



CASE STUDY

TURNSTONE PLASSMAN ATHLETIC CENTER





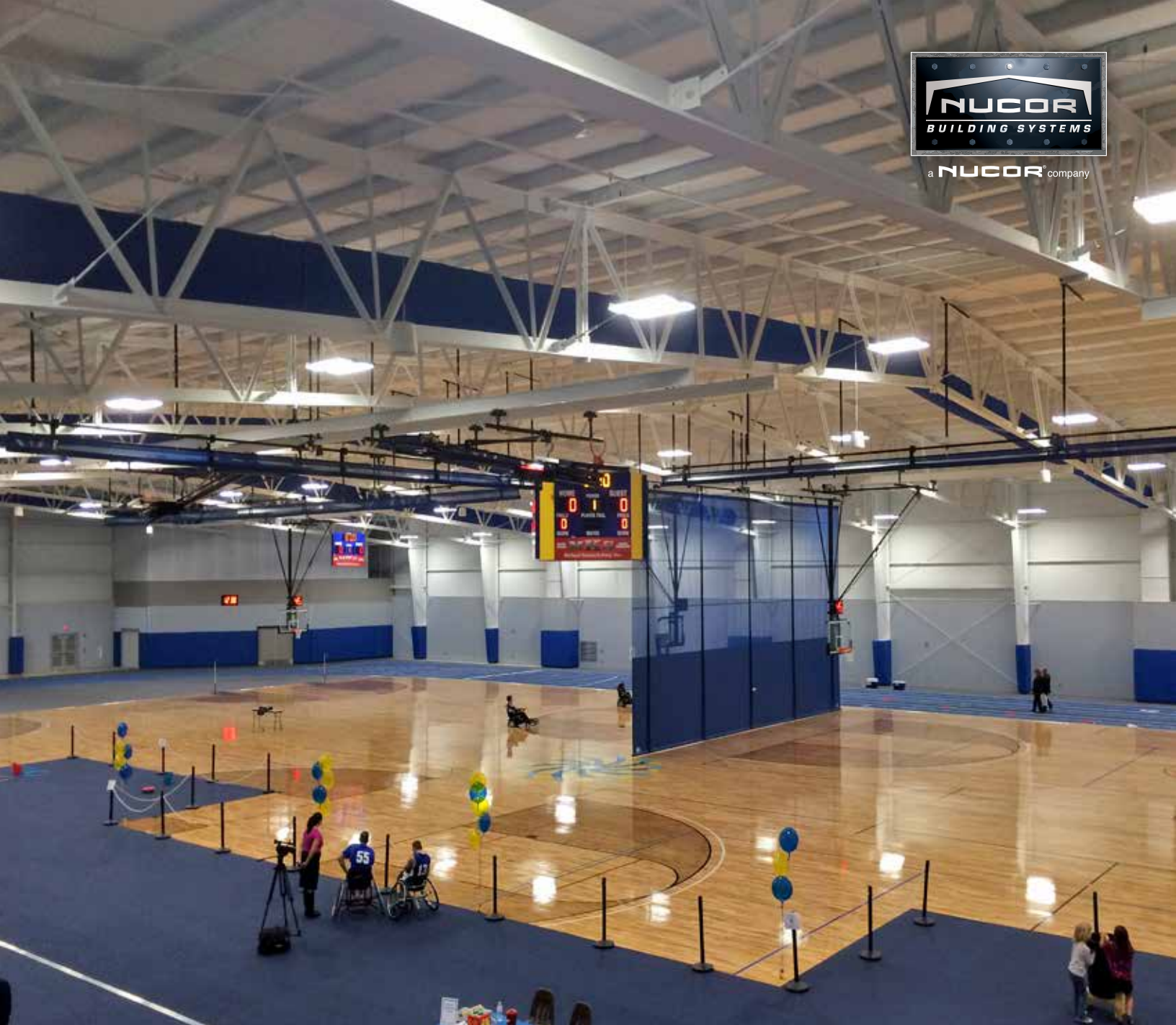
Turnstone of Fort Wayne, Indiana, is an organization deeply dedicated to the health of children and adults with disabilities, with a mission of empowering people with physical disabilities to reach for their full potential in every aspect of life.

A staple in the community for more than 20 years and with the growing interest in adaptive sports, their existing 65,000 sf facility was in need of an expansion to accommodate the 2,200 people they currently serve, with hopes to offer more activities for children, adults, and sports teams within the community and beyond.

Their new 125,000 sf wellness center and multisport complex features Nucor Trussframe, a hybrid open web rafter system, which combines the stability of a rigid frame with the versatility and architectural aesthetic of open web trusses. Allowing for spans in excess of 300 feet, Nucor TrussFrame is an extremely efficient and economical system, ideal for large clear span building applications. Its open web configuration allows for mechanical, lighting, and wiring systems to be incorporated between the trusses, allowing the building eave height to be reduced, saving construction time and material costs.



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The main structure is a 75,600 sf gable symmetrical clear span at 200' wide with 83" deep TrussFrames. It contains a new field house, which includes a partial mezzanine utilized as a 230 meter track along with four regulation wheelchair basketball courts with digital scoreboards, and two massive divider curtains. A roof beam support holds basketball hoops in place to allow for minimal floor space obstruction.

Three attached single slope, clear span buildings house the group exercise rooms, administrative offices and pediatric therapy rooms. Group exercise rooms are equipped with fully-accessible fitness equipment for adaptive fitness classes and also house a 5,655 sf warm water pool for therapeutic sessions. A separate pediatric therapy area provides onsite therapy sessions for local families and include physical, occupational, speech and aquatic therapy.

The powerful value of BIM 3D Building Information Modeling was used at the design phase of this project. A revolution in the construction industry, BIM 3D Modeling was able to provide a detailed, three-dimensional conceptual replica of the building, allowing the customer to see their project as it will be when constructed in the field. BIM also offers the option of viewing the HVAC, mechanical, electrical and plumbing systems that make up the building.

With Turnstone being one of the largest U.S. Paralympic sport clubs in the United States, this massive expansion allowed them to be designated one of only eleven National Paralympic Training Site by the U.S. Olympic Committee. The new expansion now allows for training in a vast array of competitive and recreational activities, including wheelchair basketball, wheelchair tennis, power soccer, indoor rowing, adaptive golf, sled hockey, boccia and more.



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