

2014 Exhibition of School Planning and Architecture

Patch Elementary School

DoDEA

Stuttgart | Baden-Württemberg, Germany



SCHOOL ENTRY



1 Amphitheatre

A structured outdoor seating area for music and performance activities

2 Learning Terrace

An outdoor space to support eating and academic functions

3 Observation Deck

At this steeply sloping site, an overlook is provided as both a meeting point and an observation area

4 Bridge

The bridge signifies the departure from the school into the more naturalized portion of the site

5 Wilderness Trail

This rustic trail serves to connect the bridge to naturalized gathering and discovery areas of in the wooded portion of the site

6 'Tot' Lot

Pre-K and Kindergarten play area

7 Equipment Play

Play equipment for each age group

8 Court Play

Sports and play courts

9 Turf Play

Sports and play fields

- Classroom
- Outdoor Teaching
- Multipurpose
- Circulation
- Support
- Entry

Second & Third Grade Neighborhoods
Flexible Studio Space

UPPER FLOOR

Learning Street
Multipurpose Space
'Specials'

Fourth & Fifth Grade Neighborhoods
Flexible Studio Space

LOWER FLOOR

Kindergarten & First Grade Neighborhoods
'Tot' Lot

LOWER FLOOR

EL +0.0m
EL -1.5m
EL -13.5m

Flexibility and Adaptability – - A School Model



MULTIPURPOSE ROOM

Community as a Bridge - Cultivating discovery in the 21st Century Learner

"Immersing your young children in a foreign culture is partially an act of faith, and it takes a strong community to provide the opportunity and a strong parent to take advantage of it."

Parent, Patch Elementary
Visioning session

Teacher Collaboration

A professional space where teachers collaborate during a shared planning period and allows the classrooms to be shared spaces

Learning Hub

The open and flexible breakout space shared among the community for meetings, presentations, and project based learning.

Small Group and 1:1 Rooms

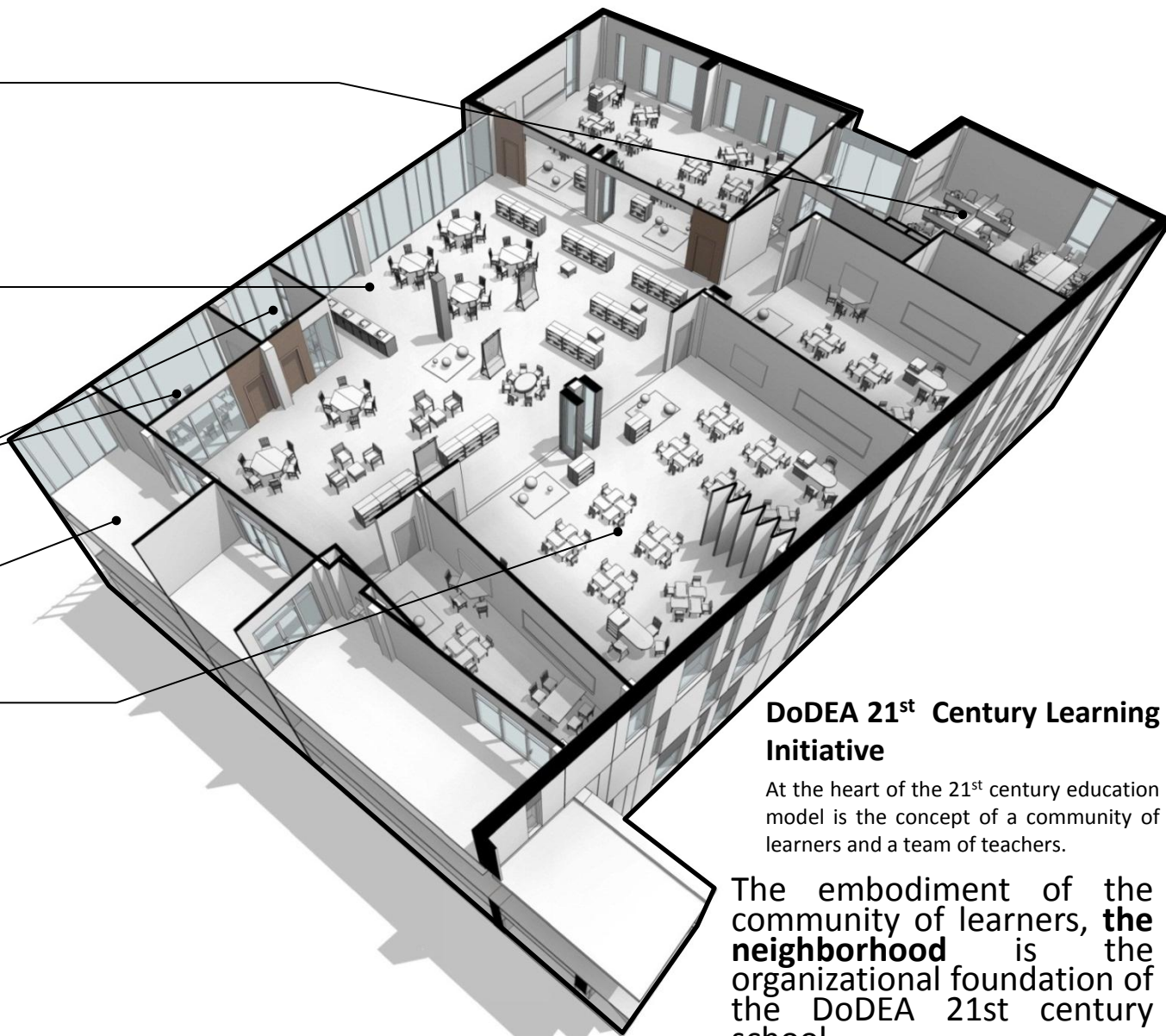
Additional shared space for student interventions & support

Flex Studios

Flexible space designed to accommodate larger groups and interdisciplinary learning

Learning Studios

The equivalent of the classroom, yet shared among teachers and students. Operable partitions allow the paired studios to be combined, and allow any studio to open up to the Learning Hub.



DoDEA 21st Century Learning Initiative

At the heart of the 21st century education model is the concept of a community of learners and a team of teachers.

The embodiment of the community of learners, **the neighborhood** is the organizational foundation of the DoDEA 21st century school.

It is comprised of *Learning Studios, Learning Hubs, Group and 1:1 Rooms, and Teacher Collaboration Spaces.*



EXTERIOR COURTYARD

Extending the learning environment -

Open courtyard space extends learning space to outdoors, connecting the students with the environment.

“On a tight sight with a tight program, the exterior courts provide a quasi-sheltered space easy for teachers to push out into. It will be our outdoor commons.”

3rd grade teacher, Patch Elementary
Visioning Session



PERFORMANCE & MUSIC SPACES

Learning on Display
Transparency/Visual Connectivity
Student Work/Activity



EXTERIOR PLAY SPACE

Reflecting on Nature -

Neighborhood glazed wall-

- Provides views of preserved forest
- Reflects forest, dematerializing building



COLLABORATIVE STAKEHOLDER DESIGN CHARRETTE

- Small Learning communities
- Team teaching
- Student –Centered
- Differentiated Learning Environment
- Multiple modalities
- Project-based learning
- Multi-age classrooms

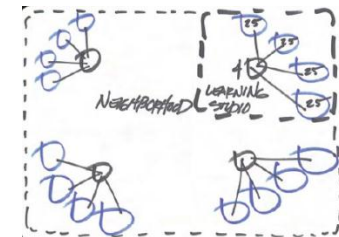
The first step in the planning process was the work done with DoDEA to create their 21st Century Education Facilities Specification. Based on our experience and success with DoDEA we were invited to collaborate in the creation of their new guiding document

Through a series of workshops, we engaged in a discovery process to get at the heart of what 21st Century Education should be and determine what is the facility response to that need.

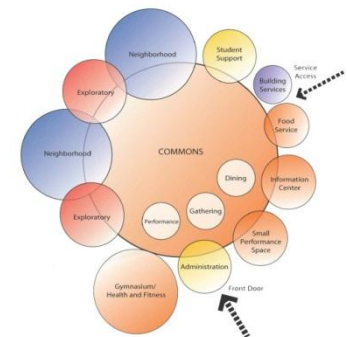
Once the aspirational character of the school took shape, the working group then helped distill the fundamental spaces needed. The result was the **DoDEA 21st Century Educational Facility Specification** and even more importantly, the DoDEA Design Center, a collaborative group of planning and design professionals sharing best practices and advise on fine tuning of the specifications



STUDENT INVOLVEMENT



NEIGHBORHOOD ROUGH DIAGRAM

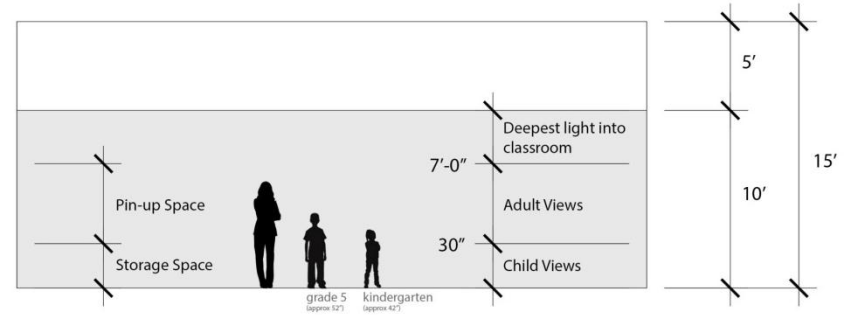


DoDEA 21st CENTURY EDUCATION SPECIFICATION DIAGRAM



- Long Format Acoustical Tile Ceiling
- Clustered Downlighting
- Feature Pendant Light
- Recessed Wall Washer Light Fixture
- Accent Color Painted GWB
- Gloss Painted White Acoustical Perforated GWB
- Eggshell Painted White Acoustical Perforated GWB
- Millwork with White Laminate
- Cork Pin-up Board for Student Work Display
- 'Woodlands' Printed Graphic Vinyl Wall Covering
- Trophy Case
- White Text Supergraphic Signage on Accent Color Painted GWB at 'Frame Walls' typ.
- Reveal
- White Solid Surface Bench
- Flooring, See Schedule
- Base, See Schedule

LEARNING STREET DESIGN



STUDENT CENTERED SPACES

- Administration
- Commons
- Gym/Athletics
- Academic Support
- Learning Studios
- Student Services
- Specials
- Building Services



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PATCH ELEMENTARY SCHOOL | **Ground Floor plan**

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Submitting Firm :	EwingCole
Project Role	Planner / Designer / Engineering
Project Contact	Stephen Gastright, AIA
Title	Educational Planner / Designer
Address	100 N. 6 th Street
City, State or Province, Country	Philadelphia, PA 19106
Phone	215. 625.4162

Joint Partner Firm:	Onyx
Project Role	Architecture
Project Contact	Enrique Villa
Title	Project Manager
Address	1199 N Fairfax St
City, State or Province, Country	Alexandria, VA 22314
Phone	703.894.1955

Project Name	Patch Elementary School
City	Stuttgart, Baden-Württemberg, Germany
State	
District Name	DoDEA
Supt/President	Eric Lipowicz / Elizabeth Dunham
Occupancy Date	9/2018
Grades Housed	PK-5
Capacity(Students)	551
Site Size (acres)	8 acres
Gross Area (sq. ft.)	107,459
Per Occupant(pupil)	195 gross
gross/net please indicate	
Design and Build?	
If yes, Total Cost:	
Includes:	
If no,	
Site Development:	\$6.99 M
Building Construction:	\$31.89 M
Fixed Equipment:	\$414,000
Other: Furn / IT	\$1.777 M
Total:	\$39 M