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For Immediate Release

KCCT Completes Hart Senate Office Building: Energy Generation and Natural Light Conservation

Washington, DC (May 2016) The Hart Senate Office Building, completed in 1982, is the third office structure designed and built to serve the United States Senate. At the direction of the Architect of the Capitol (AOC), KCCT designed a notable energy generation and natural light conservation upgrade for the building. The energy component is centered upon the installation of approximately 30,000 square feet of photovoltaic (PV) panels, or 45% of the total roof area, and produces about 148 kW VDC of electricity, which back feed the building's air-handlers. Concurrently, the thermal envelop was enhanced by a new IRMA roofing system with ballast composed of heat reflective colored pavers and gravel.

Conservation of the quality of natural light provided by the original skylights was a priority for the AOC as it sought to upgrade all 180 skylights in the building and to increase energy efficiency. The new energy-efficient skylights maintain this quality of illumination which is vital to the interior facing spaces and essential to fully appreciate Alexander Calder's colossal Mountains and Clouds mobile/stabile sculpture housed in the central atrium.

The Hart is the first PV retrofit project completed by the AOC and one of the largest of any federal building in the Washington area. The combined energy generation/conservation measures represent approximately 274,000 kWh of electricity which is equivalent to the annual energy use of 25 average U.S. households, or 42,000 square feet of energy-efficient office space.

Other team members included Ashe Consultants, MEP; McMullan & Associates, structural; Seal Engineering, waterproofing; LJB, fall protection; Jensen Hughes, fire protection; enVErgie, sustainability; APEX, environmental and U.S. Cost, cost estimating.

Photo by Jessica Marcotte

Hart Senate Office Building atrium and skylights featuring Mountains and Clouds sculpture.

Photo by Jessica Marcotte

Hart Senate Office Building roof showing skylights and photovoltaic (PV) panels

more

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For Immediate Release

KCCT Member of Design Team for the New U.S. Embassy in Brasilia, Brazil

Washington, DC (May 2016) KCCT, as part of the Studio Gang team, is proud to announce the recent selection for the design of the new U.S. Embassy Compound in Brasilia, Brazil. The Studio Gang and KCCT team was selected from a very talented shortlist of six A/E teams that had advanced to the final round of presentations and interviews.

KCCT has been working for the Bureau of Overseas Buildings Operations for nearly 30 years and is excited to be teamed with one of the nation's leading design firms to establish a new vision for the U.S. presence in Brasilia.

We will holistically transform and rebuild the 12-acre Embassy compound that was the first embassy established in the new city of Brasilia, an important UNESCO world heritage site planned and designed by Lucio Costa and architect Oscar Niemeyer in 1956. The site of the U.S. Embassy is prominently located at the beginning of the Avenue of Nations, adjacent to the city's monumental axis and seat of the Brazilian government.

Please see the full Media Note released by the U.S. Department of State's Office of the Spokesperson for more details. http://www.state.gov/r/pa/prs/ps/2016/03/254071.htm

ABOUT KCCT

KCCT (Karn Charuhas Chapman & Twohey), Architecture | Planning | Interiors, is located in Washington, DC. With more than 33 years of experience, KCCT has completed over 150 projects internationally and more than 400 domestic projects for clients including the U.S. Government. KCCT's design excellence has been acknowledged with more than 25 professional awards, including GSA National Design Awards and AIA Design Awards. Visit www.KCCT.com for more information.

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