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ueller with you!
LEED AP

Presentation Outline

- Understanding Trauma and Trauma Informed Design
 - Defining Trauma and Why It Matters
 - Adverse Childhood Experiences
 - What is Trauma Informed
 Design and How to Practice it
- Applying a Trauma Informed Design Approach
 - Impacts on Design Process
 - Aquila Elementary School Case Study







Play **Equity** Trauma Informed Design

Latané

Schools That Heal



WISE

DESIGN FOR BELONGING

Steve Maslin Designing Mind-Friendly Environments



PETER **BLOCK** COMMUNITY THE STRUCTURE OF BELONGING

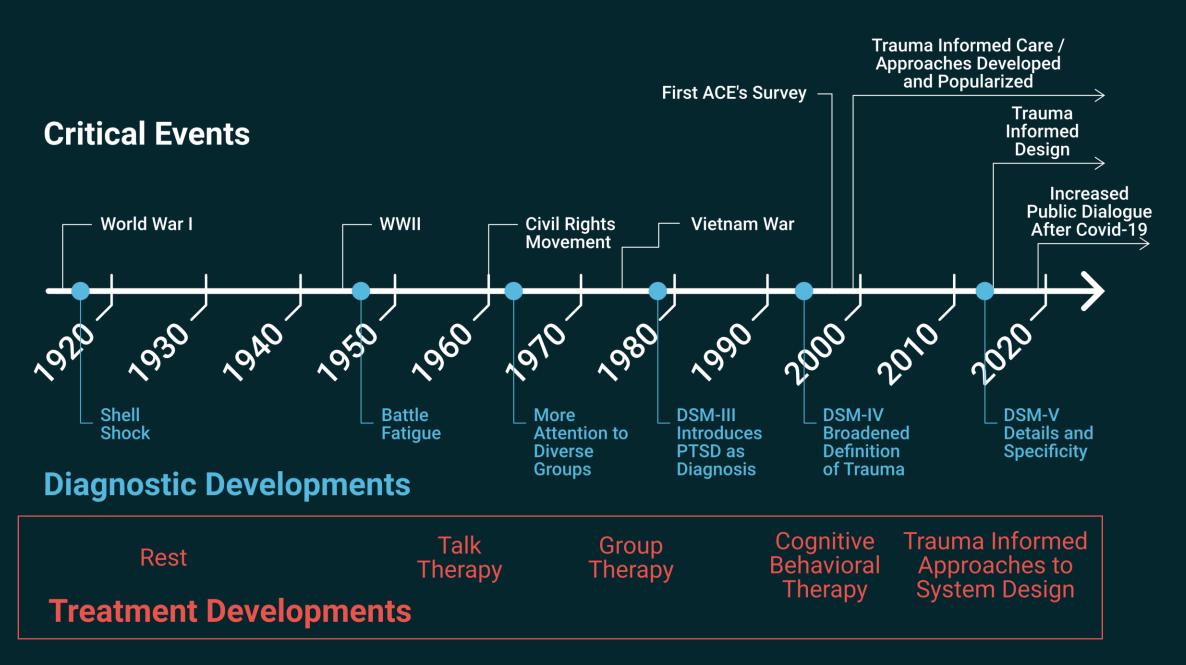
FOSTERING RESILIENT LEARNERS W Kristin Souers with Pete Hall





Ben Channon



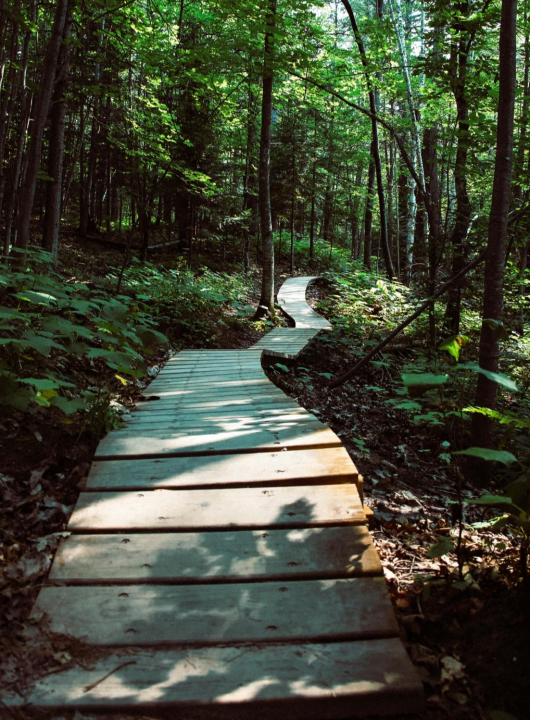




"Individual trauma results from an event, series of events, or set of circumstances that is experienced by an individual as physically or emotionally harmful or life threatening and that has lasting adverse effects on the individual's functioning and mental, physical, social, emotional, or spiritual well-being"

SAMHSA's Concept of Trauma





ACE Categories

- 1. Emotional / Psychological Abuse
- 2. Physical Abuse
- 3. Sexual Abuse
- 4. Parents in Abusive Relationship
- 5. Household Substance Abuse
- 6. Mental Illness in Household
- 7. Incarcerated Householder Member
- 8. Emotional Neglect
- 9. Physical Neglect
- 10. Parental Separation or Divorce
- 11. Bullying *

^{*} added after original survey, assessed with CDC Bully Scale Survey





Category	No Adverse Experiences	One	Two	Three	Four or More
Past Suicide Attempt	1.00	1.80	3.00	6.60	12.20
Injected Drug Use	1.00	1.30	3.80	7.10	10.30
Alcoholism	1.00	2.00	4.00	4.90	7.40
Illicit Drug Use	1.00	1.70	2.90	3.60	4.70
Depression	1.00	1.50	2.40	2.60	4.60
50+ Sexual Partners Over Lifetime	1.00	1.70	2.30	3.10	3.20
Had a Sexually Transmitted Disease	1.00	1.40	1.50	1.90	2.50
Current Smoker	1.00	1.10	1.50	2.00	2.20
Severe Obesity	1.00	1.10	1.40	1.40	1.60
Limited Physical Activity	1.00	1.20	1.20	1.40	1.30
Chronic Bronchitis / Emphysema	1.00	1.60	1.60	2.20	3.90
History of Hepatitis or Jaundice	1.00	1.10	1.80	1.60	2.40
Fair or Poor Self-Rated Health	1.00	1.20	1.40	1.40	2.20
Heart Disease	1.00	0.90	0.90	1.40	2.20
Cancer	1.00	1.20	1.20	1.00	1.90
Past Skeletal Fracture	1.00	1.10	1.40	1.20	1.60
Stroke	1.00	0.90	0.70	1.30	2.40
Diabetes	1.00	1.00	0.90	1.20	1.60



Students with 3 or more ACEs

5x

more likely to have attendance issues

6x

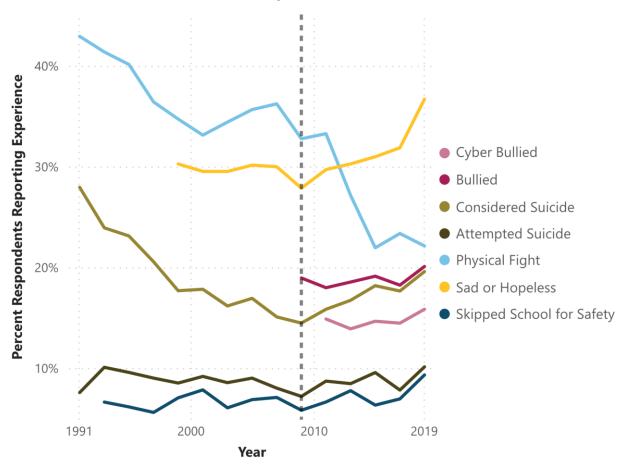
more likely to have behavior problems



more likely to experience academic failure

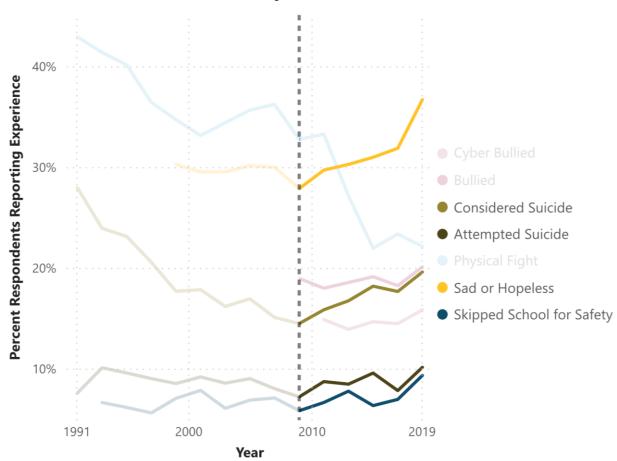
Increasing Prevalence of Mental Health / Safety Indicators

Youth Risk Behavior Surveillance System Trends



Increasing Prevalence of Mental Health / Safety Indicators

Youth Risk Behavior Surveillance System Trends



"In 2021, 42% of high school students felt so sad or hopeless almost every day for at least two weeks that they stopped doing their usual activities"

- CDC Youth Risk Behavior Survey



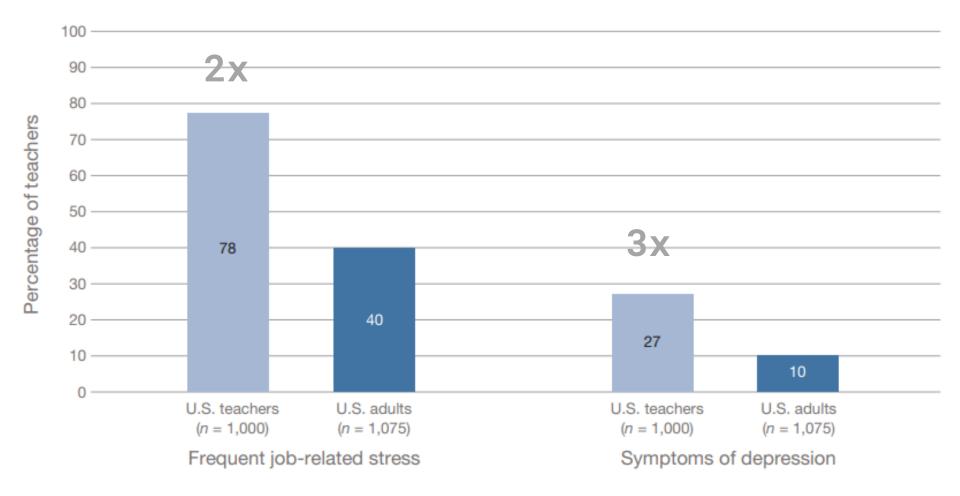
Students in high-achieving schools are now named an 'at-risk' group, study says

Perspective by Jennifer Breheny Wallace September 26, 2019 at 9:00 a.m. EDT

"A consensus study report on advancing health equity among American children published this summer by the National Academies of Sciences, Engineering and Medicine added youths in "high achieving schools" to their list of "at-risk" groups, along with kids living in poverty and foster care, recent immigrants and those with incarcerated parents.

Last year, a report by the Robert Wood Johnson Foundation came to a similar conclusion when it named the top environmental conditions harming adolescent wellness — among them were poverty, trauma, discrimination and "excessive pressure to excel, often, but not exclusively, occurring in affluent communities."

Job-Related Stress and Symptoms of Depression Among Teachers and the General U.S. Adult Population

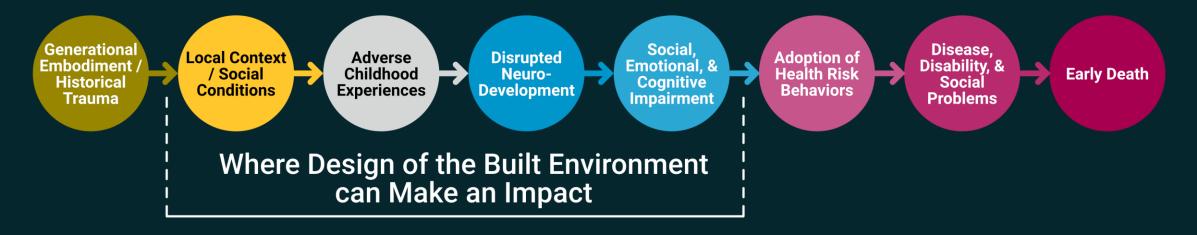


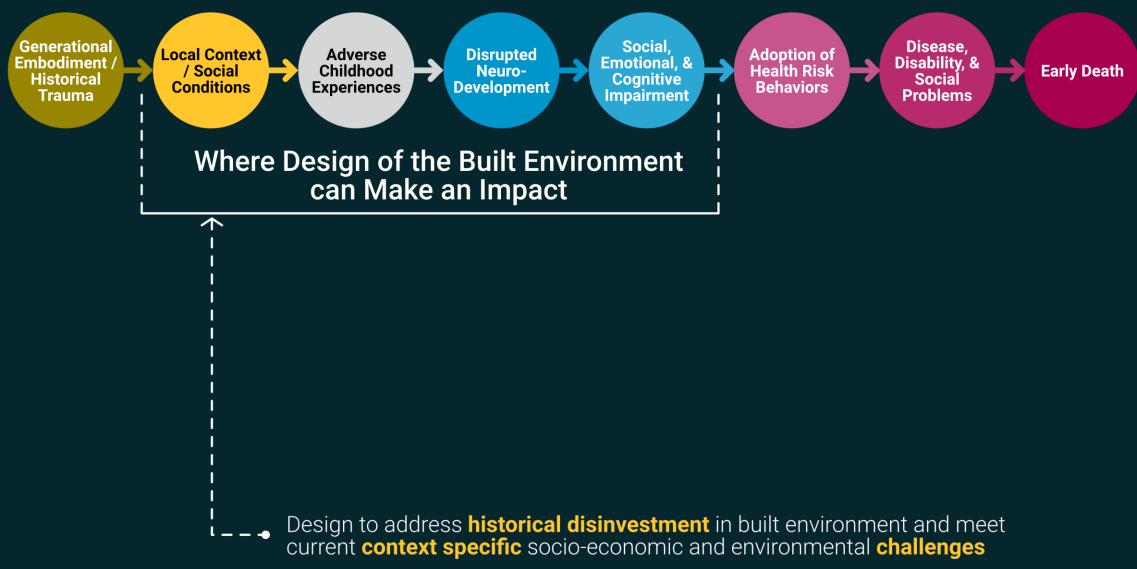
SOURCES: Data for U.S. teachers are from our ATP survey. Data for frequent job-related stress among U.S. adults are from our ALP survey. Data for symptoms of depression among U.S. adults are from the Understanding America Study (University of Southern California Dornsife Center for Economic and Social Research, undated-a).

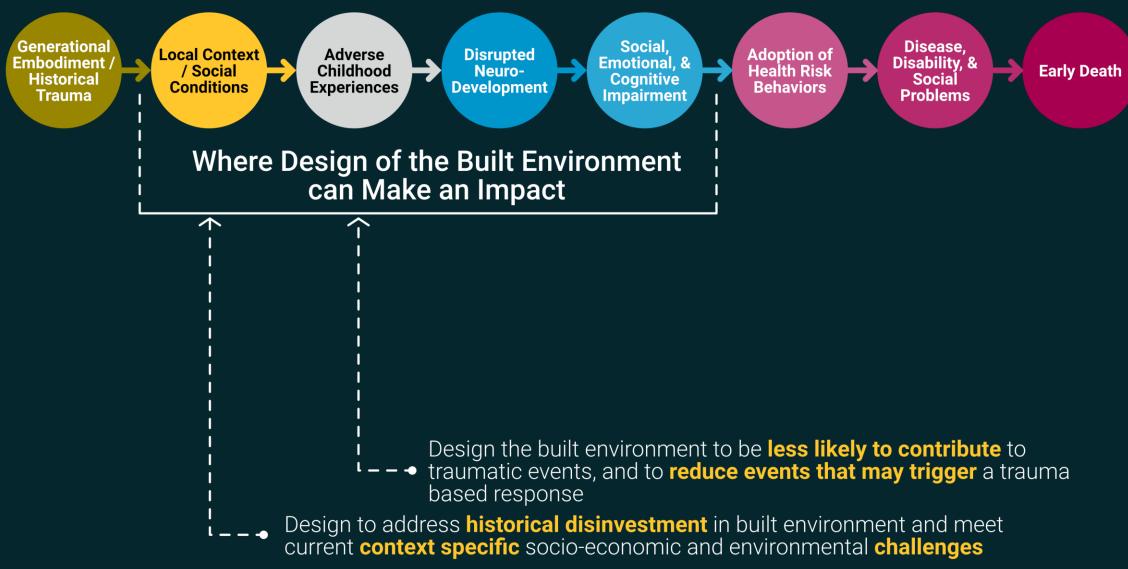
The National Center of Safe Supportive Learning Environments notes the following possible triggers related to the built environment:

- Loud, chaotic environments
- Odors
- Physical touch
- Confinement
- Witnessing violence between other individuals, such as peers fighting
- Areas of school experienced as unsafe, such as bathrooms or less well-monitored areas
- Emergency vehicles and police or fire personnel

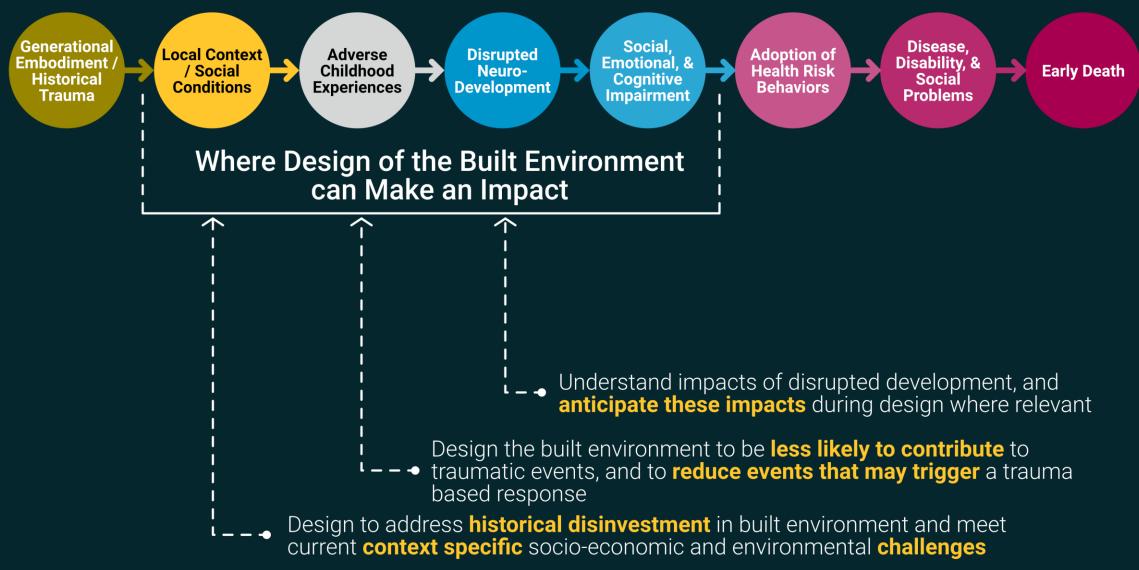




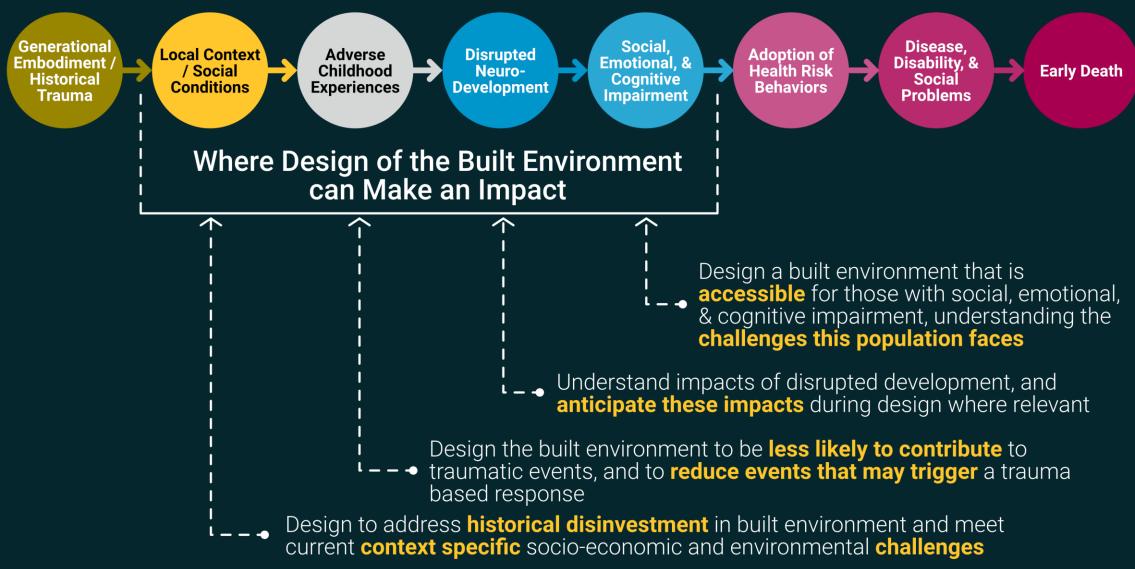




National Center for Injury Prevention and Control, Division of Violence Prevention, 2021. About the CDC-Kaiser ACE Study. [Online] Available at: https://www.cdc.gov/violenceprevention/aces/about.html [Accessed 31 August 2022].



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Passive

Spaces designed to be less likely to trigger trauma-based reactions by the nature of what is included in them and what is not

Intervening

Spaces designed to help those who are currently experiencing a traumabased reaction to recover in a healthy and supported manner

SAMHSA's 6 Principles to a Trauma-Informed Approach

DRH 6 Principles for Trauma-Informed Design

Empowerment & Choice ———

Empowerment & Personal Control

Safety

Security, Privacy & Personal Space

Peer Support

Sense of Community

Cultural, Historical & Gender Issues

Beauty and Meaning

Collaboration & Mutuality

Dignity & Self Esteem

Trustworthiness & Transparency

Stress Management

Empowerment & Personal Control

Encourage individual agency, welcome self-expression and offer choice for occupants

- Pinup Space for Personalization
- Choice Between Variety of Furniture Types / Postures
- Operable Windows and Shades
- Interactive Displays
- Writable Surfaces
- Access to Water Filling Stations



Safety, Privacy and Personal Space

Understand that perceived safety is as crucial as basic safety and recognize the role of program staff in creating a sense of safety and security

- Places of Refuge
- Protected Back Seating
- Clear Wayfinding
- Screened Boundary Conditions
- Inclusive Restrooms
- Passive Observation Sightlines
- Dedicated Locking Storage



Sense of Community

Create spaces that build relationships and offer opportunities to belong

- Welcoming Entry Sequence
- Gathering Spaces
- Ties to Neighborhood,Community and Context
- Conversation Pieces
- Tailored Community Spaces
- Spaces for Community Resources
- Furniture Arranged for Groups



Beauty and Meaning

Honor culture and identity while creating spaces that spark and nurture imagination, hope and aspiration

- Culturally Relevant Designs
- Natural Materials and Avoidance of Sterile Aesthetic
- Reduce Visual Complexity
- Calming Color Schemes
- Nature Walks and Learning Trails
- Connection to Nature
- Local Artwork / Murals



Dignity and Self Esteem

Celebrate each individual's value and identity

- Welcoming Entry
- Furniture and fixtures comfortably sized to occupant sizes
- Project Display
- Equitable Accessibility
- Integrated Resources
- Side Lighting at Mirrors



Stress Management

Cultivate a comfortable, calm ambiance that supports relaxation, self-soothing, and coping

- Plentiful Natural Lighting / Views
- Design for Ease of Cleaning
- Dimmable Lighting
- Window Seats
- Soft Textures and Forms
- Tactile Walls
- Noise Abatement Strategies
- Outdoor Spaces





Teacher Surveys

Rate your overall satisfaction:

- Outdoor teaching/learning opportunities (outdoor classrooms, opportunities to engage with the landscape)
- Equitable access (accessibility, access to resources and space)
- Opportunities to collaborate with other teachers and staff (shared work spaces, shared resources, time to connect)
- Sense of security and control (clear wayfinding, sightlines, paths of retreat, refuge spaces, inclusive restrooms)
- The school celebrates and represents its occupants (meaningful symbols and patterns, spaces that spark the imagination)
- Opportunities for personalization (project display space, classroom display, flexible furniture, variety of settings)
- Welcoming and Inclusive (does the building make you feel welcome?)
- Spaces that Support Student Mental Health (calming rooms, sensory rooms, accessible staff support)

Stress Management

Dignity & Self-Esteem

Sense of Community

Safety, Privacy & Personal Space

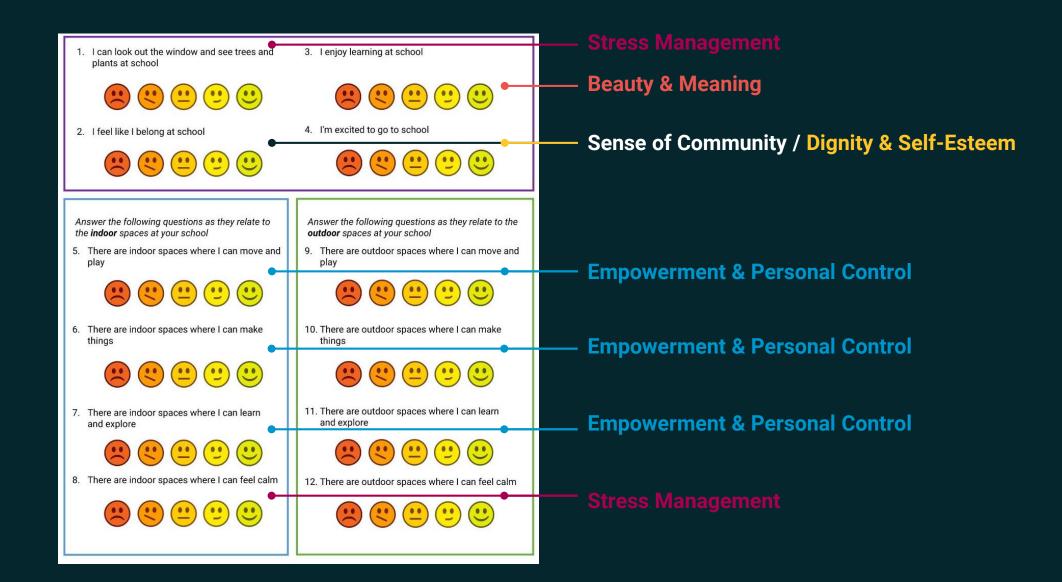
Beauty & Meaning

Empowerment & Personal Control

Dignity & Self-Esteem

Stress Management

Student Surveys



What makes you feel inspired?

Where do you go to relax?

What makes a space feel calming to you?

What types of spaces would the community like to see?

What are you proud of that should be celebrated?

What do you want to be able to do in this space?

Where do you feel like you belong?

What makes you feel (un)comfortable in a space?

What are you curious about?

Potential TID Strategies

SOCIAL SPACES VISIBLE AND ACCESSIBLE FROM MAIN ENTRY

When occupants enter a building and see social interaction happening, there can be a greater sense of belonging and community.

CONVERSATION PIECES

Unique and meaningful design elements or artwork can serve as conversation pieces for occupants to connect and build a sense of community and shared identity.

TAILORED COMMUNITY SPACES

Work with the community to understand what types of activities and events they want to be a part of and design intentional spaces around them.

COLLABORATION SPACE

Provide spaces that encourage group interaction and collaboration. Flexible furniture can be arranged to accommodate a range of group sizes and activities.

CENTRALIZED CHARGING STATION

Locating charging stations in the center of spaces instead of only at the perimeter encourages occupants to mingle and connect to others while using o charging devices.

EQUITABLE AND INTERACTIVE TECHNOLOGY

Ensure that all occupants can see what is being presented or shared. This may mean locating supplemental screens around the space for ease of viewing. Interactive technology can allow occupants to engage and collaborate together, even with people not in the room.

EASILY CLEANABLE MATERIALS

Materials that are easy to clean (and easy to tell that they are clean), such as polyurethane fabric, plastic laminate and solid surface, provide peace of mind that dust, and other debris are not hiding.

CLEAR WAYFINDING

Large educational facilities can have complex floorplans that are hard to navigate. Striving for simple layouts and clear hierarchy of space can make a building more navigable and less intimidating.

SCREENED BOUNDARY CONDITIONS

Screened boundaries allow for passive observation and connection between spaces, while filtering distraction from high activity areas. A screened boundary can create the sense of enclosure while avoiding a sense of constriction from smaller enclosed space.

SIGHTLINES FOR PASSIVE OBSERVATION

Use openness and transparency to allow for passive observation rather than relying on an authority figure. This can make the space feel less surveilled while also keeping eyes on the space for safety.

RETREAT SPACES

Provide spaces that allow occupants to retreat from the stresses of the main space and unwind. This may be an enclosed piece of furniture, a built-in nook, or a small focus room.

INCLUSIVE RESTROOM DESIGNS

Inclusive restrooms embrace the ethics of universal design and provide a private space to recover from stress or triggering events. They serve all occupants equally.

OPERABLE WINDOWS

Provides occupants with a sense of control over the airflow, temperature, humidity and sound in the space.

INDOOR SPACES THAT ENCOURAGE MOVEMENT AND PLAY

Create durable, safe and fun places that spark movement and play. Floor patterns, dynamic lighting, and engaging wall graphics may promote a sense of play.

ZONED AND DIMMABLE LIGHTING

Spaces with different lighting zones allow occupants to change how defined areas are lit and dimmable controls give occupants the ability to modify the brightness to match how the space is being used and how people are feeling in the space.

TOUCH DOWN SPACES

Inspiring, engaging spaces for occupants to transition and connect. Recessed benches or flexible furniture may offer this opportunity.

VARIETY OF FURNITURE TYPES AND ZONES

Provide furniture options with varying degrees of tactility, mobility, and posture. Arrange different types of furniture into zones to give occupants choice of where they want to be.

BRING PLANTS INSIDE

Planting, watering and caring for plants can be therapeutic. In climates with an extended winter season, greenhouses and indoor plants can be used to extend these benefits through the winter.

TRANSITION ZONES BETWEEN SPACES

Create natural and gentle experiences of threshold/transition between spaces of different uses, between interior and exterior, and different levels of social activity.

CURVED FURNITURE FORMS

Soft and organic forms in furniture and finishes can make a space feel more comfortable and reduce stress for occupants.

ACOUSTIC SEPARATION / MITIGATION

Use acoustic separation, like fabric covered space dividers and high STC walls, and mitigation, like sound masking, to reduce unnecessary or overwhelming ambient noise.

HEATED FLOORS

Heated floors provide comfort for learners who occupy the floor space during activities and learning. They can also make spaces feel more welcoming.

QUIET SYSTEMS AND LIGHTS

Equipment and lights that create a buzzing, clicking or subtle sound can be distracting and upsetting. Select quiet fixtures and design acoustic separation from noisy building systems.

LIGHTING FOR CIRCADIAN RHYTHMS

Include lighting that changes intensity and color over the course of the day to correspond to people's natural circadian rhythms. A healthy circadian rhythm is associated with improved long-term health and promotes better sleep habits.

WELCOMING ENTRY SEQUENCE

The entry to the space should be well-lit, warm and welcoming. Natural light, comfortable furniture, and clear wayfinding help people feel like they belong.

CAREFUL AND WELL DESIGNED STORAGE

Storage designed to reduce clutter and visual complexity can improve occupant well being, while allowing occupants to feel agency over their spaces and keep them tidy. Well designed storage can double as display to enrich the character of the space.

FURNITURE OPTIONS FOR ALL BODY TYPES

Intermix furniture in a range of sizes and postures, including bariatric and sensory options, allowing occupants to select what feels more supportive and comfortable to them.

ACHIEVEMENT DISPLAY AREA

Design intentional spaces for 2D, 3D, and digital display.

EQUITABLE ACCESSIBILITY

Sloped floors, ramps and elevators which are centrally located and near stairs create a more equitable path of travel for all occupants.

INDIRECT LIGHTING NEAR MIRRORS

Indirect side lighting creates a more attractive lighting condition when looking in the mirror, helping to support self-image.

CULTURALLY RELEVANT DESIGNS

Work with the community to understand the stories that occupants want to see told in the building.

REDUCE VISUAL COMPLEXITY

Irregular, cluttered, and highly contrasting spaces can be confusing and disorienting. Minimize the interior palette to contain only what is necessary to serve the building and tell the story.

NATURE WALKS AND LEARNING TRAILS

Accessible pathways through natural surroundings can support sense of place and teach occupants about the natural ecosystem.

NATURAL AND TEXTURED MATERIALS

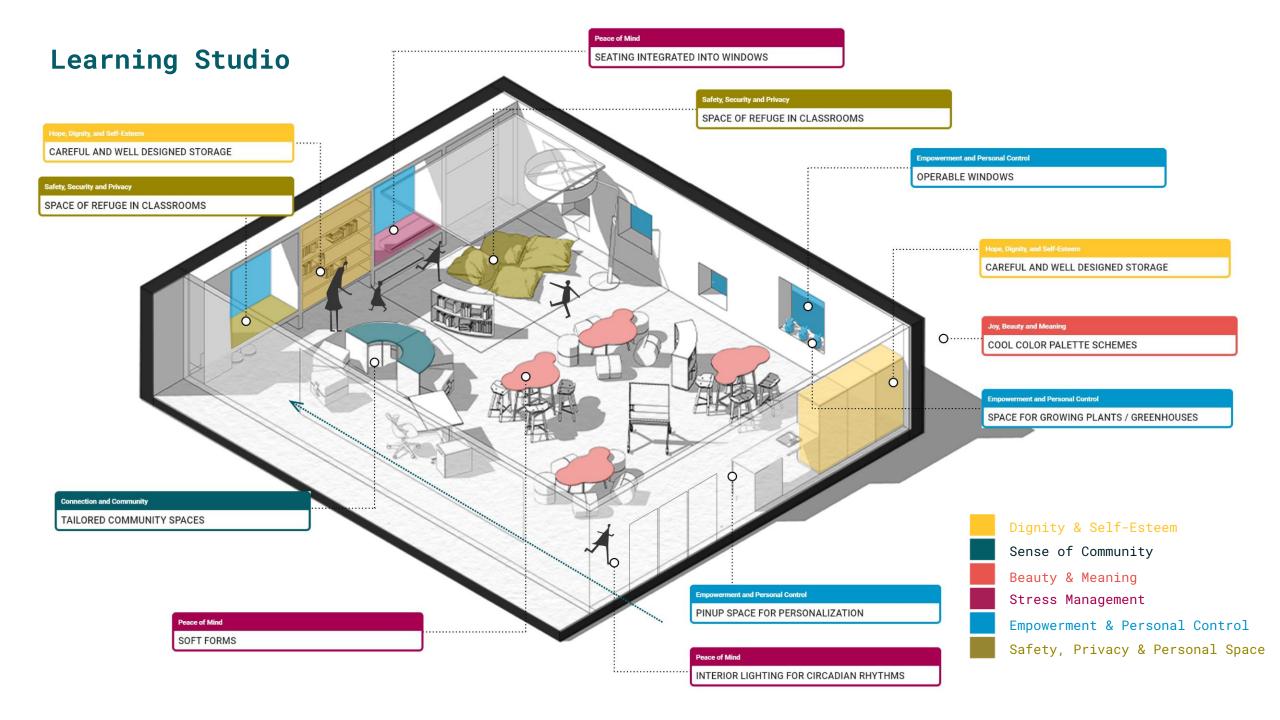
Materials like wood, stone, and textured fabric add warmth, authenticity, and softness to the space.

MEANINGFUL COLOR PALETTES

Work with the community to understand what colors are most meaningful and use them to add character to the space.

STORYTELLING AND DISPLAY

Intentional spaces for storytelling and changeable displays infuse the space with identity and meaning.



Main Entry

Beauty and Meaning

NATURAL LIGHT INTO LEARNING SPACES

Security, Privacy & Personal Space

SPACES FOR "PROSPECT"

Sense of Community

CONVERSATION PIECES

Beauty and Meaning

NATURE WALKS AND LEARNING TRAILS

Stress Management

AUTHENTIC CONSTRUCTION MATERIALS

Sense of Community

COMMUNITY RESOURCES

Empowerment & Personal Control

SPACES THAT ENCOURAGE MOVEMENT AND PLAY



Security, Privacy & Personal Space SCREENED BOUNDARIES

Security, Privacy & Personal Space EXTERIOR AWNINGS / SHELTERED

Security, Privacy & Personal Space

INTENTIONAL SIGHT LINES FROM INTERIOR TO MAIN ENTRY

Sense of Community

DIRECT CONNECTIONS TO THE EXTERIOR

ignity and Self Esteem

WELCOMING ENTRY SEQUENCE

Stress Management

AUTHENTIC CONSTRUCTION MATERIALS PERIMETER SEATING

Beauty and Meaning

NATIVE LANDSCAPES

Neighborhood Commons



ACOUSTIC SEPARATION / MITIGATION

Secuity, Privacy & Pesonal Space

SPACES FOR "PROSPECT"

Beauty and Meaning

TRANSPARENCY BETWEEN SPACES

Dignity and Self Esteer

EQUITABLE ACCESSIBILITY

Beauty and Meaning

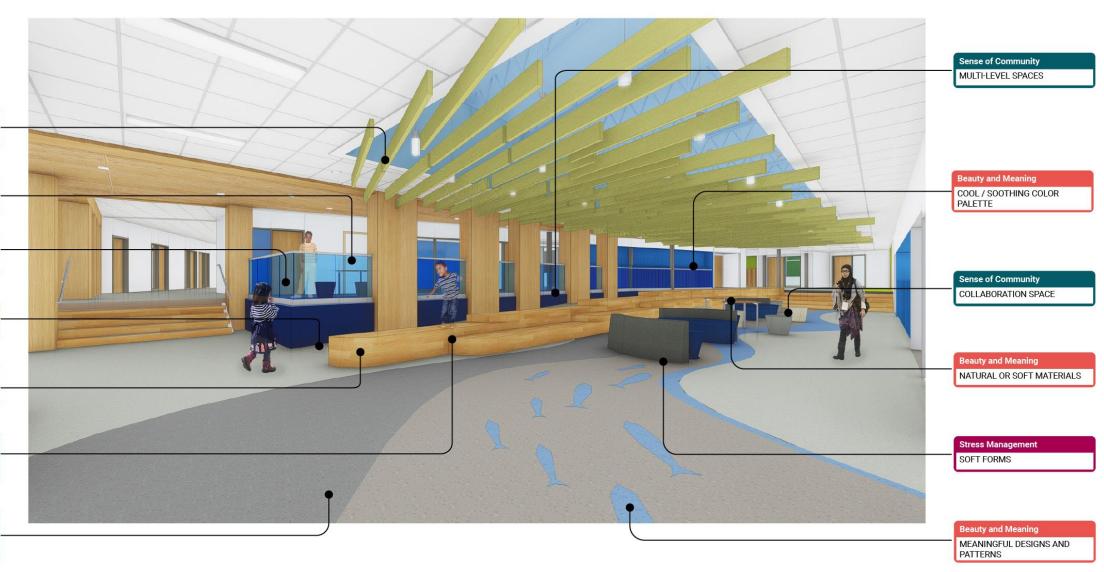
WOOD FURNITURE FOR TACTILE AND VISUAL COMFORT

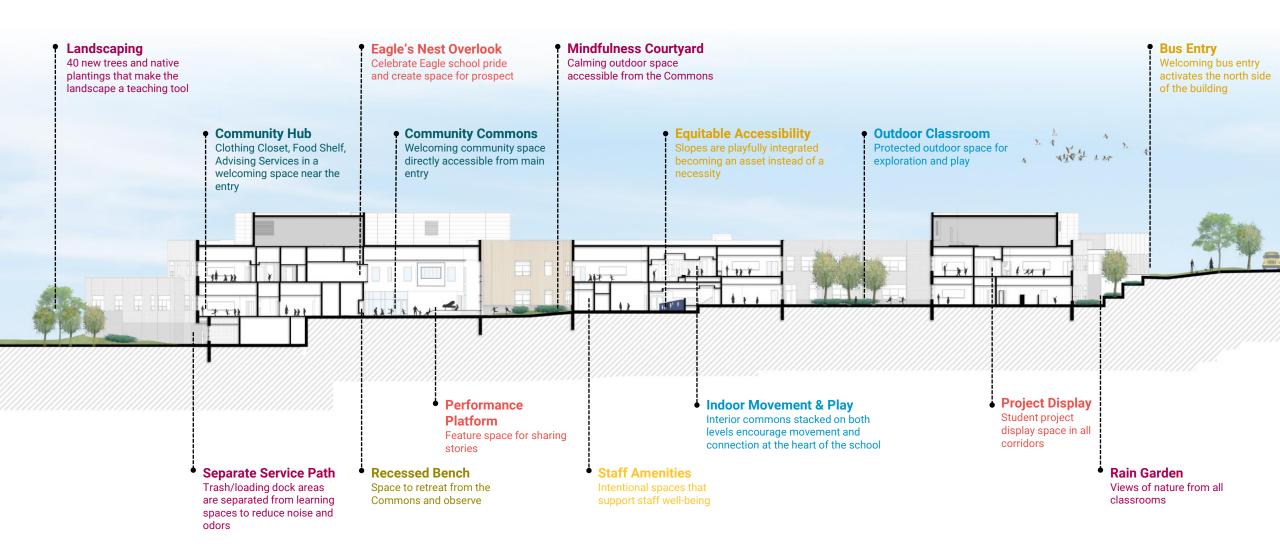
Empowerment & Personal Control

SPACES THAT ENCOURAGE MOVEMENT AND PLAY

Sense of Community

PRIMARY SOCIAL SPACES VISIBLE AND ACCESSIBLE FROM MAIN ENTRY







Aquila Elementary

Applying Trauma Informed Design Concepts

Aquila Elementary School Project Scope



- Provide adequate space for an over-crowded school
- Right-size kindergarten classrooms
- Improve quality and performance of spaces
- Consideration for special education and sensory needs
- Create a welcoming environment for families
- Addition and renovations to be completed in fall of 2025

The brilliance of ourselves and others.

Everyone has the capacity and responsibility to foster the growth and brilliance of others.

Authentic community engagement.

Engaging and supporting our employees, families, and communities will enhance the healthy development of each learner.

High expectations.

Instilling and upholding high expectations empowers students and staff to higher levels of achievement.

Collective responsibility.

Embodying the collective and urgent responsibility of anti-racist practices enriches a work and learning environment and community.

Persistent effort.

Through persistent effort we will create anti-racist schools and academically successful learners.

Racial consciousness and cultural competence.

Racial consciousness and cultural competence are essential to each person's ability to be a catalyst for change.

Advocacy for equity.

Everyone has equal intrinsic worth and we will advocate for the historically marginalized.













What would most benefit Aquila Elementary School?



SMALL GROUP ROOMS



LARGE COLLABORATIVE SPACES



ACTIVE LEARNING SPACES



ACOUSTICAL UPDATES IN CAFETERIA



OUTDOOR LEARNING



IMPROVED SPECIAL ED RESTROOMS



VARIETY OF FURNITURE



QUIET RETREAT SPACES



SENSE OF BELONGING



STAFF COLLABORATION



SENSORY ROOM

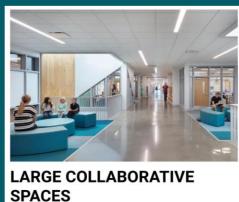


INCLUSIVE RESTROOMS

What would most benefit Aquila Elementary School?

Empowerment & Personal Control









Security, Privacy, & **Personal Space**

Sense of Community

Beauty & Meaning



OUTDOOR LEARNING



IMPROVED SPECIAL ED RESTROOMS



VARIETY OF FURNITURE



QUIET RETREAT SPACES

Dignity & Self Esteem

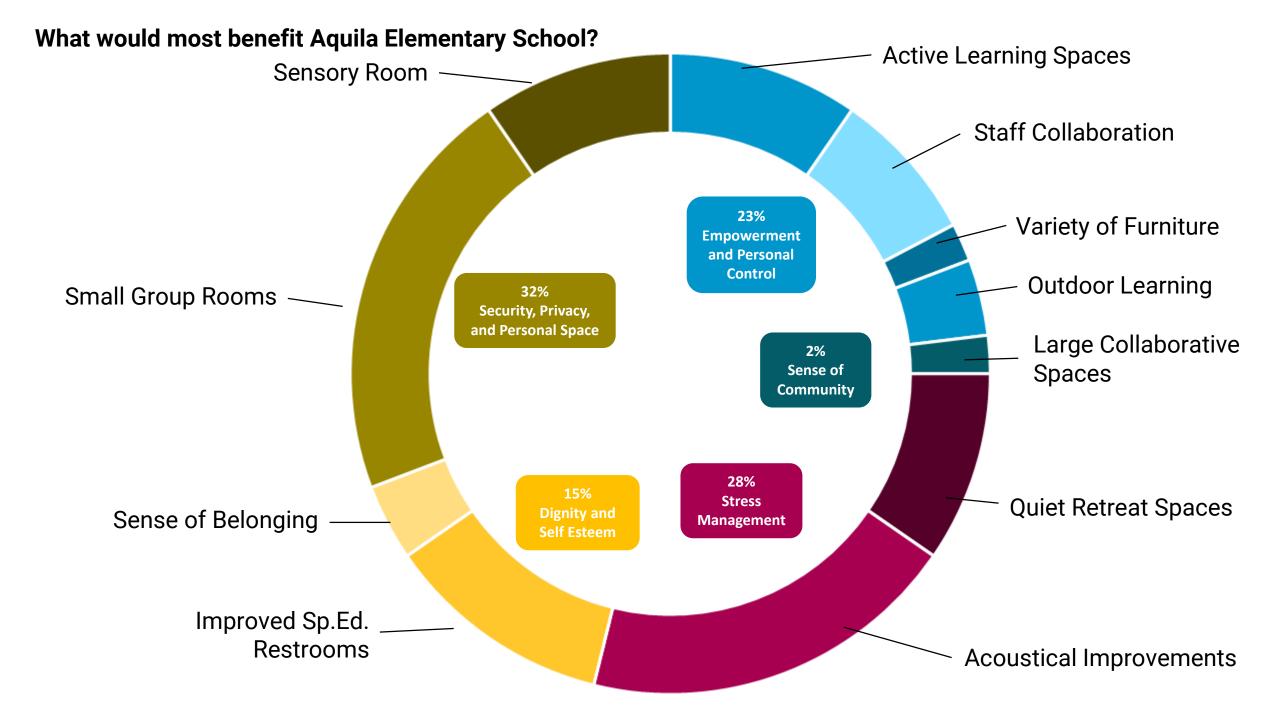
Stress Management





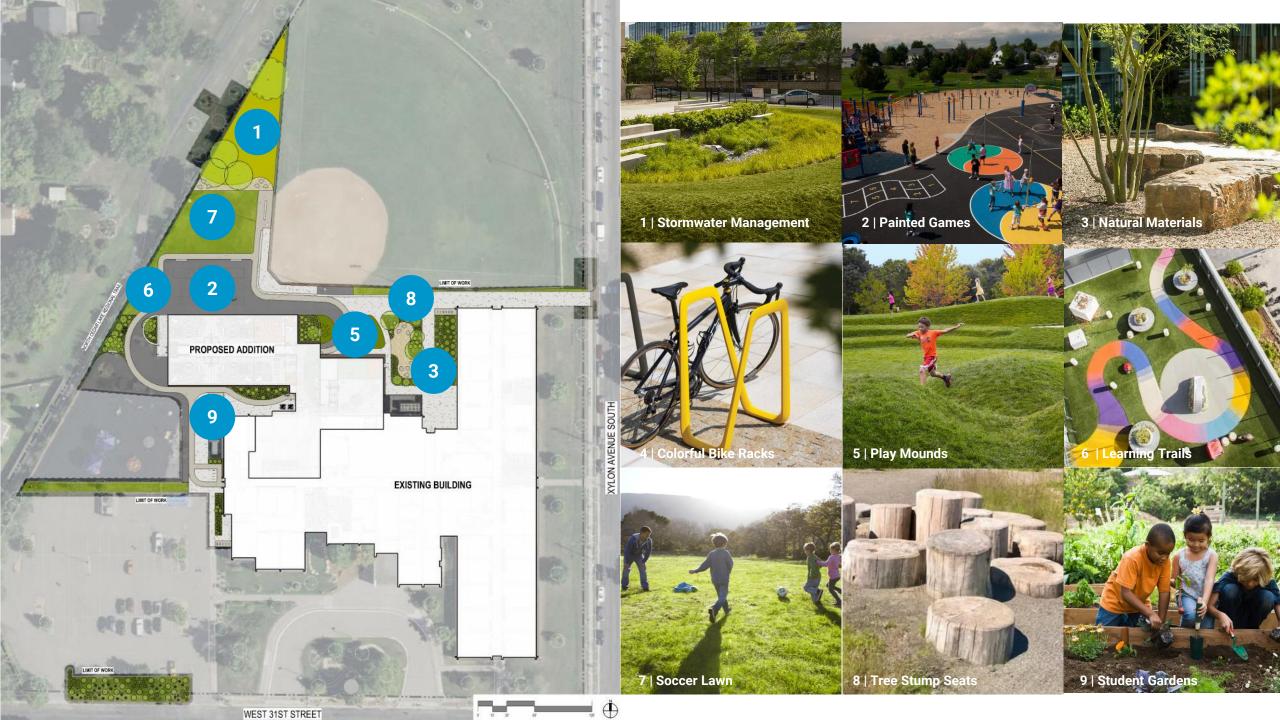






Security, Privacy and Personal Space SPACES FOR "PROSPECT" Beauty and Meaning NATURE WALKS AND LEARNING TRAILS Security, Privacy and Personal Space CLEAR WAYFINDING FURNITURE AND FIXTURES SIZED TO YOUNGER OCCUPANTS Stress Management VISUAL CONNECTION TO THE OUTSIDE Sense of Community DIRECT CONNECTIONS TO THE EXTERIOR Empowerment and Personal Control SPACE FOR GROWING PLANTS / GREENHOUSES WELCOMING ENTRY SEQUENCE Stress Management ACOUSTIC SEPARATION / MITIGATION Sense of Community COMMUNITY RESOURCES Security, Privacy and Personal Space INCLUSIVE RESTROOM DESIGNS

EXTERIOR AWNINGS / SHELTERED SPACES **Empowerment and Personal Control** VARIETY OF FURNITURE TYPES AND ZONES WOOD FURNITURE FOR TACTILE AND VISUAL COMFORT Sense of Community COLLABORATION SPACE Empowerment and Personal Control SPACE THAT ENCOURAGES MOVEMENT AND PLAY Security, Privacy and Personal Space CLASSROOM CLASSROOM QUIET ZONE CLASSROOM CLASSROOM SENSORY **EQUITABLE ACCESSIBILITY** STORAGE CLASSROOM CLASSROOM AVENUE AREA FOR PERSONAL SPACE CLASSROOM BOLER NATURAL OR SOFT MATERIALS Engoworment and Personal Control LIMIT OF WORK CLASSROOM TOUCH DOWN SPACES CLASSROOM MEDIA CENTER CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM CLASSROOM







Trauma Informed Design is just good design.

Thank you!

QQA



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We'd love to connect with you!



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Cuningham

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