

# 9<sup>TH</sup> POLICE DISTRICT STATION

## ENVIRONMENTALLY FRIENDLY OR “GREEN” ELEMENTS

The 9th District Police Station was designed to achieve “gold” level certification under the U.S. Green Building Council’s standards for Leadership in Energy and Environmental Design (LEED); the station will be the first PBC project to achieve that high standard. Green buildings incorporate several environmentally friendly focus areas in their design. Listed below are some of the green elements that are a part of this new police station.

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### Sustainable Sites

*This takes into account the location and placement of the building and the impact it has on the environment around it.*

- Built police station on a previously developed site
- Located within ¼ mile of bus and train transportation
- Added bike racks to encourage alternate transit
- Installed reflective and vegetative surfaces on roof to cool building and save energy costs
- Installed reflective and permeable parking lot to reduce heat island effect and manage more stormwater on site
- Constructed a parking structure to use land more efficiently
- Aggressive stormwater management including a native planting rain garden and permeable pavers with onsite detention
- In lieu of sod, ground cover was planted to reduce maintenance requirements

### Water Efficiency

*Efforts have been made to conserve water in and around the building.*

- Planted drought resistant landscaping that requires less water
- Installed low-flow and sensor faucets and showers, and dual flush toilets, that together use up to 30 percent less water
- Combined high-efficiency irrigation system with careful plant selection to reduce water use by more than 62 percent

### Energy & Atmosphere

*Green buildings reduce the amount of energy used by the building through a more insulated building envelope and more efficient energy system.*

- Designed to use 25 percent less energy by cost
- Used non-ozone depleting equipment to protect atmosphere
- Purchased renewable energy or “green power” credits to reduce reliance on fossil fuels, coal and nuclear power derived electricity
- Installed cogeneration system for electricity and heating of the building and its water

### Materials & Resources

*An emphasis is placed on using recycled materials, materials that are made and manufactured locally, and recycling construction waste.*

- Diverted more than 84 percent of construction waste from landfills by recycling
- Used recycled content in more than 21 percent of materials installed.
- More than 23 percent of the materials for the building is manufactured and materials harvested in the Chicago region.
- More than 59 percent of all wood used on the project came from sustainably managed forests certified by the Forest Stewardship Council.

### Indoor Environmental Quality

*Green buildings are designed to improve indoor air quality for workers during construction, and for occupants and visitors of the building.*

- Instituted an air quality plan to ensure clean air for workers during construction and for the building occupants when construction was complete.
- Used materials in construction that emit less fumes.
- Built exhaust systems for areas where chemicals are stored.
- Installed temperature control systems and increased amount of natural lights in building to boost worker productivity and improve quality of life.
- Utilized healthy cleaning and pest control products and strategies upon completion of the building.

