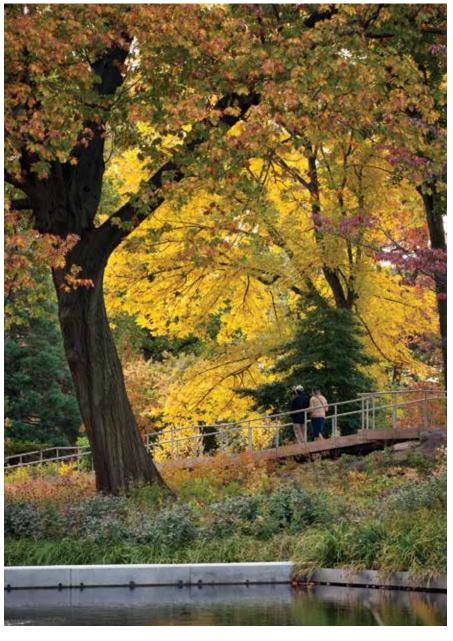




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GET HIS WAS A MOMENT when intuition and spontaneity In 2008, after intensive study with her colleagues of the site's • floated over years of thought," remembers Sheila Brady, FASLA, a principal at Oehme van Sweden, the landscape archithat she hoped would help her firm win the commission, tecture firm. In the 1980s, OvS pioneered what became known Brady left her office in Washington, D.C., for a breather at as the New American Garden, with swaths of mostly native spethe National Gallery. She trained in the fine arts (life drawing, cies and their cultivars as optimum and bravura solutions for photography) before she became a landscape architect, and America's planted spaces both public and private, large or small. But a giant next step has been taken in the firm's progression black-stained pine, the work of the sculptor Martin Puryear, toward American plants for American landscapes: the 3.5 acres one of America's greatest living artists. Bask is a floor piece. A of the new Native Plant Garden at the New York Botanical Garmaximum 12 inches at its center high point, the work seems den (NYBG), which opened in May 2013. A woodland rise melts to move, assuming different fluid shapes as you circle it. The into an ancient forest, a bog glides into a pond; a meadow falls curves and angles of Brady's 320-foot-long water feature are from a hot dry ridge down to the moment of intuition Brady is clearly related to Bask. They share a concentrated sense of describing: the very contemporary water feature she designed, relaxation, of peace in slow motion. cradled between the parallel slopes of woodland and meadow.

existing soil chemistry, topography, geology, and hydrology she found herself mesmerized by Bask, a 12-foot-long piece of Native Plant Garden into the region's natural water system.

Brady says: "The design couldn't be too busy—studies of per- That the water is aerated as it tumbles softly over two massive, OPPOSITE ception consistently demonstrate we have only a 30-second locally quarried stone weirs is easy enough for any visitor to frame when the eye allows its lens to absorb the big picture." At understand. Even the idea of a biological filter—the wetland first glance, the design as a whole is simple and large. A wide, has become part of a common sustainable and environmental boldly angled promenade—5,000 square feet of sustainably landscape vocabulary. But well below the tranquil surface lies CENTER harvested black locust boards—runs the length of the inner a highly engineered, experimental system. The impermeable Flowering grasses curve of the water feature on the woodland side. It seems bottom holds a quarter-acre water body, a huge sand and gravel to rise imperceptibly from the entrance grade to join steps pump pushes 350,000 gallons of water back up to recirculate that curve out of sight toward the forest. Then, turning left before running downstream, and a cistern holds stormwater sharply to cross a cleansing wetland, the promenade ends at overflow. "Records of the pump room maintenance and procethe meadow rise. The stream, which originates in the existing dures will be a good source of information for future facilities, for palustris, casts light Rock Garden above the new area and is augmented by surface the benefits and limits of running a system of this scale," Brady and shade on the runoff, eventually joins the Bronx River, tying itself and the says. "The wetland had to be large enough to contain five times accessible walkway. the cleansing space for the water in the pond, with a reserve area of clear water." Recalling one struggle, she says, "Where the

A cleansing stream forms the center of the Native Plant Garden.

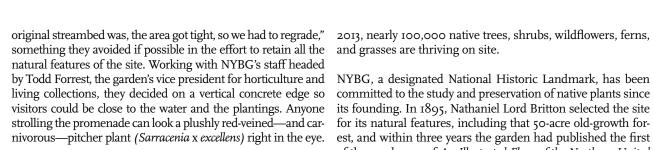
the wetland edge.

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PLAN

- 1 ENTRY PAVILION
- 2 ENTRY GROVE
- 3 WET WOODLAND
- 4 PROMENADE
- 5 WATER FEATURE
- **6 WET MEADOW**
- 7 MESIC MEADOW
- 8 EDUCATION PAVILION
- 9 GLADE
- 10 NATIVE BORDER
- 11 RIDGE
- 12 SPLIT ROCK
- 13 SCREENING
- 14 ROCK GARDEN
- 15 NORTH BRIDGE
- 16 BRITTON ROCK
- 17 WOODLAND
- 18 FOREST TRANSITION



create, and sustain the effort. The region-wide water ecosystem

of three volumes of An Illustrated Flora of the Northern United Working at the largest possible scale is the maxim of this proj- States and Canada. In updated form, as Henry Gleason and ect. The Leon Levy Foundation gave \$15 million to research, Arthur Cronquist's Manual of Vascular Plants of Northeastern United States and Adjacent Canada, along with its indispensand the other broad natural networks that were waiting to able *Illustrated Companion*, the work remains the native plant be discovered and used, plus NYBG's supremely well-versed bible today. Britton's wife, the botanist Elizabeth Knight, the horticulture, underpin the design story. By a recent count, in only woman among the 25 nominees to the Botanical Club of America in 1893, published hundreds of scientific papers (mostist of assess the soils, water, slopes, and microclimates already on OPPOSITE TOP is suitably commemorated at "Britton Rock," one of the glacial outcroppings that are such a prized feature of this site.

ada" is key to understanding the horticultural ambitions of this conditions," Joanna Payne, a former curator of the Native Plant garden. The selection of plants draws on the same native plant Garden, explains. Payne, who worked closely with Brady's team range, from New Brunswick south to Virginia and west to the on plant selection, tracked down the vast majority of the plants. Mississippi. Covering 29 percent of the United States, and in- Targeted plants already on the NYBG site were carefully lifted cluding the flora of 22 states and five provinces, the vast area is and stored for several years, including a large collection of rare a quiet statement about the boundlessness of a nature we hardly trilliums, which reproduce slowly and are on the endangered recognize today as one nature. What OvS and NYBG have done list. It took three years to prepare the woodland for planting.

ly on mosses) and as early as 1902 raised public awareness of site within the 3.5 acres of the Native Plant Garden, then intensify wildflowers by launching the Wildflower Preservation Society and maximize them, then distill (their favored word) the range of of America. The Brittons' bedrock dedication to America's flora possible regional experience within those possibilities. "Distill" meant compiling thousands of potentially garden-worthy native Cardinal flower. plants whose home habitats, native soil food webs, and cultural requirements fit the site, meaning they would thrive. "We pared The phrase "of Northeastern United States and Adjacent Candown the list to the essential 100 plants for each of the growing the wetland.

Water came first: an early sketch.

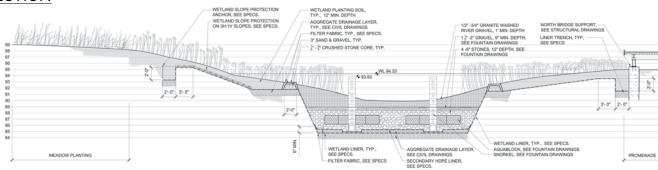
OPPOSITE BOTTOM

Lobelia cardinalis, heads toward

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WETLAND SECTION





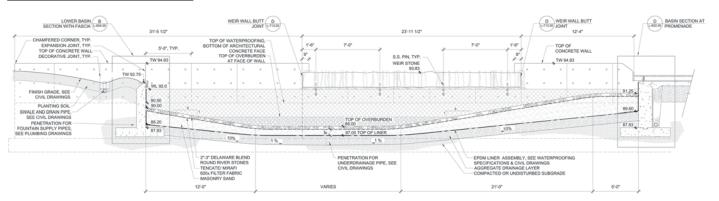
RIGHT Water flows down over two stone weirs, then back up through a massive underground cleansing system.

"The site had microclimates—root zones in the woodland and and feels as if it belongs. Instead of attempting to re-create spethe glade, the sensitive areas around schist outcroppings—and cific ecosystems, we worked with a palette of great plants and we had to go out and discover them," Brady says. At OvS, Hilary existing topography, aspect, [and] soils to create compositions Oat-Judge, ASLA, designed planting plans for woodlands and that will thrive over the long term. While many of the plants wetland, while Marisa N. Scalera, ASLA, was in charge of plan-might grow together somewhere out there in nature, the comning the ridge and the two meadows, a classic mesic prairie and a wet meadow. Joseph Chambers, ASLA, controlled the vital flow between our horticultural knowledge and Sheila's artistry." of documents for engineering and construction.

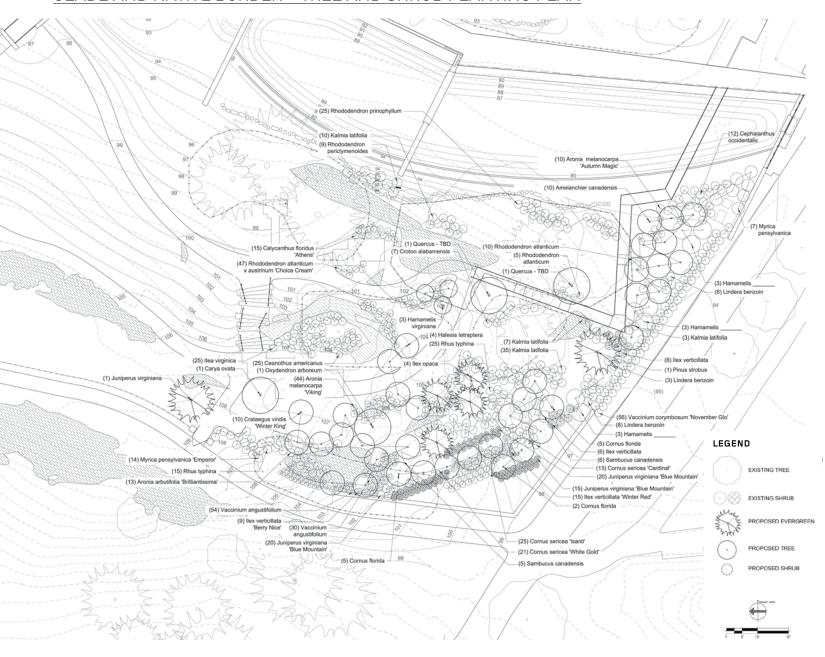
positions in our garden are artifice: the progeny of a partnership

NYBG had interestingly learned what to avoid from a "habitat-The rigorously selected plantings, now in their second year, based" earlier native plant garden created in the 1930s by the realready demonstrate how the right choice of natives will grow vered T. H. Everett, the director of horticulture at the garden for and thrive, given the correct conditions. But "it's a garden, not decades. The goal of the original garden was to show the greatan argument," Forrest explains. "We collaborated with Sheila est diversity of plants native to northeastern North America "by and her team to take advantage of the varied nature of the site constructing a concatenation of small vignettes that referenced to make a beautiful cohesive garden that celebrates native plants much larger ecosystems in the region: a pine barren, a 🥄

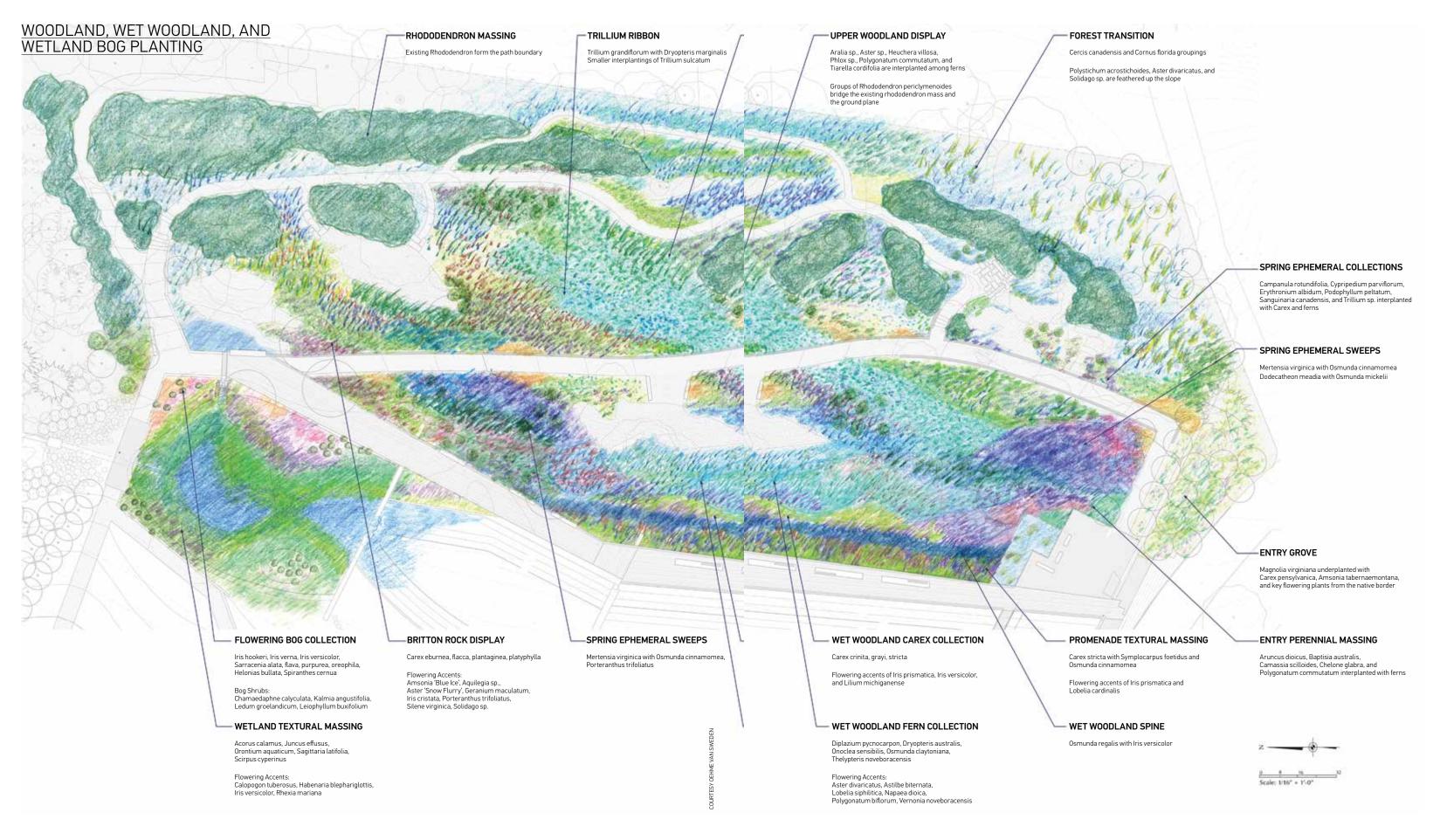
LOWER BASIN SECTION



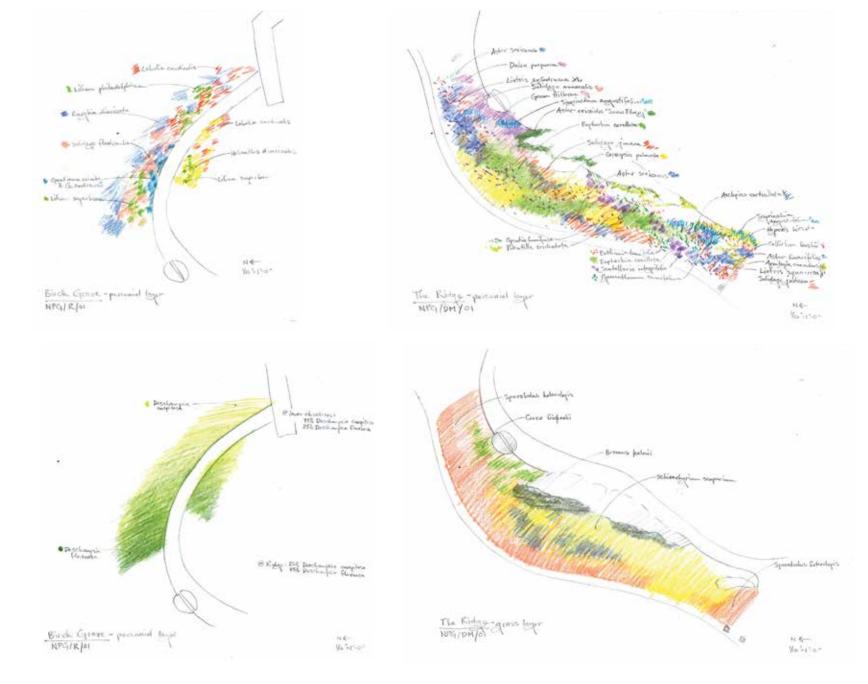
GLADE AND NATIVE BORDER - TREE AND SHRUB PLANTING PLAN



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>> serpentine barren, a calcareous knoll, an acid bog, a meadow, lower path gives a view down into the planting transition to a woodland," Forrest recalls. While at first this mosaic approach the wet woodland, colony by colony, patch by patch. In spring allowed NYBG to grow some very unusual plants, they often before the trees leaf out, the tides of ephemerals that overlay languished because the vignettes could never re-create all the one another as the season progresses can be described with a various biotic and abiotic factors that define the complex eco-rare accurate use of the word "tapestry." systems they were meant to represent. The sturdier survivors

became invaders; the more delicate plants gave up the struggle. Brady explains that the garden's long gestation period led to "a period of simplification over the years." She continues: The episodic nature of the old garden also significantly under- "Paths moved, became angular, then flexed, curved, then some mined its beauty. Transitions are now seamless from woodland returned to angular shapes." Shelby White, a trustee both of to wetland, from sunny meadow to shadier glade. High up NYBG and of the Leon Levy Foundation, which made the in the dry woodland, a narrow path threads through an old new garden possible, "wanted to ease out into a curve at the rhododendron thicket. Each step counts. Brady drew on her approach to Split Rock," a gigantic glacial erratic that crowns knowledge of labanotation, a system devised for recording hu-the ridge and speaks to the power of millennial ice and thaw. man movement on paper, to make it like a dance. A connected Now the curve over the meadow and past Split Rock recalls the Wantle - believel sides -- Actes of ben fellow Walter



old outer curve of the garden's western shoulder. The curve sound of water is arresting; the top of the wetland for a long TOP enhances the presence of the rock itself. Originally the design look down the entire water feature to the entrance pavilion;

About the path structure Brady also notes, "Throughout the entire garden the importance of not cutting the soil bed took Nature has its geometries—think snowflakes or neural Foamflower, dwarf precedence, but ADA accessibility made it necessary on the connections—and Brady's design enhances and recalls those south side of the meadow where that path winds down to the moments of geometry. Native plant gardening has come of age. entrance." She was quite conscious of pivot points that would The contemporary design is both a template and a metaphor map the area and set the cadence for a visitor. There are two for a larger and more optimistic approach to native plants, their BOTTOM hiding places: the rhododendron thicket and the dark privacy regions, their systems. "Extirpation is regional extinction for of the Japanese torreya glade (Torreya nucifera, the only exotic plants and the creatures that depend on them," says Doug Talallowed to remain in the garden), which shelters the education lamy, an ecologist at the University of Delaware, talking about coneflower mingle pavilion and creates two specific viewsheds instead of another the essential role native plants play in sustaining native birds panoramic view. There are pauses: the lower weir where the and insects. He stresses the hundreds of insects every single

did not include the top of the ridge. The design team took it. and the turn at Split Rock, a vantage point to look across at the woodlands from the meadows, and the promenade.

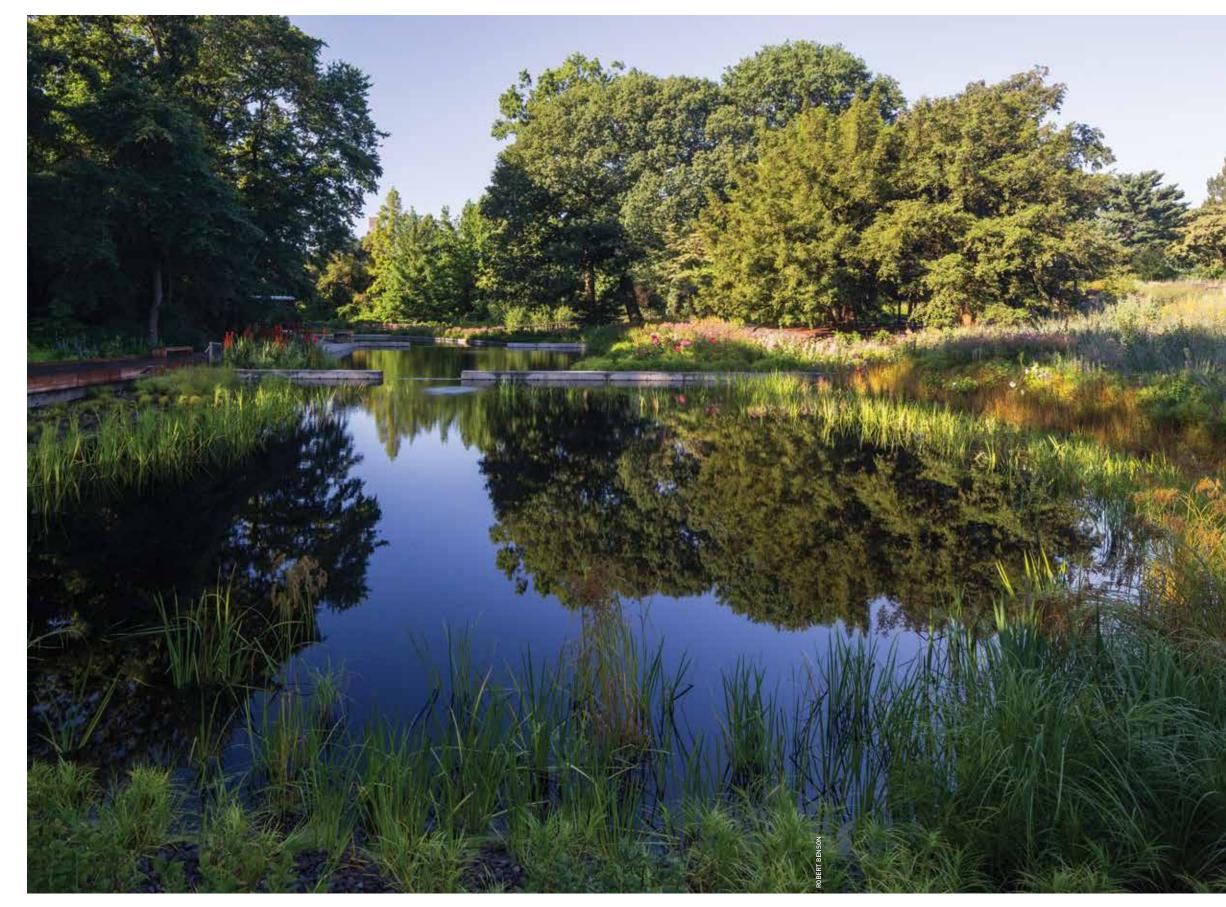
A shorter joe-pye weed backgrounds *Hibiscus* 'Jazzberry Jam.'

CENTER

larkspur, and mayapple carpet the woodland

Purple prairie blazing star and yellow

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LEF

The tranquil water and the banks of foliage and blossoms sustain an interlocking network of life.

bird needs to survive: It takes 6,240 to 9,120 caterpillars to hatch a clutch of chickadees. Here in living color and abundance is the holding line against extirpation. "Specialized relationships are nature—specialization is the rule and it always starts with plants," Tallamy adds. The ruby-throated hummingbird migrates north at exactly the time that the red and yellow native columbine, *Aquilegia canadensis*, begins to flower in the Northeast. "This garden celebrates bringing back the community of birds and plants to our neighborhoods in corridors that thread together the fabric of plant and animal life that is part of our cultural heritage," says Payne. On the first day the garden was open in May 2013, the earliest visitors were a blue heron and a woman in a wheelchair. As the great English novelist E. M. Forster so memorably wrote in *Howards End*, "Only connect.... Live in fragments no longer." •

CULTURAL LANDSCAPE HISTORIAN MAC GRISWOLD'S MOST RECENT BOOK, THE MANOR: THREE CENTURIES AT A SLAVE PLANTATION ON LONG ISLAND, NOW OUT IN PAPERBACK (PICADOR 2014), IS A BIOGRAPHY OF A PIECE OF LAND AND ITS INHABITANTS.

Project Credits

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