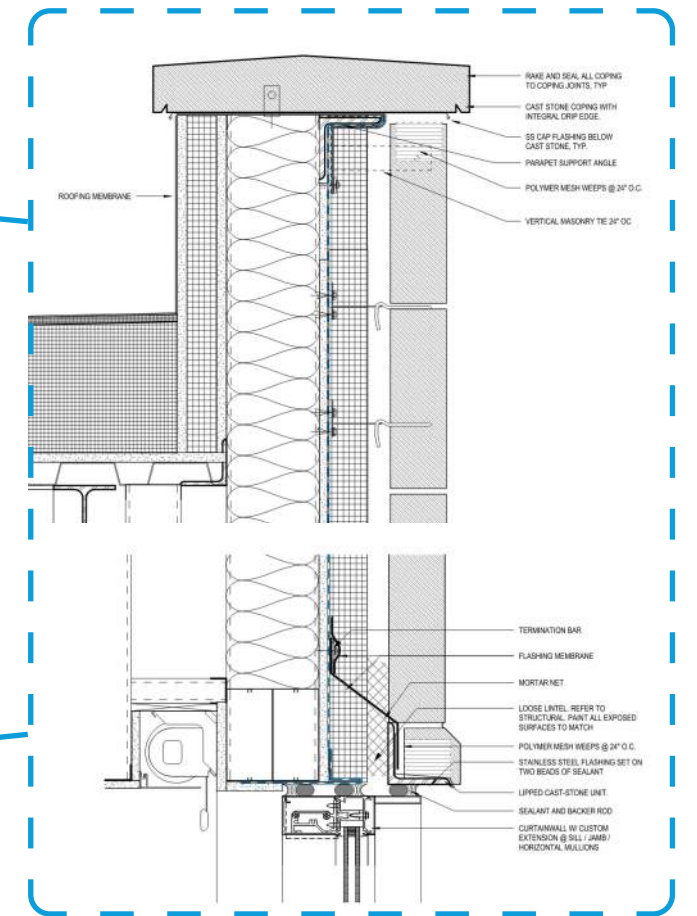


CAST STONE MASONRY
 Variegated Indiana Limestone
 Coloration



CURTAIN WALL
 with shadow box spandrels

EAST & WEST ELEVATION - UPDATED WITH TREES

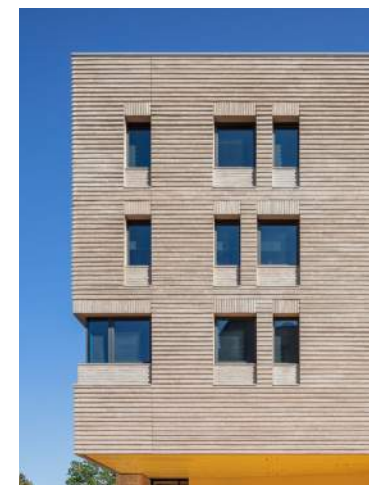
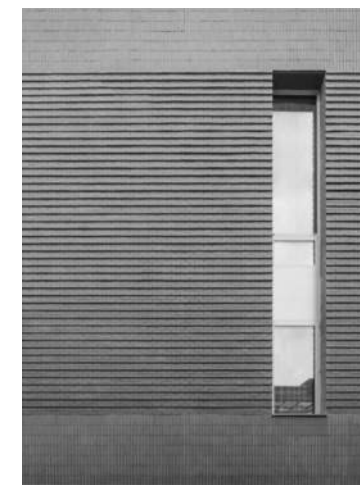
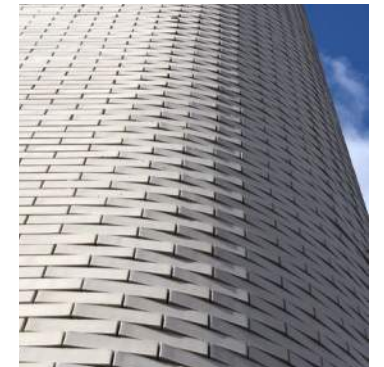


CAST STONE MASONRY
 Variegated Indiana Limestone
 Coloration



CURTAIN WALL
 with shadow box spandrels

FIELD VIEW/SW CORNER VIEW - APPROVED CONCEPT DESIGN - February 2026 - CFA3570



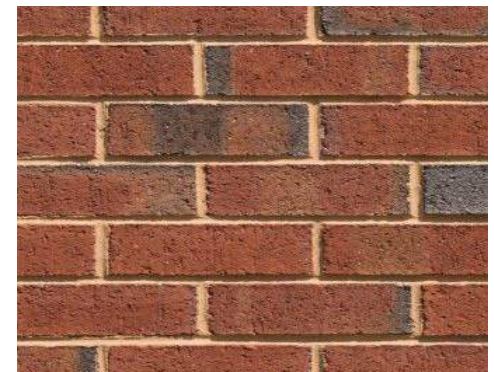
FIELD VIEW/SW CORNER VIEW - UPDATED



CAST STONE MASONRY
Variegated Indiana Limestone Coloration



CURTAIN WALL
with shadow box spandrels



EXISTING BRICK



EXISTING PRECAST
on existing window sill and head

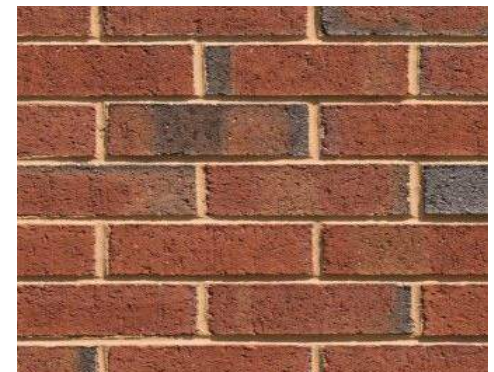
FIELD VIEW/SW CORNER VIEW - UPDATED WITH TREES



CAST STONE MASONRY
Variegated Indiana Limestone Coloration



CURTAIN WALL
with shadow box spandrels



EXISTING BRICK



EXISTING PRECAST
on existing window sill and head

HISTORIC ENTRANCE MODIFICATION

Stair Width Restoration w/ Accessible path



HISTORIC

- 3 Equal double doors (5') w/ 2 equal sidelights
(Doors will not meet accessibility standards as the current width is aligned with the transom spacing.)
- Five equal transom lights

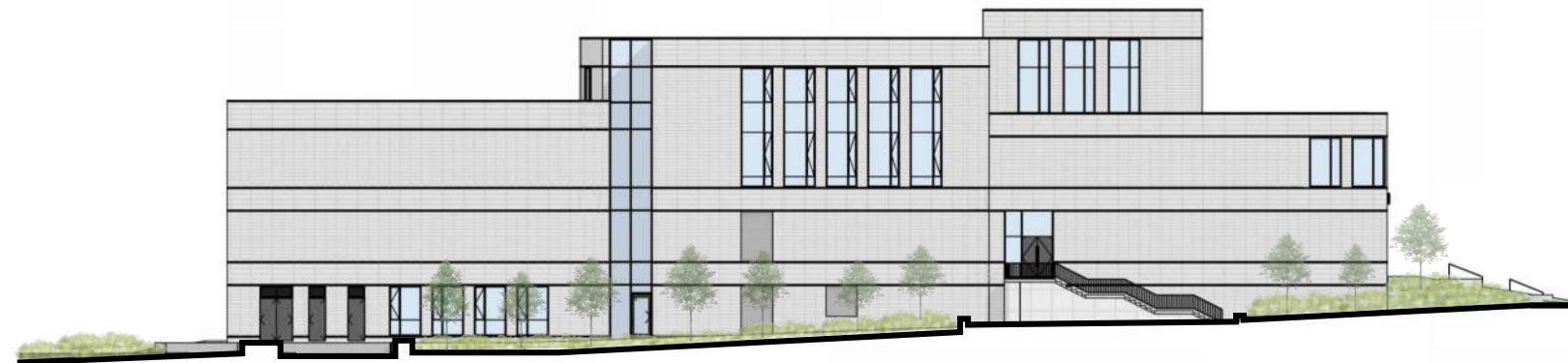
PROPOSED DESIGN

- Three equal double doors (6')
- 3 equal transom lights aligned to doors / 2 sidelights

NORTH ELEVATION & EAST ELEVATION

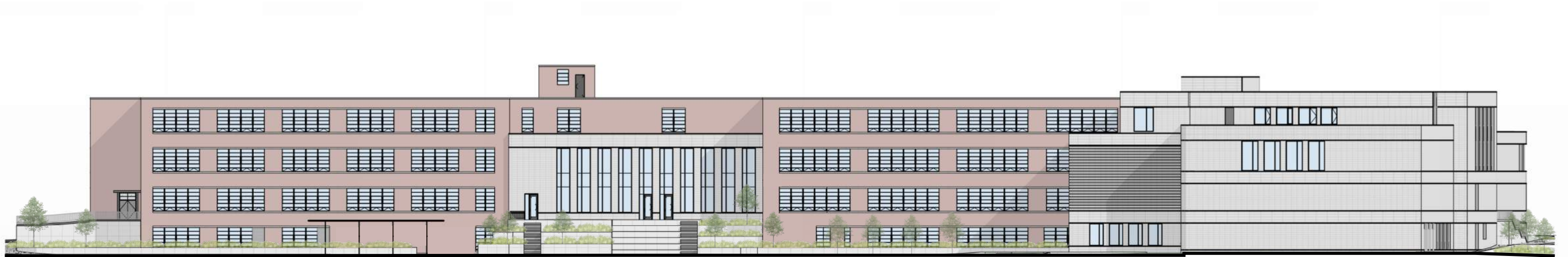


NORTH ELEVATION



EAST ELEVATION

SOUTH ELEVATION & WEST ELEVATION

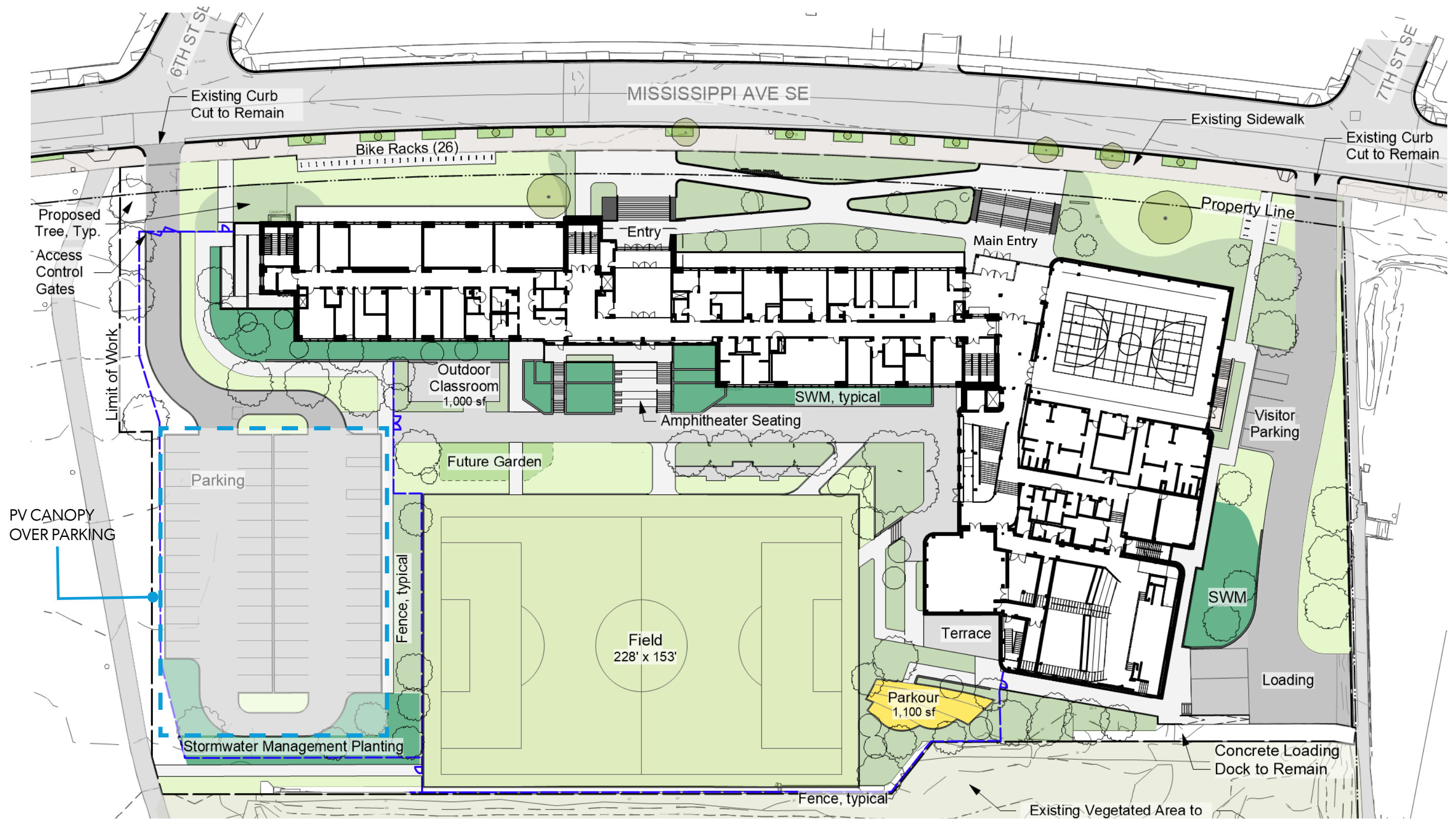


SOUTH ELEVATION

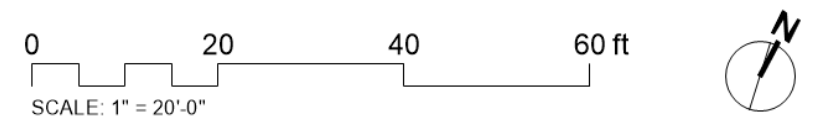


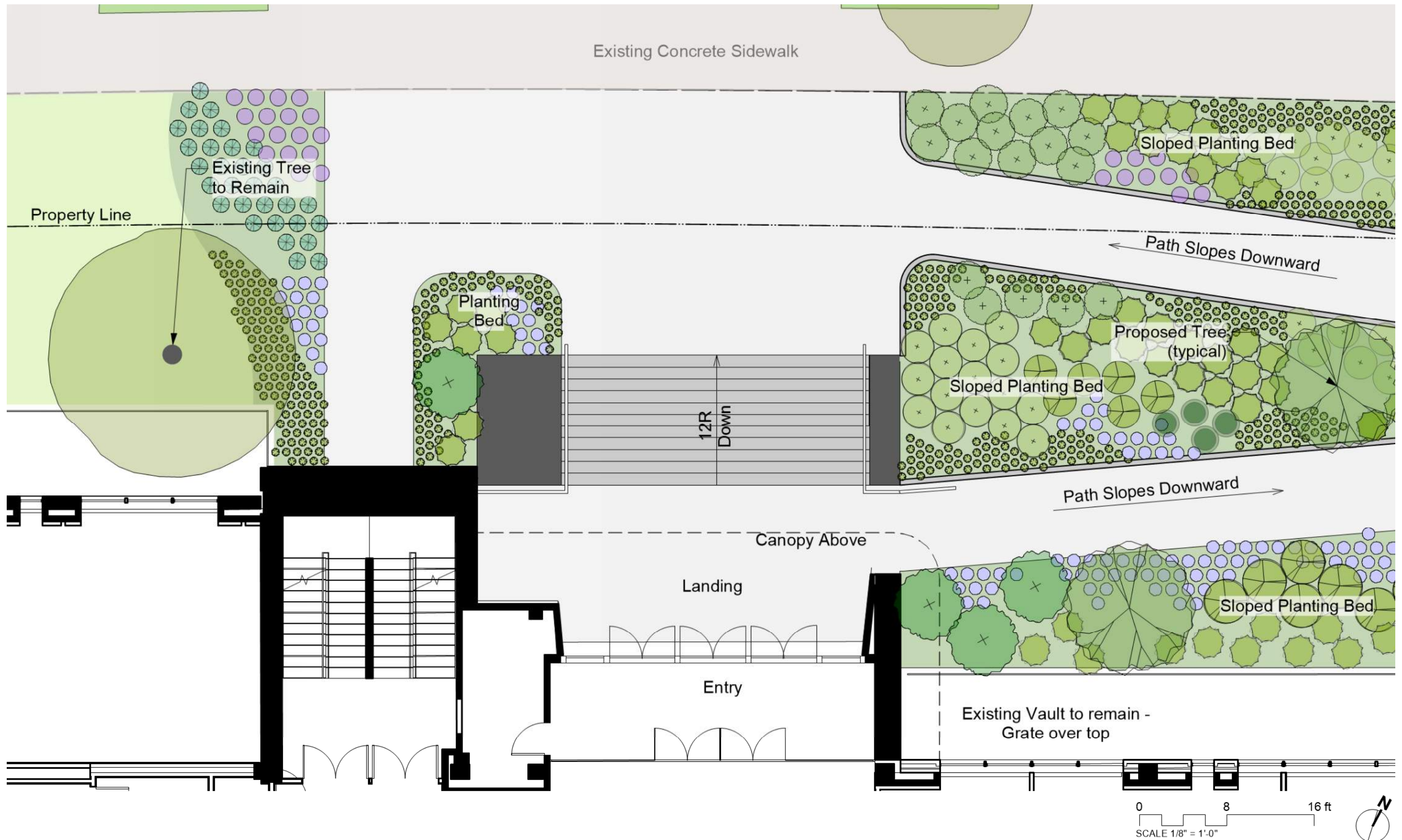
WEST ELEVATION

LANDSCAPE



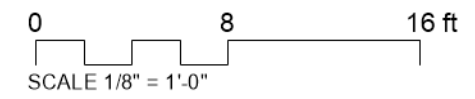
LANDSCAPE







Rear Entrance to Gym and Auditorium



Accessible Entry

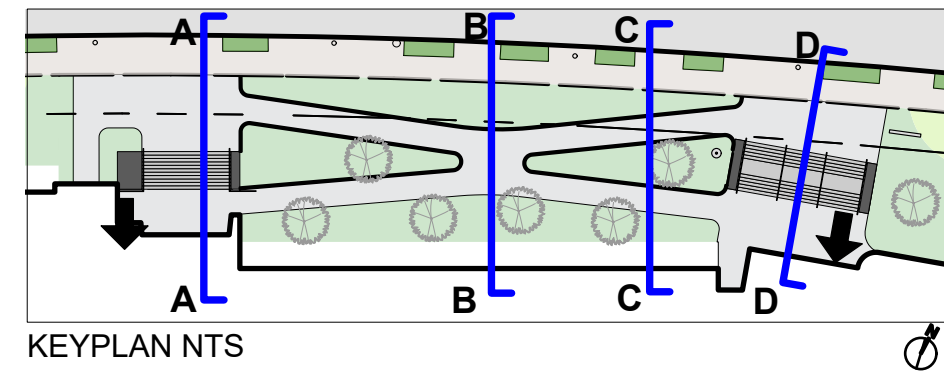
Seatwall

Pollinator Garden

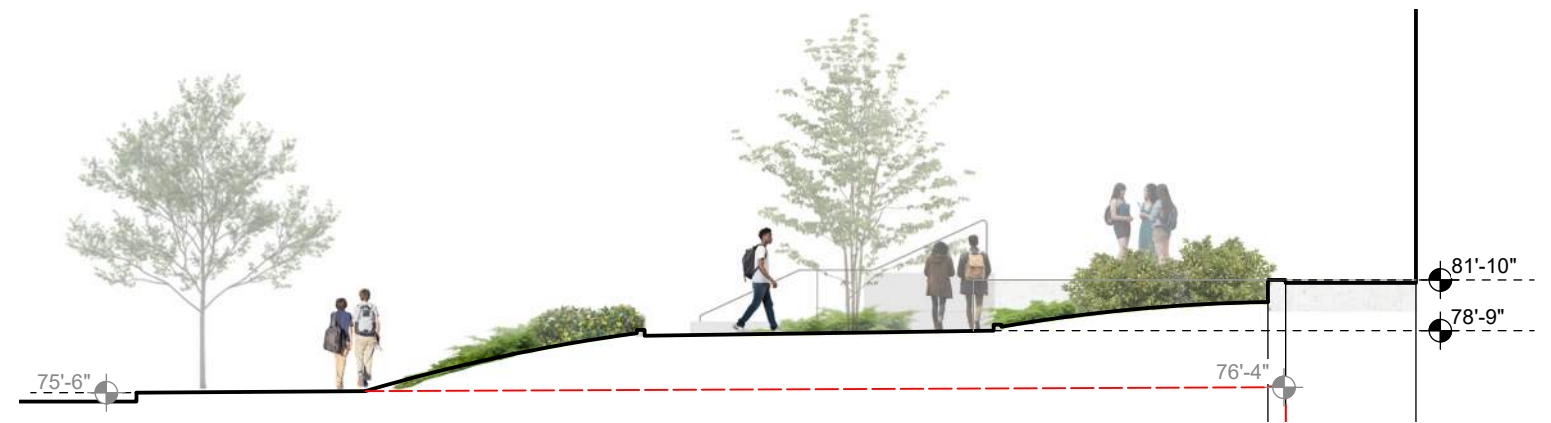
Bioretention Planter

OUTDOOR CLASSROOM OVERHEAD CANOPY WITH POTENTIAL PV

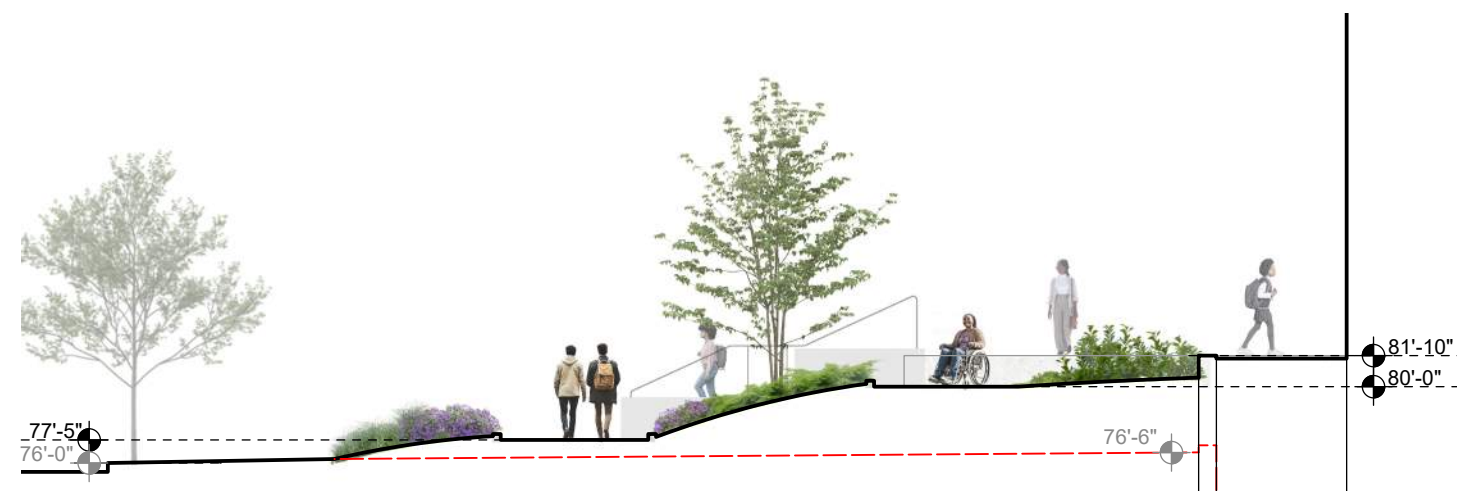
LANDSCAPE



A Section Through Historic Entrance (Facing North)
Scale: 3/32" = 1'-0"



B Section Through Entry Landing (Facing North)
Scale: 3/32" = 1'-0"



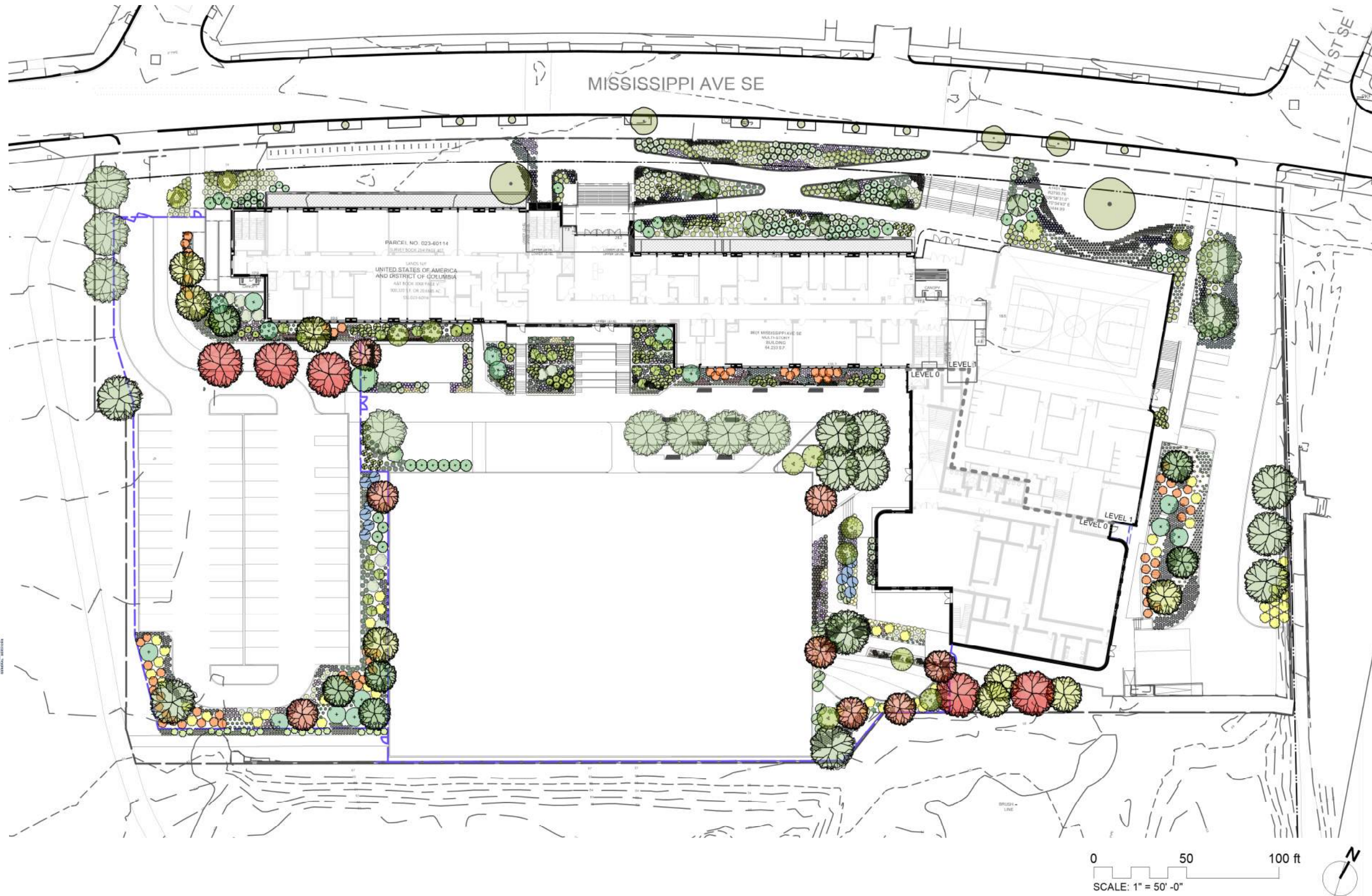
C Section Through Sloped Paths (Facing North)
Scale: 3/32" = 1'-0"



D Section Through Addition Entrance (Facing North)
Scale: 3/32" = 1'-0"

PLANTING PLAN

Planting Design



STUDIOS

SAN FRANCISCO • WASHINGTON, DC • NEW YORK • LOS ANGELES • PARIS • LYON

ADJACENT SITE CONTEXT



A SE Tennis Center



D SE Tennis Center



E SE Tennis Center



B 7th Street SE



C 6th Street SE

District of Columbia
PUBLIC SCHOOLS

DGS

AMCN

STUDIOS



ADJACENT SITE CONTEXT



F Oxon Run Pool



I Oxon Run Pool



I Miss AVE SE & 6th ST SE

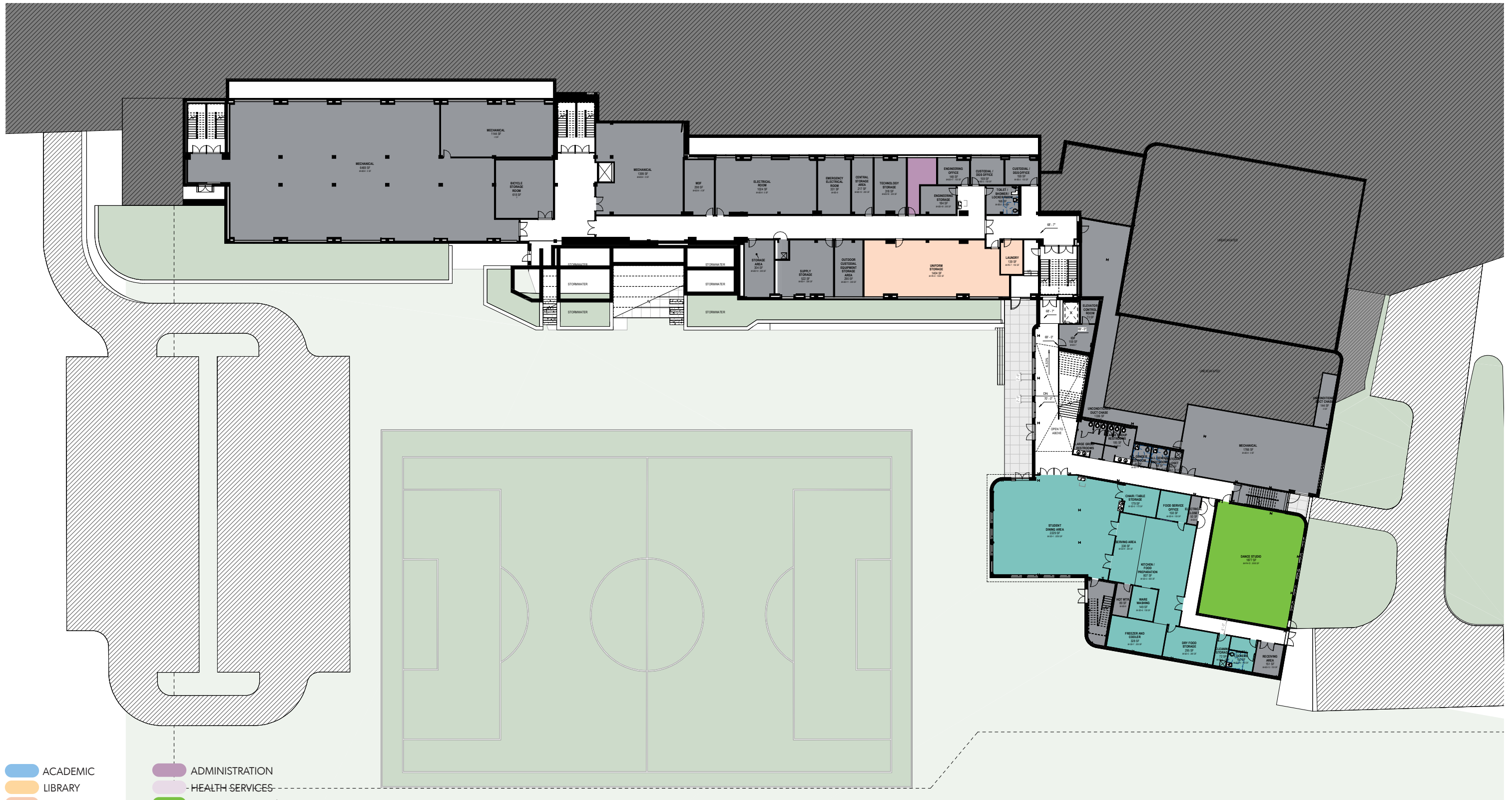


G Simon Elementary School



H Ballou High School

PLANNING - LOWER LEVEL



- ACADEMIC
- LIBRARY
- PHYSICAL EDUCATION
- STUDENT DINING
- ADMINISTRATION
- HEALTH SERVICES
- PERFORMING ART/VISUAL ART
- BUILDING SERVICES

LANDSCAPE IN DEVELOPMENT WITH STUDIO AKA, PROVIDED FOR REFERENCE ONLY.

LOWER LEVEL



PLANNING - LEVEL 1

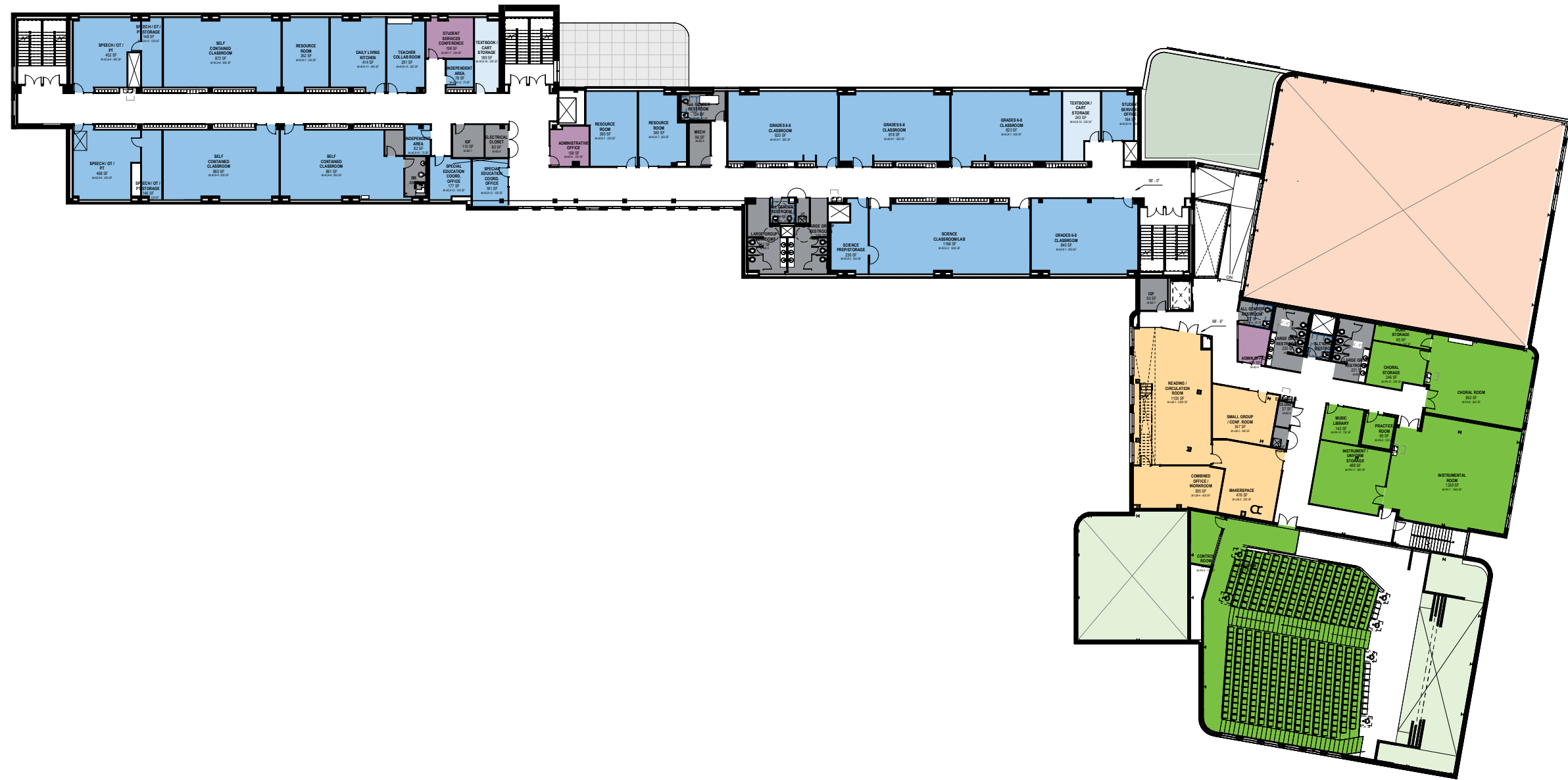


- ACADEMIC
- ADMINISTRATION
- LIBRARY
- HEALTH SERVICES
- PHYSICAL EDUCATION
- PERFORMING ART/VISUAL ART
- STUDENT DINING
- BUILDING SERVICES

LANDSCAPE IN DEVELOPMENT WITH STUDIO AKA, PROVIDED FOR REFERENCE ONLY.



PLANNING - LEVEL 2



- ACADEMIC
- LIBRARY
- PHYSICAL EDUCATION
- STUDENT DINING
- ADMINISTRATION
- HEALTH SERVICES
- PERFORMING ART/VISUAL ART
- BUILDING SERVICES

LANDSCAPE IN DEVELOPMENT WITH STUDIO AKA, PROVIDED FOR REFERENCE ONLY.



PLANNING - LEVEL 3

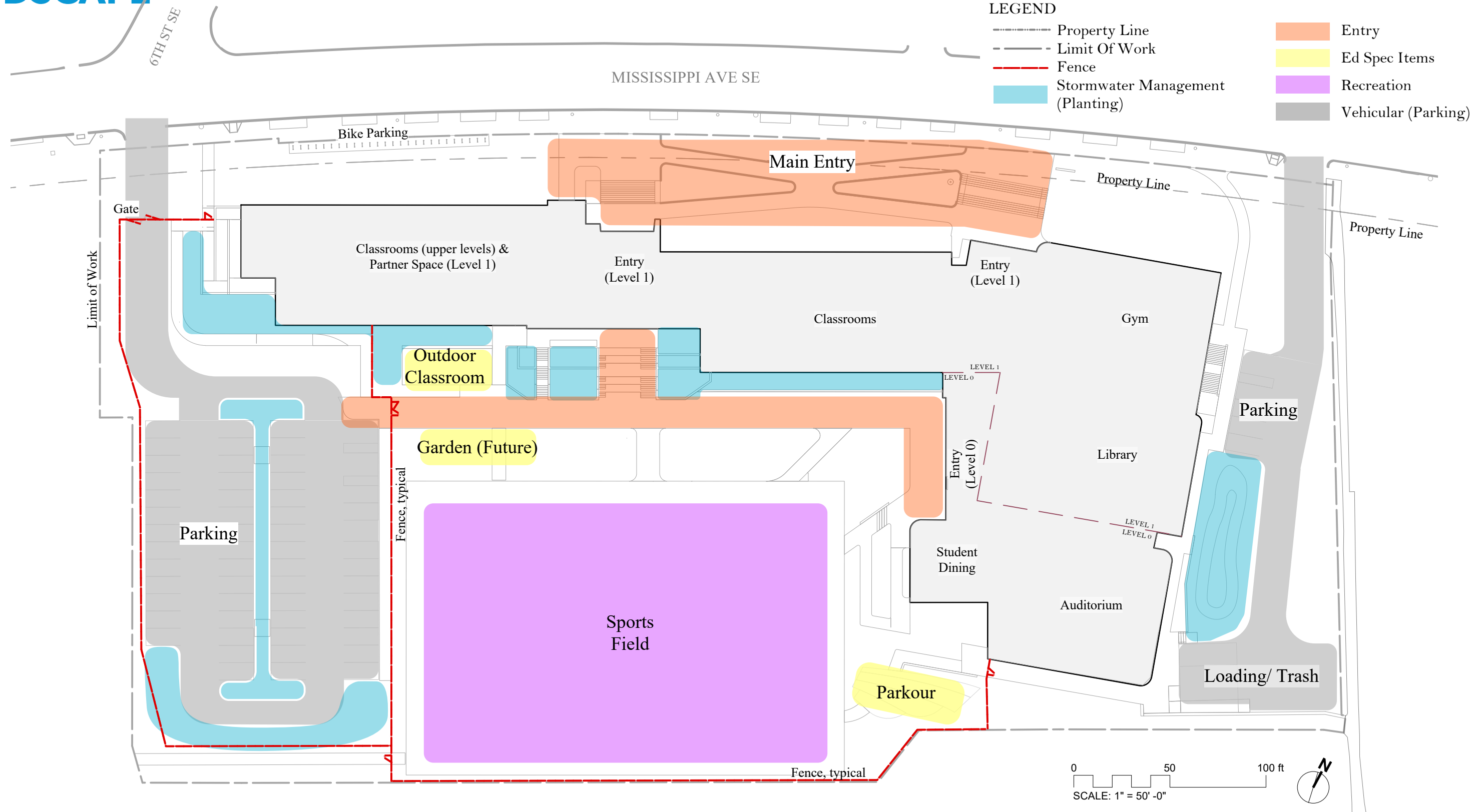


- ACADEMIC
- LIBRARY
- PHYSICAL EDUCATION
- STUDENT DINING
- ADMINISTRATION
- HEALTH SERVICES
- PERFORMING ART/VISUAL ART
- BUILDING SERVICES

LANDSCAPE IN DEVELOPMENT WITH STUDIO AKA, PROVIDED FOR REFERENCE ONLY.



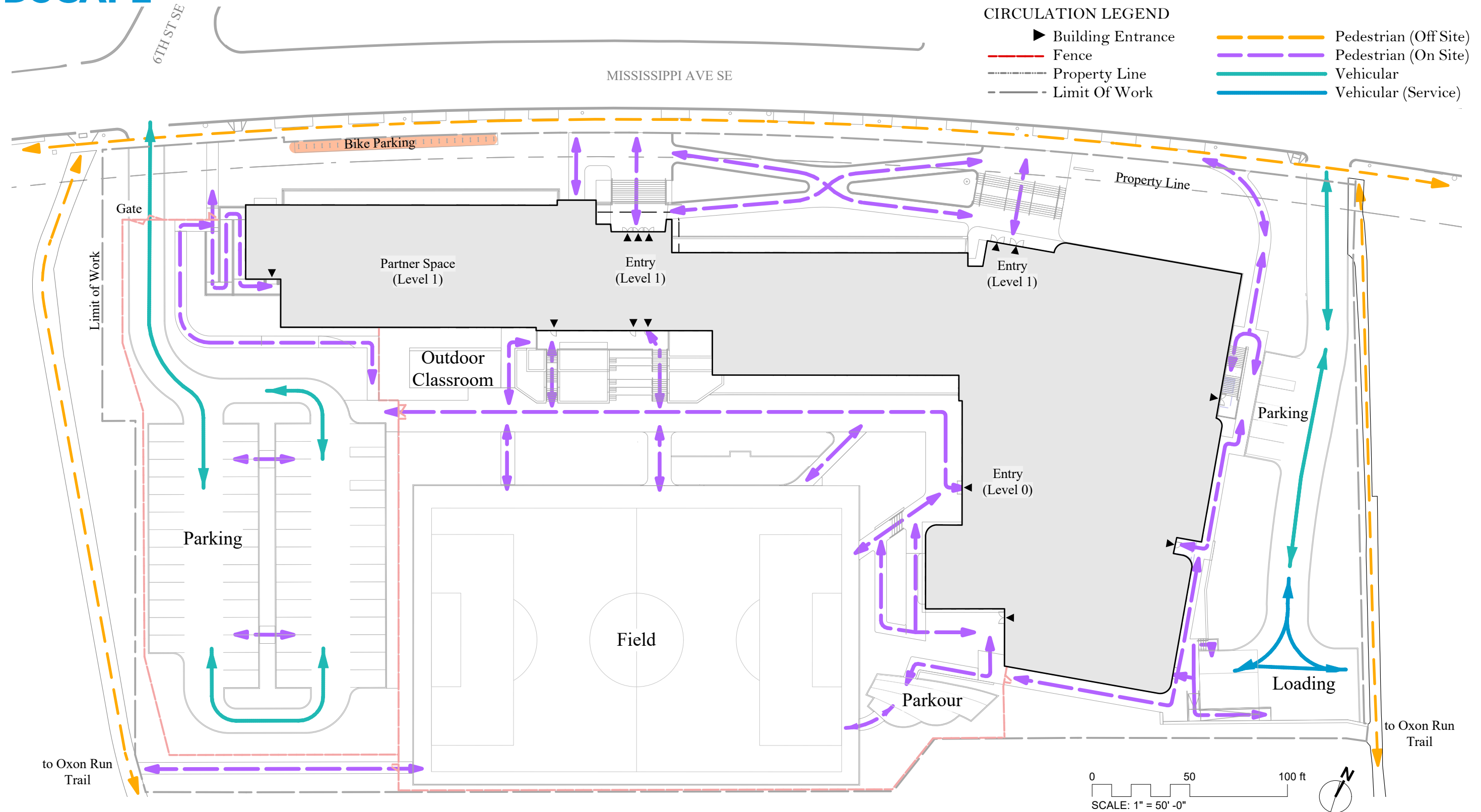
LANDSCAPE



LEGEND

- Property Line
- Limit Of Work
- Fence
- Stormwater Management (Planting)
- Entry
- Ed Spec Items
- Recreation
- Vehicular (Parking)

LANDSCAPE



ECOLOGICAL DESIGN

Partnership with Second Nature

second nature
ecology+design

GOAL: PROVIDE PLANTING PALETTE FOR PLACE-BASED BIODIVERSE SCHOOL YARD WITH OPPORTUNITIES FOR CURRICULUM DEVELOPMENT.



Charles Hart Middle School

PALETTE CRITERIA

- Represents local Magnolia Seep (aka bog) & Riparian/Floodplain Ecosystems
- Follows DC public schools & stormwater guidelines
- Urban & drought tolerant
- Low maintenance
- Supports focal species
- Creates ecological connections with Oxon Run
- Impactful natives

ECOLOGICAL DESIGN

Focus Species

second nature

ecology+design

Monarch Butterfly

Danaus Plexippus



Ecological Importance: Pollinator, in decline across much of its range. Notable for annual migration between Eastern U.S. and Mexico. Listed as a species of concern under the District of Columbia Wildlife Action Plan.

Habitats: Breeds and forages near any patches milkweed species in fields, meadows, gardens and urban plantings.

Urban Habitat Requirements: Patches of milkweed (*Asclepias* sp.) in open, sunlit areas.

Support Strategies: Milkweed (*Asclepias* spp.) is the only host-plant for breeding. Native species are ideal (e.g. swamp milkweed, butterfly milkweed, common milkweed) avoid planting non-native (tropical milkweed, *A. curassavica*)

Plant nectar sources for adults, including *Aster*, *Liatris*, *Monarda*, *Solidago* species.

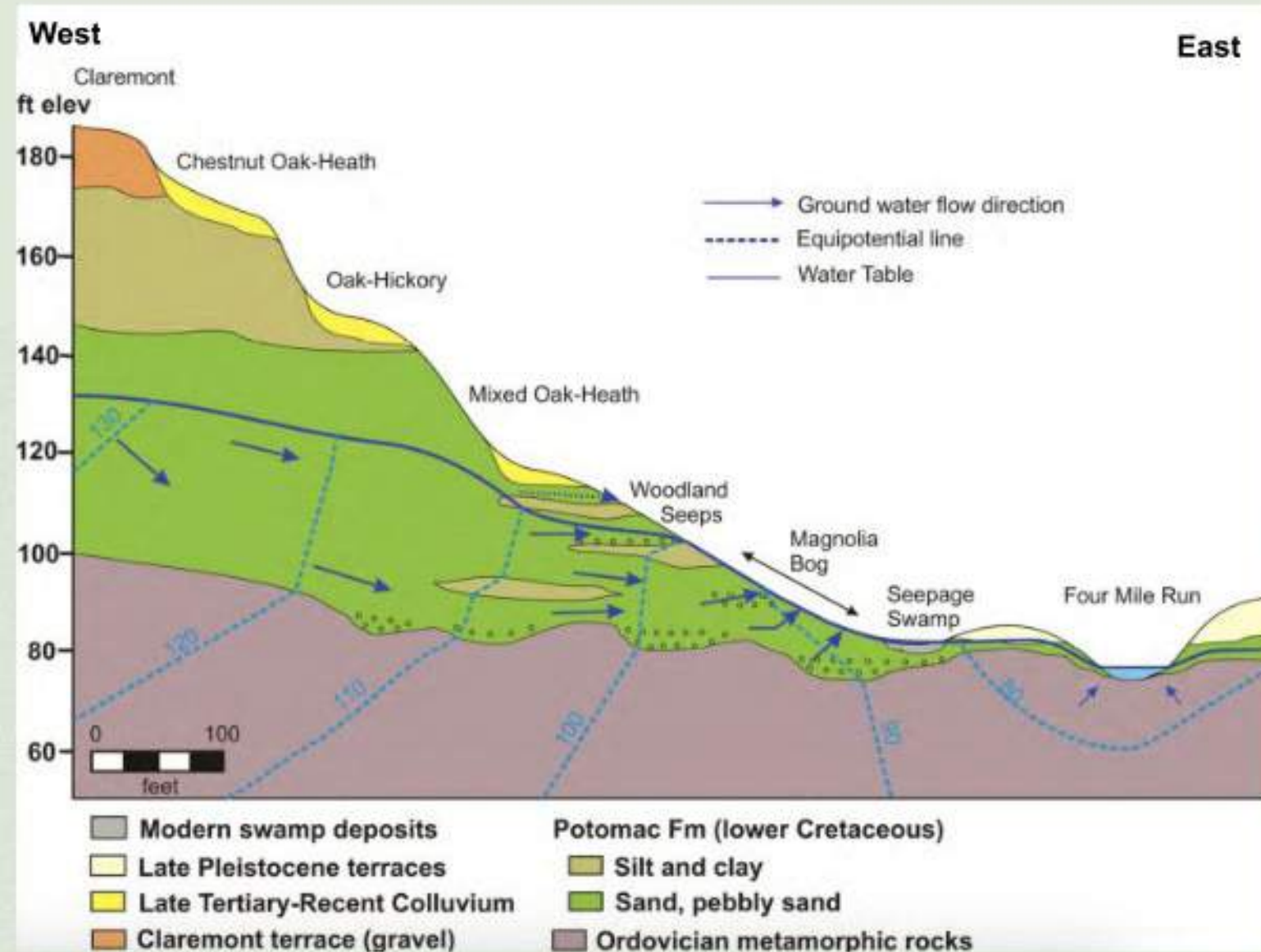


ECOLOGICAL DESIGN

Partnership with Second Nature



Magnolia Seeps (aka bogs): Globally Rare, Fall Line Ecosystems



ECOLOGICAL DESIGN

Focus Species

second nature
ecology+design

Spicebush Swallowtail

Papilio troilus



Ecological Importance: Declining regionally. Pollinator. Caterpillars and adults provide high-quality food for insectivorous birds.

Habitats: Mesic to wet deciduous forests, woodland/forest edges, urban and suburban gardens, meadows.

Urban Habitat Requirements: Spicebush for caterpillars. Pollinator plants for adults.

Support Strategies: Cluster plantings of Spicebush (*Lindera*) for larvae and provide nectar sources for adults, including *Asclepias*, *Clethra*, *Lobelia*, etc. Leave leaf litter in fall clean-up, especially along forest/woodland edges.



ECOLOGICAL DESIGN

Focus Species

second nature
ecology+design

Great Spangled Fritillary *Speyeria cybele*



Ecological Importance: Pollinator, listed as a species of concern under the District of Columbia Wildlife Action Plan.

Habitats: Forages near any old-fields, meadows, gardens, and urban plantings.

Urban Habitat Requirements: *Viola* species for breeding and/or nectar-rich plants for foraging.

Strategies for Supporting: Plant nectar sources for adults, including *Asclepias*, *Asters*, *Eutrochium*, *Liatris*, *Monarda*, *Solidago* species.



ECOLOGICAL DESIGN

Focus Species

second nature
ecology+design

Wood Thrush

Hylocichla mustelina



Ecological Importance: Declining in abundance due to habitat destruction. Listed as a species of concern under the District of Columbia Wildlife Action Plan. Breeds in DC Spring-Summer.

Habitats: Deciduous woods, particularly damp riparian forests, and suburban areas with large trees. Forages for insects in forest understory and open lawns, berries from shrubs and trees.

Urban Habitat Requirements: Nutrient-rich berry-producing plants, trees and shrubs for cover. High-quality leaf litter producing trees, such as *Acer*, *Betula*, *Cornus*, etc, to support insect prey.

Strategies for Supporting: Plant native species with nutrient-rich berries such as *Nyssa sylvatica*, *Viburnum nudum*, etc.



ECOLOGICAL DESIGN

Focus Species

second nature

ecology+design

American Goldfinch

Spinus tristis



Ecological Importance: Listed as a species of concern under the District of Columbia Wildlife Action Plan. Found in DC throughout school-year and summer.

Habitats: meadows, old-fields, urban and suburban yards.

Urban Habitat Requirements: nutrient-rich seeds producing plants, trees and shrubs for cover. Incorporate milkweed seeds into nests.

Strategies for Supporting: Plant native species with nutrient-rich seeds such as *Aster*, *Liatris*, *Monarda*, *Rudbeckia*, *Ulmus* species and native grasses.

Limit deadheading and pruning in late Fall/Winter.



PLANT LIST

Planting zones

Zone	Scientific Name	Common Name	Habit	Height	Bloom Period
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Entry Garden					
	<i>Cercis canadensis</i>	Eastern redbud	Tree	20 - 30 ft	March - April
	<i>Cornus florida</i>	Flowering Dogwood	Tree	15 - 30 ft	April - May
	<i>Ulmus americana 'New Harmony'</i>	New Harmony Elm	Tree	60 - 80 ft	March - April
	<i>Cornus amomum</i>	Silky dogwood	Shrub	6 - 12 ft	May - June
	<i>Gaylussacia baccata</i>	Black Huckleberry	Shrub	2 - 4 ft	May - June
	<i>Itea virginica</i>	Virginia sweetspire	Shrub	3 - 5 ft	May - June
	<i>Itea virginica 'Little Henry'</i>	Virginia sweetspire 'Little Henry'	Shrub	2 - 3 ft	May - June
	<i>Rhus aromatica</i>	Gro-Low Fragrant Sumac	Shrub	2 - 6 ft	March - April
	<i>Viburnum acerifolium</i>	Maple Leaf Viburnum	Shrub	4 - 6 ft	May - June
	<i>Viburnum dentatum 'Synnstedt'</i>	Chicago Lustre Arrowwood Viburnum	Shrub	8 - 12 ft	May - June
	<i>Aster novae-belgii 'Woods Purple'</i>	Wood's Purple New York Aster	Perennial	1 - 2 ft	May - June
	<i>Heuchera americana</i>	Coral Bells	Perennial	1-2 ft	May-June
	<i>Oclemena acuminatus</i>	Mountain Aster	Perennial	2-3 ft	August-October
	<i>Carex pensylvanica</i>	Pennsylvania Sedge	Grass	0.5-1 ft	April-May
	<i>Schizachyrium scoparium 'Standing Ovation'</i>	Little Bluestem	Grass	2-4 ft	August-October

Stormwater Garden					
	<i>Acer rubrum</i>	Red Maple, Swamp Maple	Tree	40-70 ft	February-April
	<i>Betula nigra</i>	Rive Birch	Tree	40-70 ft	March-April
	<i>Celtis occidentalis</i>	Hackberry	Tree	40-60 ft	April-May
	<i>Magnolia virginiana</i>	Sweet Bay Magnolia	Tree	15-35 ft	May-July
	<i>Nyssa sylvatica</i>	Black Gum	Tree	30-50 ft	May-June
	<i>Alnus serrulata</i>	Smooth Alder	Shrub	10-20 ft	February-March
	<i>Ilex laevigata</i>	Winterberry Holly	Shrub	6-12 ft	May-June
	<i>Rhus aromatica</i>	Gro-Low Fragrant Sumac	Shrub	2-6 ft	March-April
	<i>Sambucus canadensis</i>	Common Elderberry	Shrub	5-15 ft	June-July
	<i>Viburnum prunifolium</i>	Blackhaw viburnum	Shrub	12-15 ft	April-May
	<i>Asclepias incarnata</i>	Swamp Milkweed	Perennial	3-4 ft	June-August
	<i>Aster novae-belgii 'Woods Purple'</i>	Wood's Purple New York Aster	Perennial	1-2 ft	August-October
	<i>Lobelia cardinalis</i>	Cardinal Flower	Perennial	2-4 ft	July-September
	<i>Penstemon digitalis</i>	Beardtongue	Perennial	2-4 ft	May-June
	<i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountain Mint	Perennial	2-3 ft	July-September
	<i>Rudbeckia hirta</i>	Black eyed Susan	Perennial	2-3 ft	June-September
	<i>Elymus virginica</i>	Virginia Wild Rye	Grass	2-4 ft	May-July
	<i>Festuca rubra</i>	Creeping Red Fescue	Grass	1-2 ft	May-July
	<i>Schizachyrium scoparium</i>	Little Bluestem	Grass	2-4 ft	August-October

Bioretention Garden					
	<i>Celtis occidentalis</i>	Hackberry	Tree	40-60 ft	April-May
	<i>Nyssa sylvatica</i>	Black Gum	Tree	30-50 ft	May-June
	<i>Alnus serrulata</i>	Smooth Alder	Shrub	10-20 ft	February-March
	<i>Clethra alnifolia</i>	Sweet Pepperbush	Shrub	3-8 ft	July-August
	<i>Ilex laevigata</i>	Winterberry Holly	Shrub	6-12 ft	May-June
	<i>Ilex verticillata</i>	Winterberry	Shrub	6-10 ft	May-June
	<i>Itea virginica</i>	Virginia sweetspire	Shrub	3 - 5 ft	May - June
	<i>Itea virginica 'Little Henry'</i>	Virginia sweetspire 'Little Henry'	Shrub	2 - 3 ft	May - June
	<i>Lindera benzoin</i>	Northern Spicebush	Shrub	6-12 ft	March-April
	<i>Sambucus canadensis</i>	Common Elderberry	Shrub	5-15 ft	June-July
	<i>Vaccinium angustifolium</i>	Highbush Blueberry	Shrub	1-3 ft	May-June
	<i>Viburnum dentatum 'Synnstedt'</i>	Chicago Lustre Arrowwood Viburnum	Shrub	8-12 ft	May-June
	<i>Asclepias incarnata</i>	Swamp Milkweed	Perennial	3-4 ft	June-August
	<i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountain Mint	Perennial	2-3 ft	July-September
	<i>Elymus virginica</i>	Virginia Wild Rye	Grass	2-4 ft	May-July
	<i>Schizachyrium scoparium</i>	Little Bluestem	Grass	2-4 ft	August-October

Outdoor Classroom					
	<i>Magnolia virginiana</i>	Sweet Bay Magnolia	Tree	15-35 ft	May-July
	<i>Nyssa sylvatica</i>	Black Gum	Tree	30-50 ft	May-June
	<i>Alnus serrulata</i>	Smooth Alder	Shrub	10-20 ft	February-March
	<i>Cornus amomum</i>	Silky dogwood	Shrub	6-12 ft	May-June
	<i>Ilex verticillata</i>	Winterberry	Shrub	6-10 ft	May-June
	<i>Itea virginica 'Little Henry'</i>	Virginia sweetspire 'Little Henry'	Shrub	2-3 ft	May-June
	<i>Rhus aromatica</i>	Gro-Low Fragrant Sumac	Shrub	2-6 ft	March-April
	<i>Sambucus canadensis</i>	Common Elderberry	Shrub	5-15 ft	June-July
	<i>Viburnum prunifolium</i>	Blackhaw viburnum	Shrub	12-15 ft	April-May
	<i>Aster novae-belgii 'Woods Purple'</i>	Wood's Purple New York Aster	Perennial	1-2 ft	August-October
	<i>Asclepias incarnata</i>	Swamp Milkweed	Perennial	3-4 ft	June-August
	<i>Pycnanthemum tenuifolium</i>	Narrowleaf Mountain Mint	Perennial	2-3 ft	July-September
	<i>Rudbeckia hirta</i>	Black eyed Susan	Perennial	2-3 ft	June-September
	<i>Verbena hastata</i>	Blue Vervain	Perennial	3-6 ft	June-September
	<i>Elymus virginica</i>	Virginia Wild Rye	Grass	2-4 ft	May-July
	<i>Festuca rubra</i>	Creeping Red Fescue	Grass	1-2 ft	May-July
	<i>Schizachyrium scoparium</i>	Little Bluestem	Grass	2-4 ft	August-October

Parkour Garden					
	<i>Acer rubrum</i>	Red Maple, Swamp Maple	Tree	40-70 ft	February-April
	<i>Magnolia virginiana</i>	Sweet Bay Magnolia	Tree	15-35 ft	May-July
	<i>Nyssa sylvatica</i>	Black Gum	Tree	30-50 ft	May-June
	<i>Platanus occidentalis</i>	American Sycamore	Tree	75-100 ft	April-May
	<i>Lindera benzoin</i>	Northern Spicebush	Shrub	6-12 ft	March-April
	<i>Rhus aromatica</i>	Gro-Low Fragrant Sumac	Shrub	2-6 ft	March-April
	<i>Vaccinium angustifolium</i>	Highbush Blueberry	Shrub	1-3 ft	May-June
	<i>Viburnum nudum</i>	Possumhaw Viburnum	Shrub	6-12 ft	May-June
	<i>Asclepias syriaca</i>	Common Milkweed	Perennial	3-5 ft	June-August
	<i>Aster novae-belgii 'Woods Purple'</i>	Wood's Purple New York Aster	Perennial	1-2 ft	August-October
	<i>Penstemon digitalis</i>	Beardtongue	Perennial	2-4 ft	May-June
	<i>Solidago juncea</i>	Early Goldenrod	Perennial	2-4 ft	July-September
	<i>Bouteloua gracilis 'Blonde Ambition'</i>	Blue Grama	Grass	2-3 ft	June-September
	<i>Carex intumescens</i>	Shining Bur Sedge	Grass	1-3 ft	May-June
	<i>Glyceria striata</i>	Fowl Mannagrass	Grass	2-3 ft	June-August
	<i>Onoclea sensibilis</i>	Sensitive Fern	Fern	1-3 ft	Non-flowering
	<i>Osmunda cinnamomea</i>	Cinnamon Fern	Fern	2-4 ft	Non-flowering
	<i>Osmunda regalis</i>	Royal Fern	Fern	3-6 ft	Non-flowering

All plants in this selected palette provide multiple environmental, educational, and sensory benefits. Certain species are highlighted with a call out to emphasize their particular ecological or sensory strengths.

SPECIAL HIGHLIGHT

EDIBLE

SENSORY TOUCH

SENSORY SMELL

BUTTERFLY MUTUALISM

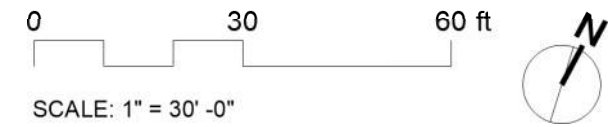
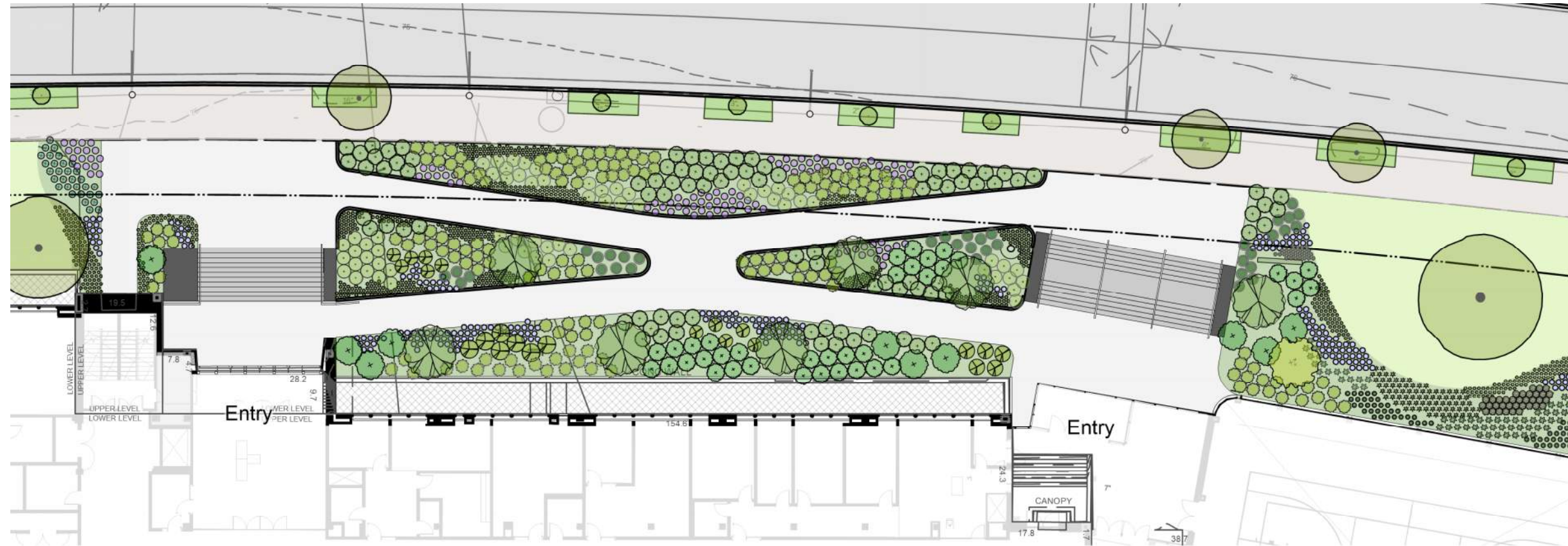
BUTTERFLY HOST PLANT

FOCUS SPECIES



ENTRY GARDEN ENLARGEMENT PLAN

Planting Design



ENTRY GARDEN-TREES & SHRUBS



Cornus florida
Flowering Dogwood
Height: 15 - 30 ft
Bloom Time: April - May
Bloom color: White-Pink



Cercis canadensis
Eastern redbud
Height: 20 - 30 ft
Bloom Time: Mar - Apr
Bloom color: Pink



Ulmus americana "New Harmony"
American Elm
Height: 60 - 70 ft
Bloom Time: Spring
Bloom color: Yellow



Cornus amomum
Silky Dogwood
Height: 6 - 12 ft
Bloom Time: May - June
Bloom color: Yellow - White



Itea virginica
Virginia Sweetspire
Height: 3 - 5 ft
Bloom Time: May - June
Bloom color: White



Itea virginica 'Little Henry'
Little Henry Virginia Sweetspire
Height: 2 - 3 ft
Bloom Time: May - Jul
Bloom color: White

ENTRY GARDEN-SHRUBS



Gaylussacia baccata
Black Huckleberry
Height: 2 - 4 ft
Bloom Time: May - June
Bloom color: White



Viburnum acerifolium
Mapleleaf viburnum
Height: 4 - 6 ft
Bloom Time: May - June
Bloom color: White



Viburnum dentatum 'Synnestvedt'
Arrowwood Viburnum
Height: 8 - 12 ft
Bloom Time: May - June
Bloom color: White



Rhus aromatica 'Grow-Low'
Fragrant sumac
Height: 1 - 2 ft
Bloom Time: Mar - Apr
Bloom color: Yellow - Green

ENTRY GARDEN-PERENNIALS & GRASSES



Aster novi-belgii 'Wood's Purple'

Wood's Purple Aster

Height: 1 - 1.5 ft

Bloom Time: Aug - Sep

Bloom color: Violet



Heuchera americana

American alumroot

Height: 12 - 18 in

Bloom Time: May - Jul

Bloom color: White



Oclemena acuminata

Mountain wood aster

Height: 2 - 4 ft

Bloom Time: Aug - Oct

Bloom color: White



Carex pensylvanica

Pennsylvania sedge

Height: 6 - 12 in

Bloom Time: Apr - May

Bloom color: Tan - Brown



Schizachyrium scoparium 'Standing Ovation'

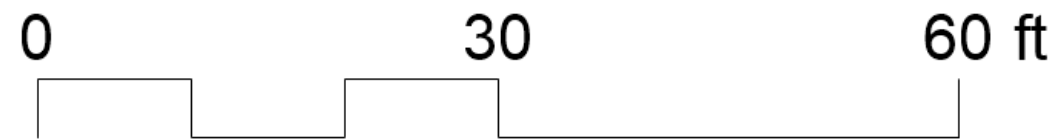
Little bluestem

Height: 3 - 4 ft

Bloom Time: Aug - Oct

STORMWATER ENLARGEMENT PLAN

Planting Design



SCALE: 1" = 30' -0"



STORMWATER GARDEN - TREES



Acer rubrum
Red Maple
Height: 40 - 70 ft
Bloom color: Red - Orange
Fall Interest: Bright red foliage Sept. - Oct



Betula nigra
River Birch
Height: 40 - 70 ft
Bloom Time: April - May
Bloom color: Yellow



Celtis occidentalis
Hackberry
Height: 40 - 60 ft
Bloom Time: April - May
Bloom color: Green-Yellow



Magnolia virginiana
Sweetbay magnolia
Height: 10 - 35 ft
Bloom Time: May - July
Bloom color: White

SENSORY
SMELL



Nyssa sylvatica
Black Tupelo
Height: 30 -50 ft
Bloom Time: May - June
Bloom color: Red - Orange

STORMWATER GARDEN - SHRUBS



Alnus serrulata
Hazel alder
Height: 8 - 15 ft
Bloom Time: Feb - Apr
Bloom color: Yellow - Brown



Ilex laevigata
Smooth winterberry holly
Height: 6 - 12 ft
Bloom Time: May - Jul
Bloom color: White



Ilex verticillata
Winterberry holly
Height: 6 - 12 ft
Bloom Time: May - June
Bloom color: White



Rhus aromatica 'Grow-Low'
Fragrant sumac
Height: 1 - 2 ft
Bloom Time: Mar - Apr
Bloom color: Yellow - Green
Fall Interest: Orange - Red foliage Sep - Nov



Sambucus canadensis
American elderberry
Height: 5 - 15 ft
Bloom Time: Jun - July
Bloom color: White

STORMWATER PERENNIALS & GRASSES



Aster 'Wood's Purple'
Aster
Height: 1 - 1.5 ft
Bloom Time: Aug - Sep
Bloom color: Violet



Asclepias incarnata
Swamp Milkweed
Height: 3- 5 ft
Bloom Time: July - Aug
Bloom color: Pink

BUTTERFLY
MUTUALISM



Lobelia cardinalis
Cardinal flower
Height: 2 - 4 ft
Bloom Time: Jul - Sep
Bloom color: Scarlet red



Penstemon digitalis
Foxglove beardtongue
Height: 2 - 4 ft
Bloom Time: May - Jun
Bloom color: White



Pycnanthemum virginianum
Common Mountain Mint
Height: 2 - 4 ft
Bloom Time: July - Sept
Bloom color: White

SENSORY
TOUCH



Rudbeckia hirta
Black-Eyed Susan
Height: 2- 3 ft
Bloom Time: Late summer
Bloom color: Yellow



Elymus virginicus
Virginia Wild Rye
Height: 2 - 4 ft
Bloom Time: May - June
Bloom color: Tan
Fall Interest: Tan foliage



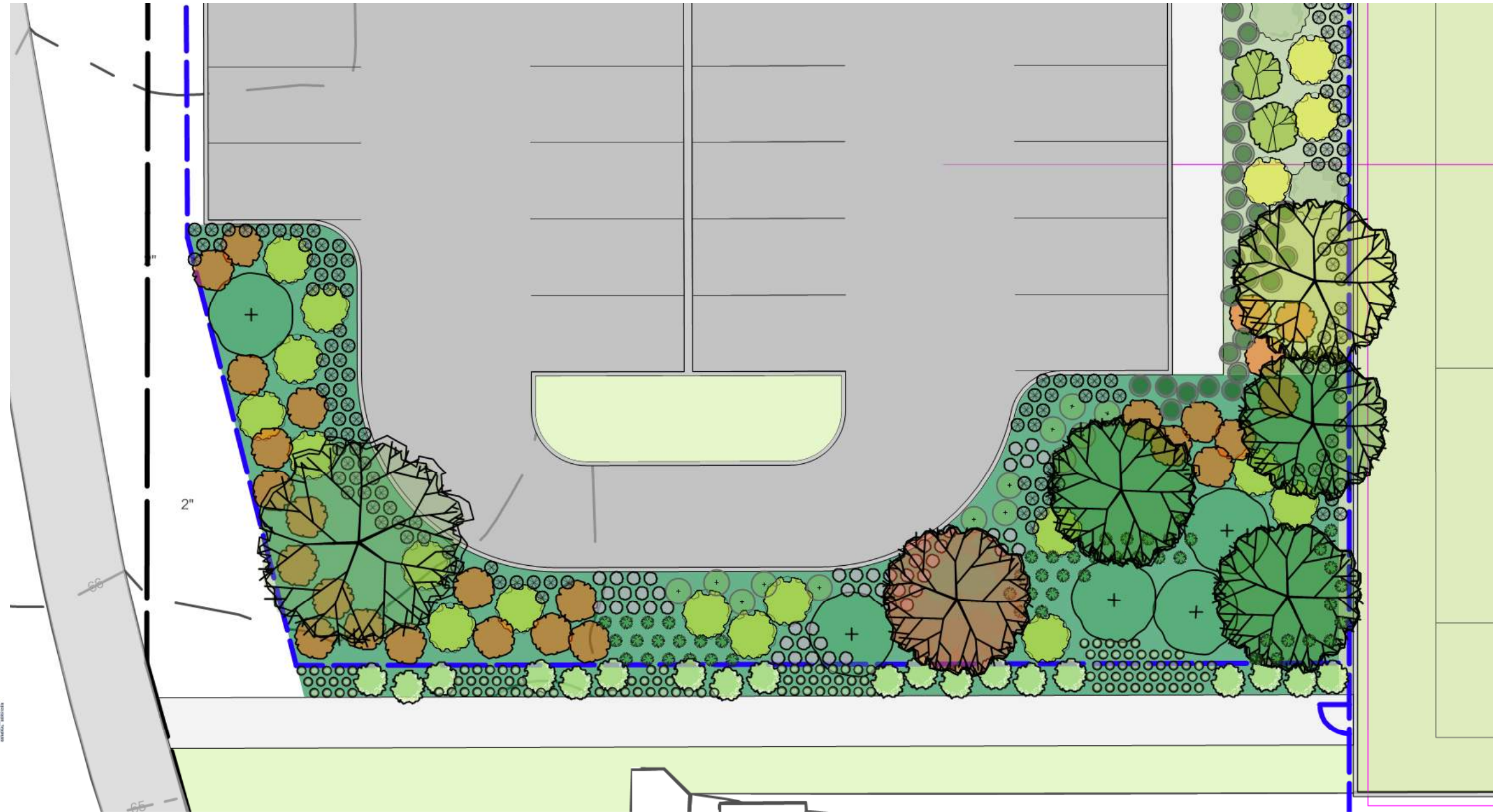
Festuca rubra
Red fescue
Height: 1 - 2 ft
Bloom Time: May - Jul
Bloom color: Pale green



Schizachyrium scoparium
Little Bluestem
Height: 2- 4 ft
Bloom Time: Aug - Oct
Bloom color: Purple - bronze
Fall Interest: Bronze foliage

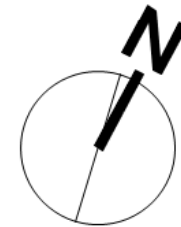
PARKING BIORETENTION ENLARGEMENT PLAN

Planting Design



0 30 60 ft

SCALE: 1" = 30' -0"



BIORETENTION- TREES & SHRUBS



Celtis occidentalis
Hackberry
Height: 40 - 60 ft
Bloom Time: April - May
Bloom color: Green-Yellow



Nyssa sylvatica
Black Tupelo
Height: 30 -50 ft
Bloom Time: May - June
Bloom color: Red - Orange



Alnus serrulata
Hazel alder
Height: 8 - 15 ft
Bloom Time: Feb - Apr
Bloom color: Yellow - Brown



SENSORY
SMELL

Clethra alnifolia
Sweet Pepperbush
Height: 3 - 6 ft
Bloom Time: July - Aug
Bloom color: White



Ilex laevigata
Smooth winterberry holly
Height: 6 - 12 ft
Bloom Time: May - Jul
Bloom color: White



Ilex verticillata
Winterberry holly
Height: 6 - 12 ft
Bloom Time: May - June
Bloom color: White



BIORETENTION- SHRUBS



Itea virginica
Virginia Sweetspire
Height: 3 - 5 ft
Bloom Time: May - June
Bloom color: White



Itea virginica 'Little Henry'
Little Henry Virginia Sweetspire
Height: 2 - 3 ft
Bloom Time: May - Jul
Bloom color: White



Lindera benzoin
Spicebush
Height: 6 - 12 ft
Bloom Time: March - April
Bloom color: Yellow

SENSORY
SMELL

BUTTERFLY
MUTUALISM

BUTTERFLY
HOST PLANT



Sambucus canadensis
American elderberry
Height: 5 - 15 ft
Bloom Time: Jun - July
Bloom color: White



Vaccinium corymbosum
Highbush blueberry
Height: 6 - 12 ft
Bloom Time: Apr - May
Bloom color: White



Viburnum dentatum 'Synnestvedt'
Arrowwood Viburnum
Height: 8 - 12 ft
Bloom Time: May - June
Bloom color: White

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BIORETENTION - PERENNIALS & GRASSES



Asclepias incarnata
Swamp Milkweed
Height: 3- 5 ft
Bloom Time: July - Aug
Bloom color: Pink

BUTTERFLY
MUTUALISM



Pycnanthemum virginianum
Common Mountain Mint
Height: 2 - 4 ft
Bloom Time: July - Sept
Bloom color: White



Elymus virginicus
Virginia Wild Rye
Height: 2 - 4 ft
Bloom Time: May - June
Bloom color: Tan

SENSORY
TOUCH



Schizachyrium scoparium
Little Bluestem
Height: 2- 4 ft
Bloom Time: Aug - Oct
Bloom color: Purple - bronze

OUTDOOR CLASSROOM ENLARGEMENT PLAN

Planting Design



0 30 60 ft

SCALE: 1" = 30' -0"



OUTDOOR CLASSROOM - TREES & SHRUBS



Magnolia virginiana
Sweetbay magnolia
Height: 10 - 35 ft
Bloom Time: May - July
Bloom color: White

SENSORY
SMELL



Nyssa sylvatica
Black Tupelo
Height: 30 -50 ft
Bloom Time: May - June
Bloom color: Red - Orange



Alnus serrulata
Hazel alder
Height: 8 - 15 ft
Bloom Time: Feb - Apr
Bloom color: Yellow - Brown



Cornus amomum
Silky Dogwood
Height: 6 - 12 ft
Bloom Time: May - June
Bloom color: Yellow - White



Ilex verticillata
Winterberry holly
Height: 6 - 12 ft
Bloom Time: May - June
Bloom color: White



Itea virginica 'Little Henry'
Little Henry virginia sweetspire
Height: 2 - 3 ft
Bloom Time: May - Jul
Bloom color: White

Rhus aromatica 'Grow-Low'
Fragrant sumac
Height: 1 - 2 ft
Bloom Time: Mar - Apr
Bloom color: Yellow - Green

Sambucus canadensis
American elderberry
Height: 5 - 15 ft
Bloom Time: Jun - July
Bloom color: White



Viburnum prunifolium
Blackhaw viburnum
Height: 12 - 15 ft
Bloom Time: Apr - May
Bloom color: White

OUTDOOR CLASSROOM - PERENNIALS & GRASSES



Asclepias incarnata
Swamp Milkweed
Height: 3- 5 ft
Bloom Time: July - Aug
Bloom color: Pink

BUTTERFLY
MUTUALISM



Pycnanthemum virginianum
Common Mountain Mint
Height: 2 - 4 ft
Bloom Time: July - Sept
Bloom color: White

SENSORY
TOUCH



Rudbeckia hirta
Black-Eyes Susan
Height: 2- 3 ft
Bloom Time: July - Sept
Bloom color: Golden yellow



Verbena hastata
Blue vervain
Height: 3 - 6 ft
Bloom Time: Jun - Sep
Bloom color: Purple - Blue



Aster 'Wood's Purple'
Aster
Height: 1 - 1.5 ft
Bloom Time: Aug - Sep
Bloom color: Violet



Elymus virginicus
Virginia Wild Rye
Height: 2 - 4 ft
Bloom Time: May - June
Bloom color: Tan
Fall Interest: Tan foliage Sept - Nov



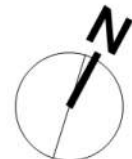
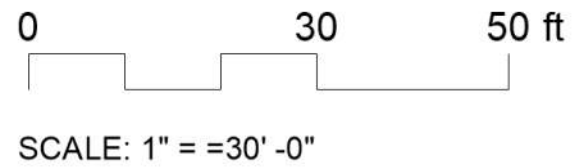
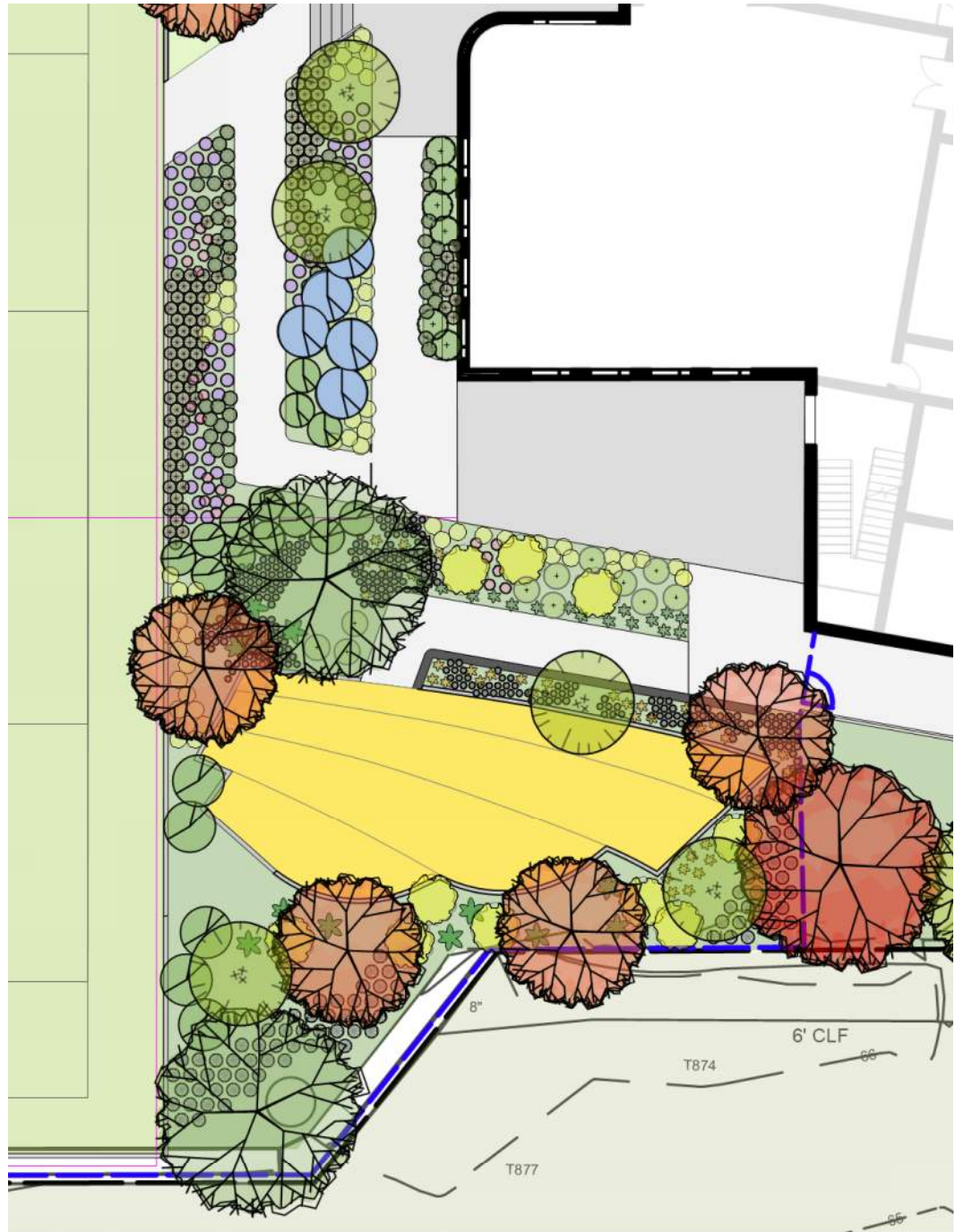
Festuca rubra
Red fescue
Height: 1 - 2 ft
Bloom Time: May - Jul
Bloom color: Pale green



Schizachyrium scoparium
Little Bluestem
Height: 2- 4 ft
Bloom Time: Aug - Oct
Bloom color: Purple - bronze
Fall Interest: Bronze foliage Sept - Dec

PARKOUR ENLARGEMENT PLAN

Planting Design



PARKOUR - TREES



Acer rubrum
Red Maple
Height: 40 - 70 ft
Bloom color: Red - Orange
Fall Interest: Bright red foliage Sept. - Oct



Magnolia virginiana
Sweetbay magnolia
Height: 10 - 35 ft
Bloom Time: May - July
Bloom color: White



Nyssa sylvatica
Black Tupelo
Height: 30 -50 ft
Bloom Time: May - June
Bloom color: Red - Orange



Platanus occidentalis
American Sycamore
Height: 75 - 100 ft
Bloom Time: Apr - May
Bloom color: White
Fall Interest: Yellow - Brown foliage Oct - Nov

PARKOUR - SHRUBS



SENSORY
SMELL
BUTTERFLY
MUTUALISM
BUTTERFLY
HOST PLANT

Lindera benzoin

Spicebush

Height: 6 - 12 ft

Bloom Time: March - April

Bloom color: Yellow

Fall Interest: Yellow foliage Sept - Nov



Rhus aromatica 'Grow-Low'

Fragrant sumac

Height: 1 - 2 ft

Bloom Time: Mar - Apr

Bloom color: Yellow - Green

Fall Interest: Orange - Red foliage Sep - Nov



Vaccinium corymbosum

Highbush blueberry

Height: 6 - 12 ft

Bloom Time: Apr - May

Bloom color: White



Viburnum nudum

Possumhaw Viburnum

Height: 6 - 12 ft

Bloom Time: May - Jun

Bloom color: White

IMCNC
DGS
PUBLIC SCHOOLS

ETD:OS

PARKOUR - PERENNIALS



Aster 'Wood's Purple'
Aster
Height: 1 - 1.5 ft
Bloom Time: Aug - Sep
Bloom color: Violet



Asclepias syriaca
Common Milkweed
Height: 1 - 2.5 ft
Bloom Time: June - Aug
Bloom color: Pink

BUTTERFLY
MUTUALISM



Solidago juncea
Early Goldenrod
Height: 3 - 5 ft
Bloom Time: May - July
Bloom color: White-pale pink

BUTTERFLY
MUTUALISM



Penstemon digitalis
Foxglove beardtongue
Height: 2 - 4 ft
Bloom Time: May - Jun
Bloom color: White

PARKOUR - GRASSES & FERNS



Bouteloua gracilis
Blue Grama
Height: 2 - 3 ft
Bloom Time: Jun - Sep
Bloom color: Purple - Red



Carex intumescens
Bladder sedge
Height: 1 - 3 ft
Bloom Time: May - Jun
Bloom color: Green - Yellow



Glyceria striata
Fowl Mannagrass
Height: 2 - 3 ft
Bloom Time: May - Jul
Bloom color: Pale green



Osmunda cinnamomea
Cinnamon fern
Height: 2 - 4 ft
Bloom Time: Apr - Jun
Bloom color: Yellow - Brown
Fall Interest: Yellow - Tan foliage Oct - Nov



Osmunda regalis
Royal fern
Height: 3 - 6 ft
Bloom Time: May - Jul
Bloom color: Yellow - Brown
Fall Interest: Yellow - Brown foliage Oct - Nov



Onoclea sensibilis
Sensitive fern
Height: 1 - 3 ft
Bloom Time: May - Jul
Bloom color: Yellow - Brown
Fall Interest: Yellow - Brown foliage Oct - Nov