

Pierce School Building Committee Agenda

- 1. Announcements, Updates, and Comments
- 2. Project Approvals:
 - April 1, 2022 SBC Meeting Minutes
- 3. Building and Site Design Progress
- 4. CM at Risk Update
- 5. Old Business
- 6. New Business
- 7. Public Comment



Pierce School Building Committee Meeting

04/14/2022





Agenda: Exterior Design Progress

- Windows + Daylighting
- Exterior Building + Site Design Progress
- Color + Materials
- Discussion + Next Steps



Windows + Daylighting

Tuning the type, amount, and detailing of the windows



Balancing Solar Resources



Facade Design



Performance Metrics: Optimize WWR (Window/Wall Ratio) of 25-35%













Balancing Solar Resources



Balancing Solar Resources



Facade Design











Sun Path Diagram (School hours 8:00-2:30)

















North West, East, South Classrooms - Daylight Pattern



East Classrooms/ Offices - Performance Studies



East Classrooms/ Offices - Performance Studies



East Classrooms - Daylight Pattern



North West Classrooms - Performance Studies



North West Classrooms - Performance Studies



North West Classrooms - Daylight Pattern



South Classrooms - Performance Studies



South Classrooms - Shading Studies



South Classrooms - Daylight Pattern



Light Shelves Shading Strategies - With or Without PV



Thurston Elementary School Mahlum Architects Inc. Springfield, Oregon, United States Credit: Lincoln Barbour (www.lincolnbarbour.com)



Exterior Design Progress



Brookline Pierce School

04/14/2022

What we heard

DETAILS

Simplify patterning/detailing Sun shading only where needed Be mindful of constructability + maintenance

WINDOWS

Prioritize classroom daylighting Show operable windows Sun shading only where needed

SPECIFIC FEEDBACK Specific comments on each part of the building

CHARACTER

Be bold, but relate to the neighborhood Nod to the current building's personality Glad to see some lightness

MATERIALS

Balance scale + variety Are there too many materials? Color would be interesting





WINDOWS Prioritize classroom daylighting Show operable windows Sun shading only where needed





School St.

DETAILS

Simplify patterning/detailing Sun shading only where needed Be mindful of constructability + maintenance

Welcoming courtyards are successful Trees in courtyards for further study Universal design → everyone uses the ramp Talk to Parks about maintenance

Unsure about the three columns & the space they create











Pierce entrance

MATERIALS

Balance scale + variety Are there too many materials? Color would be interesting

Approach is welcoming Unsure about the sun shading gesture on this glass facade



UPDATED Colored Fins + Glass







UPDATED Colored Fins











UPDATED













Material Palette

Responding to Context, Sustainability, and Budget



Materials informed by context





Masonry Primary material of the building





Materials Palette











Slate Shingle



Color Inspiration











Color Inspiration

SPENCER FINCH

Amuse-Bouche Catalogue Information

«Installations < Previous Next Project > -STREE

ULYSSES (SEPTEMBER 19, 2014) 2014

Pantone chips and pencil. Titled after James Joyce's novel, whose events take place on a single day, this installation is a visual record of a day of walking in Brooklyn and Manhattan, in which about 1,400 colors of various objects were recorded using a Pantone color book.







Color Inspiration







Discussion + Next Steps



Brookline Pierce School

04/14/2022



Masonry

Human Scale Visual Weight Rhythm + Order Natural Texture Color



Shingle + Siding

Human Scale Texture Color Local Vernacular







Metal + Glass

Visual Lightness Modularity Texture Reflectivity Color





Integrated Sunshades Connection to Outdoors



Materiality - Initial Impacts (2030 Paris Targets)

Global Warming Potential





Material Palette Impacts - For Further Study

- Balance masonry (brick) with lighter-weight rainscreen materials
- Minimize glazing while allowing ample daylighting
 - \circ $\;$ Glass where it's needed, not where it isn't $\;$
- Metal: explore zinc, steel, and other single-material formed panel options
 - \circ Color + variation
 - Texture
 - Cost
 - Detailing options
- Shingle: explore stone shingle rainscreen
 - Slate is a thin alternative to limestone
 - Minimize weight



Plans



/2022 Brookline Pierce School

04/14/2022



















3 vertical-ish or 2 wide windows per typical classroom







PV Shading Strategies - South





Additional View tests 1 - S Facade View Option A





Additional View tests 2 - S Facade View Option B -- best (adjust lighting - not so much shade in foreground)





Additional View tests 1 - NE Facade view change Do we want to add this view or replace the current School Street view with this view?



Additional View tests 2 - Courtyard View Option B







Typical + Kindergarten classrooms







LIGHT SHELF OPTION



WINDOWS Prioritize classroom daylighting Show operable windows Sun shading only where needed

TODAY

North West, East, South Classrooms - Daylight Pattern

Goals + Priorities

from Feasibility to Schematic Design

04/14/2022
Exterior Design Goals + Priorities

- Responds to neighborhood context
- Responds to Educational Plan
 - Facades that make learning visible
 - Outdoor learning
 - Indoor-outdoor connections + views
 - Sense of whimsy
- Welcoming site + exterior
 - Inviting, accessible entrances
 - Safe, intuitive, pleasant pedestrian flow
- Design is forward-looking and exciting, expressing sustainability
- Sustainably designed
 - More detail on this next time!



Exterior Design Strategies

- Neighborhood context informs the massing + material palette
- "Building blocks" composed to evoke a sense of whimsy and maintain a child-appropriate scale
- Welcoming, transparent ground floor(s) and entrances
- Window strategy balances daylight, views, shading, and insulation needs
- Accessible, inviting, welcoming, safe site





Performance Metrics















MDS SASAKI







Facade Design



Building Scale- Solar Radiance Potential





Building Scale- Solar Radiance Potential





Building Scale- Solar Radiance Potential







Facade Design

