

America's River 

THE CITY OF
DUBUQUE
Masterpiece on the Mississippi

Bee Branch Creek Restoration & Gateway

Phases 4 & 7 of Bee Branch Watershed Flood Mitigation Project

10th Annual Conference

Bee Branch Creek Conceptual Design



**CDM
Smith**
WHKS & CO.

Bee Branch Watershed Flood Mitigation Project

Comiskey
Park

24th Street

22nd Street

Audubon
Elementary
School

Rhomberg Ave.

PHASE 7
Upper Bee Branch

PHASE 4
Lower Bee Branch

Former Dubuque
Packing Plant

E. 20th Street

US HWY 151 & 61

16th Street

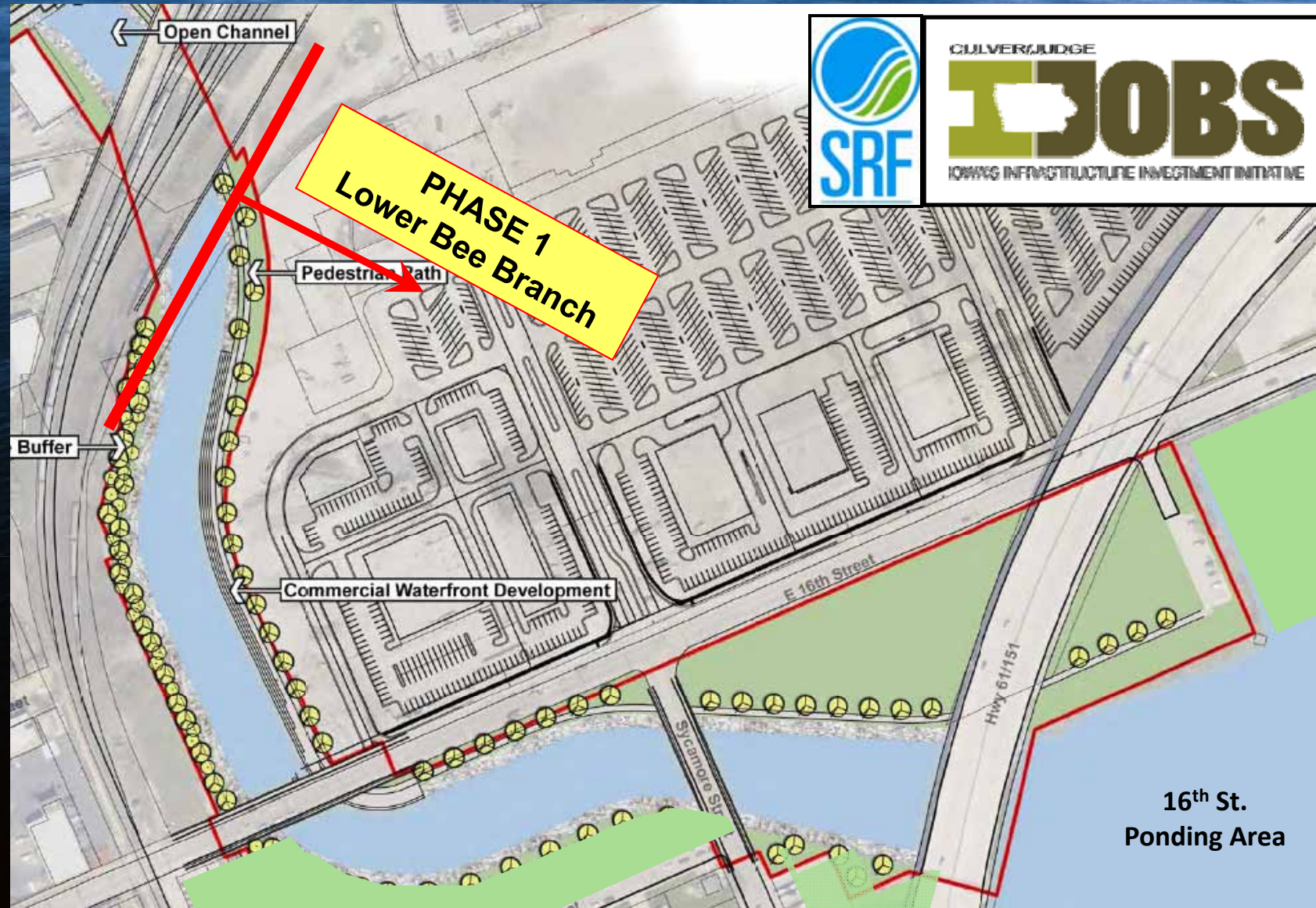
16th Street
Ponding Area

SA
STRAND
ASSOCIATES

KEN SAIKI
DESIGN INC

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Lower Bee Branch Creek Restoration Project



Construction begins in fall of 2010

Lower Bee Branch Creek Restoration Project

VISION
IOWA

Basin Overlook



16th Street
Ponding Area

Mississippi

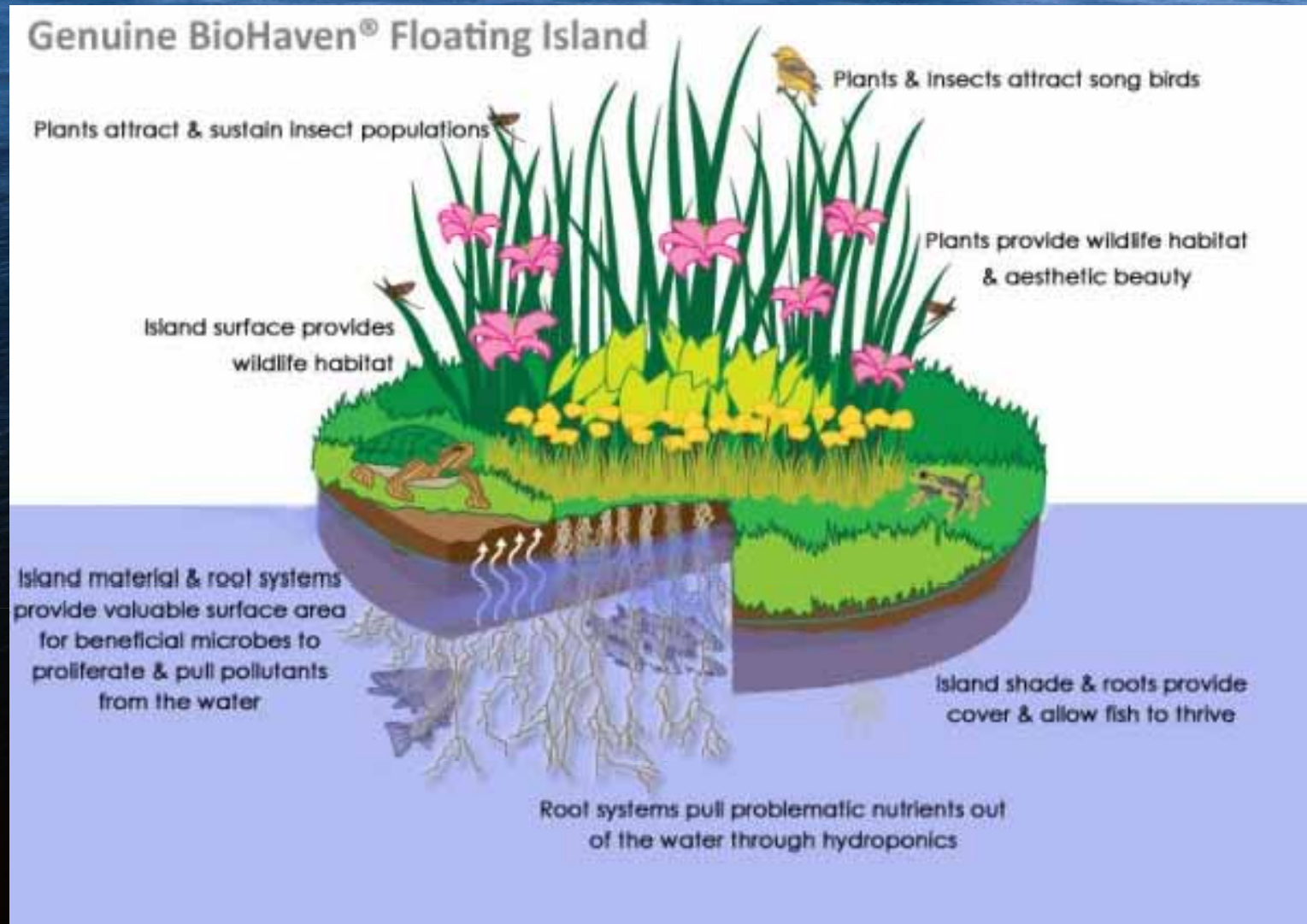
16th Street

US 16



SCENIC OVERLOOKS

Lower Bee Branch Creek Restoration Project



FLOATING ISLAND

Lower Bee Branch Creek Restoration Project



FLOATING ISLAND

Bee Branch Creek Restoration Project

Comiskey
Park

24th Street

22nd Street

Audubon
Elementary
School

Rhomberg Ave.

PHASE 2
Upper Bee Branch

E. 20th Street

Former Dubuque
Packing Plant

16th Street

US HWY 151 & 61

16th Street
Detention
Basin



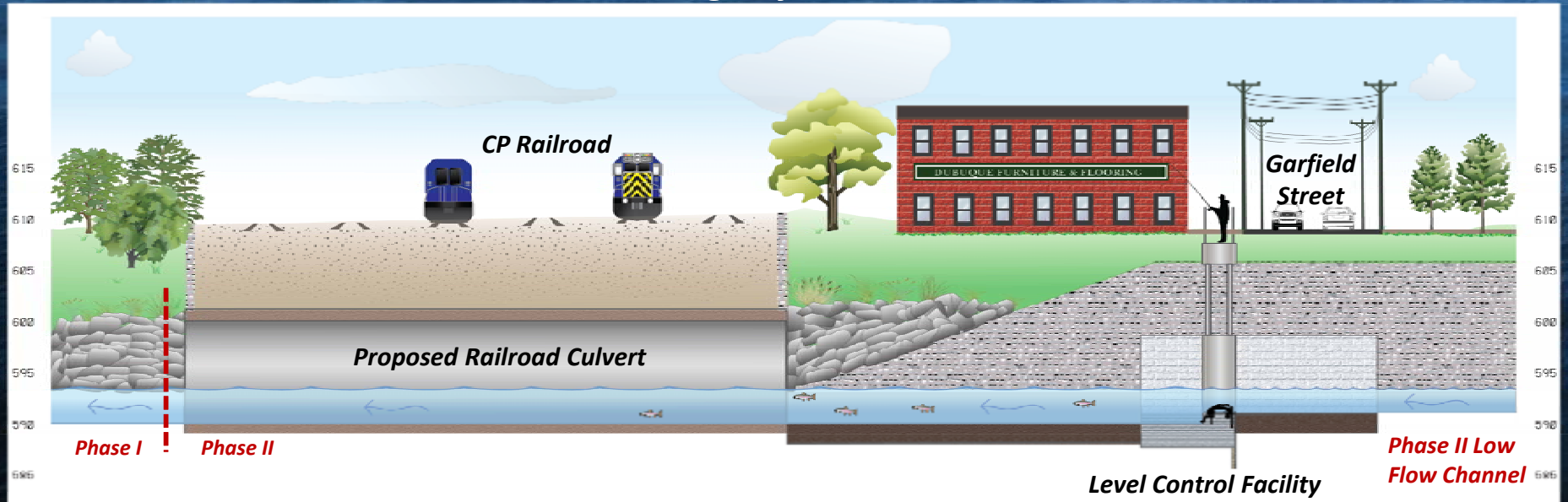
Upper Bee Branch Creek Restoration Project



LEVEL CONTROL FACILITY

PHASE II LEVEL CONTROL FACILITY

NORMAL RIVER ~ NORMAL CHANNEL
during Dry Weather

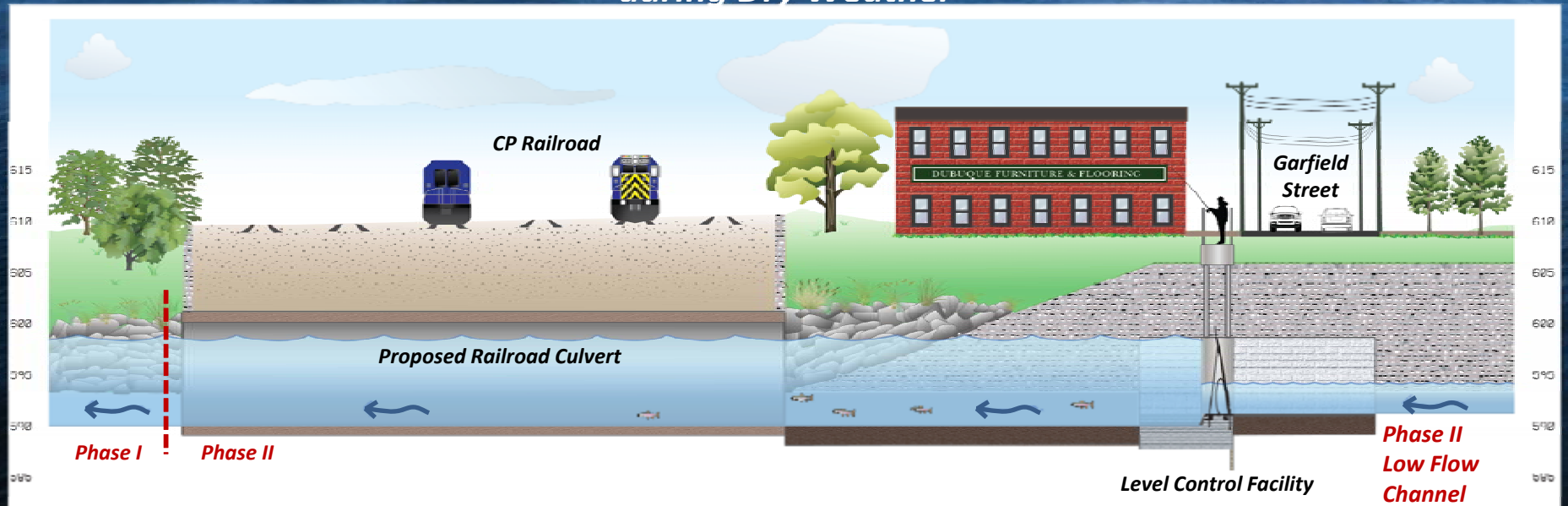


Water Elevation Downstream	Water Elevation Upstream	Gate Position
594	594	Open
598	594	Closed
598 (rain begins)	596	Closed
598.5	598	Closed
598.5	598.5	Open (drop)
599	599	Open
600	600	Open
599 (rain stops)	599	Close (raise)
599	594	Closed
598	594	Closed
594	594	Open



PHASE II LEVEL CONTROL FACILITY

ELEVATED RIVER ~ NORMAL CHANNEL
during Dry Weather

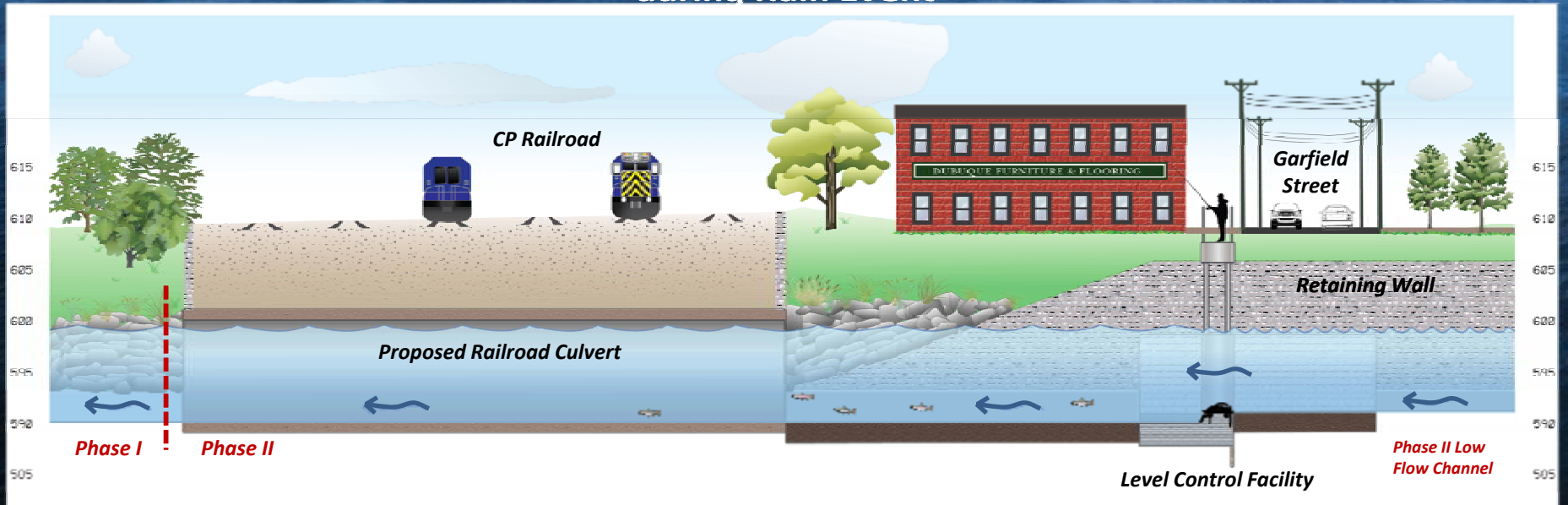


Water Elevation Downstream	Water Elevation Upstream	Gate Position
594	594	Open
598	594	Closed
598 (rain begins)	596	Closed
598.5	598	Closed
598.5	598.5	Open (drop)
599	599	Open
600	600	Open
599 (rain stops)	599	Close (raise)
599	594	Closed
598	594	Closed
594	594	Open



PHASE II LEVEL CONTROL FACILITY

ELEVATED RIVER ~ ELEVATED CHANNEL
during Rain Event

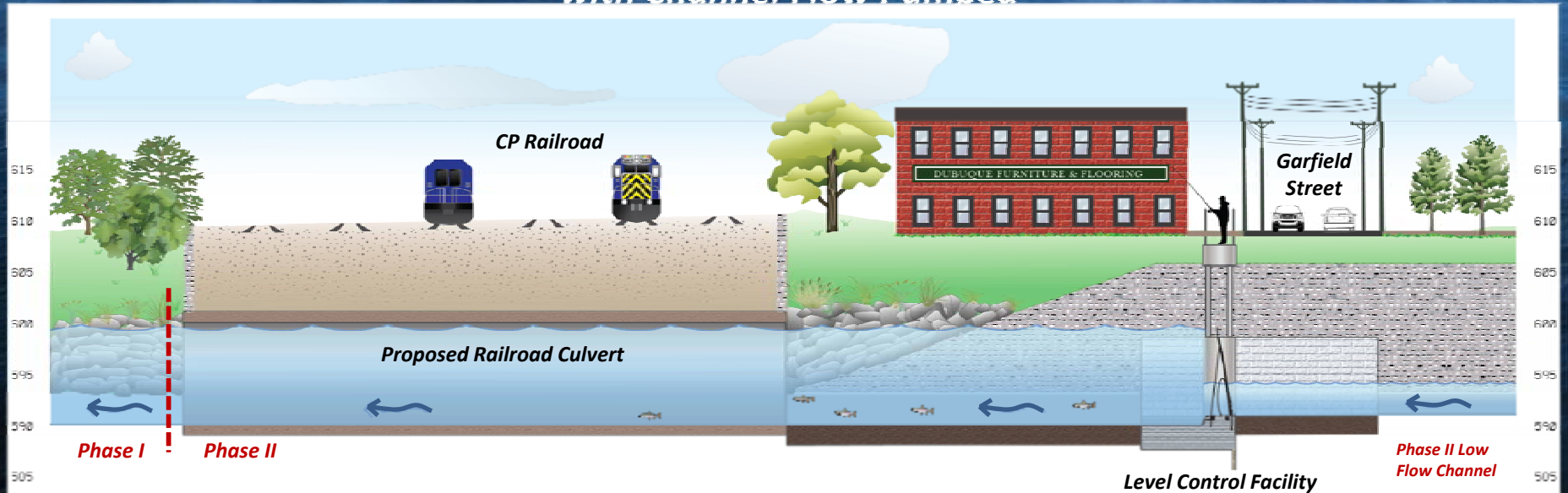


Water Elevation Downstream	Water Elevation Upstream	Gate Position
594	594	Open
598	594	Closed
598 (rain begins)	596	Closed
598.5	598	Closed
598.5	598.5	Open (drop)
599	599	Open
600	600	Open
599 (rain stops)	599	Close (raise)
599	594	Closed
598	594	Closed
594	594	Open



PHASE II LEVEL CONTROL FACILITY

ELEVATED RIVER ~ NORMAL CHANNEL
with Channel Flow Pumped



Water Elevation Downstream	Water Elevation Upstream	Gate Position
594	594	Open
598	594	Closed
598 (rain begins)	596	Closed
598.5	598	Closed
598.5	598.5	Open (drop)
599	599	Open
600	600	Open
599 (rain stops)	599	Close (raise)
599	594	Closed
598	594	Closed
594	594	Open

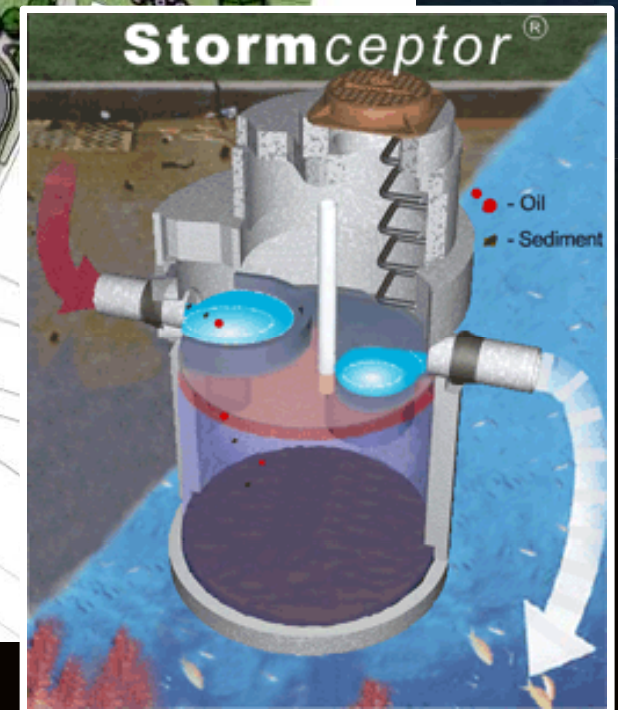
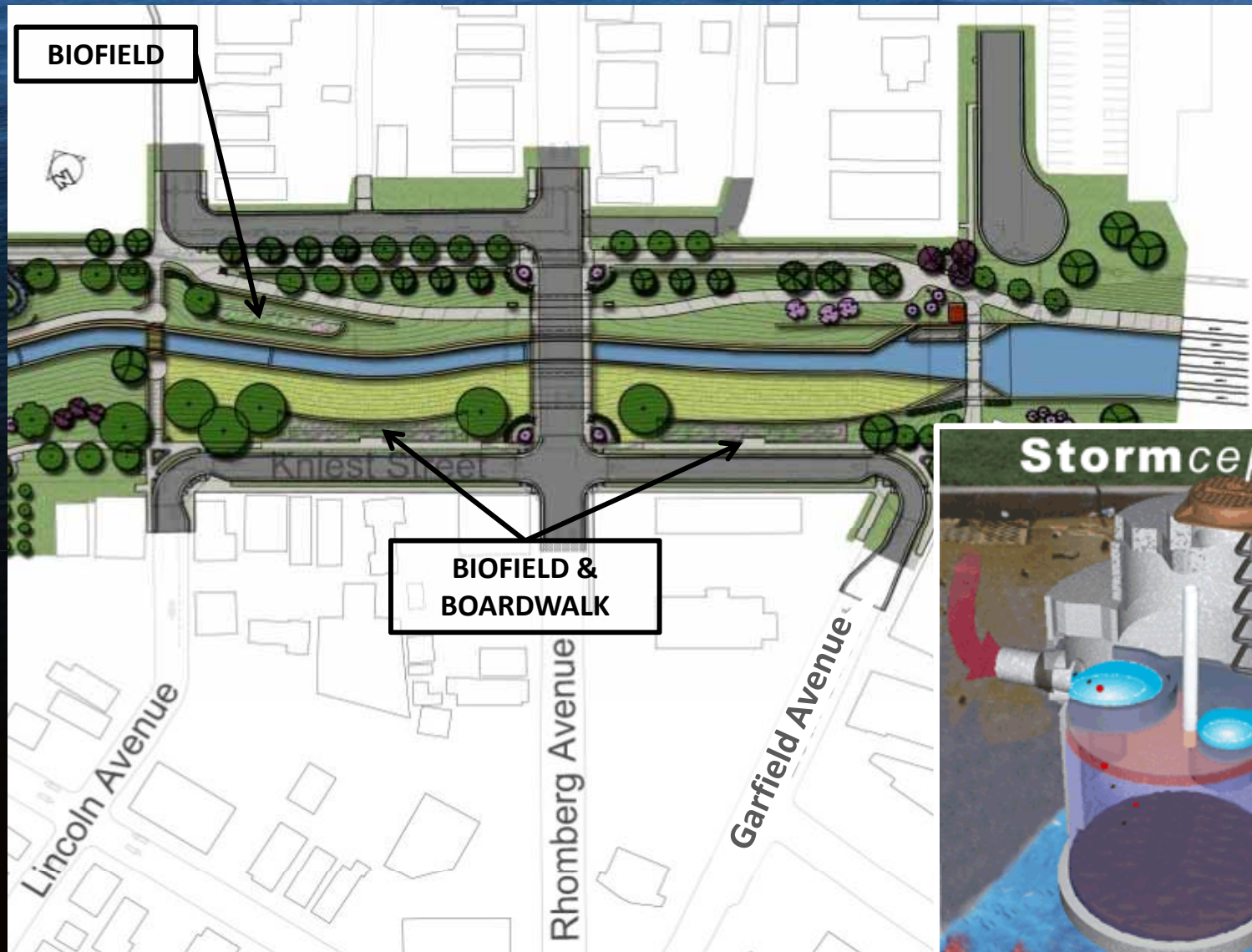


Upper Bee Branch Creek Restoration Project



LEVEL CONTROL FACILITY

Upper Bee Branch Creek Restoration Project



Upper Bee Branch Creek Restoration Project



BOARDWALK & BIO-FIELD

SA
STRAND
ASSOCIATES®

KEN SAIKI
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Upper Bee Branch Creek Restoration Project



BRIDGES

Upper Bee Branch Creek Restoration Project



PATH BELOW BRIDGE

At 22nd Street & Rhomberg



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DESIGN INC

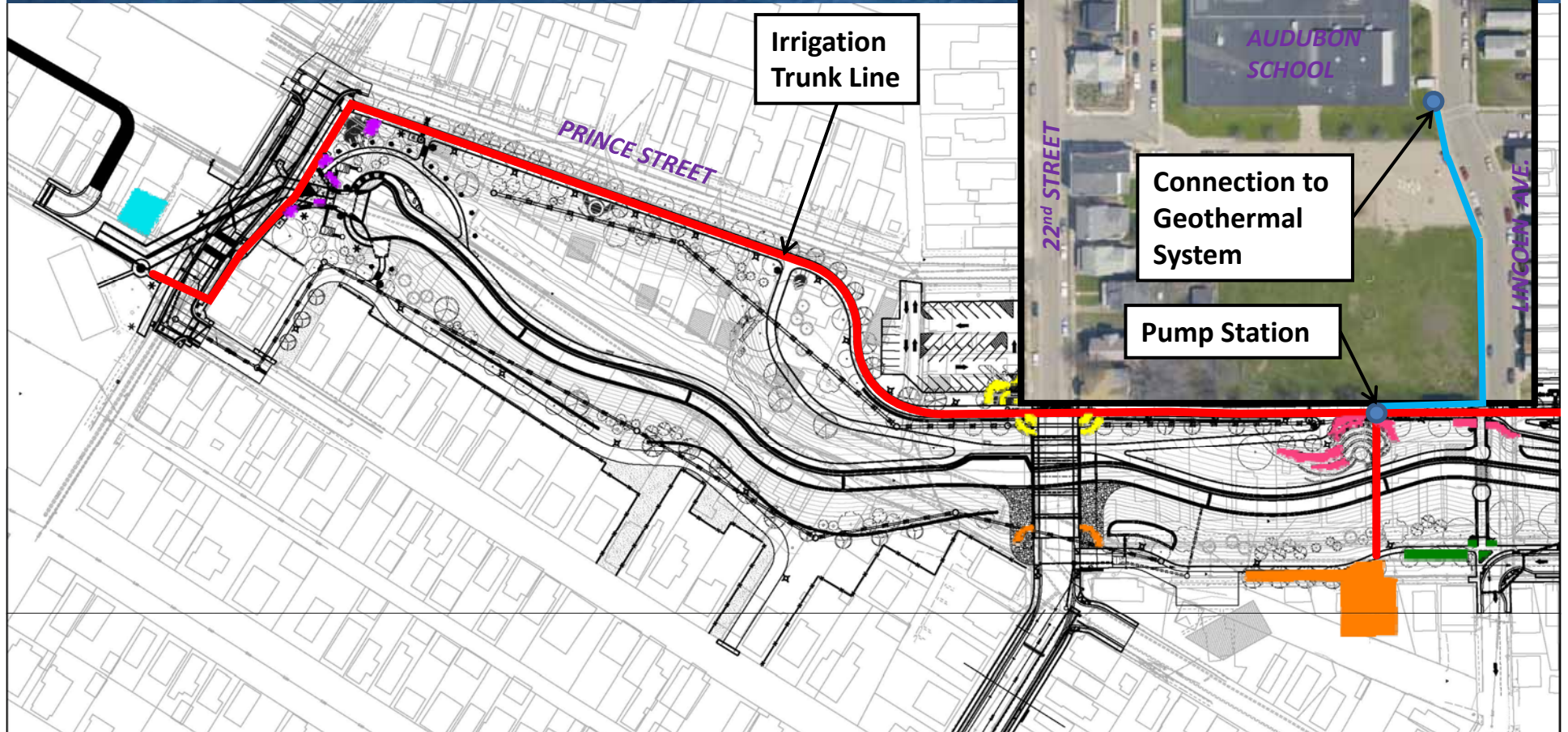


Upper Bee Branch Creek Restoration Project



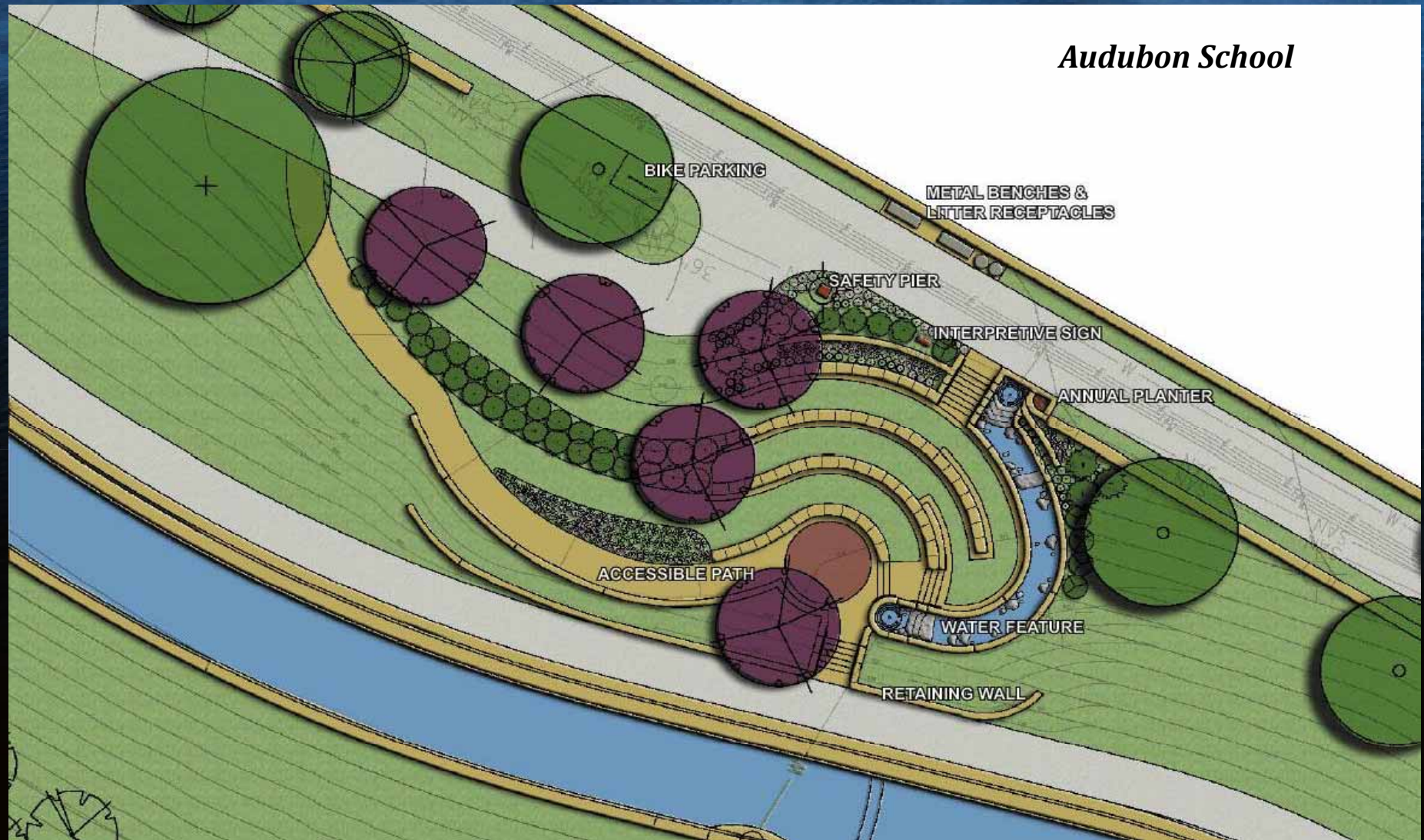
AMPHITHEATER

LOW-VOLUME DRIP IRRIGATION SYSTEM



AMPHITHEATER WITH WATER FEATURE

Audubon School



FOOTBRIDGE & AMPHITHEATER

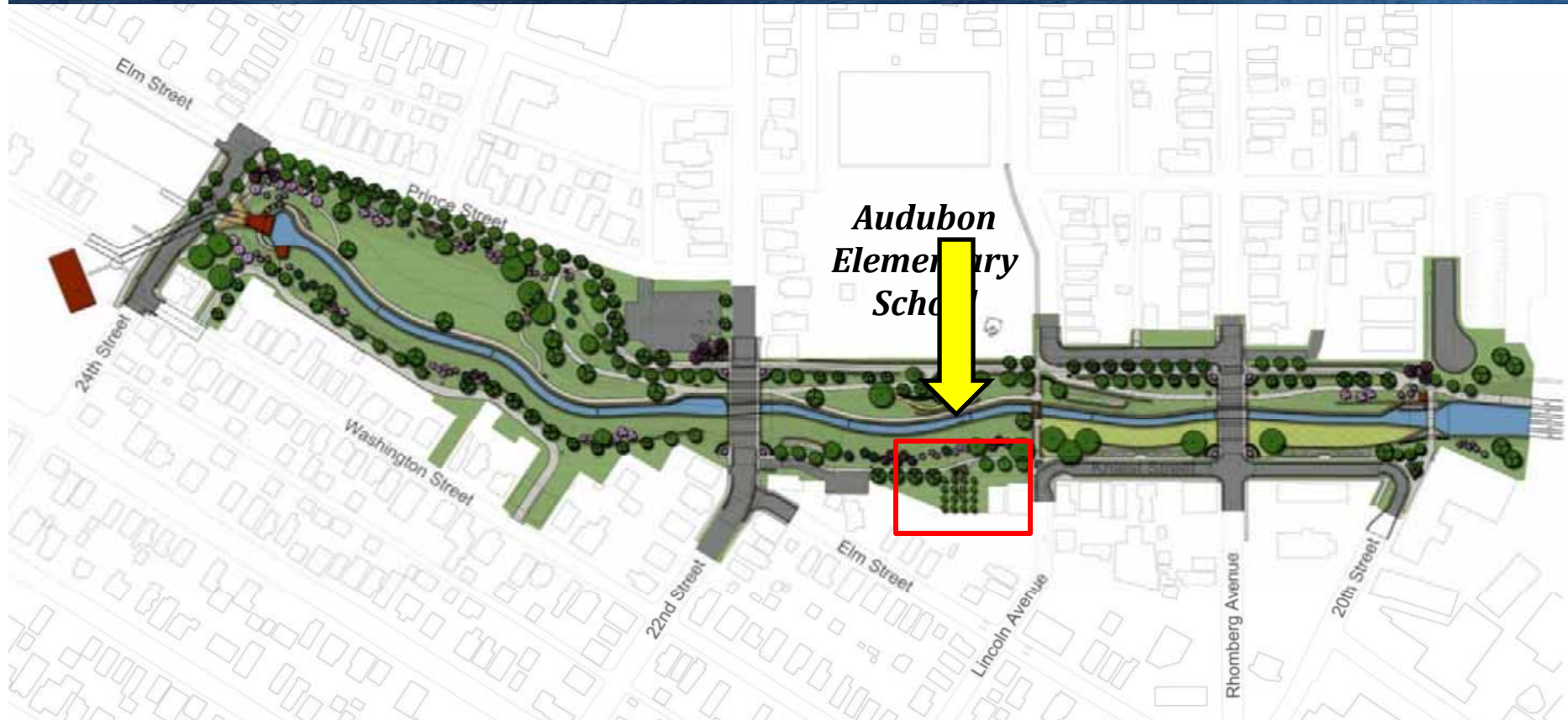
View north to 22nd Street bridge beyond



KEN SAIKI
DESIGN INC



Upper Bee Branch Creek Restoration Project



ORCHARD

Upper Bee Branch Creek Restoration Project



ORCHARD



KEN SAIKI
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Upper Bee Branch Creek Restoration Project



OFF-STREET PARKING