PARK HEIGHTS KNOT CONNECTIONS

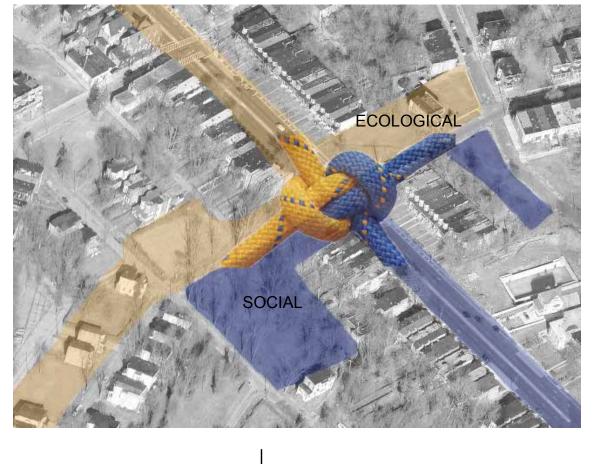
BES BALTIMORE ECOSYSTEM STUDY

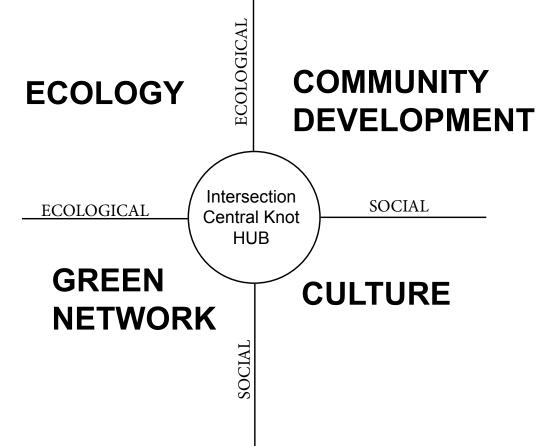
A study of the importance of intersections as social and ecological nodes in Park Heights, Baltimore, MD

CONCEPT OF KNOTS

Knots are used to bring together two single pieces and connect them together making them stronger as a whole. The connection of the knot can be interpreted as the connection of a community to its environment. The connection itself creates a complexity to the area where the connection occurs bringing together two separate elements and in return creating a stronger program. This project seeks to create a vision for repairing and reconnecting the core of Park Heights, Baltimore through a series on hub networks. Connects to the interests of the BES through links to hydrological, ecological and social ecological improvements through urban renewal. It poses as a precedent for road infrastructure redevelopment through social and ecological measures. At the design scale this can be seen as the intersection between two main roads. Each road represents either ecological elements or social elements coming together to create a space that celebrates interaction and ecological responsibility. At the human scale the programmatic character in each empty lot surrounding the intersection are a unique combination of the two creating spaces for the community to gather while strengthening the user's connections to their environment.

CONCEPT DIAGRAMS







Inventory and analysis pointed to this area of Park Heights as being an ideal location in need of revitalization. Vacancy of buildings provided knowledge into the magnitude of people living in the area and the demand in the area for social and ecological design. Vacant buildings can potentially provide spaces for future growth. Vacant land can be used as an opportunity for designed program to bring people back into the area. There is a limit to the amount of vacant lots in the surrounding context that can be sustainable in order to complement the community. The residential density is crucial in understanding how many people are going to potentially be utilizing the space. It is important to locate these sites and use them as knots to reconnect the communities together making them stronger as a whole.

Assessment of Existing vs. Proposed Landscape



Bioretention creates a good environment for runoff reduction, filtration, biological to remediation a 10 year storm.

The increase in acreage from 1/3 of an acre to well over half and acre enables to community to have uptake, and microbial activity, and provides more space to produce and grow crops in their own there is an increase in total vegetation cover high pollutant removal. Bioretention is able space. Grow about 8250 lbs of food each season. on the site.

With the increase in urban forest cover and added permeable cover along the street



With an ecological program of green education and increase in tree coverage it creates an increase in urban forest opportunities along with social connection between public and biodiversity.





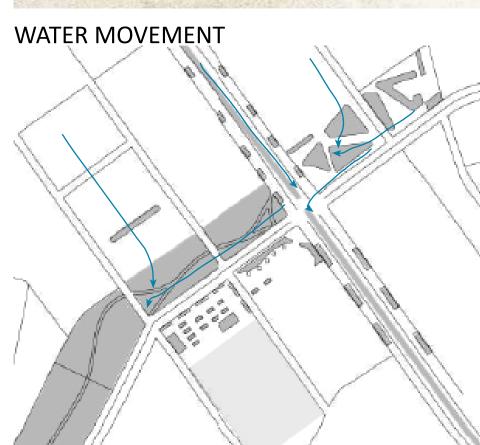


The increase in city tree canopy by planting tress on or near vacant land along the streetscape has a multitude of benefits including temperature reduction, connectivity, habitat, and overall neighborhood revitalization. Baltimore Ecosystem Study suggests urban forestry to create green corridors and reconnect forests that have been fragmented.









Water movement is directed down the street into the center stormwater gardens The bioretention basin catches the water that comes in from the North East section of the site. The addition of the urban forest is

and falls on the site. The planting plan indicates the separate planting types that are present on the site. Specific plants can be located

in the planting palette.

able to retain a large portion

of the rainwater that enters

PLANTING PLAN



URBAN FOREST SITE SECTION



STREET STORMWATER SECTION



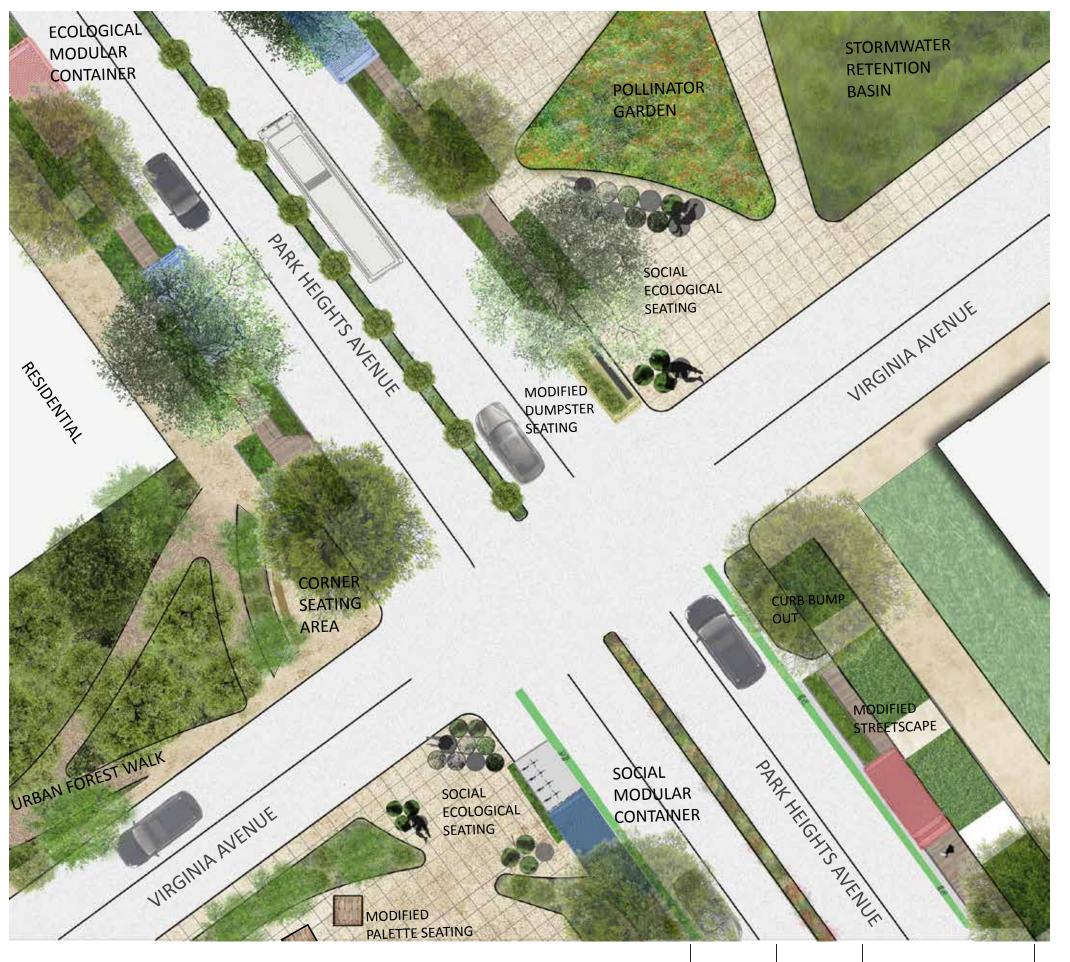
The section shows a typical area where a community member can come and request a plot to grow their own food. Opportunities for urban agriculture help to improve the health of the community living within a food desert while also bringing community members together

WEST SITE PLAN

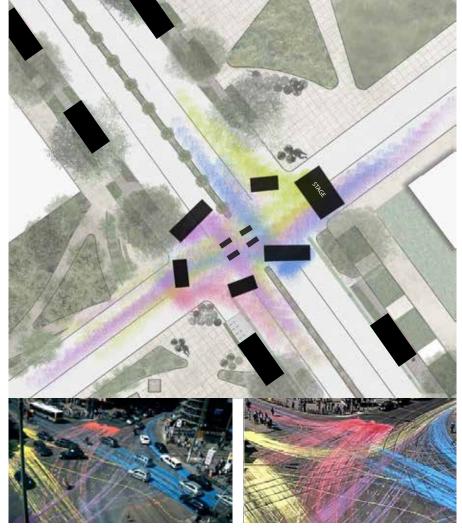


RECYCLED SHIPPING PALETTES





KNOT MODULARITY ACTIVITY



The modularity of the seating elements move from the streetscape into the intersection during monthly street festivals at indicated times of the year. These activities can include concerts, art festivals, or farmers markets. Instillations such as chalk deposits on the street can create art itself within the core of the knot intersection. Rainworks, rain activated art can also be installed within the intersection. Pieces of street art that only appear when they become wet from the rain.

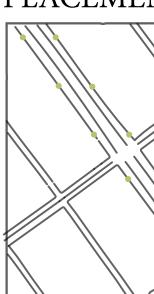
10 20 SEATING CURB BUMP OUT



as shipping palettes, dumpsters, and recycled concrete tubing make these seating areas cost effective, attainable, and really on little labor to build. All of these materials are readily available throughout Baltimore and provide unique seating for groups of people to socialize and grow as a community.

RECYCLED OR REFURBISHED DUMPSTER





Initial Planting

WINTER

Plant Palette FALL

SPRING/SUMMER

EAST SITE PLAN

The use of shipping containers can become modular from season to season. In the winte they are remain closed and dormant while in the summe they can become areas for urban agriculture sales, art, or social gathering spaces.

Drainage Pipe ----

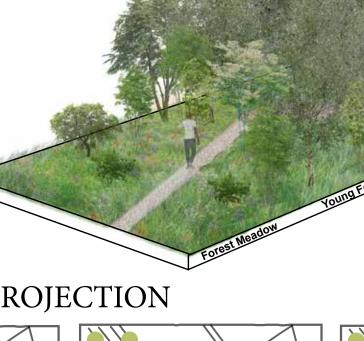
Reinforced Concrete-

Crushed Stone - . Compacted Sub-grade---Concrete Pillars

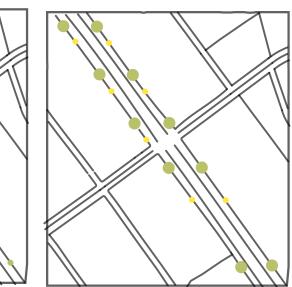


SUCCESSION OF URBAN FOREST (BIOLOGICAL COMPLEXITY)

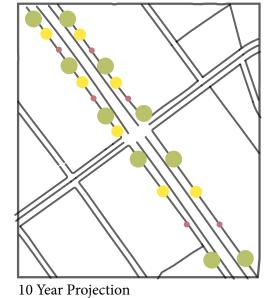
The increase in urban forest canopy cover not only provides habitat for various species but it creates a space that is unfamiliarly with many of the residents in Baltimore. The succession of the forest will serve as a resource for the implementation of street trees over a projection of 30 years. This can be seen in the projection diagram below.

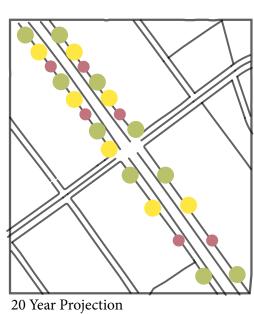


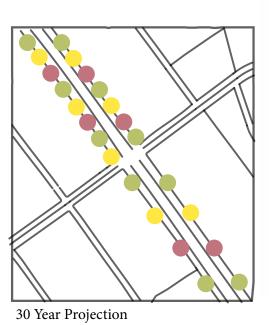
PLACEMENT CONCEPT AND PROJECTION



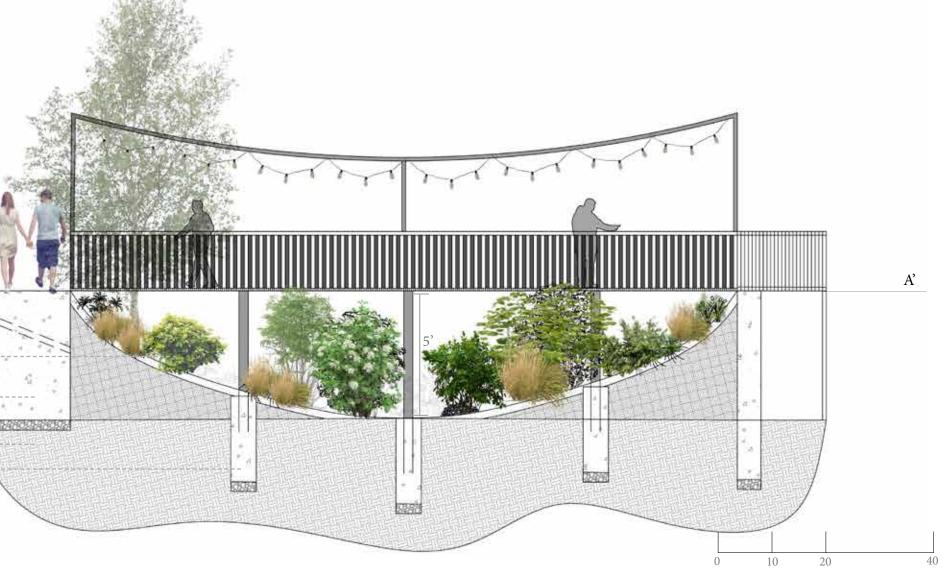
5 Year Projection











RECYCLED STOOP SEATING

where there is a sense of historic remembrance from the lives on the people who once sat on these very same stoops. It is a way of renewing the community back to the stoop culture in a refreshing new way.

PARK HEIGHTS GREEN NETWORK PLAN CREATING CONNECTIONS

By re-branding Baltimore's Park Heights Avenue as a linear gallery and corridors with a series of nodes, the urban avenue can be redefined as a public space that becomes a catalyst for energizing its margins, the adjacent neighborhoods, and the city as a whole.

Creating connectivity between adjacent neighborhoods enhances the neighborhood creates a comprehensive and interconnected system of functional green space leveraging existing greening through revitalization and creation of new green space to improve social and ecological functions.

0 0.2 Miles