CAMBRIDGE

GoGreen Awards 2010

CATEGORY: *Stormwater Management/Large Organization*

MASSACHUSETTS INSTITUTE OF TECHNOLOGY

Ray and Maria Stata Center

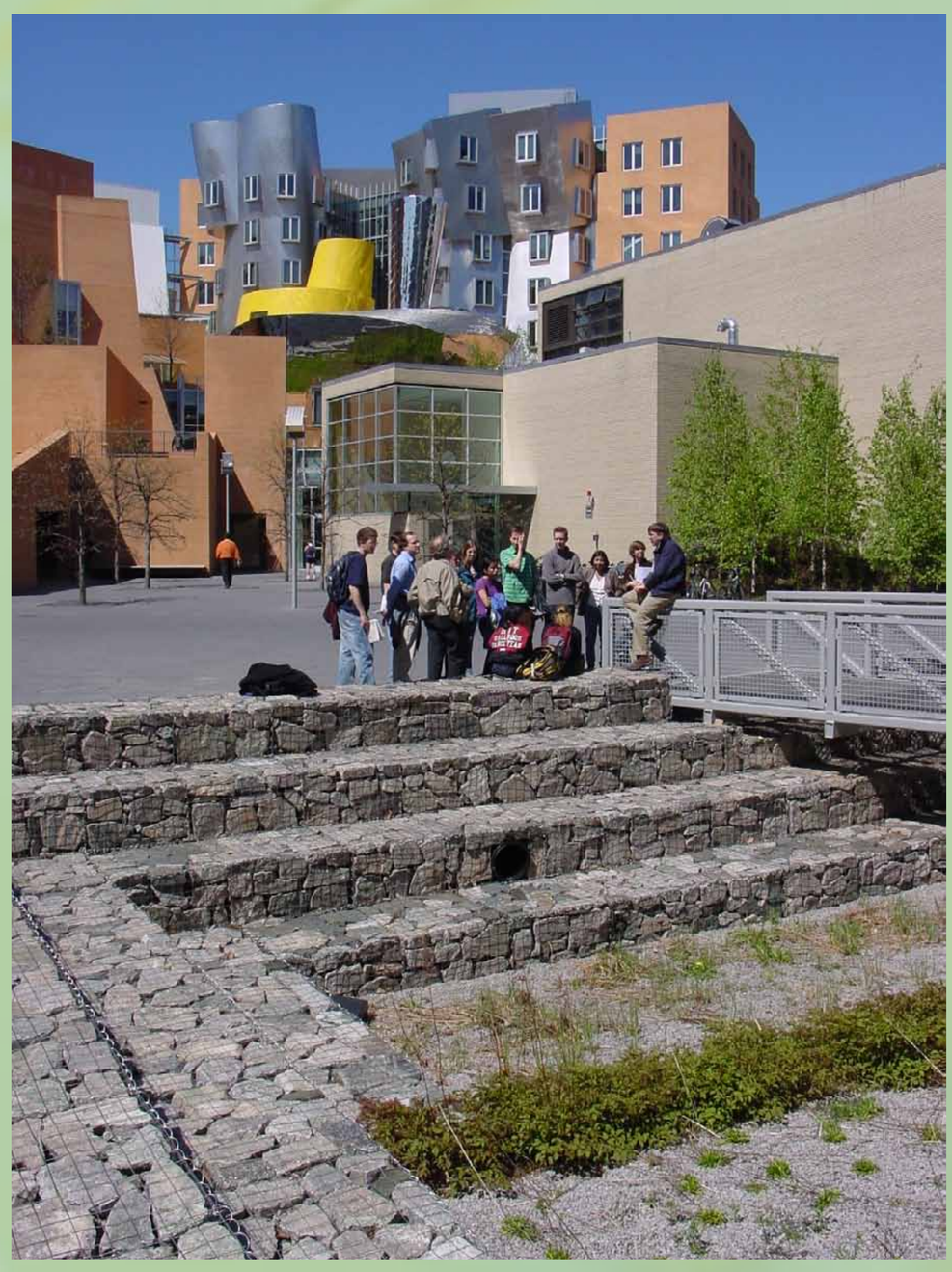
ACCOMPLISHMENTS

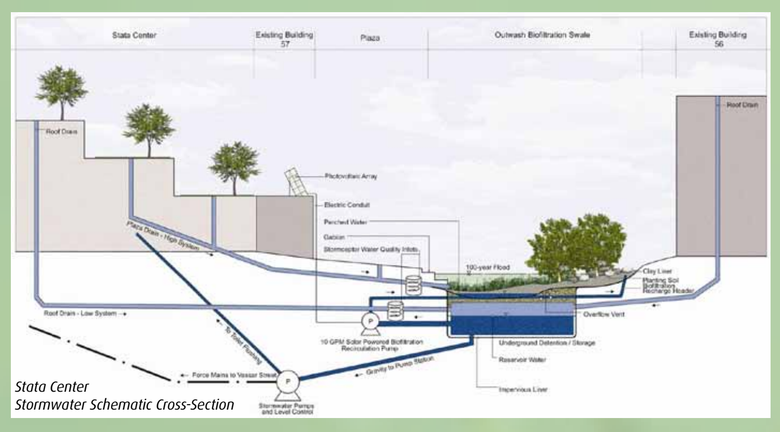
With the construction of the Ray and Maria Stata Center MIT tackled several tough design challenges related to expanding a campus within a dense urban environment. Taking on the challenges of limited capacity within aged infrastructure systems and with a goal to improve water quality conditions in the adjacent Charles River, MIT implemented an innovative series of stormwater control and treatment systems:

- *Stormwater runoff from the Stata Center and some adjacent roofs enters a wetland constructed with native vegetation, which is designed to filter out oil and grease and suspended solids from the runoff,*
- *A below grade galley chamber serves as a rainwater harvester - collecting 50,000 gallons of rainwater, storing it, and reusing it for site irrigation and to supplement toilet-flushing activities at the Stata Center,*
- *A solar powered pump is used to recirculate water stored within the galley chamber to irrigate the wetland area, a process that "polishes" the water through a biofiltration process that improves water quality,*
- *The wetland and galley chamber control the 25-year 24-hour storm event at the 2-year 24-hour predevelopment runoff rate, thereby reducing runoff from the site to the city's drainage system, and*
- *The roof design incorporates landscaping for shading and stormwater retention.*

ABOUT MASSACHUSETTS INSTITUTE OF TECHNOLOGY

MIT is a world class educational institution located on a 168-acre campus in Cambridge. Beginning with the admittance of its first students in 1865 with a focus on teaching and research to address real-world problems, MIT continues this objective through its commitment to the development and construction of state-of-the-art and sustainable buildings.





Stata Center
Stormwater Schematic Cross-Section

ABOUT THE GO GREEN AWARD

The City of Cambridge annually recognizes local businesses and organizations for outstanding practices in transportation, waste reduction and recycling, energy, stormwater management, climate protection, and community sustainability. The awardees make significant contributions to the reduction of the carbon footprint of Cambridge and to making the city more sustainable.