UNITED STATES INSTITUTE OF PEACE

WASHINGTON, DC, USA

Price: $600,000 (USD)
Project Scope: Engineering Professional Services for Physical Security
Project Start: 2015
Project Completion: 2016
Client Reference:
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Project: The United States Institute of Peace, located in Washington DC, just north from the Lincoln Memorial and south-west from the US Department of State, is America's nonpartisan institute which promotes national security and global stability by reducing violent conflicts abroad, guiding peace talks and advising governments, to help troubled countries solve their own conflicts peacefully. It is currently comprised of three buildings, the new Institute Building and the two historic Potomac Annex Buildings. This project involved structural and building envelope upgrades to the Potomac Annex Building Nos. 6 and 7 to meet protective requirements against current perceived threats. The construction budget for the window upgrade systems was US $600,000.

Assignment: Provide blast hardening recommendations to the structural engineering consultant and co-ordinate with other consultant teams on the project (architectural, landscape, mechanical, electrical, etc.) with regard to the Potomac Annex Renovation (new glass bridge at the Institute building, new glass stair enclosures, new glass enclosed walkways, blast-resistant window upgrades to the historic structure at the 1908 Potomac Annex Building Nos. 6 and 7).

Responsibilities: Co-ordinated the protective design process advanced non-linear, dynamic analysis for blast loading. Some analysis involved complex computational fluid dynamics (CFD) numerical simulations. Participated in team co-ordination meetings and presented blast hardening solutions for structure and glazing, and recommendations to the consulting team, owner and stakeholders. Designed, supervised and certified the installation of blast-resistant window systems while preserving the existing, historic muntin windows in order to maintain the heritage aspect of the buildings.