



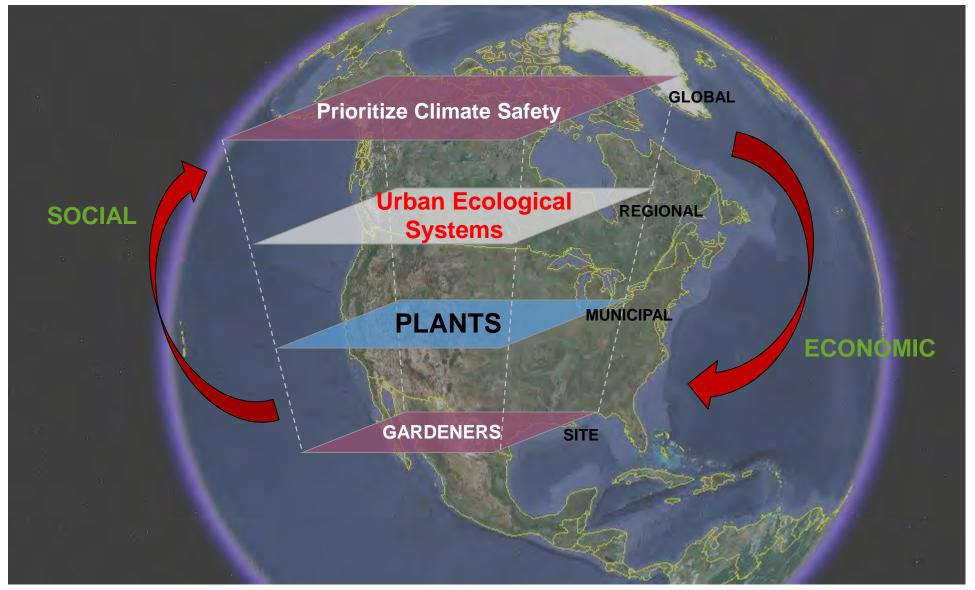
TERRY GUEN DESIGN ASSOCIATES

## Our 22<sup>nd</sup> CENTURY Needs Gardeners

- Ecological Design is key to Mitigating Global Climate Effects
- Chicago Design Projects Show Healthy Environs can be Built
- TGDA's Design for Life Ethic begins at Home

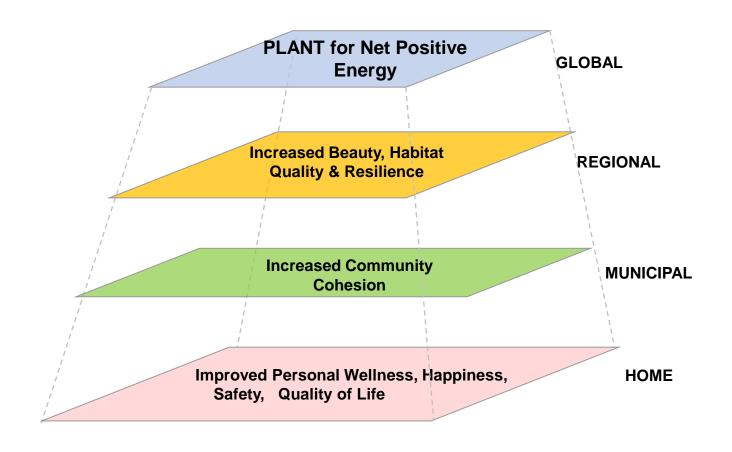


## 22<sup>nd</sup> Century Scale Mobilization



**Shift to An Eco-System Economy** 

## 22nd Century "DESIGN FOR LIFE " Gardening Ethic



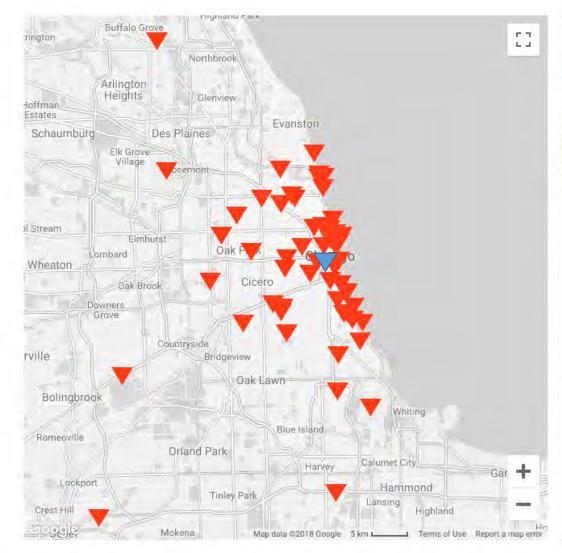
TERRY GUEN DESIGN **ASSOCIATES** 





## Design for Life

Creates healthy, beautiful, ecological landscapes **Connects Communities with nature** Catalyzes life in your neighborhood





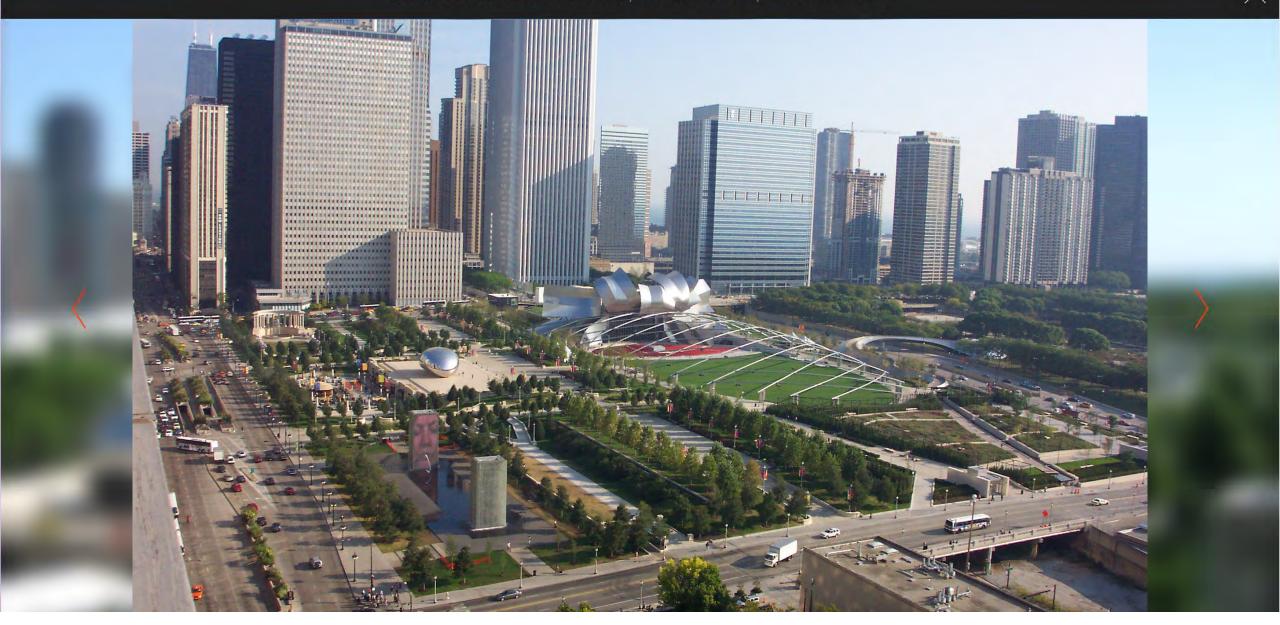


## TERRY GUEN DESIGN ASSOCIATES / DESIGN FOR LIFE / MILLENNIUM PARK





#### TERRY GUEN DESIGN ASSOCIATES / DESIGN FOR LIFE / MILLENNIUM PARK



# 606,289 FT<sup>2</sup> OF PLANTING AREAS COLLECT STORMWATER RUN-OFF FROM THE FIRST 1" OF RAINFALL.

UP TO 48,869,629 GALLONS IS MITIGATED NATURALLY BY PLANTING.



OF ALL WATER
ACCUMULATED ON SITE
IS RETAINED



OLYMPIC-SIZE POOLS OF STORMWATER CONSERVED ANNUALLY



ACRES OF GREEN ROOF

SAVING THE CITY OF CHICAGO

\$1,647,534

IN STORMWATER MGMT. COSTS

## TERRY GUEN DESIGN ASSOCIATES / DESIGN FOR LIFE / MILLENNIUM PARK

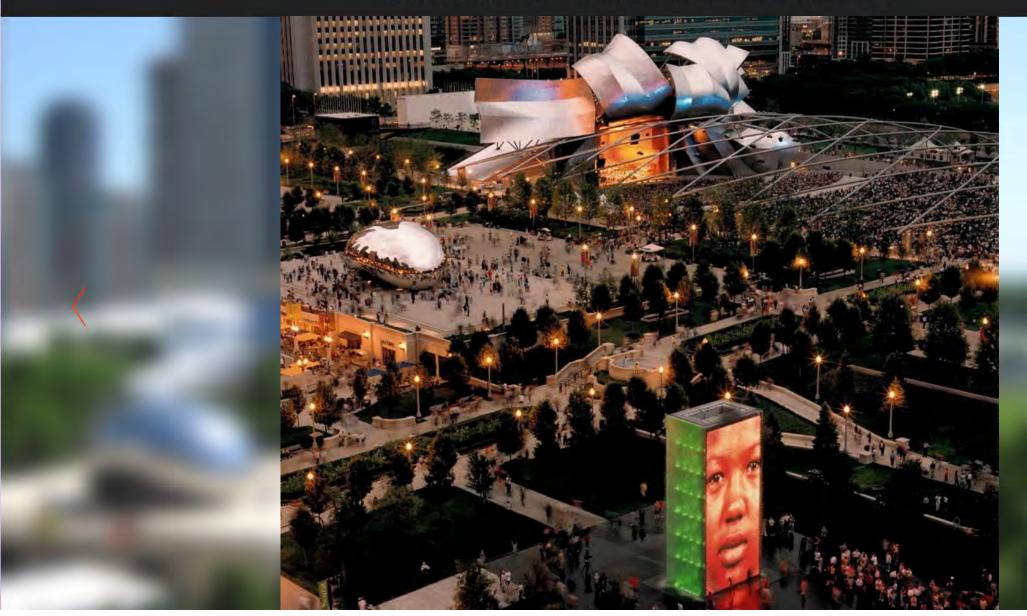
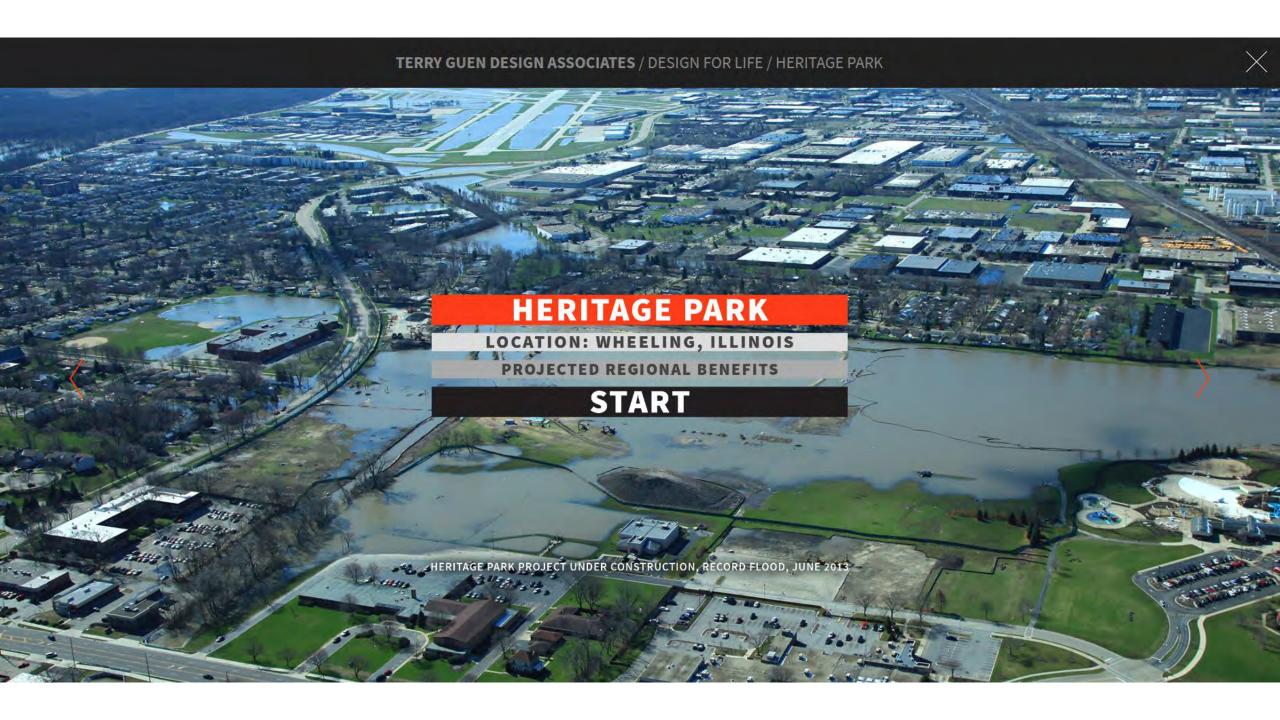


Photo: Terry Evans, 2005



#### TERRY GUEN DESIGN ASSOCIATES / DESIGN FOR LIFE / HERITAGE PARK



#### TERRY GUEN DESIGN ASSOCIATES / DESIGN FOR LIFE / HERITAGE PARK

## THE VILLAGE OF WHEELING'S AND DOWNSTREAM FLOODING IS IN PART MANAGED BY HERITAGE PARK'S GREEN INFRASTRUCTURE LANDSCAPE SOLUTIONS.

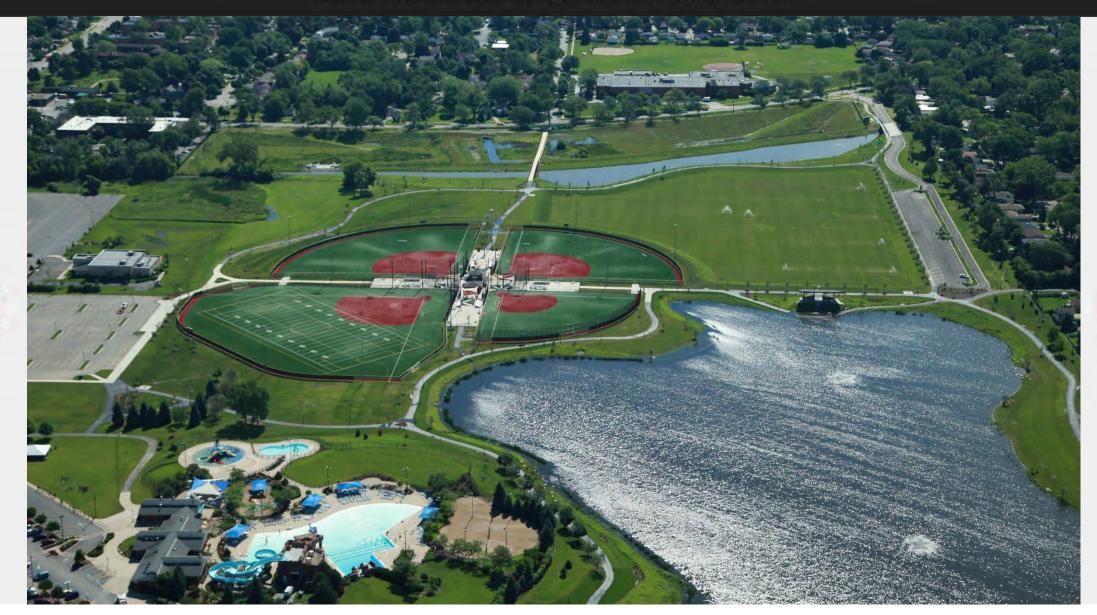




THIS STORMWATER MANAGEMENT FACILITY WILL REDUCE ANNUAL RUNOFF BY 90,700,000 GALLONS

THE HERITAGE PARK GREEN INFRASTRUCTURE STRATEGIES INCLUDE MOVING BUFFALO CREEK, RESHAPING ITS FLOODPLAIN, NEW CONTROL PUMPS AND WEIRS, PLANTING NATIVE VEGETATION IN THE FLOODWAY AND 6 BASINS. THIS EFFORT REDUCES EROSION, EXPANDS HABITAT AND IMPROVES WATER QUALITY, WHILE INCREASING INFILTRATION IN BUFFALO CREEK'S SOUTH WATERSHED.

## TERRY GUEN DESIGN ASSOCIATES / DESIGN FOR LIFE / HERITAGE PARK





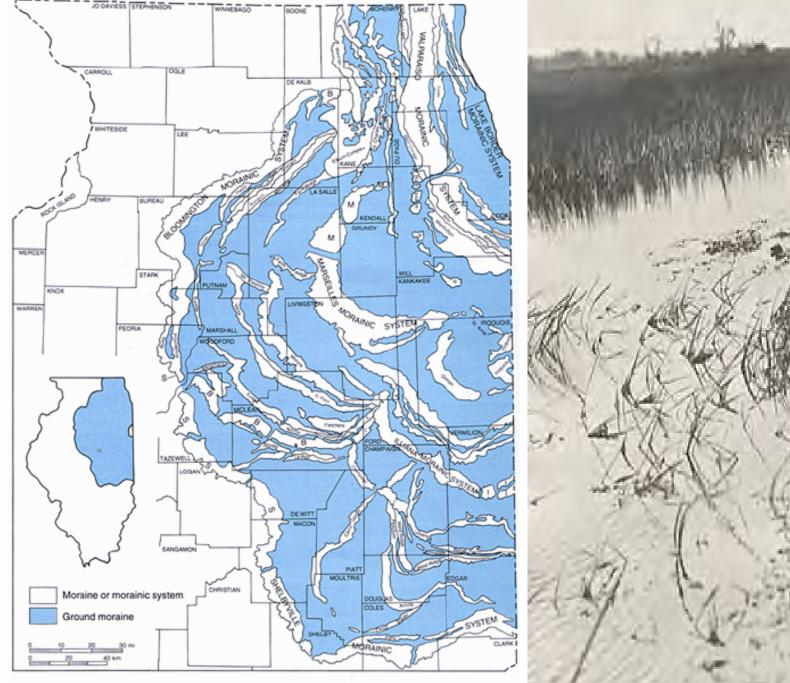


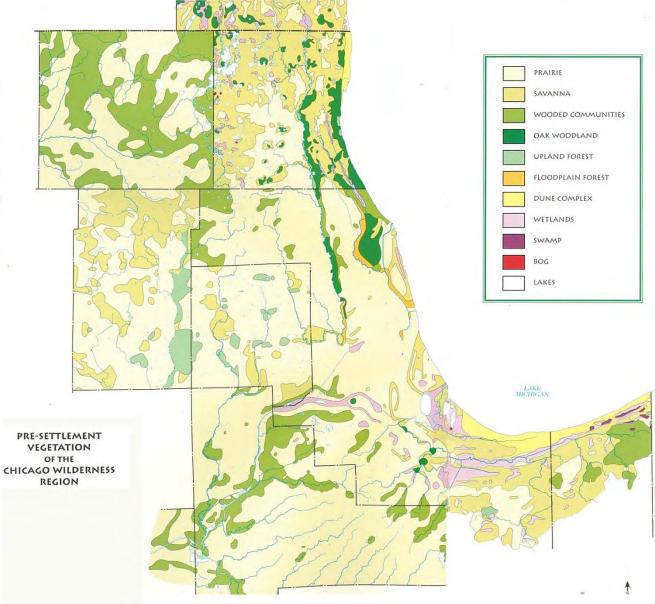
Figure 24 Wisconsin Episode moraines are across northeastern Illinois and indicate position of temporary stationary ice fronts as the ice retreated



## HISTORIC RANGE OF THE PRAIRIE

Little remains east of the Mississippi, but some of the biggest and best of the surviving remnants are in the Chicago region.





## ECOLOGICAL MASTER PLANNING

# APLAN

N

## 1. HERITAGE



Living History Cultural Dynamic Memory Points

### 2. BOUNDARIES



Quantify contiguous habitat areas, long-term responsibilities and goals

Protect boundaries through acquisition of easements

Visual filtration buffers

## 3. CRISIS



Stormwater management
Loss of hydrology, vegetation
No boundary protection
No immediate action by city
and park district will result in
permanent damage to core
features

### 4. STEWARDSHIP



Removal and replanting
Perpetuate interaction and relationship with nature
Natural area protection and management
Least amount of resources

## 5. PROGRAMS



Nature Center Facility
Nature Pre-School
Children's Garden
Bathhouse Hickory Creek
Connecting people to park

#### 6. ECONOMY



A plan and a commitment
Public space operations
Staffing
New Programs
Public funds
Private endowment











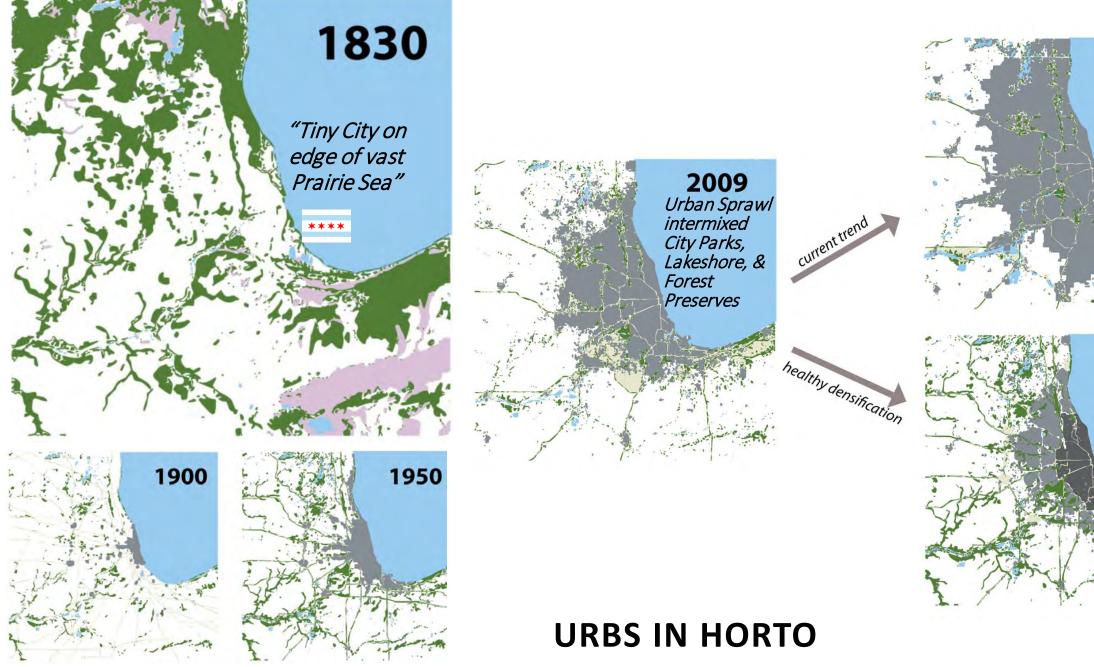
## **PLAN FOR CHICAGO** 1908 Daniel Burnham: Make No Small Plans



Setting Expectations CREATING CAPACITY

XLIV. CHICAGO. GENERAL MAP SHOWING TOPOGRAPHY. WATERWAYS, AND COMPLETE SYSTEM OF STREETS, BOTLEVARDS, FAREWAYS, AND PAREN.

The parks and purkways excited the city: they are placed in relation to the radiating attents, and increase in area in proportion to their distance from the center (green). Also showing railroads (red), the proposed harbors at the mostles of the Chicago and Calumet rivers, and the location of outlying townships. The abscript of the great in whom he proposed for the city.



Chicago Wilderness, Atlas of Biodiversity, and Terry Guen Design Associates, Boulemorphosis 2012

# Healthy Densification – Compact Chicago

1 Green Capital Corridors - Improvements which must be located as part of Natural Systems

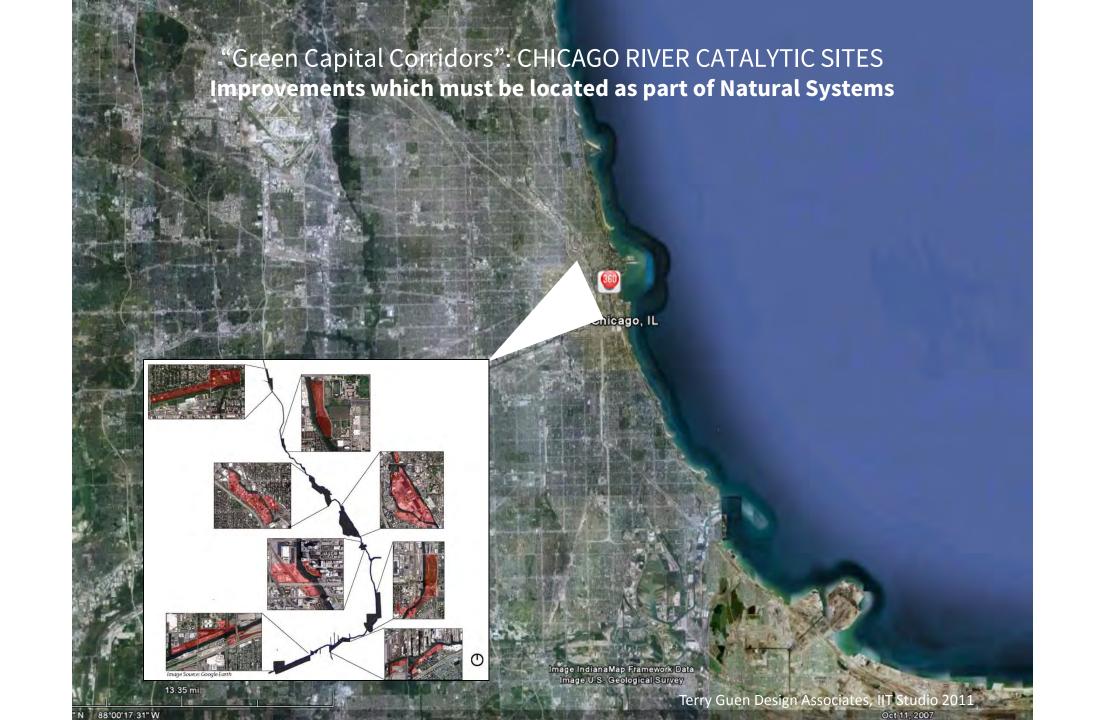
2 Synergistic Enterprise Zones - Create "Green" Industrial Parks based on closed loop systems that situate like industries, creating job opportunities, reducing transportation, providing transit access to Parks. Industries may include farming of alternate energy, resource recovery, urban agriculture

(3) **Legacy Open Spaces** - places for the development of legacy greenspace, creating a permanent place that is accessible by surrounding neighborhoods, increasing living standards

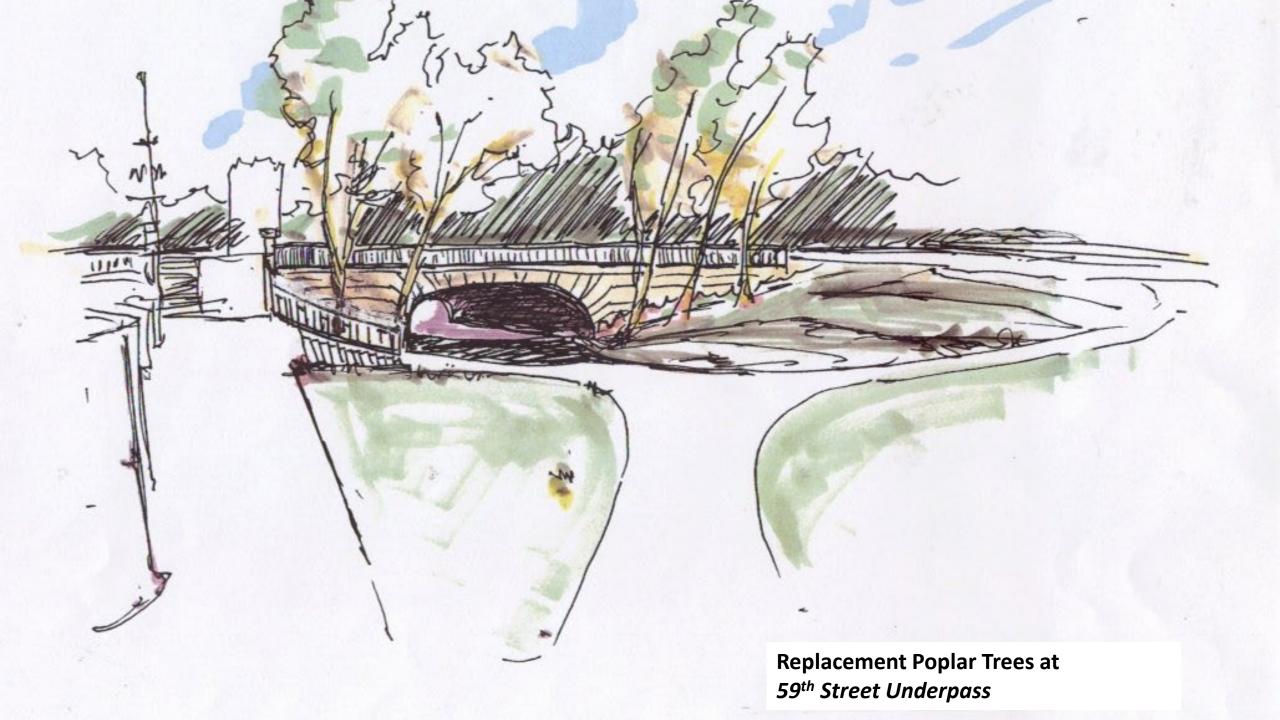
(4) Climate-Mitigation Areas - To improve city-wide permeability/water infiltration to groundwater table, increase tree canopy cover and/or reflective grassland benefits, utilizing variety of infiltration techniques and open space opportunities.



Terry Guen Design Associates, Boulemorphosis 2012













DESIGN for CLIMATE ADAPTATION & HABITAT

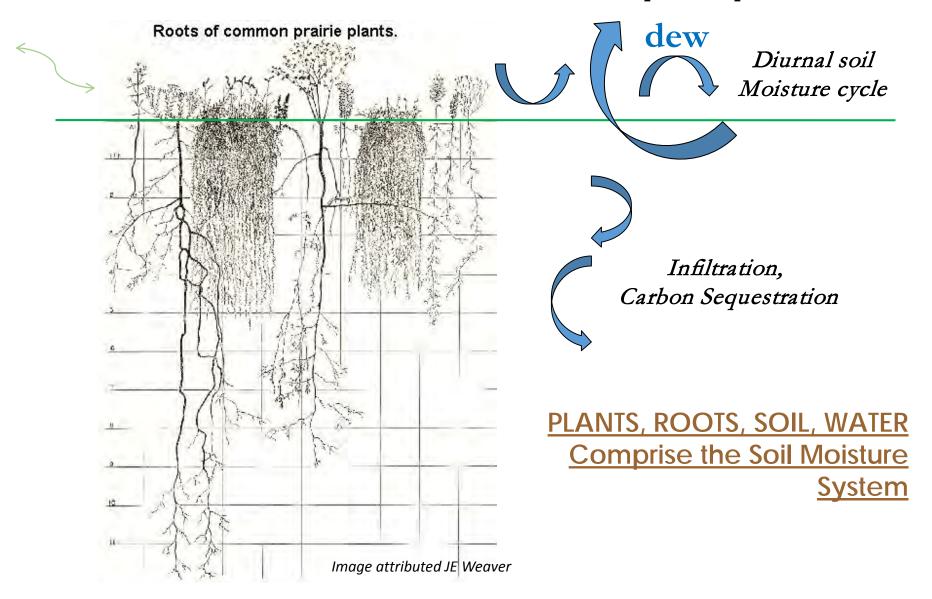




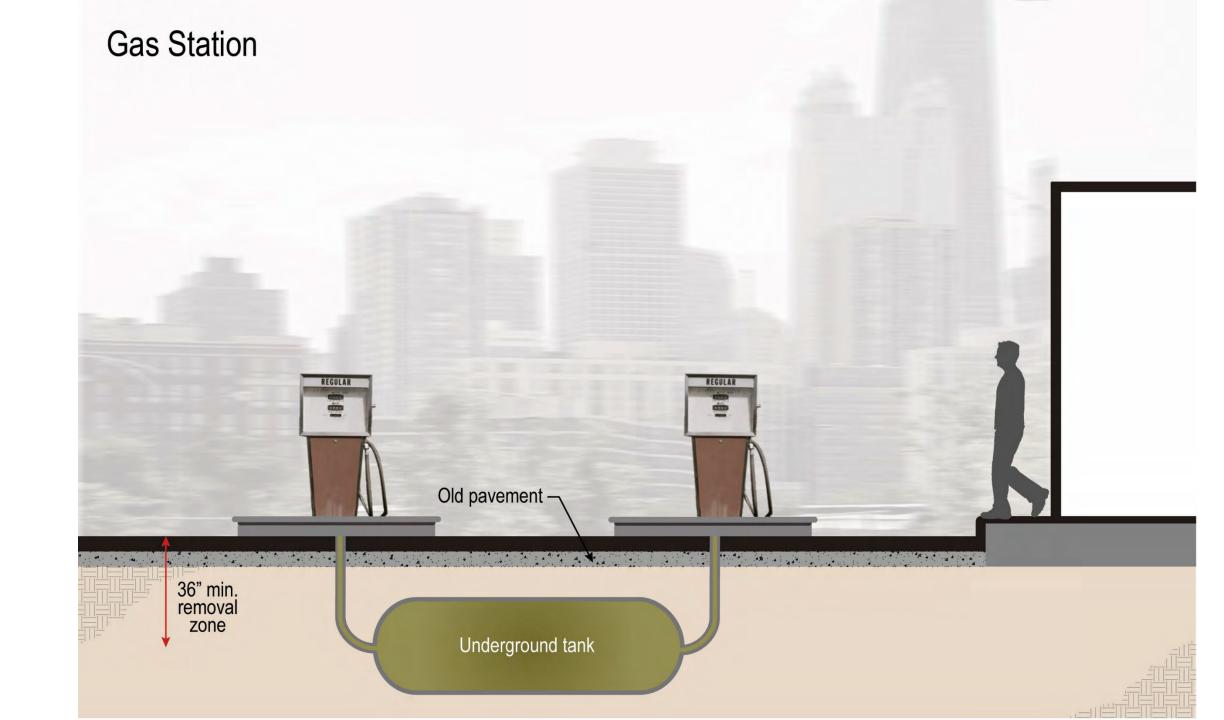


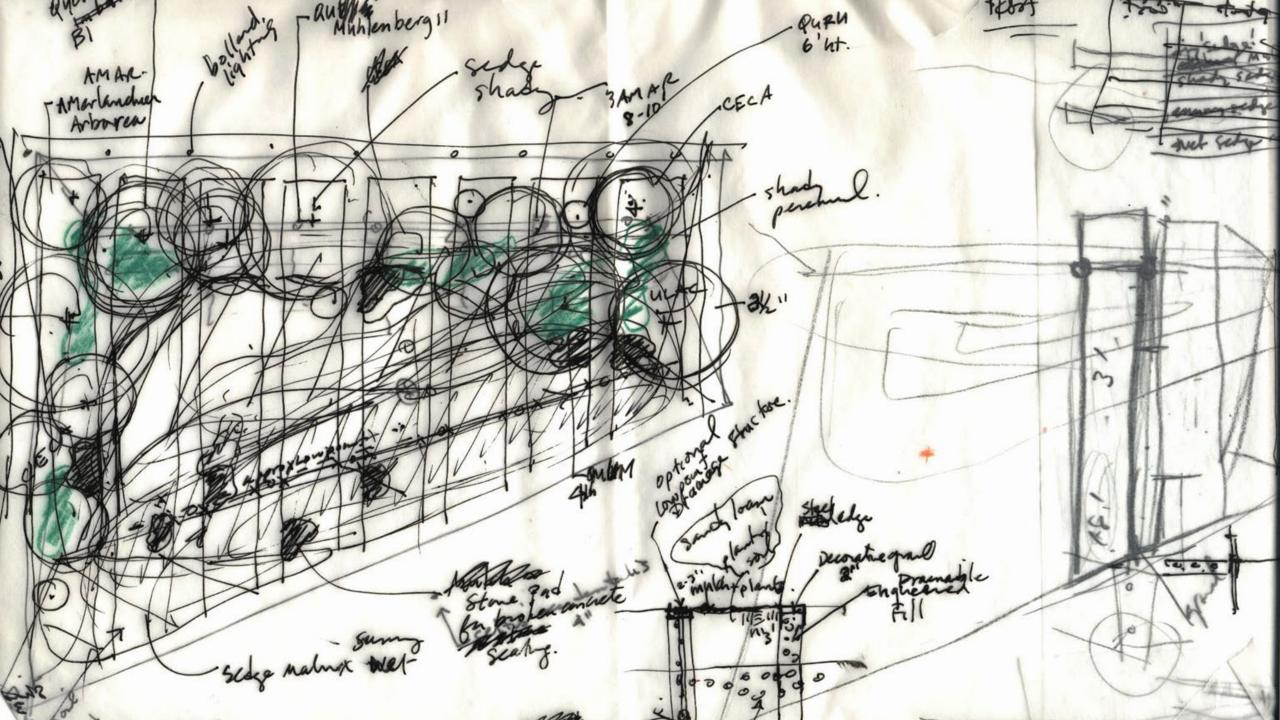


## Evapo Transpiration













**Urban Bio-Infiltration Garden with Dolomite Prairie Plants in 9" imported soil** 







## AREA D: OUTDOOR VENUE AND LAWN

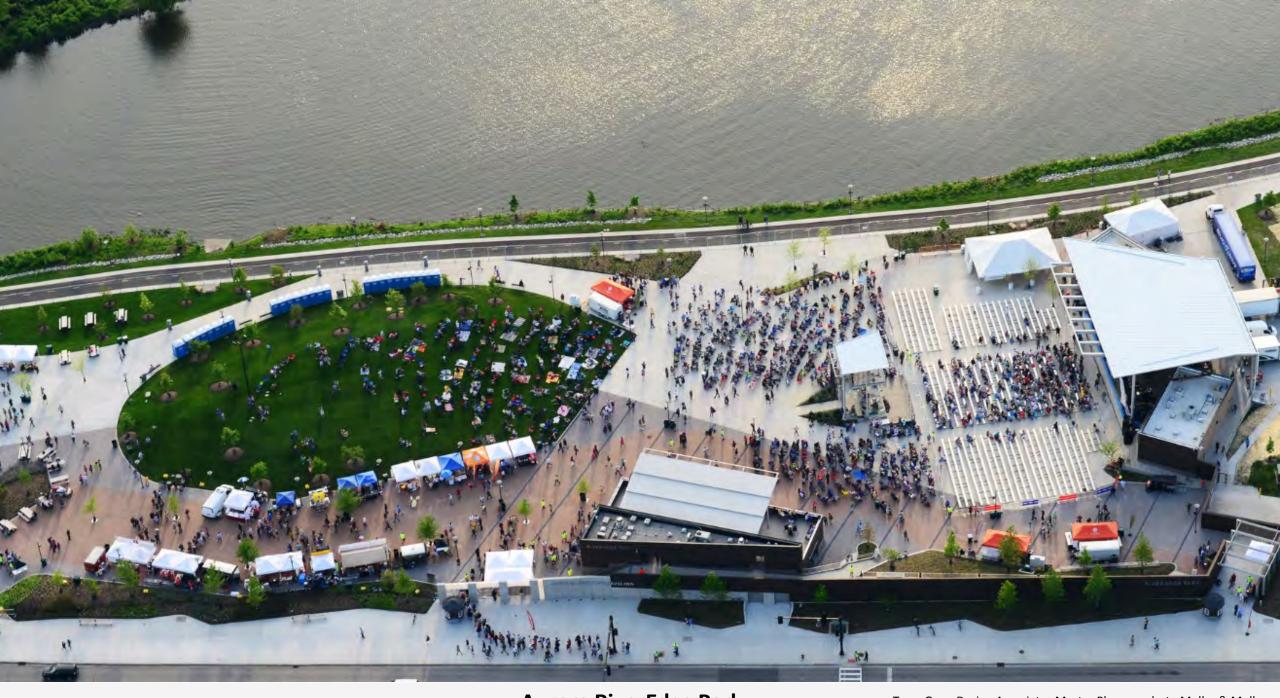
The Venue acts as a web between the River and the City. It addresses and responds to both the urban city edge and the natural river edge with its architecture. It is being designed to attract the highest level performers with a high quality directional outdoor surround sound system and a unique architectural presence. It will hold 2000 people in fixed seats and another 4000 people on the gently sloped lawn.

The Venue is proposed to be placed in the flood plain. To achieve proper site lines, the flood plain must be altered with fill.

Compensation for this new fill is found by excavating adjacent river edges to form new wetlands. In this way the park is designed to be in balance with its site. Each design challenge such as this has been treated as an opportunity to create a new asset for the park. In this case new flood plain fill is compensated by restoration of a nearby wetland.

The architectural form is derived directly from the sound system requirements. A series of giant masts ring the seating area canting out toward the surrounding park and city. They will support a weave of steel cables which in turn support a sophisticated electronic sound delivery system.





Aurora RiverEdge Park



Maggie Daley Park, Chicago, IL

Terry Guen Design Associates Local Landscape Architect, Michael Van Valkenburg, NYC



North Avenue Beach, Chicago, IL







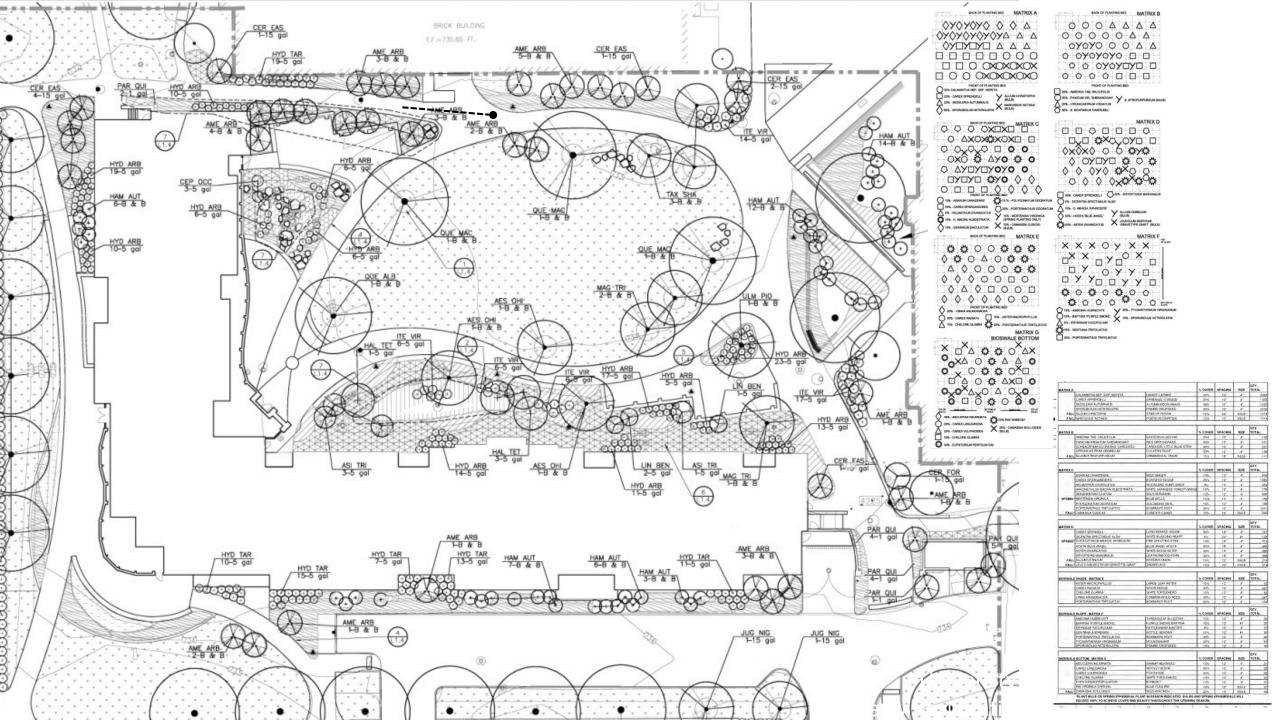








Navy Pier Welcome Garden - Native Botanic Perennial Display, Chicago, IL Terry Guen Design Associates Landscape Architect, 2017



















## 20<sup>th</sup> Century Gardener Wisdom Russell Page: Education of a Gardener, 1962

"I know that I cannot make anything new.

To make a garden is to organize all the elements present and add fresh ones, but first of all, I must absorb as best I can all that I see, the sky and the skyline, the soil, the colour of the grass and shape and nature of the trees.

Each half-mile of countryside has its own nature and every few yards is a reinterpretation. Each stone where it lies says something of the earth's underlying structure; and the plants growing there, whether native or exotic, will indicate the vegetable chemistry of that one place."

## Plants Are our Friends

22<sup>nd</sup> Century Gardener Wisdom, Terry Guen: America In Bloom, 2019













