GROUNDWORK
CHANGING PLACES
CHANGING LIVES

URBAN TRAILS IN LAWRENCE

NOVEMBER 8, 2014

Groundwork USA

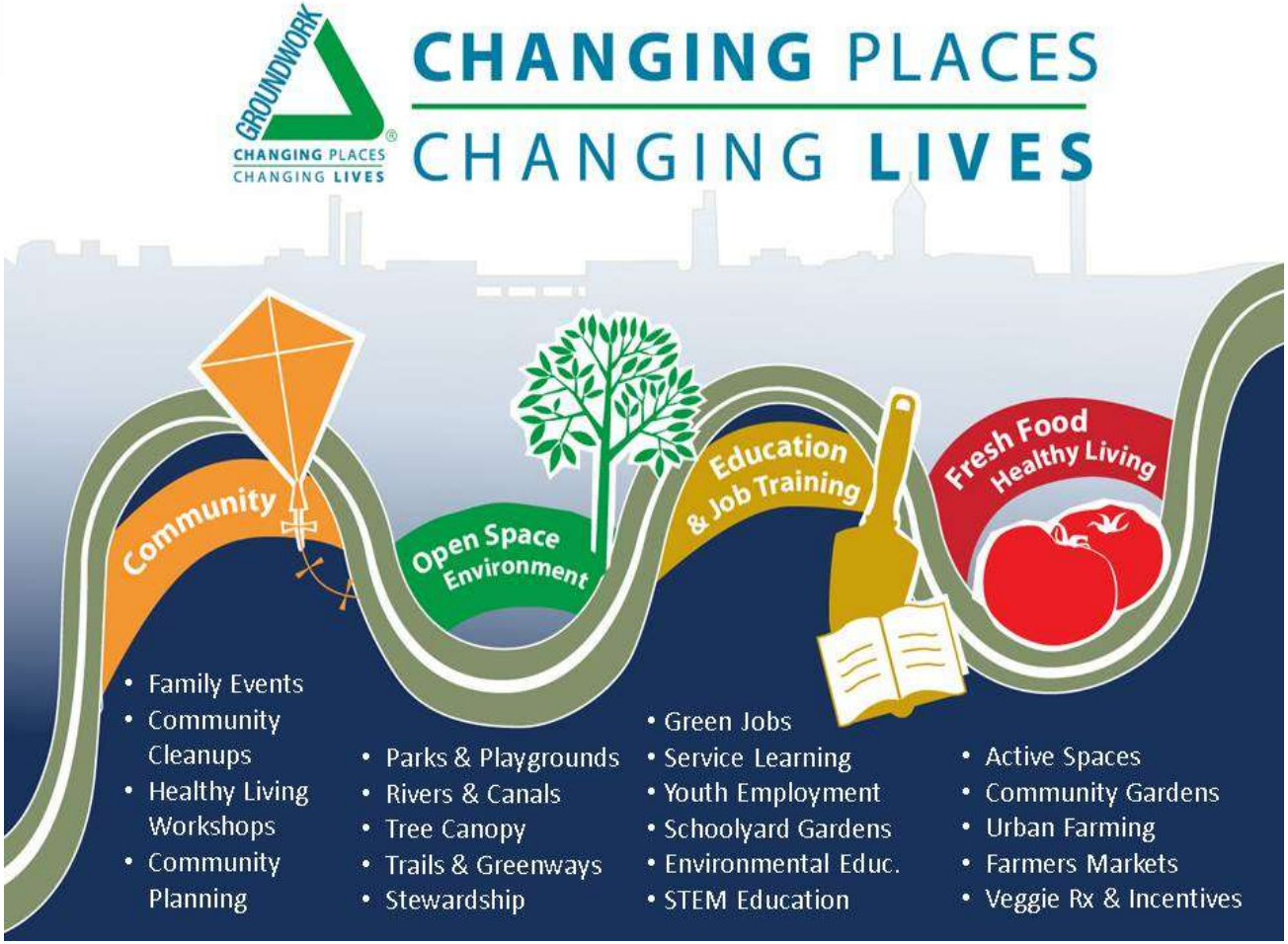
Development of the GroundworkUSA network is supported by the National Park Service Rivers & Trails program in partnership with the Environmental Protection Agency Brownfields Program

Youth | Businesses | Land | Education | Communities | Brownfields

Mission

To bring about the **sustained regeneration**, improvement and management of the physical environment **by developing community-based partnerships** which empower people, businesses and organizations to promote environmental, economic and social well-being.

Projects & Programs Decided by Community Mandate



Groundwork Lawrence:
Open Space Projects (2001-2014)

Challenges of Urban Trails

- Environmental Constraints
- Community Engagement
- Long Project Timelines

The Spicekt River Greenway

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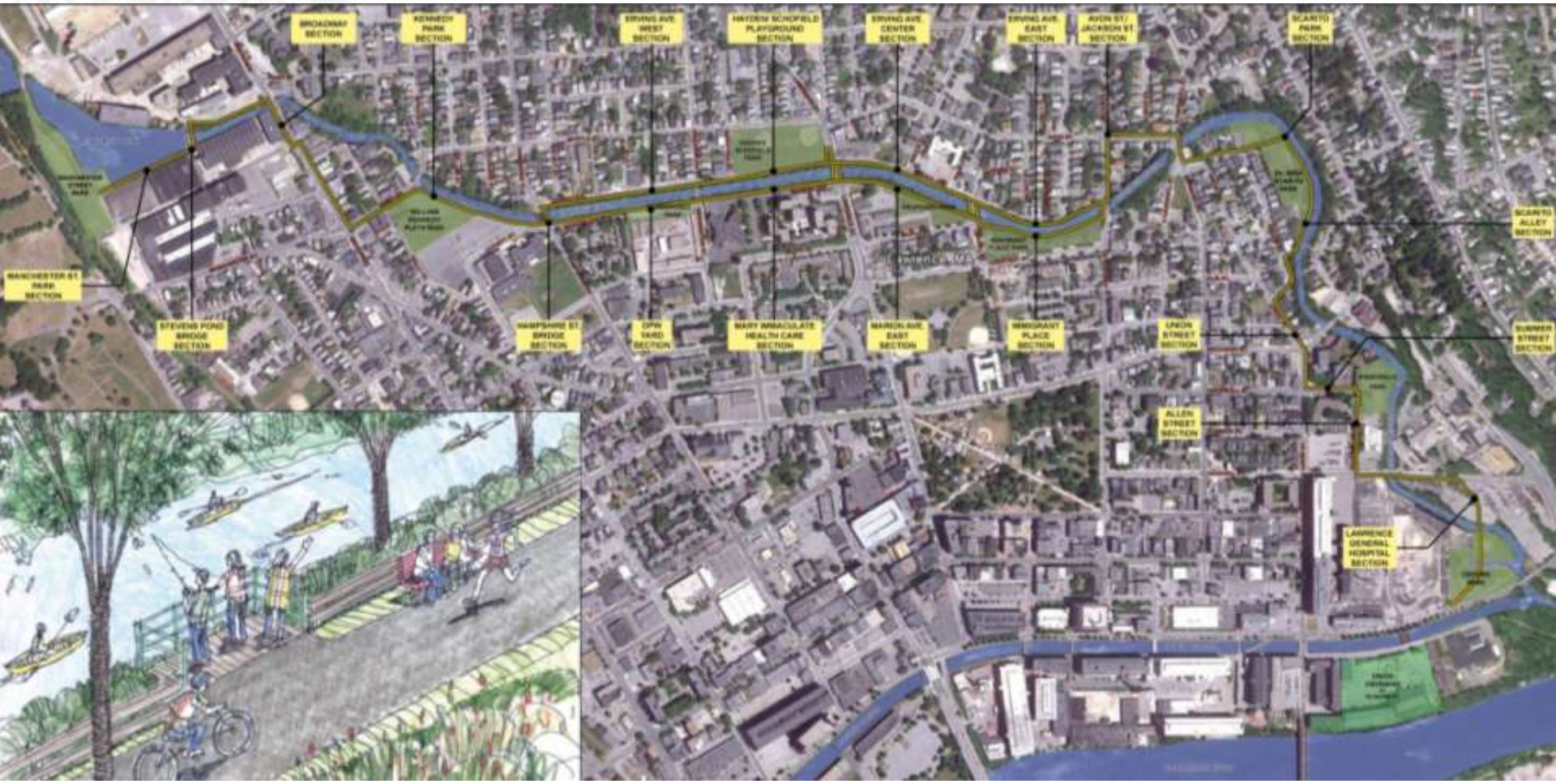
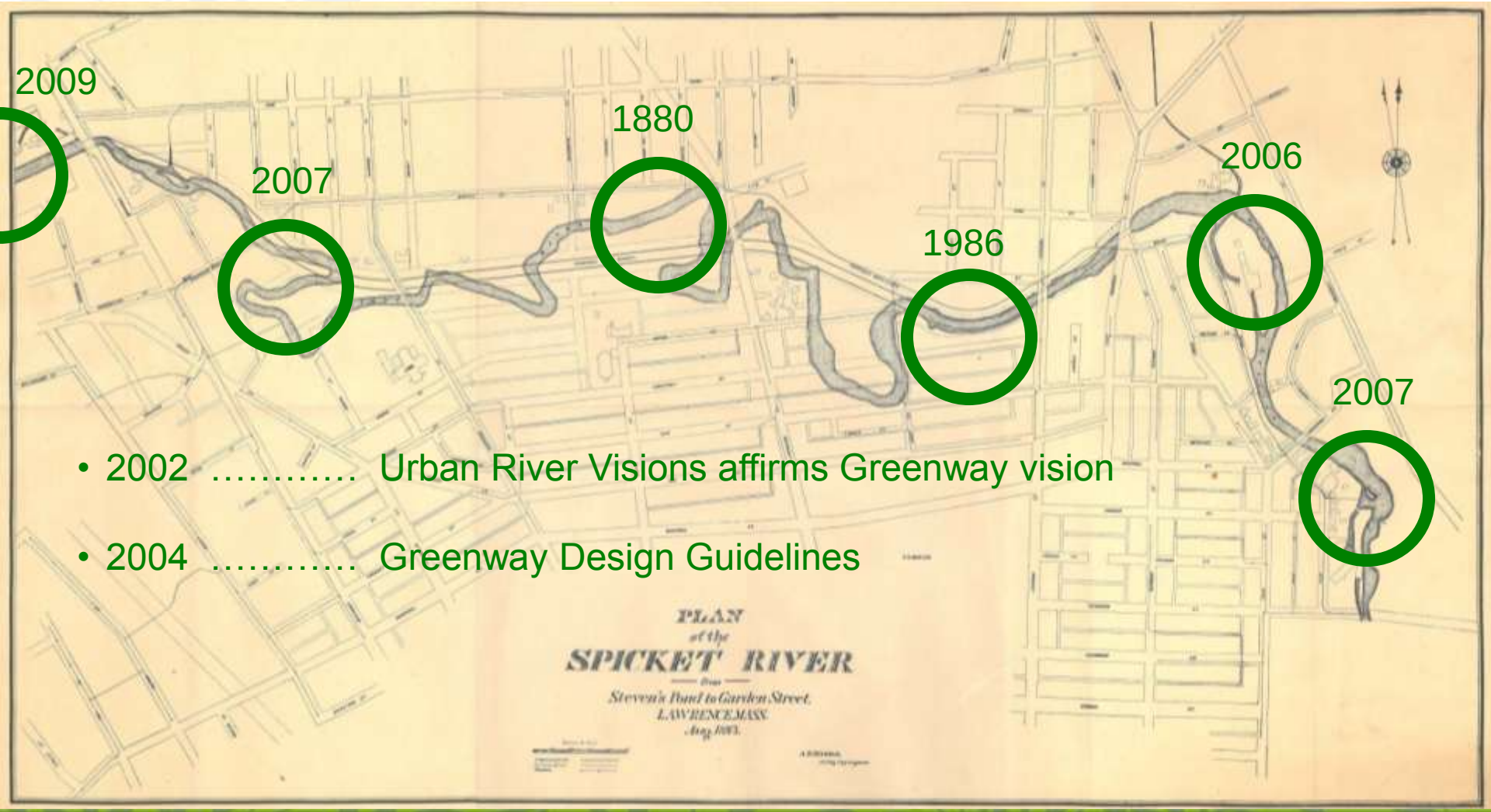
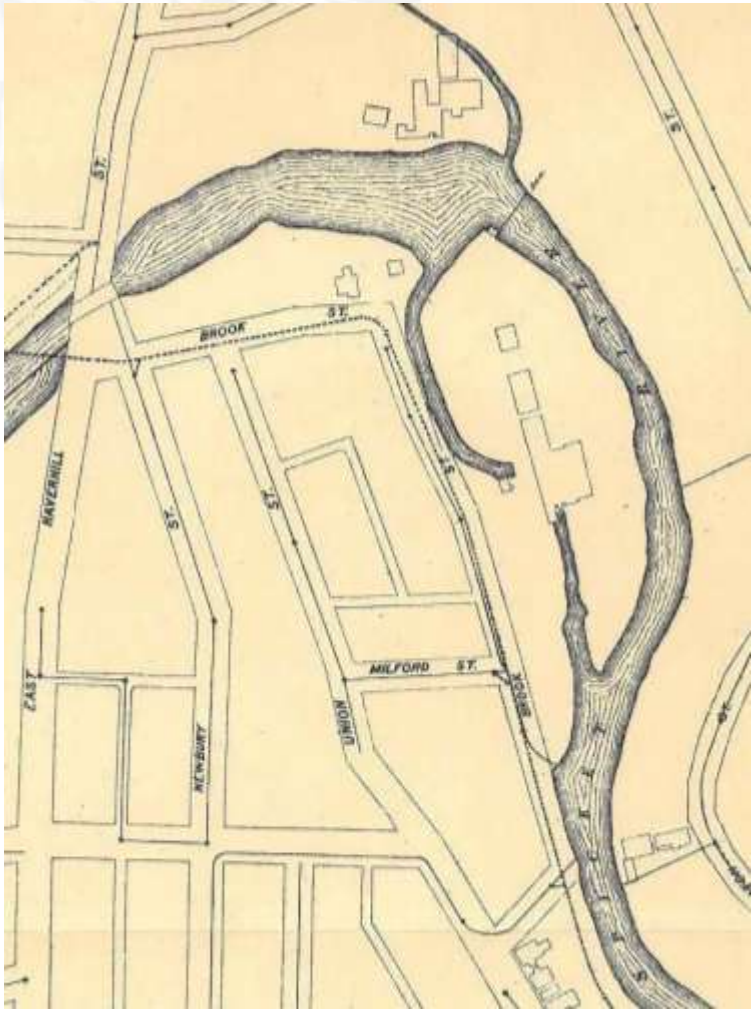


The Spicket River Greenway: A series of riverfront parks



- 2002 …… Urban River Visions affirms Greenway vision
- 2004 …… Greenway Design Guidelines

Dr. Nina Scarito Park



Dr. Nina Scarito Park

Manchester Street Park: Former Trash Incinerator

Manchester Street Park: Post incinerator demolition

Manchester Street Park

Manchester Street Park

Spicket River Greenway: Connecting the Parks

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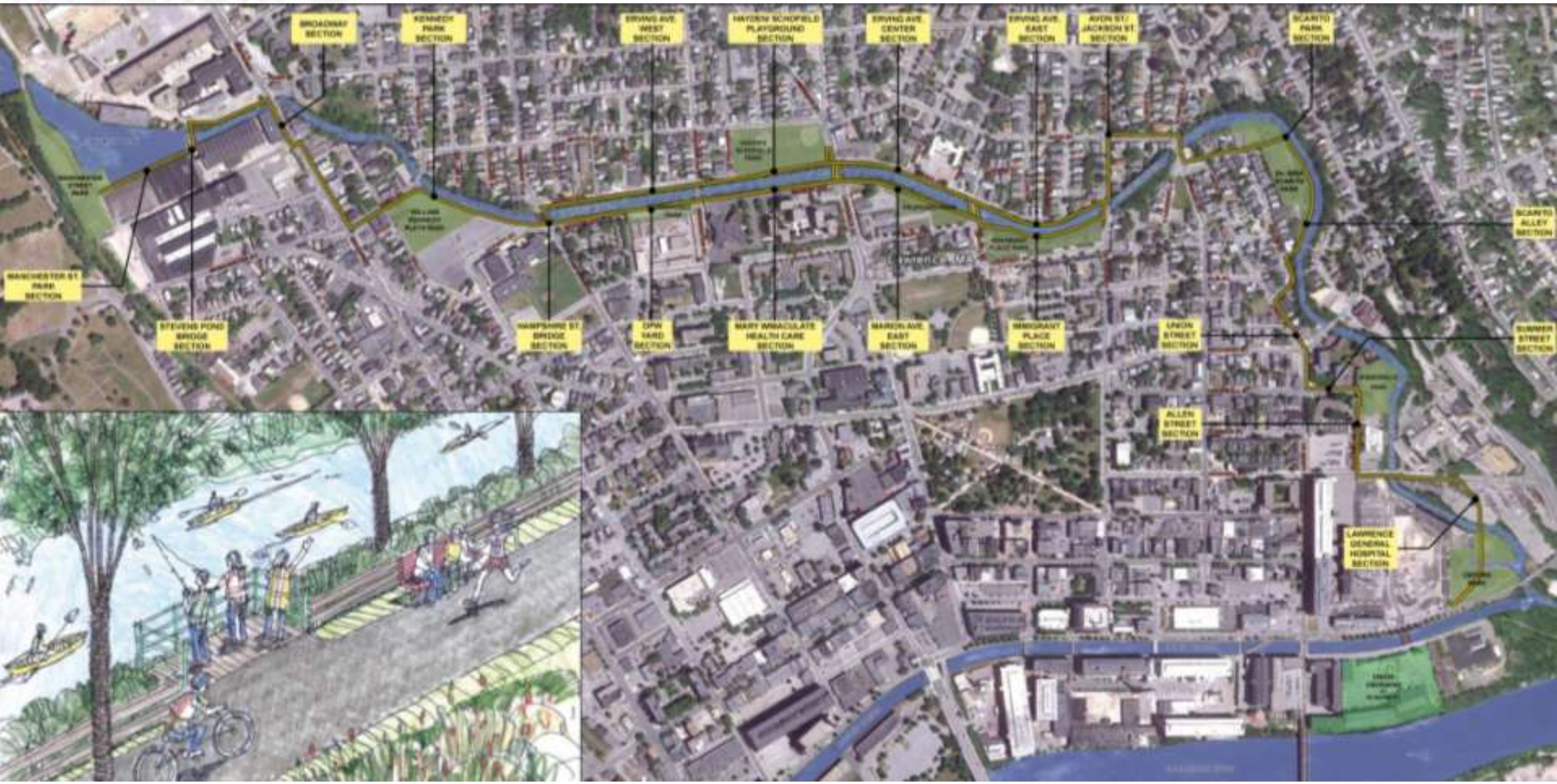

Stevens Pond: Before Greenway

Stevens Pond: Before Greenway

Stevens Pond: After Greenway

DPW Yard: Before Greenway

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DPW Yard: After Greenway

DPW Yard: Before Greenway

DPW Yard: After Greenway

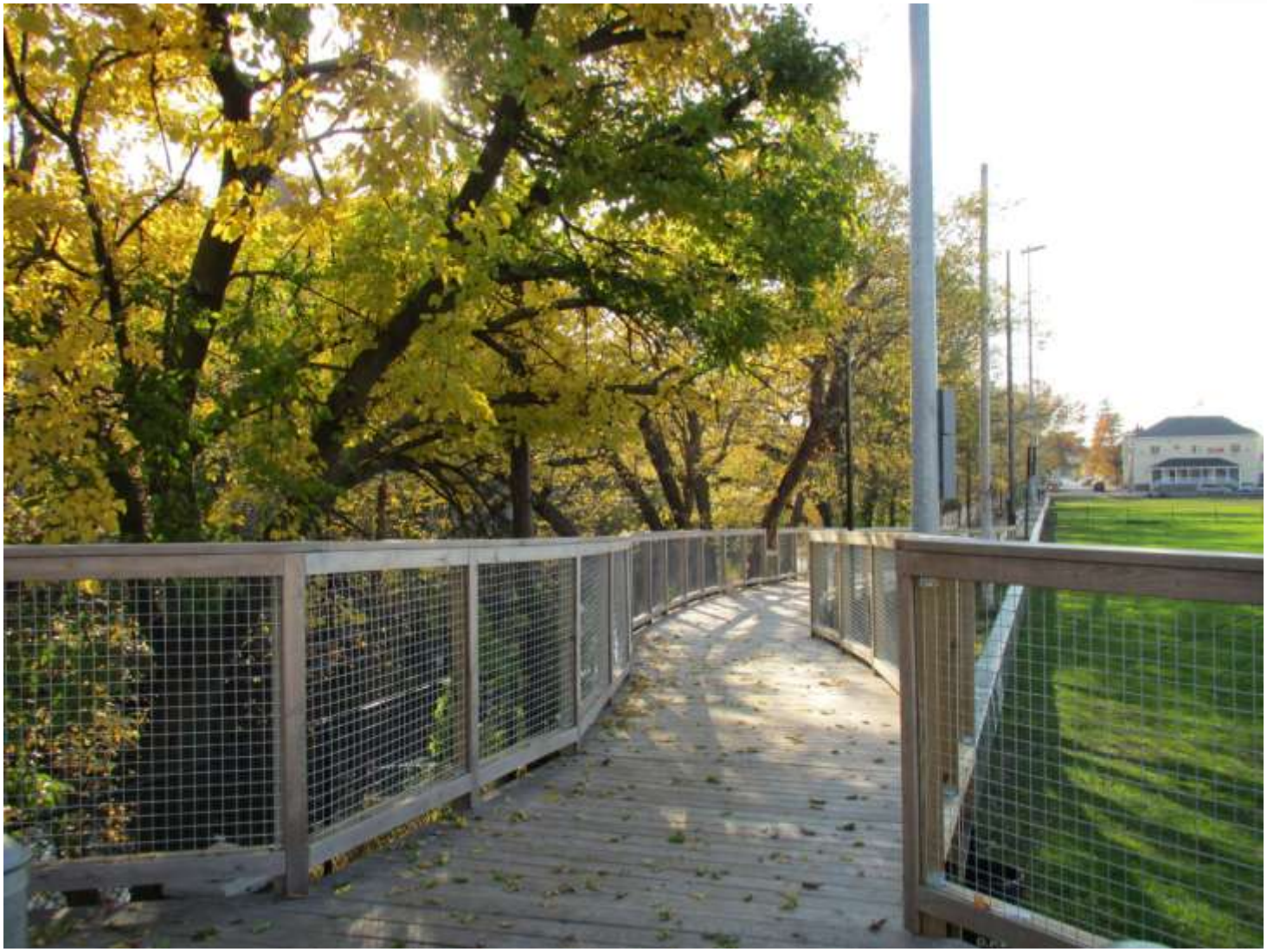
DPW Yard: After Greenway

Erving Avenue: Before Greenway

Erving Avenue: After Greenway

Hayden Schofield Playstead: Before Greenway

Hayden Schofield Playstead: After Greenway



Hayden Schofield Playstead: After Greenway (Causeway)

The Greenway at Immigrant Place Park

The Greenway at Immigrant Place Park

The Spicket River Clean-up

The North Canal Workshops

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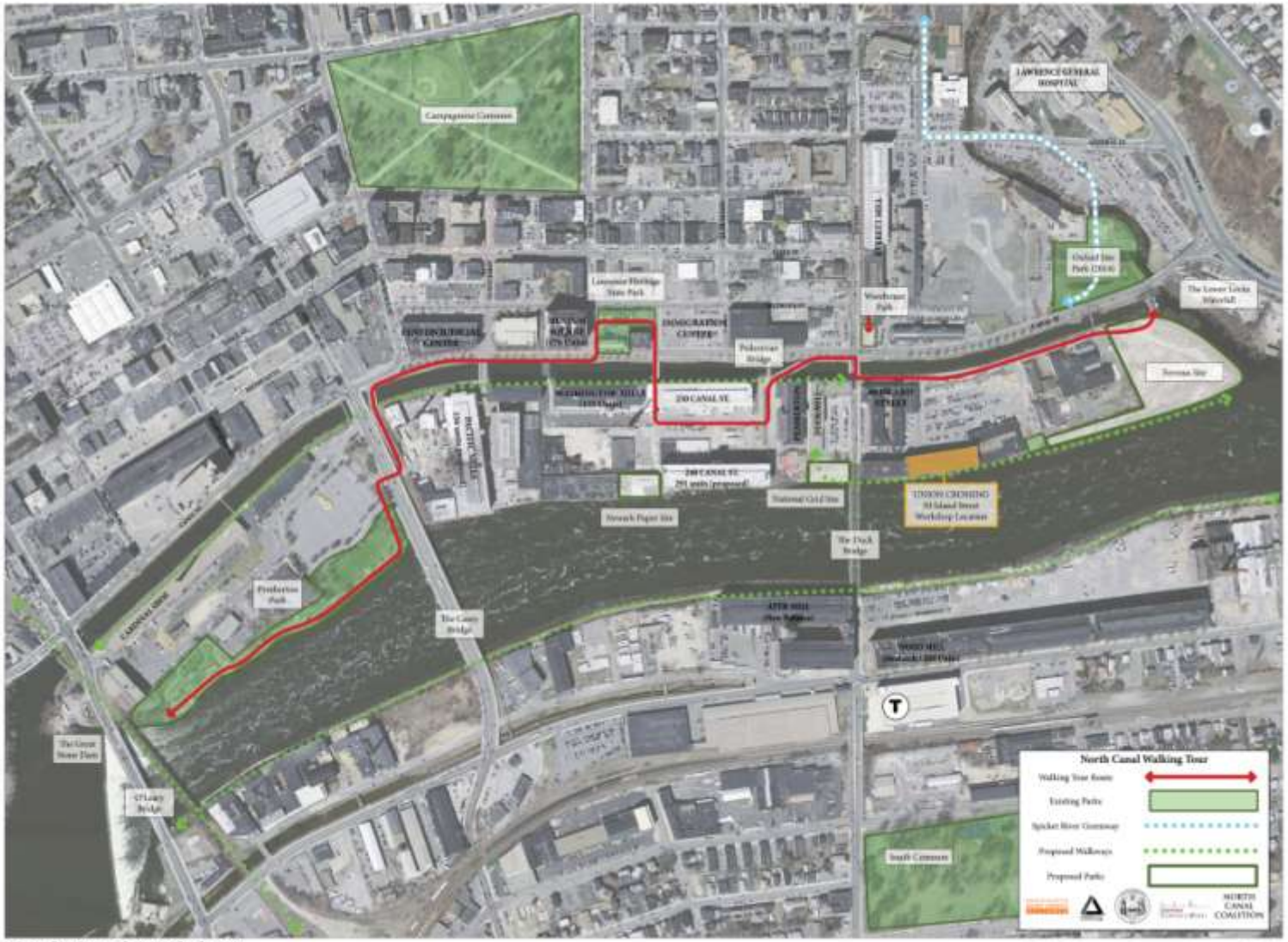
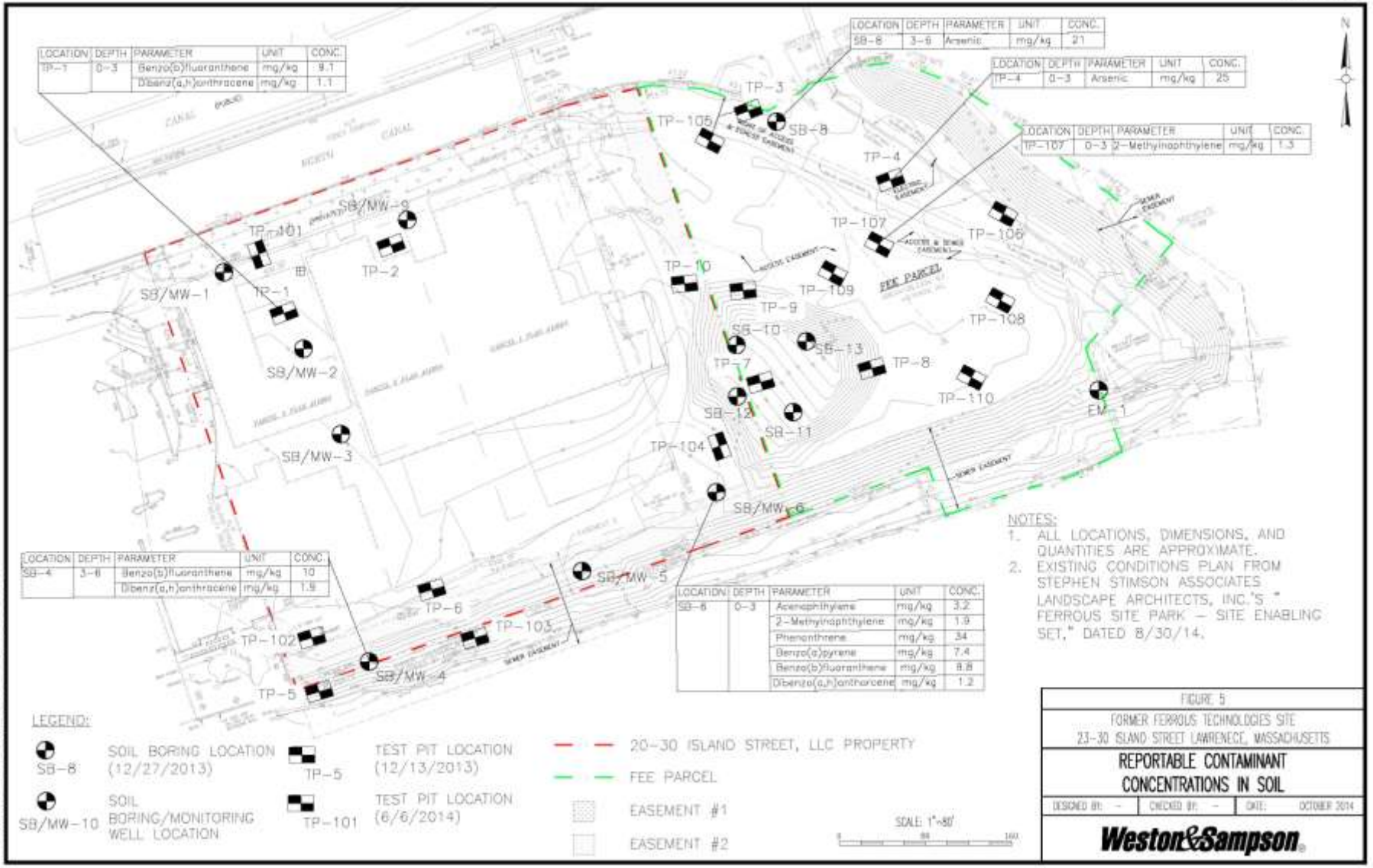


North Canal Workshops

The Ferrous Site: Confluence of the Spicket and the Merrimack


LOCATION | DEPTH | PARAMETER | UNIT | CONC.
TP-1 | 0-3 | Benzo(b)fluoranthene | mg/kg | 9.1
Dibenz(a,h)anthracene | mg/kg | 1.1
LOCATION | DEPTH | PARAMETER | UNIT | CONC.
SB-8 | 3-6 | Arsenic | mg/kg | 21
LOCATION | DEPTH | PARAMETER | UNIT | CONC.
TP-4 | 0-3 | Arsenic | mg/kg | 25
LOCATION | DEPTH | PARAMETER | UNIT | CONC.
TP-107 | 0-3 | 2-Methylnaphthylene | mg/kg | 1.3
LOCATION | DEPTH | PARAMETER | UNIT | CONC.
SB-4 | 3-6 | Benzo(b)fluoranthene | mg/kg | 10
Dibenz(a,h)anthracene | mg/kg | 1.9
LOCATION | DEPTH | PARAMETER | UNIT | CONC.
SB-8 | 0-3 | Acenaphthylene | mg/kg | 3.2
2-Methylnaphthylene | mg/kg | 1.9
Phenanthrene | mg/kg | 34
Benzo(a)pyrene | mg/kg | 7.4
Benzo(b)fluoranthene | mg/kg | 8.8
Dibenz(a,h)anthracene | mg/kg | 1.2
N
SB/MW-1
SB/MW-2
SB/MW-3
SB/MW-4
SB/MW-5
SB/MW-6
SB/MW-9
SB-8
SB-10
SB-13
SB-12
SB-11
TP-1
TP-2
TP-3
TP-4
TP-5
TP-6
TP-7
TP-8
TP-9
TP-10
TP-101
TP-102
TP-103
TP-104
TP-105
TP-106
TP-107
TP-108
TP-109
TP-110
EM-1
FEE PARCEL
ACCESS EASEMENT
SEWER EASEMENT
ACCESS & SEWER EASEMENT
NOTES:
1. ALL LOCATIONS, DIMENSIONS, AND QUANTITIES ARE APPROXIMATE.
2. EXISTING CONDITIONS PLAN FROM STEPHEN STIMSON ASSOCIATES LANDSCAPE ARCHITECTS, INC.'S " FERROUS SITE PARK – SITE ENABLING SET," DATED 8/30/14.
LEGEND:
SB-8 SOIL BORING LOCATION (12/27/2013)
SB/MW-10 SOIL BORING/MONITORING WELL LOCATION
TP-5 TEST PIT LOCATION (12/13/2013)
TP-101 TEST PIT LOCATION (6/6/2014)
20-30 ISLAND STREET, LLC PROPERTY
FEE PARCEL
EASEMENT #1
EASEMENT #2
SCALE: 1"=80'
0
80
160
FIGURE 5
FORMER FERROUS TECHNOLOGIES SITE
23-30 ISLAND STREET LAWRENCE, MASSACHUSETTS
REPORTABLE CONTAMINANT CONCENTRATIONS IN SOIL
DESIGNED BY: -
CHECKED BY: -
DATE: OCTOBER 2014
Weston&Sampson

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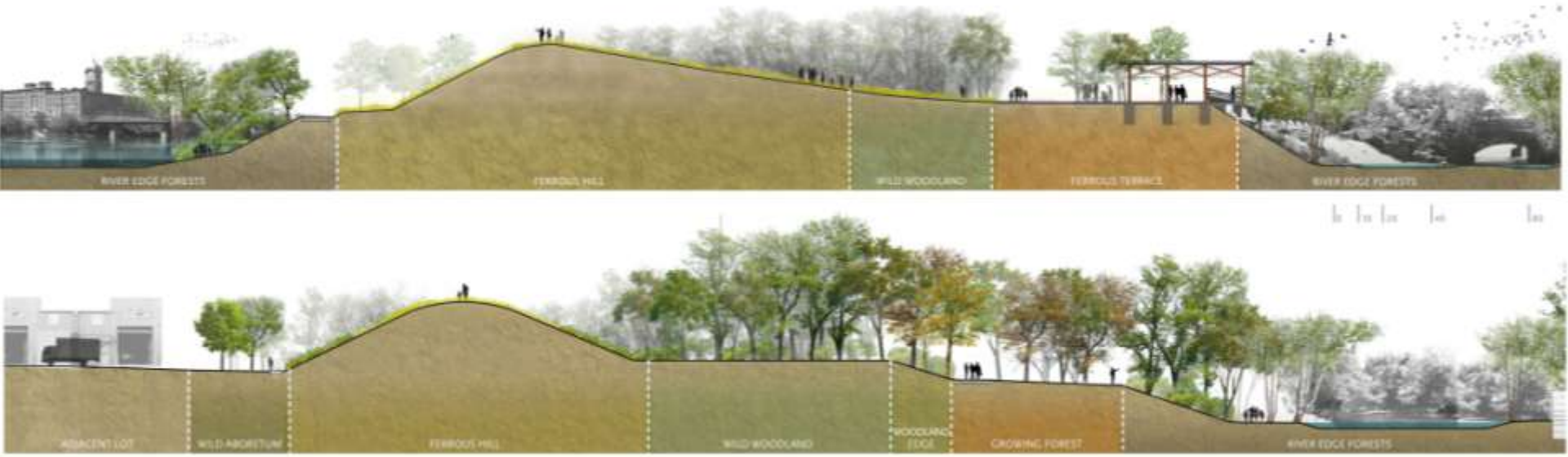
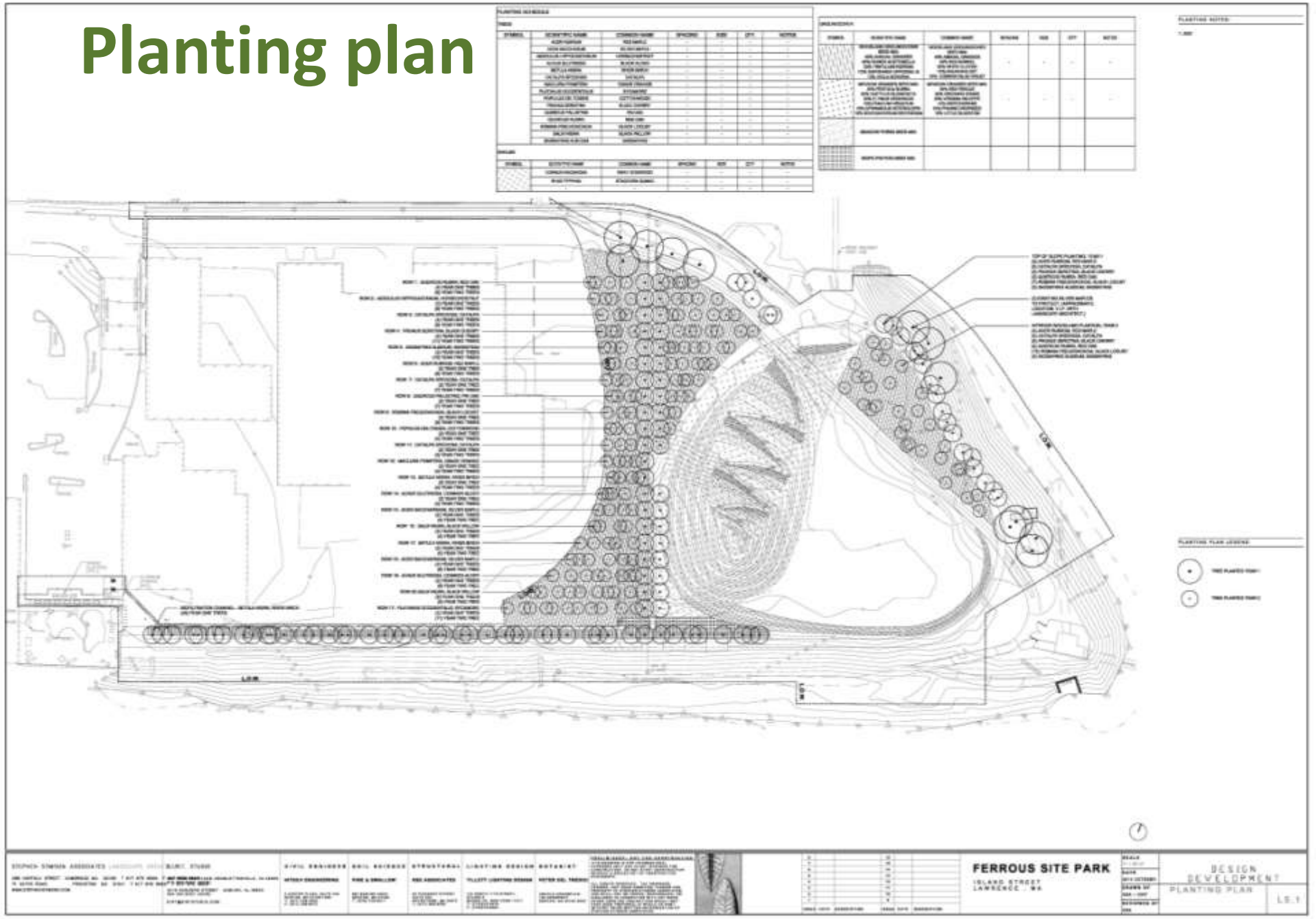
Ferrous Site Park: Site Plan

Ferrous Site Park: Cross Sections



Planting plan



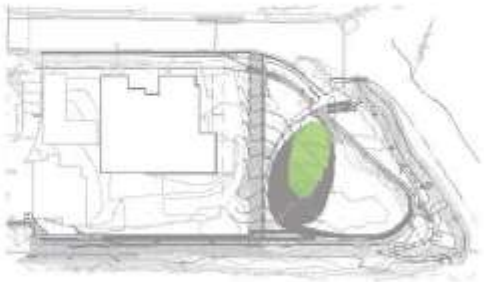
LUPINUS PERENNIS WILD BLUE LUPINE
MAY-JULY

CICHORIUM INTYBUS CHICORY
JUNE-SEPTEMBER

PENSTEMON DIGITALIS WHITE BEARDSTONGUE
MAY-JULY

RATIBIDIA PINNATA YELLOW CONEFLOWER
JULY-SEPTEMBER

ASTER LAEVIS SMOOTH ASTER
SEPT-NOVEMBER



MEADOW PLANTING: FORBS

ACER RUBRUM
RED MAPLE

ACER SACCHARINUM
SILVER MAPLE

ACER NEGUNDO
BOX ELDER

BETULA NIGRA
RIVER BIRCH

CATALPA SPECIOSA
CATALPA

MACLURA POMIFERA
OSAGE ORANGE

MORUS ALBA
MULBERRY

PLATANUS ACERIFOLIA
LONDON PLANE TREE

POPULUS DELTOIDES
COTTONWOOD

PRUNUS SEROTINA
BLACK CHERRY

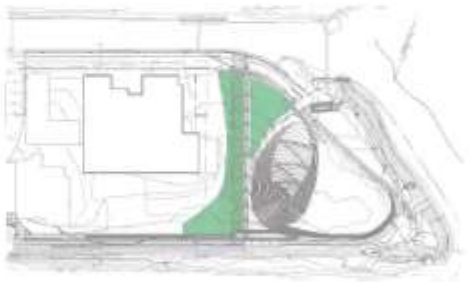
QUERCUS PALUSTRIS
PIN OAK

QUERCUS RUBRA
RED OAK

ROBINIA PSEUDOACACIA
BLACK LOCUST

TILIA AMERICANA
AMERICAN LINDEN

ULMUS AMERICANA
'JEFFERSON'
AMERICAN ELM



FERROUS SITE PARK - PLANT PALETTE

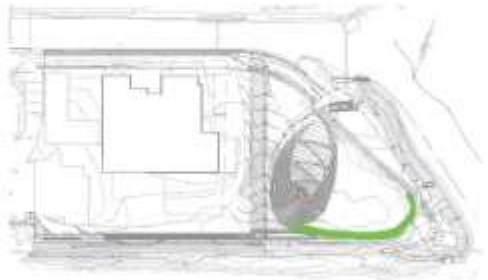
ARBORETUM: TREE PLANTING

CORNUS RACEMOSA GRAY DOGWOOD

RHUS TYPHINA STAGHORN SUMAC

COMPTONIA PEREGRINA SWEETFERN

RHUS GLABRA SMOOTH SUMAC



BETULA NIGRA
RIVER BIRCH

CAREX VULPINOIDEA

TRADESCANTIA OHIENSIS
OHIO SPIDERWORT

DICANTHELIUM CLANDESTINUM
DEER-TONGUE GRASS

LOBELIA SIPHILITICA
GREAT BLUE LOBELIA

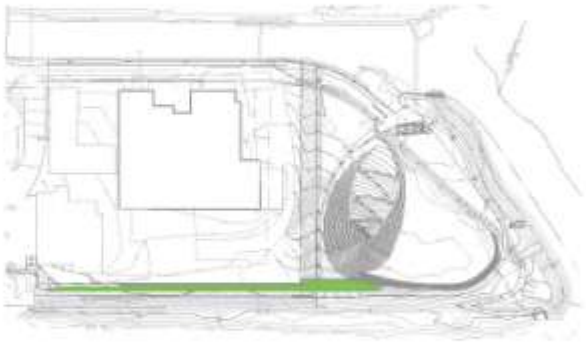
SEDIMENT FOREBAY

JUNCUS EFFUSUS
SOFT RUSH

IRIS VERSICOLOR
BLUE FLAG

TEUCREUM CANADENSE
AMERICAN GERMANDER

BIORETENTION



BIORETENTION CHANNEL+ SEDIMENT FOREBAY

Urban Environmental Education

Urban Environmental Education

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