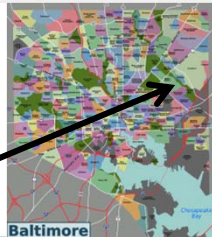




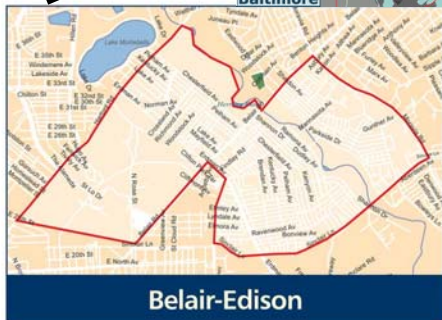
GREEN STREETS | GREEN JOBS | GREEN TOWNS INITIATIVE

The Green Streets, Green Jobs, Green Towns Partnership (G3) aims to stimulate the green jobs market and enable families to work where they live and play. Small to mid-sized communities can boost their local economies and protect water resources through the use of watershed planning, design and construction of stormwater best management practices.



ERDMAN AVENUE MAIN STREET GREEN STREET AND BLUE ALLEY PROJECTS, BALTIMORE, MD

The Belair-Edison Neighborhood plans a green street in the heart of the Main Street business district and a unique blue alley project.



The Belair-Edison Community, led by Belair Edison Neighborhoods, Inc., has been pursuing a series of green infrastructure projects, leveraging G3 grants into additional resources.

association, Belair Edison Neighborhoods, Incorporated, has leveraged the first G3 grant into grants to complete the designs.

First is a project to green its main business thoroughfare. The Main Street Greening Project focuses on retrofitting the 3100 and 3200 blocks of Erdman Avenue – a designated business district and main street in the neighborhood. These two blocks are heavily urbanized with vast impervious areas and high pedestrian and vehicle traffic. Stormwater runoff from this area is an alarming issue for the Herring Run watershed which is less than 1/2 mile from the site. Three design charrettes were held to insure resident and business input and community buy in for the green infrastructure framework developed. Elements of the project included identifying four candidate project sites to include bioretention, impervious surface removal, permeable pavement, and tree plantings. The community

Second, the community will create a unique "Blue Alley" behind the 3100 block of Erdman Avenue, transforming a blighted alley into a green space using installation of trees and tree wells and bioretention facilities.



5756 cubic feet (43,054) gallons stormwater to be treated



3552 of rain gardens



100s of native plants



6-12 tree pits and trees



3000 sf of impervious pavement removed



Belair-Edison Main Street Greening Project



PROJECT ELEMENTS

- **Impervious pavement removal** – Rain hits impervious surfaces such as parking lots and roads, and, because it cannot permeate through, runs off into storm drains or directly local waterways.
- **Tree pits and expanded tree wells**– Extended tree pits and wells into the street both reduces impervious surface cover and also reduces street area, narrowing the road and slowing traffic, increasing likelihood of pedestrian use.
- **Trees**– In urban areas a single tree can intercept from 500 to 4,000 gallons per year. Even young, small trees help, capturing 50 gallons per year. Trees not only treat stormwater, they provide a host of other benefits, including energy cost reduction in both summer (shade) and winter (proper placement can result in the reduction of energy use by 20-50%), aesthetics, property value enhancement, business traffic enhancement, and health benefits.
- **Conservation landscaping and gardens** – Native plants, which require less maintenance, capture rainwater and hold soils in place.
- **Bioretention cells** – These features filter and reduce stormwater runoff, allowing it to infiltrate into the ground, before it enters into the storm drain system. Runoff from impervious surfaces that cannot be altogether removed or replaced with permeable pavement will be treated with this practice.
- **Educational signage** – Signage will educate residents and visitors about the various stormwater practices and features in the neighborhood.

G3 Grant 1 Awarded: \$31,320
G3 Grant 2 Awarded: \$34,950
Match Contribution: \$10,000
Status: 100% designs near completion



SUSTAINABILITY & GROWTH: ADDITIONAL GREEN ACTIVITIES

The Belair-Edison community has made great strides over the past several years on an ambitious plan to green this highly urban, highly impervious, currently low tree canopy-cover community. Activities include greening the parking lot shared by the Afya and aptly named Green Schools, in which 400 sf of impervious parking was removed, trees and vegetation were added in a buffer around the parking lot, a green play space was added, and gardens cultivated. In addition, the partners obtained funding from separate sources to map and enhance their tree canopy, aiming for a 40% cover goal.



Nearby, the Baltimore Medical System, a nonprofit health system that provides services in medically underserved neighborhoods in Baltimore, recently constructed a LEED certified building. As part of the construction, they used innovative stormwater management practices, installing bioretention cells, tree pits, trees, and other vegetation that will reduce the heat island effect and improve stormwater quality

Project Partners: Belair-Edison Neighborhoods, Inc.; Belair Edison Community Association; Blue Water Baltimore; Baltimore City Departments of Transportation, Public Works, and Planning; Baltimore Medical System; Center for Watershed Protection; Biohabitats; Civic Works;; Chesapeake Bay Trust; MD Department of Natural Resources; U.S. Environmental Protection Agency

For additional information: visit www.epa.gov and www.cbtrust.org.