

100

Public Art Project Sara D Roosevelt Park 2018

BIRDLINK

Designer and Executive Director

Anina Gerchick

Sponsored by

The New York City Audubon Society

The New York City Department of Parks and Recreation

Generous Support from

The Public Hotel

City Parks Foundation

Partners

The Sara D. Roosevelt Park Coalition The Greenbelt Native Plant Center City of New York, Dept of Parks & Recreation Natural Resources Group Cornel Lab of Ornithology Audubon Plants for Birds Bio Bus The Lower East Side Partnership Robert Silman Associates Structural Engineers d.p.c Donald Sussman Landscape onsultant

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"IF YOU TAKE CARE OF THE BIRDS, YOU TAKE CARE OF MOST OF THE ENVIRONMENTAL PROBLEMS IN THE WORLD."

> —THOMAS LOVEJOY biologist and "godfather of biodiversity"

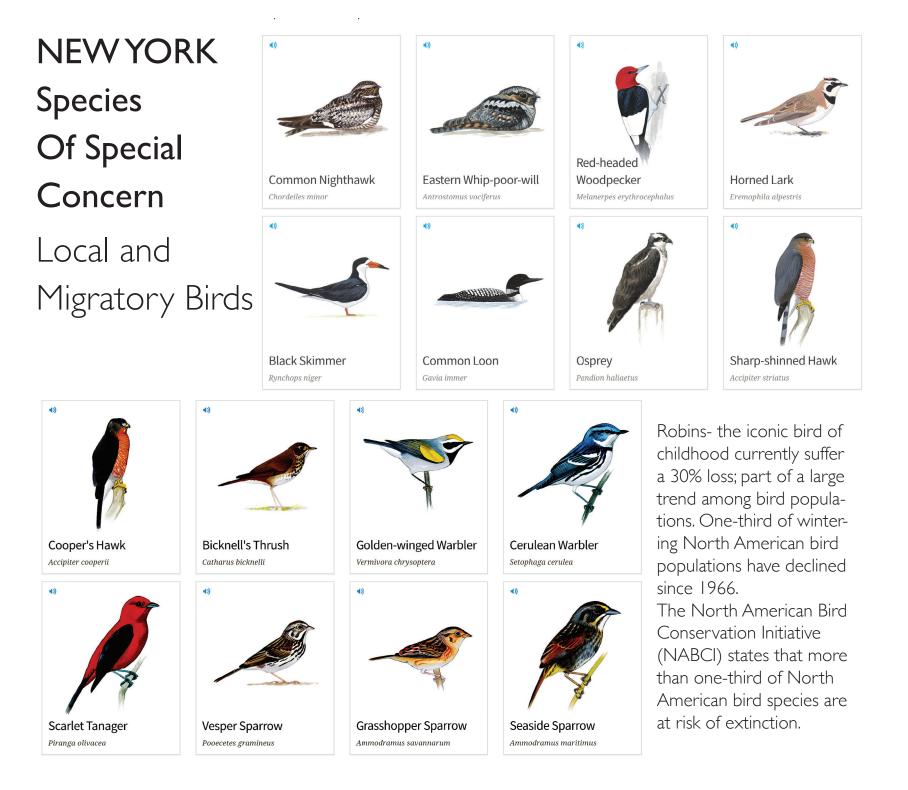
BIRDLINK Plants

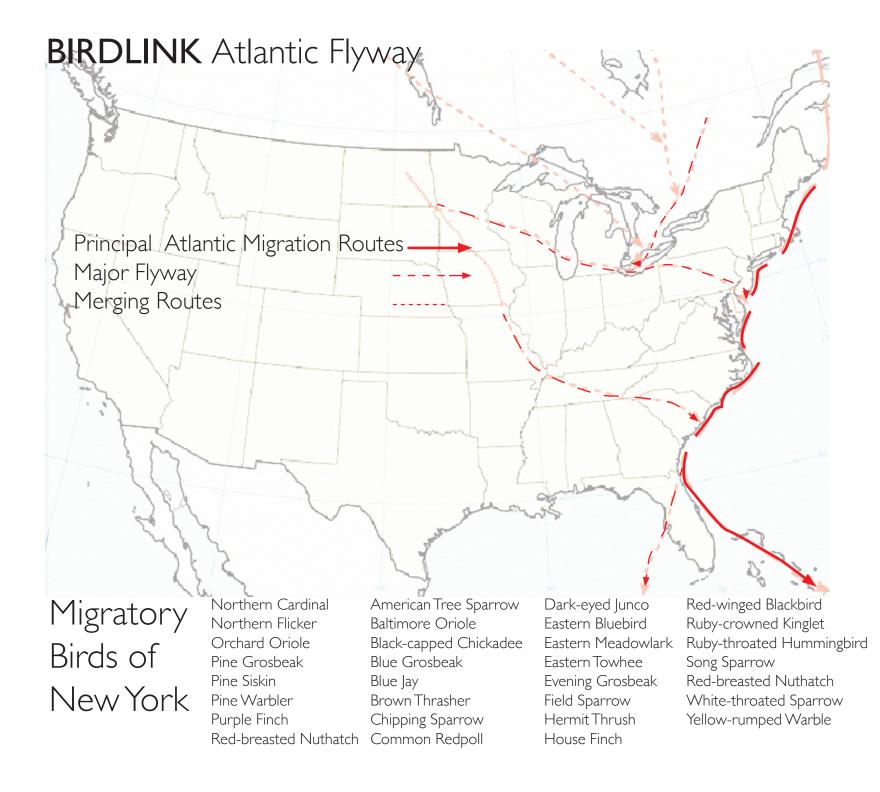


Gypsophila repens Deschampsia cespitosa Echinaceae purpurea Bouteloua gracilis Campsis radicans Myosotis laxa Thymus vulgaris Thymus serpyllum Panicum virgatum Monarda didyma Asclepias tuberosa Rudbeckia hirta Carex muskingumensis Helichtotrichon sempervirens Juncus effusus Solidago shortii 'Cascade' Oenothera fruticosa

BIRDLINK Plant Blooming Schedule







BIRDLINK

A constructed habitat for bird conservation sparks recognition of our shared urban ecosystem. What's good for birds is good for people

BIRDLINK is an interactive native-plant sculpture, designed to support urban birds and engage community. This spiraling green-wall grid is a living tapestry of native plants, with windows framing a park on one side and a bustling urban intersection on the other. More broadly, BIRDLINK is a network of installations intended to link fragmented urban habitats nation-wide, promote awareness of species that share our space, and build community. This project addresses global climate change at a local level, and will involve neighborhood students and residents in citizen science efforts for conservation.

During the four-season cycle, plants will take root within a coil of wire baskets that become food and shelter for passing birds. Milkweeds feed hummingbirds and Monarch Butterflies. Honeysuckles are nectar hotspots, and fall and winter berries attract species like Purple Finches and Hermit Thrushes. BIRDLINK attracts people as a beautiful curiosity and then alerts them to the importance of habitat conservation

Citizen Science: Mobile bird and plant ID apps, bird surveys for the collection of data for conservation research by Cornell Lab of Ornithology and Audubon. Engagement in conservation practices using bird counts for Audubon and NABCI (North American Bird Conservation Initiative) use breeding bird surveys (BBS) and eBird mobile app encourage science education.

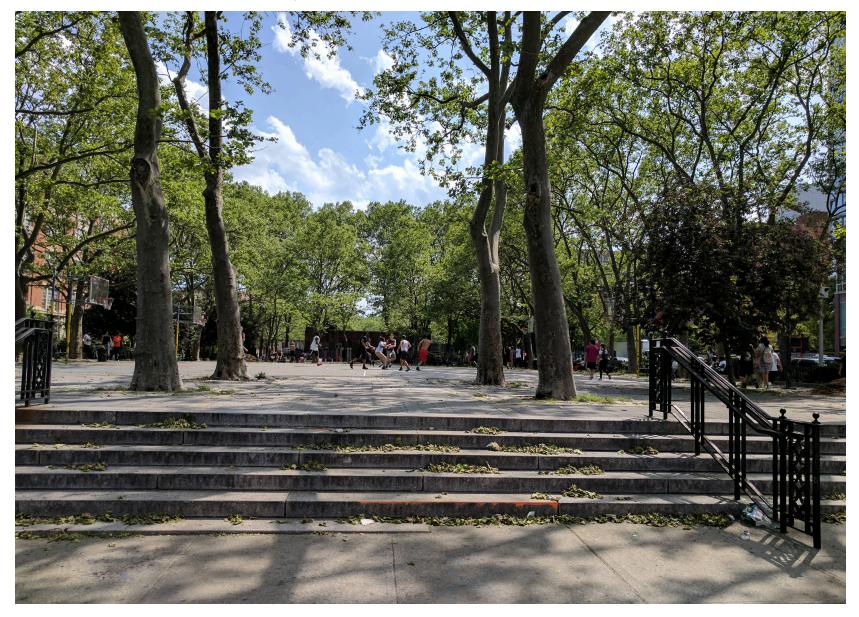
BIRDLINK in New York City

The first prototype will be installed at Sara D. Roosevelt Park on Manhattan's Lower East Side, in time for the spring bird migrations of 2018 that bring birds to our city as they cross the Atlantic Flyway.

BIRDLINK SITE Sara D. Roosevelt Park



BIRDLINK Public Space



Public spaces need activation to create community.

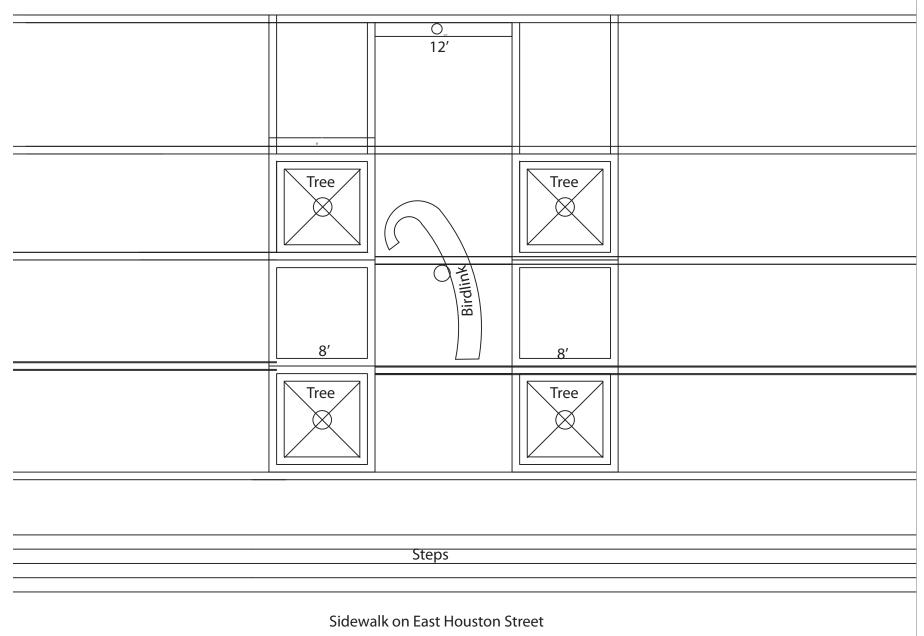
BIRDLINK East Houston Street Plaza

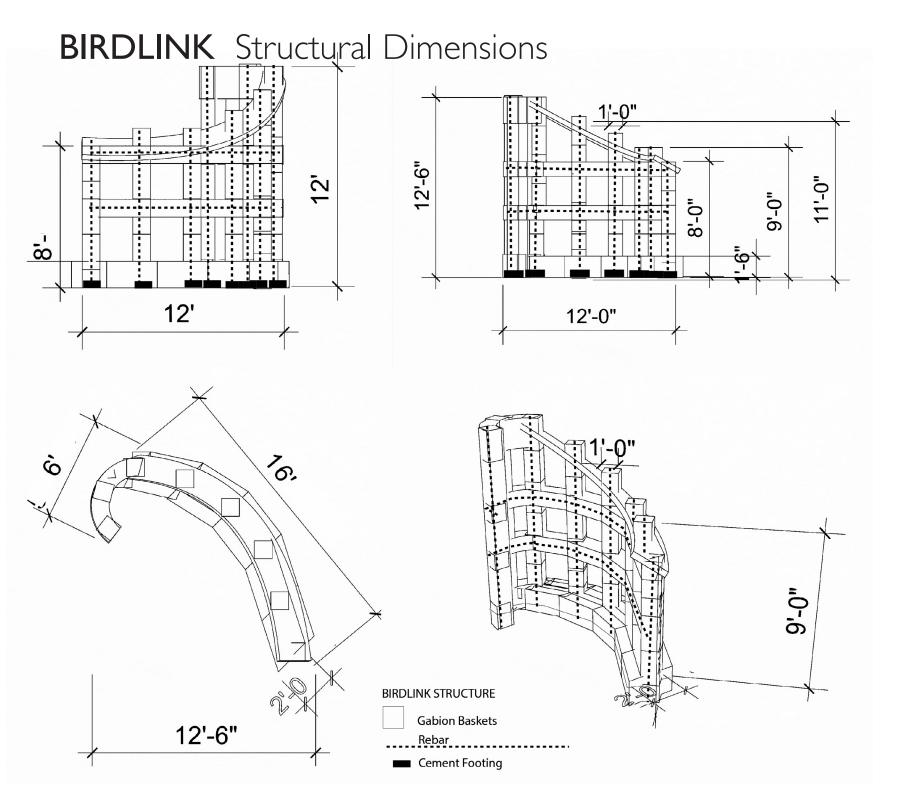


Artificial structures play a role in conservation and education and increase green space.

BIRDLINK Site Layout At Sara D. Roosevelt Park

Basketball Court





BIRDLINK Green Wall Material

Gabion Fill, Stone, Re-used Concrete, Felt, Soil, and Plants



BIRDLINK Time Frame

Construction, Planting, Maintenance, Public Outreach Programming

- Structure in place spring 2018
- Plants added as seeds and plugs throughout the growing season
- Autumn and winter growth and berries to be maintained as the year passes
- De-installation scheduled for 2019 -final planting into permanent site TBD with Parks Dept.
- Plants originate at Staten Island Native Plant Nursery
- Planting and maintenance phases overseen by Gerchick and community collaborators throughout the year
- Event and education programming throughout the year in concert with local schools and community organizations
- Community participation in regular maintenance, ecological and cultural programs
- Citizen science projects with the Audubon Society and The Cornell Ornithology Lab
- and Bio Bus
- Mobile apps are free and available to help people contribute observations to avian population surveys
- Art and citizen science projects to be coordinated with local schools and community centers in the neighborhood, and during public events with the general public with coordination with Sara D. Roosevelt Parks Coalition

CLIMATE CHANGE Projection of Migration Patterns



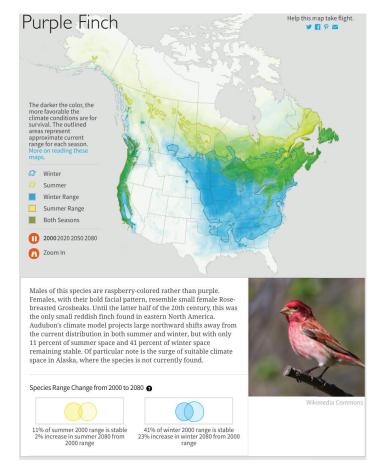
second Lord Baltimore's coat of arms, this species is a common breeder across much of eastern North America in areas with large broad-leafed trees. Cottonwoods are a particular favorite for placing its long, pendulous nest. If it can adapt to the changing climate, a substantial increase in climatically suitable area and relatively stable summer range are projected—both potentially good news for the species. However its limited North American winter range may shrink. Most Baltimore Orioles winter in the Neotropics, thus additional data from that region will strengthen Audubon's climate model predictions.

Species Range Change from 2000 to 2080 👔



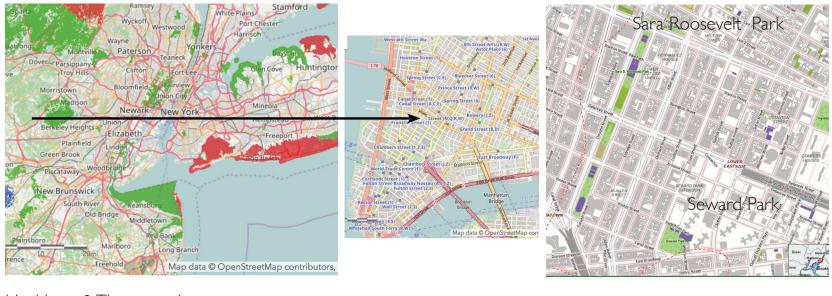
32% of winter 2000 range is stable 18% decrease in winter 2080 from 2000 range

Birds migrate to move from areas of low or decreasing resources to areas of high or increasing resources. The two primary resources being sought are food and nesting locations. Many species can withstand freezing temperatures as long as an adequate supply of food is available.



Long-distance Migrants typically move from breeding ranges in the United States and Canada to wintering grounds in Central and South America despite the arduous journeys involved, long-distance migration is a feature of some 350 species of North American birds.

BIRDLINK Context



Healthy & Threatened

Sample Neighborhood Network

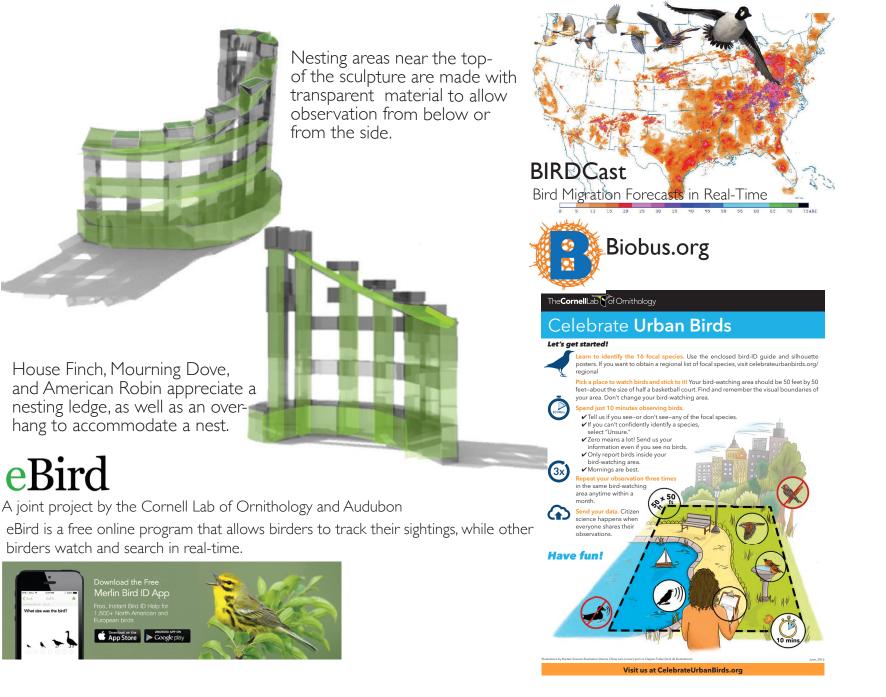
Sites in Network

BIRDLINK is a project that builds upon current work designing for ecological challenges. Design for biodiversity starts in cities with small experiments to restore wildlife habitat with ecological infrastructure. This is the idea of adaptive infrastructure to bring safe passage. A landscape network strategy connects fragmented habitat across scales by building complex functions into the landscape to make communities and wildlife more resilient to climate and other changes.

BIRDLINK is designed for ecological function with the aesthetics to communicate with the public.

BIRDLINK Citizen Science Education

Events • Observation • Technology • Outreach to Schools and Community Organizations



BIRDLINK Future Neighborhood Network Strategy



BIRDLINK interactive native plant sculptures function singly or as part of a larger network to support species by rebuilding native flora and fauna into the urban fabric. They attract resident and migrating birds and green city spaces.







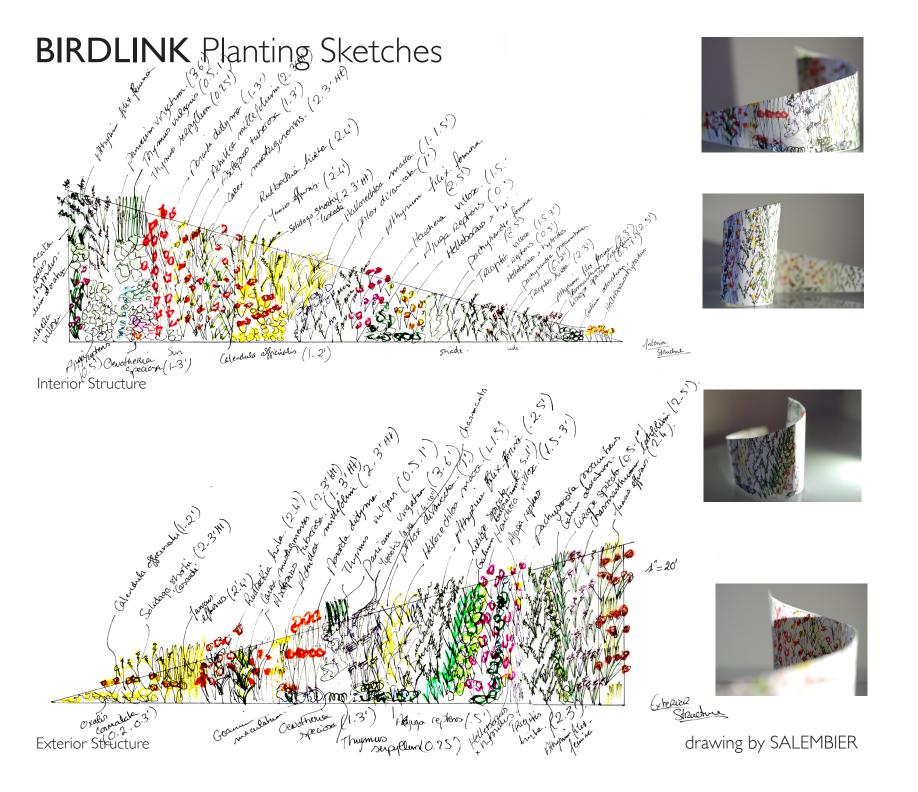


BLOOMING SCHEDULE



Oenothera speciosa Achillea millefolium Oxalis corniculata Geranium maculatum Parthenocissus quinquefolia Vinca minor Ajuga reptans Chasmanthium latifolium Hakonechloa macra Phlox divaricata Galium odoratum Athyrium filix-femina Heuchera villosa Liriope spicata Helleborus x hybridus 'Winterqueen Strain''



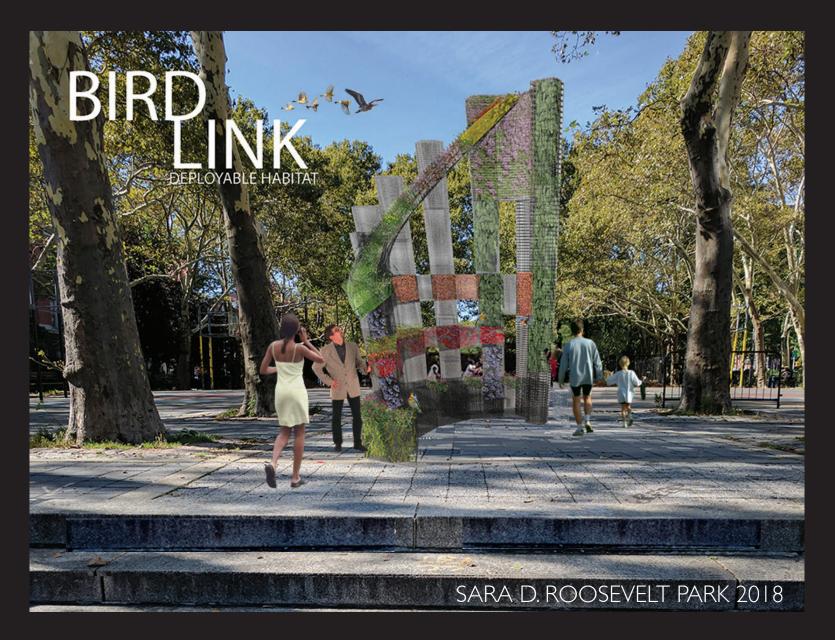


BIRDLINK Birdpark



oil on canvas 48 x 34 inches

paintings by GERCHICK



Anina Gerchick is a public installation artist, landscape architect and painter . Her public work combines ecological functionality and enhancement of urban public space with a focus on climate challenges that include the species that share our built environment. Her paintings have been exhibited in New York City, internationally and in the Southeastern US.