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TFMoran provides engineering services for new NH SportsDome

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Benton Road - Hooksett, NH

Hooksett, NH Spearheaded by local youth-sports supporters Joel Hatin and Frank Bizzarro, the concept of an indoor sports dome, originally explored in 2012, will soon come to fruition as a turf surface complex located on Benton Rd.

The facility is an air-supported structure with a translucent roof (allowing in natural light) above a 350 foot by 230-foot turf field, with a maximum ceiling height of 72 feet at its center. The field can be divided in half providing two soccer fields for 9 versus 9 play, or one full-size 11 versus 11 field. The

turf will be lined for multiple sports to support programs like men's and women's lacrosse, field hockey, soccer, flag football, baseball, softball, and more. The New Hampshire SportsDome is heated and insulated for winter use, and air-conditioned for summer play. As the term "air-supported" suggests, the structure is held up by air pressure, maintained by a high-tech system of blowers and controls.

Regional engineering firm TFMoran, Inc. was retained to provide local and state permitting services, civil and traffic engineering, land surveying, landscape architecture and construction administration services for the new SportsDome. Construction has been led by general contractor Severino Trucking Co., Inc. with the air inflated structure provided by The Farley Group.

"As you might expect, proposing a first-of-its-kind structure in New Hampshire wasn't without some unique hurdles", said TFMoran principal Nicholas Golon, PE. "Given its magnitude, siting the structure to minimize sightlines from adjacent properties, while maintaining required setbacks, and providing the necessary utility infrastructure were challenging issues. Another significant element was snow removal, to make sure that snowfall would not pose any risk of damage to the structure. Site grading and drainage were carefully designed so that snow and snowmelt could be conveyed safely and efficiently away from the structure and surrounding parking through an open drainage system of swales and infiltration basins.

"Luckily, the design and construction team had incredibly dedicated individuals working on the project, who carefully considered all options to make this project a reality," said Golon, "it was a real team effort!"

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