



# Sustainable Design

Delaware Valley

**CLIENT:**  
**Various Clients**

KSK believes that the guided preservation of built and natural resources in concert with dynamic contextual infill is an environmental best practice for creating livable, sustainable communities.

The incorporation of sustainable building ideas such as green building and energy efficiency is no longer an option or novelty, but rather a standard baseline for all projects. We implement these concepts through advanced building control systems, climatically responsive layouts, waste reduction principles, natural daylighting and green stormwater infrastructure in projects executed throughout the city and region.

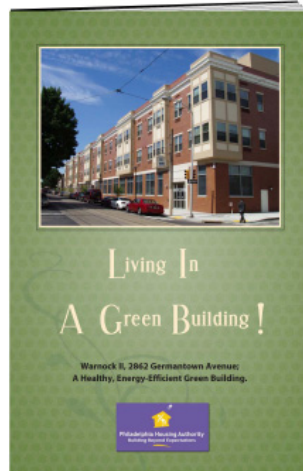
A sustainable design process recognizes that building materials and the energy required to extract or create them are not infinite and must be carefully considered during all aspects of design through post-construction evaluation. Additionally, a sustainable building incorporates natural systems from daylight to fresh air, providing a superior environment for the occupants as well as a better long-term contribution to the surrounding environment.



*Solar photo-voltaic panel*



*Green roof and roof-top patio at Warnock Senior Housing*



*Booklet designed to familiarize residents with green building features*



*Stormwater management at Mantua*



## Sustainable Design

Philadelphia, PA and region

### Warnock Senior Housing: Green Roof

*Client: Philadelphia Housing Authority*

Located on the busy Germantown Avenue commercial corridor, this new three-story mixed-use building accommodates 46 fully accessible apartments for seniors on the second and third floors, with PHA offices and services, an adult daycare, and a large multi-purpose room below. The project includes a green roof, and a roof terrace to provide an amenity for the residents.

### 3933 Lancaster Avenue

*Client: Sally Gardens, LP*

KSK worked with a private client to establish a mixed-use concept for an infill lot in West Philadelphia. Located on the developing Lancaster Avenue retail corridor, the building will house a cafe, attorney's office, and two two-bedroom apartments, including an owner's unit.

The roof deck, which affords panoramic views, will be surrounded by a green roof. Other sustainable design elements, including a rainwater cistern for irrigation, recyclable building materials and increased insulation, will contribute to the building's pursuit of LEED certification.

### Ingersol Commons

*Client: Community Ventures*

Ingersoll Commons is a 39-unit tax credit financed affordable housing development located on a formerly vacant redevelopment parcel at 16th and Master Street. The development includes a 27-unit 3-story apartment building targeted to seniors, and 12, 3- and 4-bedroom single-family townhouses.

Community spaces on the first floor of the apartment building open onto a plaza, and large landscaped court, which also functions as a stormwater management area. The landscaped area in the south of the development is a publicly maintained stormwater management area that will accumulate runoff from adjacent city streets. A common parking lot in the rear of the development provides dedicated parking for each of the townhouses. The design of the development responds to the historic row-house character of the surrounding neighborhood.



### Mantua Hall Redevelopment

*Client: Philadelphia Housing Authority*

KSK provided complete architectural and engineering services for redevelopment of the former Mantua Hall high-rise public housing project. The development of 100 rental apartments in three-story buildings surrounding private secure parking and a landscaped park also includes street level commercial space, a community room and managerial office. Roof mounted solar voltaic panels reduce energy costs, while a rainwater harvesting system provides irrigation for the park.



*Green roof at 3933 Lancaster Avenue*

- Solar Photovoltaics
- Energy Star Windows
- Energy Star Equipment and Appliances
- Tight Building Envelope
- Cross Ventilation
- Low VOC Interior Finishes
- Native Landscaping Materials
- Solar Powered elevator shaft vent fan
- Low Flow Plumbing Fixtures
- Compact Fluorescent Light Fixtures
- Efficient HVAC Systems
- Onsite Rainwater Management