the drexel
university recreation
center
philadelphia, pa



britnei godusky | lighting + electrical |

## building statistics

project team

lighting electrical

architecture

mechanical

structural

size | 84,400sf levels | three stories above grade cost | \$40.2 million construction dates | summer.2008-winter.2009 delivery method design-bid-build

drexel university | owner
sasaki associates, inc. | architecture/interiors
ewingcole | electrical/lighting
ewingcole | structural
ewingcole | mechanical
turner construction | contractor

1500kva 480Y/277 3 $\theta$  dual supply from existing campus substation. indoor diesel 350kw 480/277 3 $\theta$  4W emergency generator. dry-type step-down transformers on each floor for appliance and lighting panels. primarily fluorescent lighting at 4100K, metal halide for accent in hall of fame. public and circulation spaces switched via relay-based building wide controls. energy efficient exterior induction lighting with integral photocell control.

strong lines and sharp angles are emphasized on glazing/aluminum panel façade, combining for a modern play on transparency and concealment. athletic center addition includes sports bar, gymnasium with elevated track, fitness centers, rock-climbing wall, racquetball courts and group fitness rooms. exposed concrete ceilings and columns create exposed, spacious impression.

mechanical system operates at full occupancy 24/7 and is composed of: seven rooftop air handling units, four VAV and three CV, ranging from 1880cfm for lobby to 32,550cfm in fitness/weight room. three parallel boilers providing hot water for gas heating system. air cooled condensers in AHUs feeding blower coil air conditioning. system controls monitored by supervisory network on Drexel campus.