

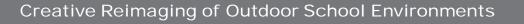
Creative Reimaging of Outdoor School Environments

Robyn M. Niss, P.E.

Introduction

- BS Civil Engineering, Michigan Tech, 2006
- LEED Accredited Professional, 2008
- Professional Engineer in VA and NC
- 17 years of K-12 site design experience
- Designed 24 new schools or significant modernizations, primarily in Virginia





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Agenda

- Site Requirements
- Site Constraints
- Stakeholders
- Solutions
 - Existing Site Opportunities
 - School Use
 - Community Use



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Site Requirements

- Building
- Parking
- Play and Athletic Areas

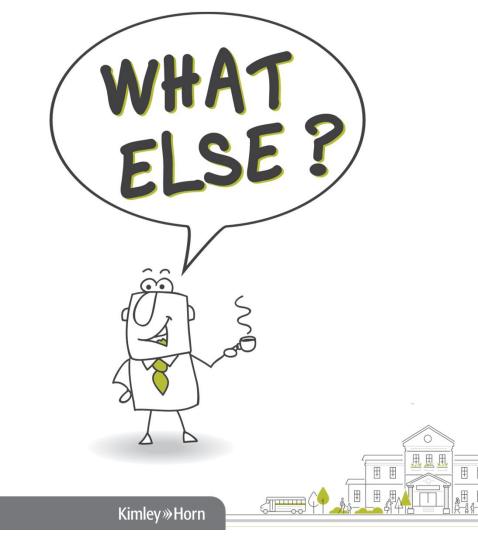


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Site Requirements

- Stormwater Management
- Site Security
- Dedicated Drop Off
- Separated Bus Loop
- Staff vs. Parent Parking
- Service Access
- Bike/Pedestrian Access
- Outdoor Classrooms



Why Can't We Have It All?

- Limited Parcel Area
- Access Constraints
- Wetland Constraints
- Occupied Construction
- Finite Budget



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What's the Solution?

Look for ways to <u>create multi-functional spaces</u> that <u>serve</u> <u>multiple users</u>.

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Learning By Design Fall 2022 Award of Excellence Criteria

Eliminate single-use spaces in favor of shared spaces in all types of campus buildings, including residential, classroom, social, and administrative

Organize and provide spaces that directly support the health, wellness, and use of the surrounding community.

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EARLY CHILDHOOD SCHOOL/ELEMENTARY SCHOOL IVAN G SMITH ELEMENTARY SCHOOL Danvers, MA Tappé Architects

Architects

"This is a beautiful school and site location with direct and highly visible connection between shared learning areas and flexible classrooms."

Jury comment:



This is a beautiful school and site location with direct and highly visible connection between shared learning areas and flexible classrooms.

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- EA0 [@Niss, Robyn] [@Sacknoff, Melissa] can either of you send me the original file for this so I see if I can put this on the slide in a way that doesn't make it so fuzzy Ennis, Alex, 2023-03-22T12:33:31.923
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How Do You Use Your Neighborhood School Site?

Who are the Stakeholders?

- Facilities Director
- School Administration
- Students
- Teachers
- Faculty
- Neighborhood



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Existing Site Opportunities

Thoroughgood Elementary School Tree Preservation



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Princess Anne Middle School Stormwater Management



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West Point Elementary School – Play Area



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West Point Elementary School Site Contour Representation



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Multi-Functional School Use

Old Donation School Stormwater Experiments



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Princess Anne Middle School Stormwater Classroom



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Kellam High School Stormwater Classroom



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Old Donation School PE Space

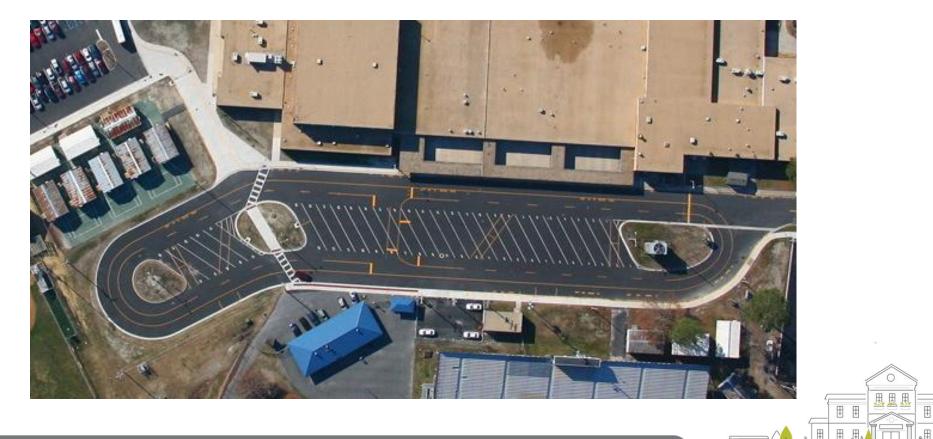


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Western Branch High School Driver's Education



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East Avenue Middle School Performance Space



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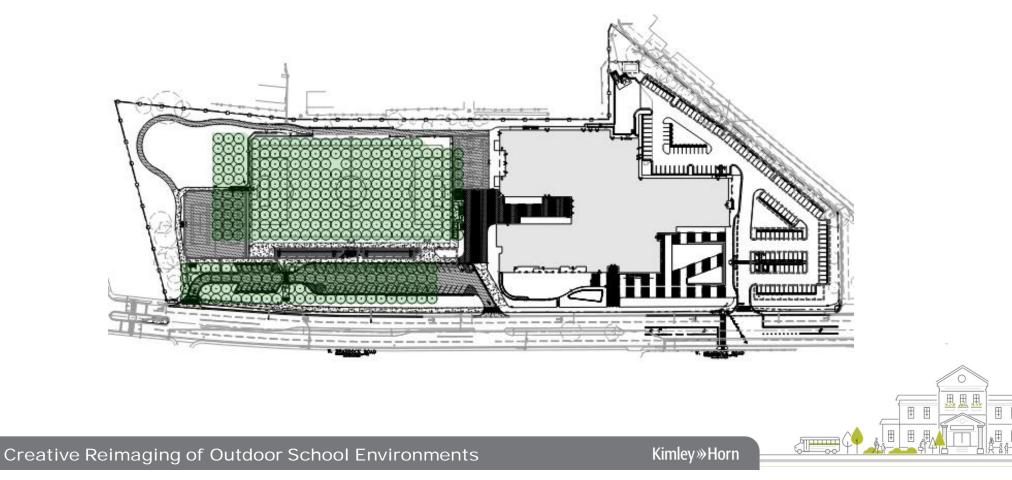
Minnie Howard High School Photovoltaic Shade



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Minnie Howard High School Geothermal



Maude Moore Elementary School Security and Seating



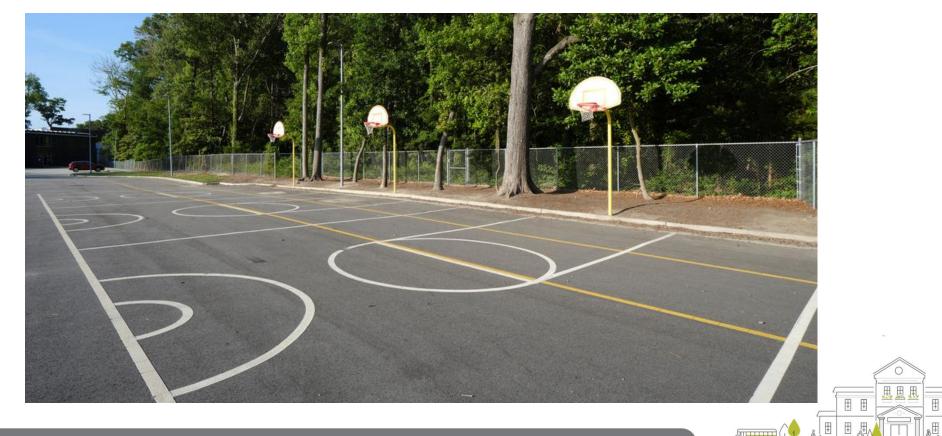
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Community Use

Thoroughgood Elementary Community Basketball



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John B. Dey Elementary Community Garden



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Campostella STEM Academy Community Courts



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Jefferson Houston K-8 School Athletic Community Opportunities



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Larchmont Elementary School Community Recreation Use



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Crossroads Elementary School Community Center



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Old Donation School Hurricane Shelter



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FC Hammond Middle School Fitness Equipment



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Who Do We Work For?







The students

The school community

The community at large

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Goal of Site Design







Greatest Impact

Greatest Number of People Greatest Amount of Time

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Thank You Kimley»Horn



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- EA0 0 I made sure this is editable in case I got something wrong on your credentials Ennis, Alex, 2023-03-23T13:40:14.239