



Welcome Ramp Systems, Inc.

Case Study

Lincoln High School Portland, Oregon



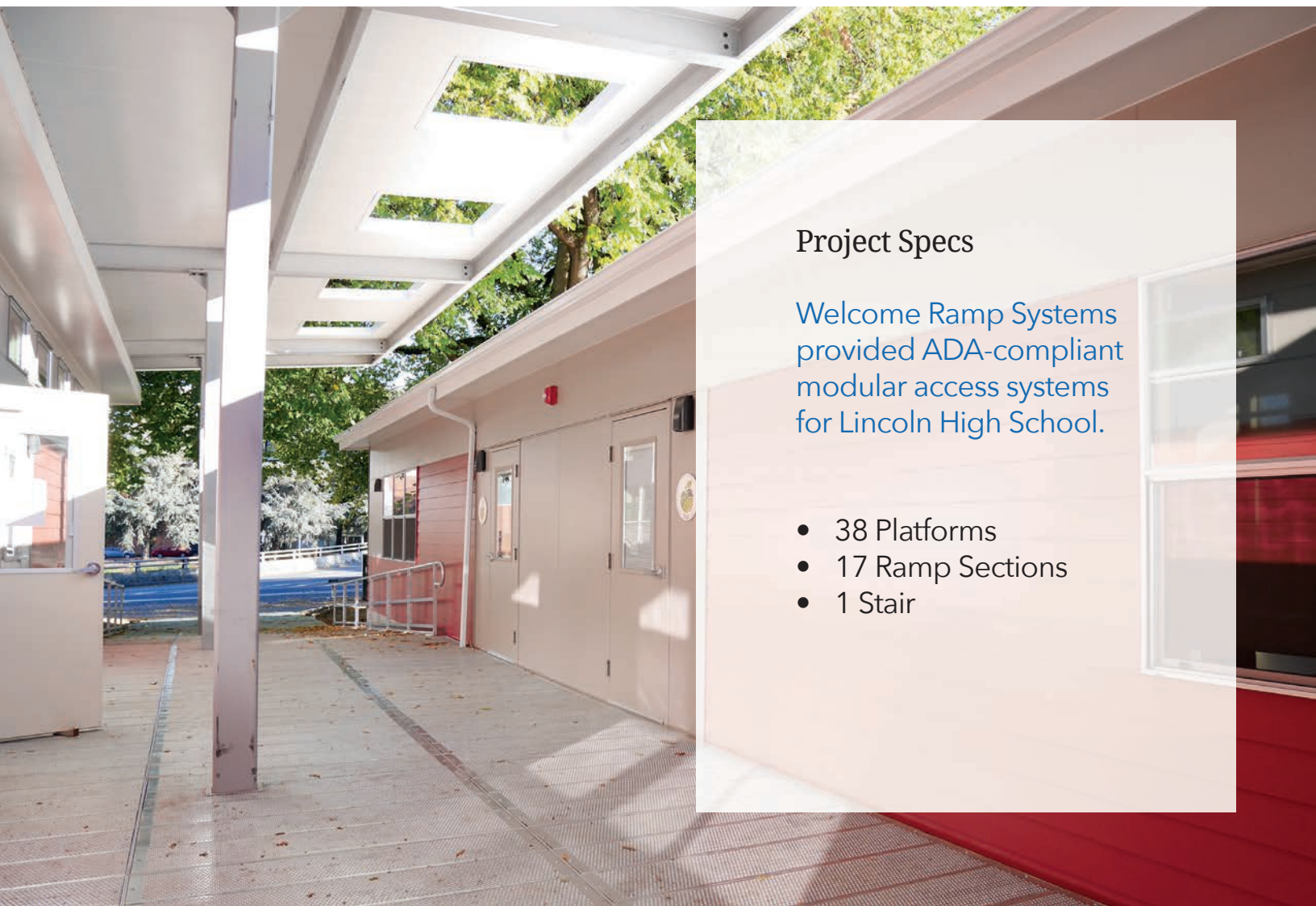
Situation

Lincoln High School, located in Portland, Oregon, needed modular classrooms with access ramps, walkways, platforms, and stairs.

The school suffered a fire which damaged two existing modular buildings. This prompted the school to replace and expand the original site with four classrooms and two restroom units.

The school required an economical, ADA-compliant modular access system that could be disassembled, moved to a new location, and reconfigured.

Pacific Mobile Solutions, provider of modular buildings, was commissioned for the modular units. Welcome Ramp Systems, provider of ADA-compliant modular or fixed aluminum access systems, was selected as the ingress and egress vendor.



Project Specs

Welcome Ramp Systems provided ADA-compliant modular access systems for Lincoln High School.

- 38 Platforms
- 17 Ramp Sections
- 1 Stair

Unique Challenges

Environmental

Lincoln High School is on the **historic registry** of the city of Portland. Outside parties were required to approve or monitor aesthetic, structural, and vegetation concerns.

An added layer of special permits were required due to the unusual status of the site. Welcome Ramp Systems worked with all parties from an engineering and logistics perspective to assure the project remained within these special requirements.

An arborist was retained to monitor the root structure of the old-growth trees living on-site. None of the new structures, nor any demolition or construction required for the project, could impact the old-growth heritage trees. This required detailed site ingress and egress planning to ensure the trees and their root structures would remain undisturbed.

The project had to meet the city's **Green Building Policy** guidelines and was overseen by a Portland Public Schools

Project Manager. The access systems and modular units had to conform to the standards, including addressing future recycling requirements. Unlike wooden platforms, stairs, and ramps, the Welcome Ramp Systems aluminum access products are designed to be reusable, and fall well within the recycling requirement of at least 85% reuse.

Continuity

The six units, including the ramps, platforms, walkways, rails, and stairs had to be organized as a single-flow group.

A continuous path from the concrete deck of the main building to each of the new units via aluminum walkways had to be created.

A steel canopy had to span the entire walkway leading to each of the units.

The school required an expeditious solution that enabled students to travel unimpeded from the main building, shielded by a canopy from the weather elements, to any of the new modular units.

Solution



Welcome Ramp Systems provided project design assistance and addressed the complex engineering requirements. Standard and extra documentation was required for this project and was produced by Welcome Ramp Systems.

Work between the architectural aesthetics committee, the Portland Public Schools Project Manager, the steel canopy engineer, canopy installer, and Welcome Ramp Systems resulted in a seamless canopy with columns that penetrated the decking. This met the continuity requirements and proved durable yet aesthetically pleasing.

This project conformed to the Portland City Green Building Policy and adhered to strategies required by the state of Oregon Department of Energy. This helps the school to be eligible for the Sustainable Building Business Energy Tax Credit.

Results

Every nuance of this project required detailed site planning and multiple field verifications to ensure accuracy and safety.

Welcome Ramp Systems worked with multiple agents, from the arborist, to the architectural committee, Pacific Mobile Systems, and sub-contractors assigned to the concrete and foundational work.



Welcome Ramp Systems delivered on-time and on-budget an aesthetically pleasing, highly functional, and ADA-compliant access system. The unique requirements were met and the school will be able to re-use the access system when it moves to a different location in the future.

Students are protected from the weather as they make their way from the main school structure to the new portable units. Students are able to use the original

building exit doors and transverse the walkways directly to the portable class.

The school is free of the costly repair, maintenance, and eventual demolition required by wooden access systems.

Upon relocation, the school will save about 90% of the materials costs versus a single-use wooden system. The new aluminum access system **meets the 85% reusable requirement** set forth by the city of Portland.



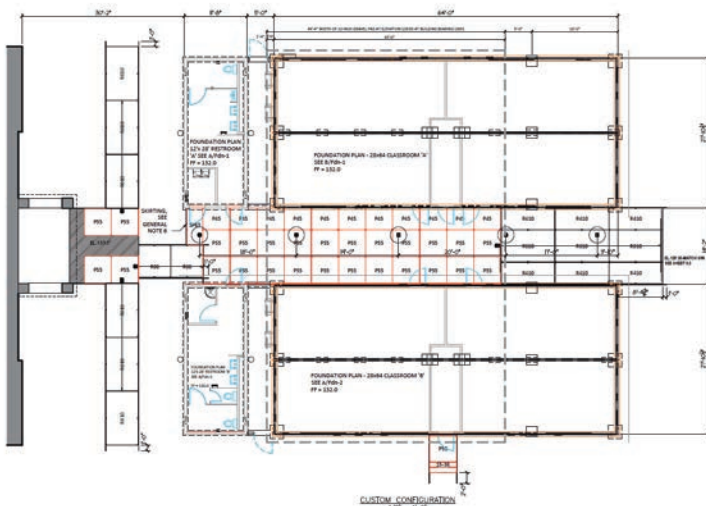
“Welcome Ramp Systems provided amazing site and project services. The client is extremely pleased and they’re saving money. The staff at Welcome Ramp Systems delivered an outstanding product in the face of so many unique challenges,” said Patrick Allen, Major Projects Sales Representative, Pacific Mobile Solutions.

“There is no other company providing this level of quality and service. They are an experienced, talented contractor we simply never have to worry about.”

ALUMINUM MODULAR RAMP & STAIR SYSTEM CONFIGURATION

TYPICAL COMPONENT SIZES

- LANDING: 4'x7', 4'x4', 4'x3', & 3'x7' STEEL OR BE WELDED TOGETHER FOR LARGER PLATFORMS
- STAIRS: 10' LONG, 4' OR 4'6" WIDE, 4' x 10' LONG, & 3'7" WIDE OR BE WELDED TOGETHER TO FORM A WALKWAY 30' WIDE
- STAIRS: 6'x7' WIDE x 12' TREAD x 48" RISE



Welcome Ramp Systems, Inc.

3902 B Street NW
Suite B
Auburn, WA 98001

sales@welcomerampsystems.com

(866) 935-9255
welcomerampsystems.com