



# Making Your Vision a Reality

## Smoky Hill River Renewal Project

### Public Meeting

6/22/2017





# Agenda

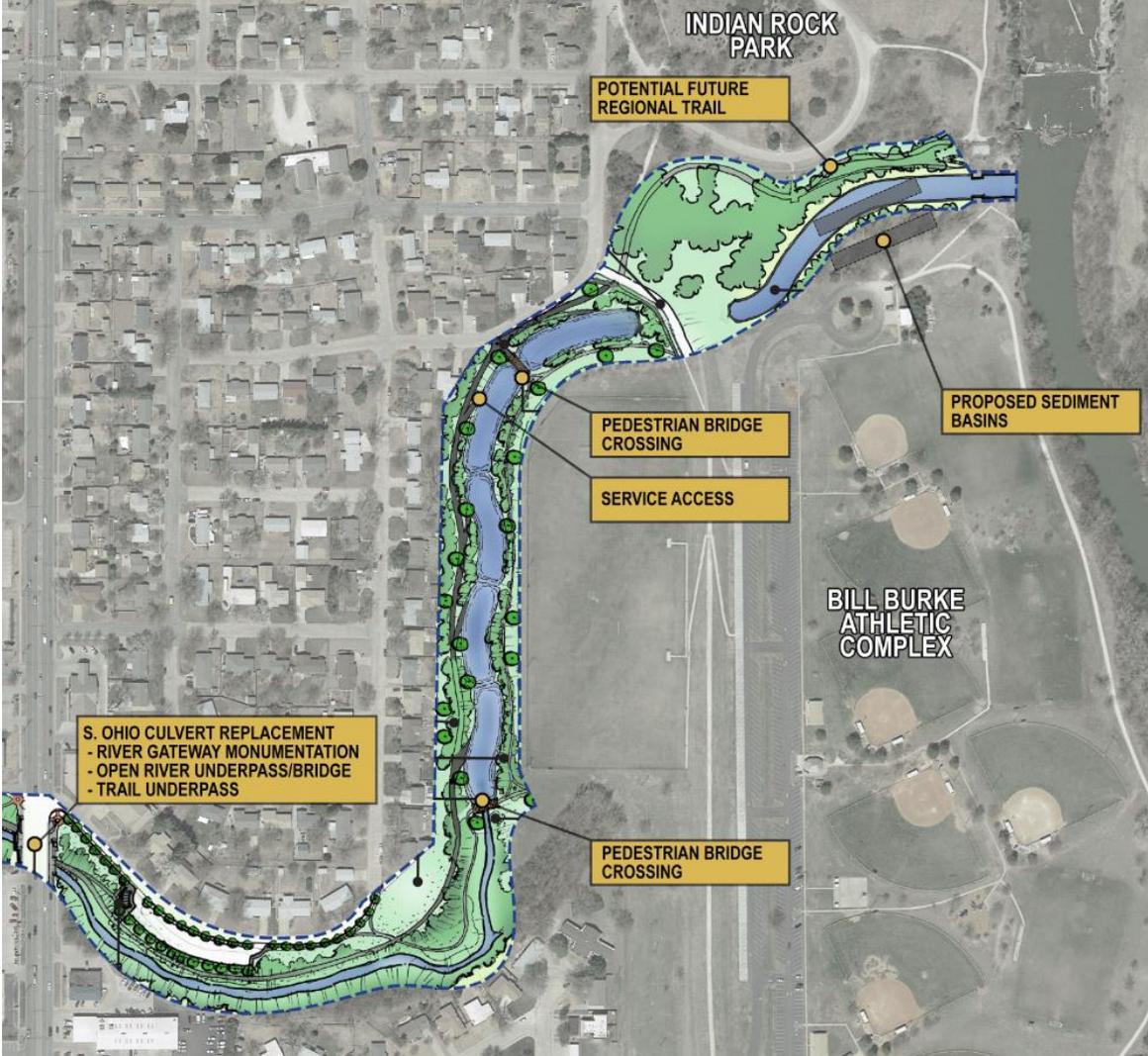
- 01 **Opening Remarks**
- 02 **Master Plan Summary**
- 03 **Implementation Steps**
- 04 **Frequently Asked Questions**
- 05 **Design Schedule**

# Opening Remarks

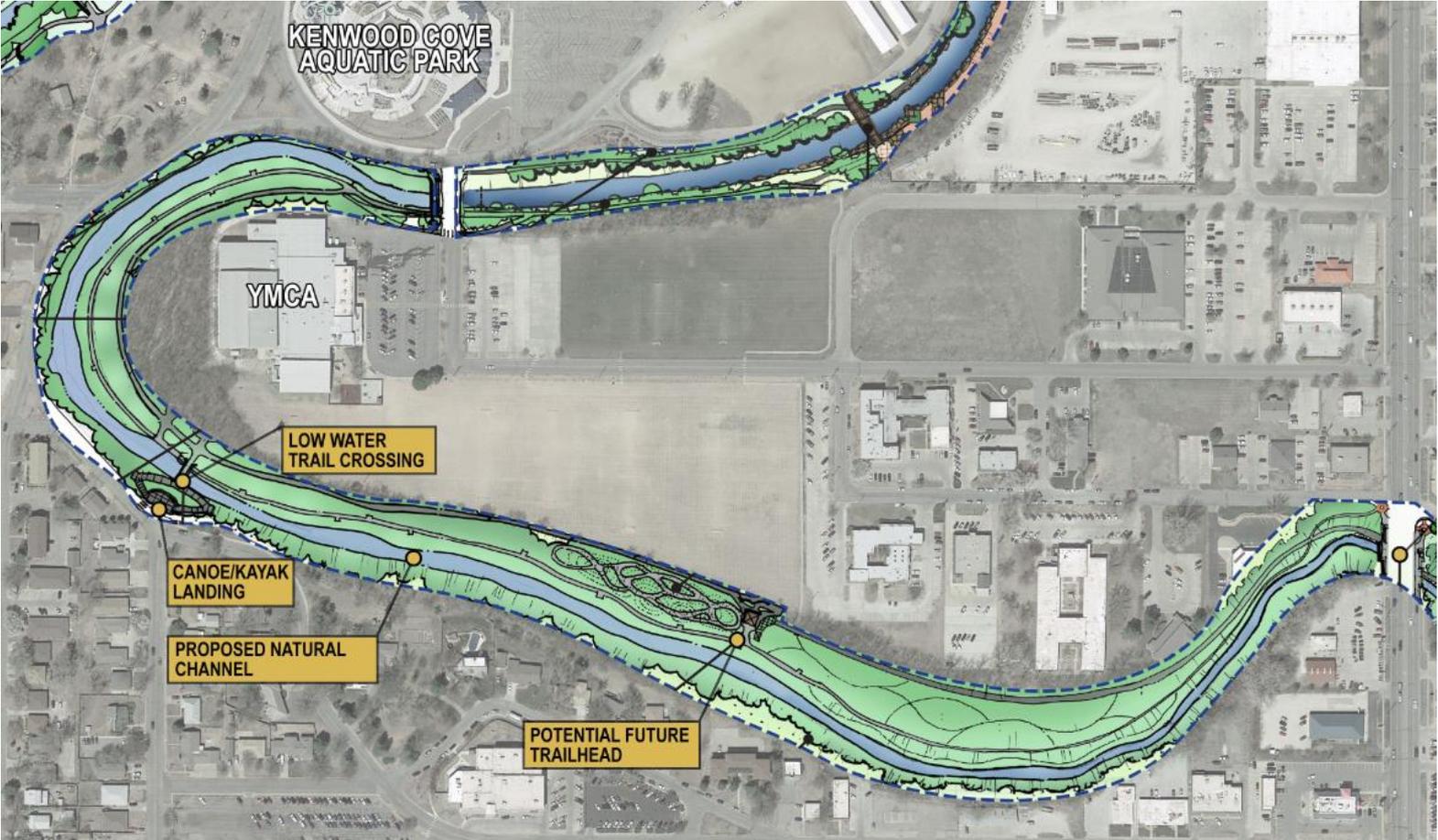
- Extensive Public Outreach
- Master Plan Adopted by City in 2010
- Aligned with Community Priorities
- 2016 Voters Passed Sales Tax Funding
- Signature Amenity



# South Reach Entrance Channel to South Ohio Street



# South Ohio Street to Kenwood Park



# Kenwood Park East Gateway



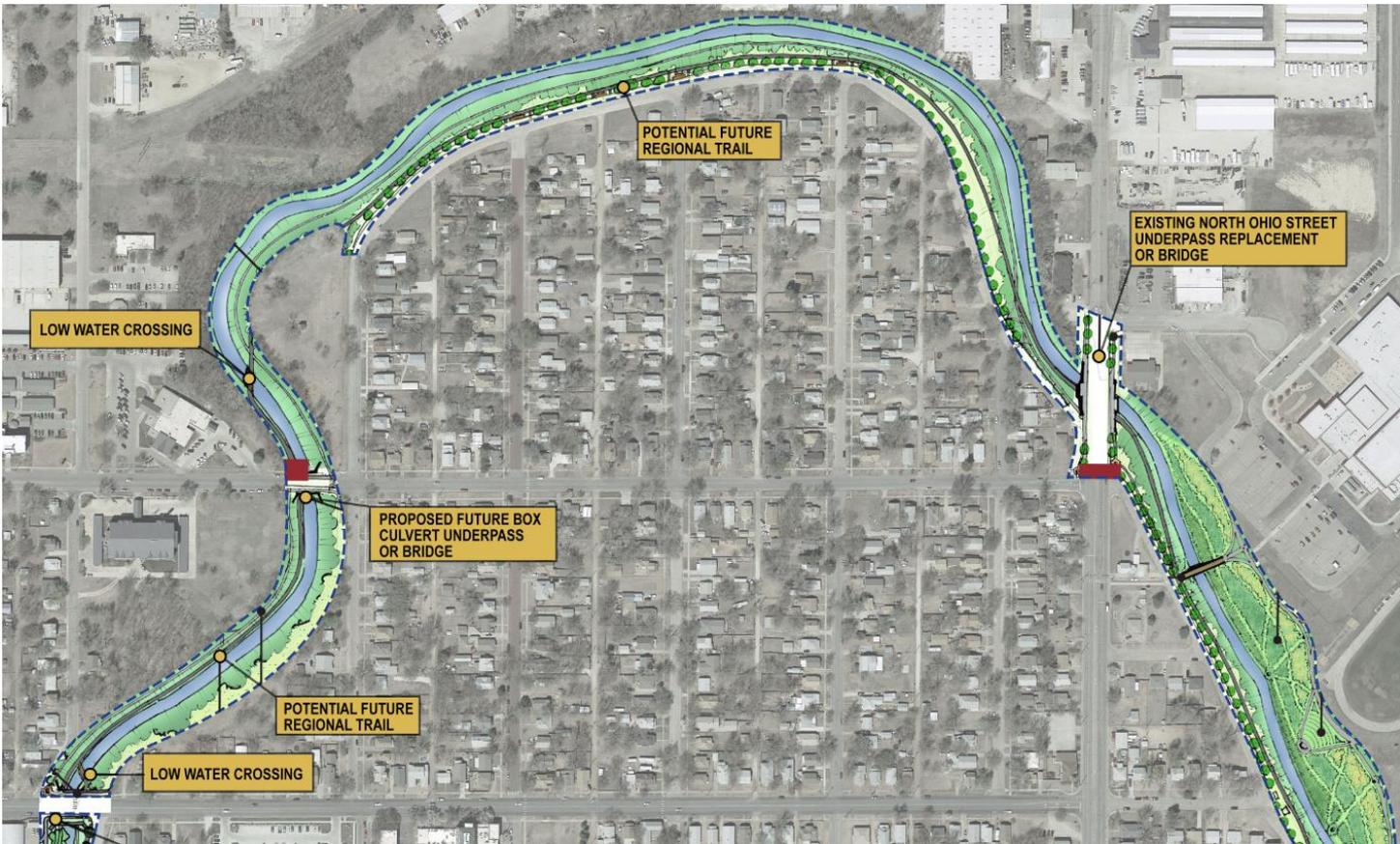
# Oakdale Park



# Founders Park

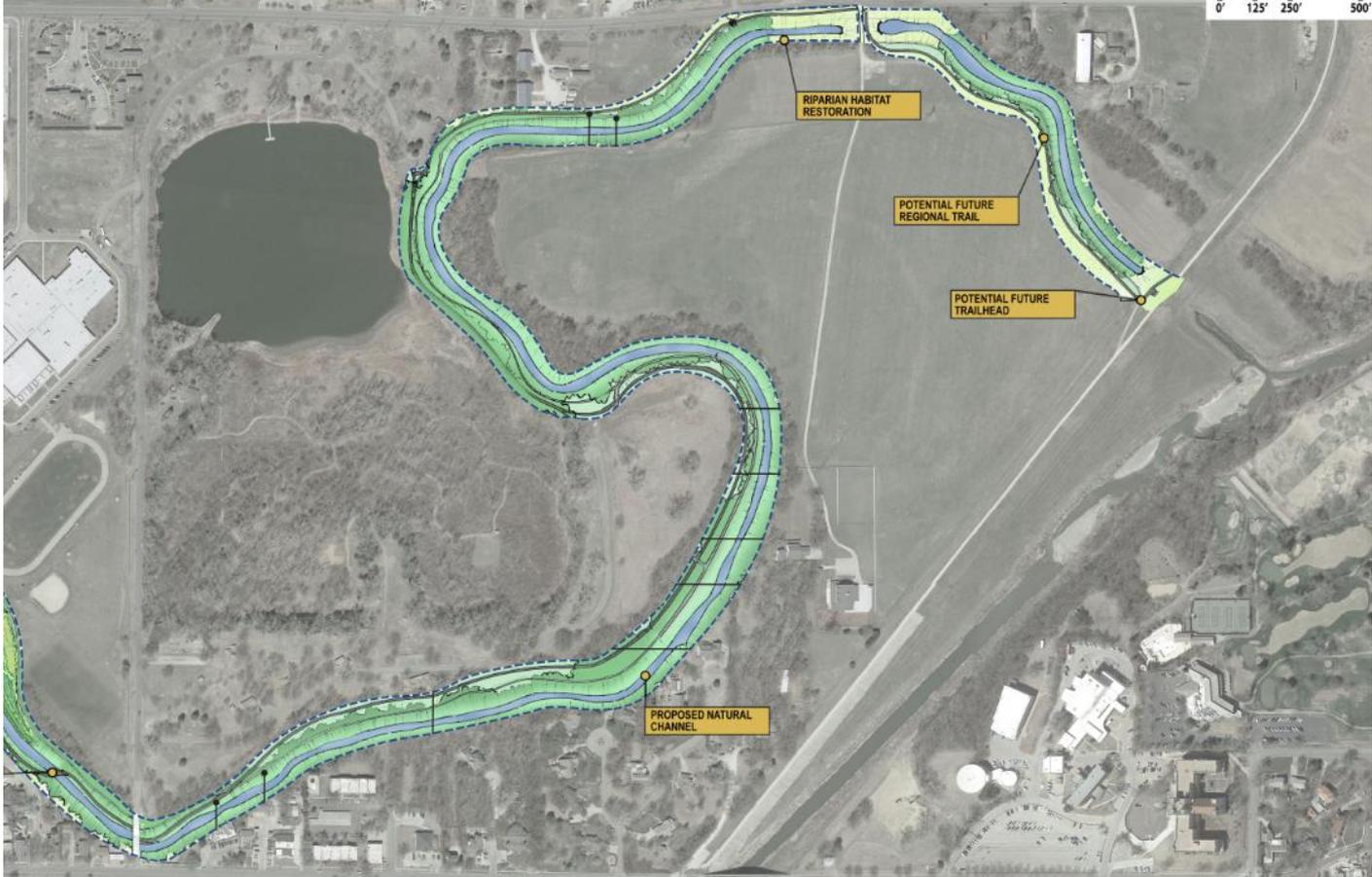


# North Reach Ash Street to North Ohio Street



# North Reach

# Lakewood Entrance to Channel Exit





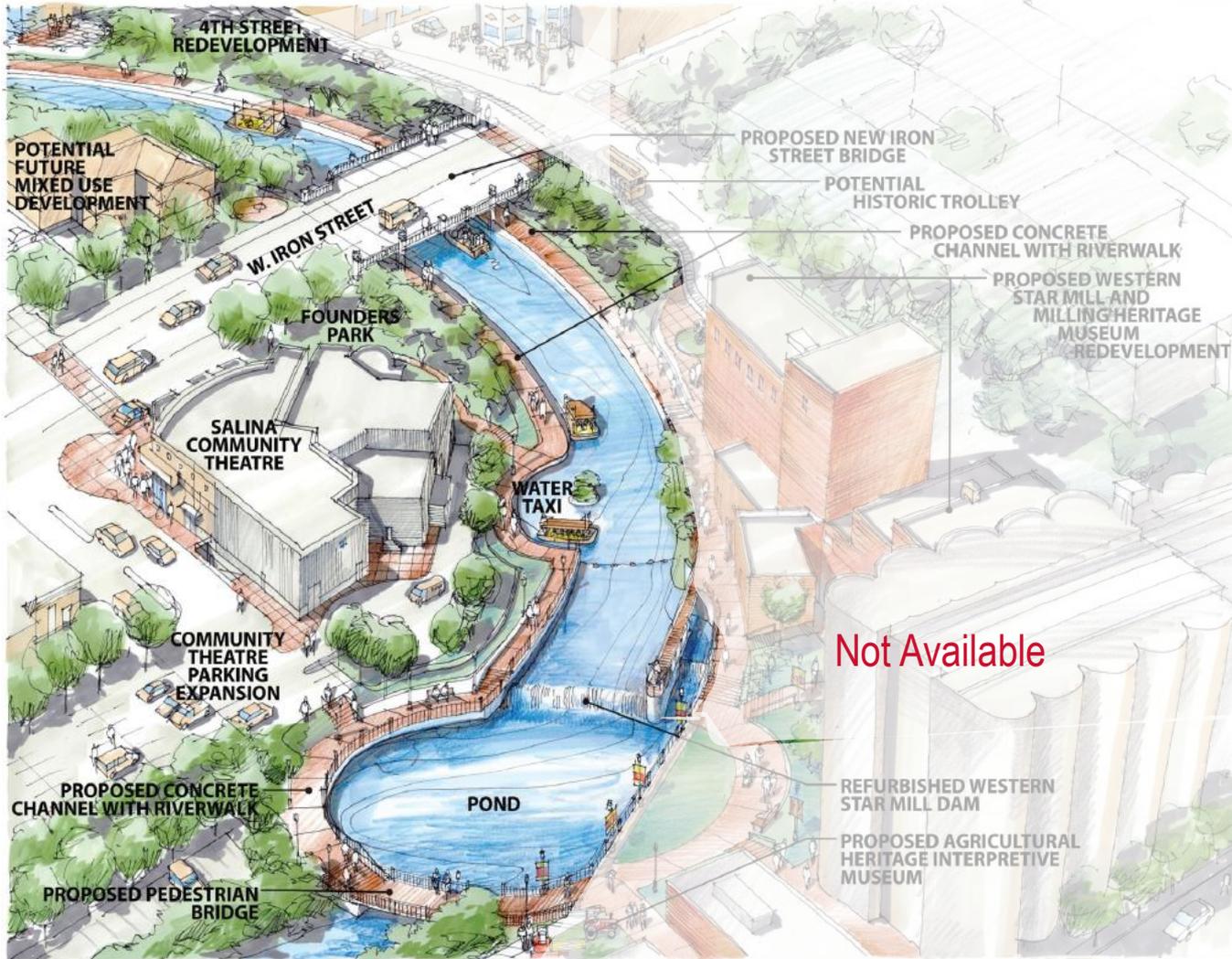
# 03 **Implementation Steps**

# Vision to Reality

## Project Approach

### Preliminary Design of Smoky Hill Renewal

- Fine-Tune the Vision (Concept Design)
  - Public and Steering Committee Involvement
  - Discuss Alternatives Presented in the Master Plan
  - “Right Size” the Project to Reflect Current and Future Conditions
- Preliminary Design of In-Channel Features
  - Water Flowing
  - Urban Riverwalk Reaches
  - Natural Channel Reaches



# Historic 4<sup>th</sup> Ward, Atlanta, GA



**Creating a Community Focal Point Drives Revitalization**

# Leveraging Experience in San Antonio to Optimize Smoky Hill River Restoration

*San Antonio Today*



*Historical Salina Photos*



Implementation

# Proven Experience with Making a Community Vision a Reality



# San Antonio Lock & Dam

- Physical Model
- Automated Water Level Control
- Crest Gate Intake at Smoky Hill River
- Construction and O&M Costs Known



# Community Engagement Steering Committee

- Approximately 20 members – reflecting a wide range of community interests
- 14 Scheduled Meetings 2017 / 2018
- Serve as project advisors and ambassadors
- Applications due by Friday, July 7, 2017
- **Pick up an application at the sign-in table or download an application at [www.salina-ks.gov/riverrenewal](http://www.salina-ks.gov/riverrenewal)**

# How to Stay Informed

- Project web page: [www.salina-ks.gov/riverrenewal](http://www.salina-ks.gov/riverrenewal)
- City of Salina Facebook page: [www.facebook.com/salina.ks.gov](http://www.facebook.com/salina.ks.gov)
- Twitter: [@Salina\\_KS\\_Gov](https://twitter.com/Salina_KS_Gov)
- Additional public meetings
  - July 20, 2017
  - September 28, 2017
  - November 15, 2018
- On-line surveys: [www.salina-ks.gov/riverrenewal](http://www.salina-ks.gov/riverrenewal)
- Local media press releases

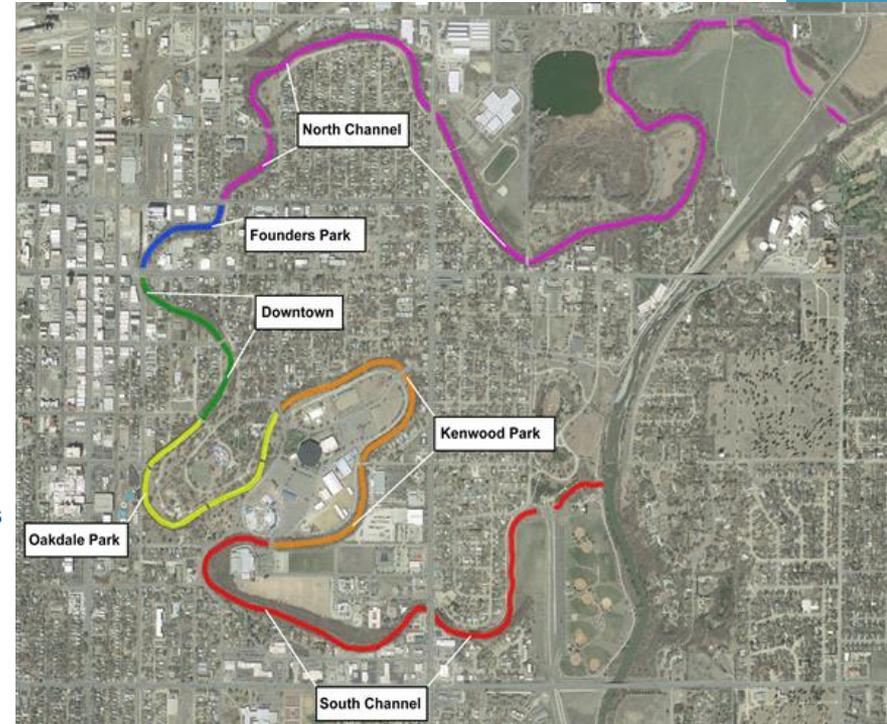


# 1<sup>st</sup> On-Line Survey- Prioritization

## 1. Please rank the following components of the master plan in order of importance:

(1 being most important, 10 being least)

- \_\_\_\_\_ Improvements to increase water quality and quantity through the channel
- \_\_\_\_\_ Multi use trails
- \_\_\_\_\_ Improved Parks and public access spaces like trail heads
- \_\_\_\_\_ Passenger transport on the River like water taxis or gondolas
- \_\_\_\_\_ Fishing opportunities
- \_\_\_\_\_ Canoe / kayak access
- \_\_\_\_\_ Bird watching / habitat improvements to wetland areas
- \_\_\_\_\_ Future Areas for private commercial, residential and retail investment
- \_\_\_\_\_ Enhanced bridge structures that incorporate improved aesthetics and pedestrian amenities
- \_\_\_\_\_ Improved venues for public performances and events



Access the Survey at: [www.salina-ks.gov/riverrenewal](http://www.salina-ks.gov/riverrenewal)

# Federal Funding 1135 Ecosystem Restoration Program

- USACE Continuing Authorities Program (CAP)
- Section 1135 of the **Water Resources Development Act** of 1986
- Restoration of critical habitat loss from prior USACE project
- \$10 million Federal limit per project
- 75-25 Cost Share (existing lands & easements counts toward cost share)
- City Request dated February 2017



U.S. Army Corps of Engineers  
Northwestern Division  
Kansas City District  
601 East 12<sup>th</sup> Street  
Kansas City, Missouri 64106

# Perry

Reservoir  
&  
Wildlife Area



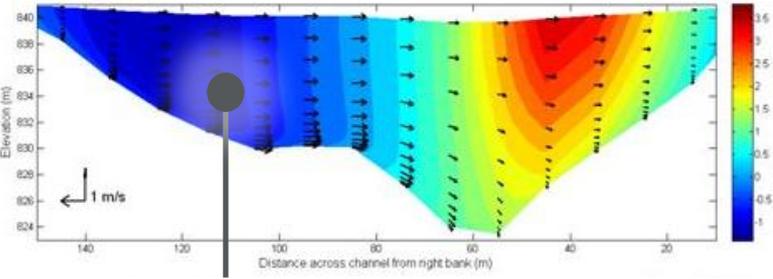
Perry Wildlife Area  
7760 174th Rd.  
Valley Falls, KS 66088

(Area Office)  
(785) 945-6615

(Regional Office)  
(785) 273-6740

[www.ksoutdoors.com](http://www.ksoutdoors.com)

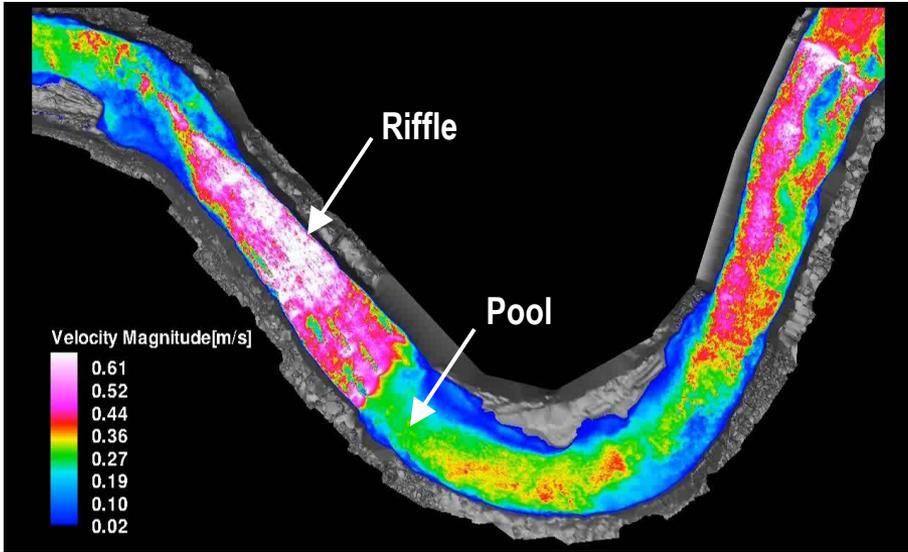
# Natural Channel Design Concept



**Easier Access for Sediment Removal**



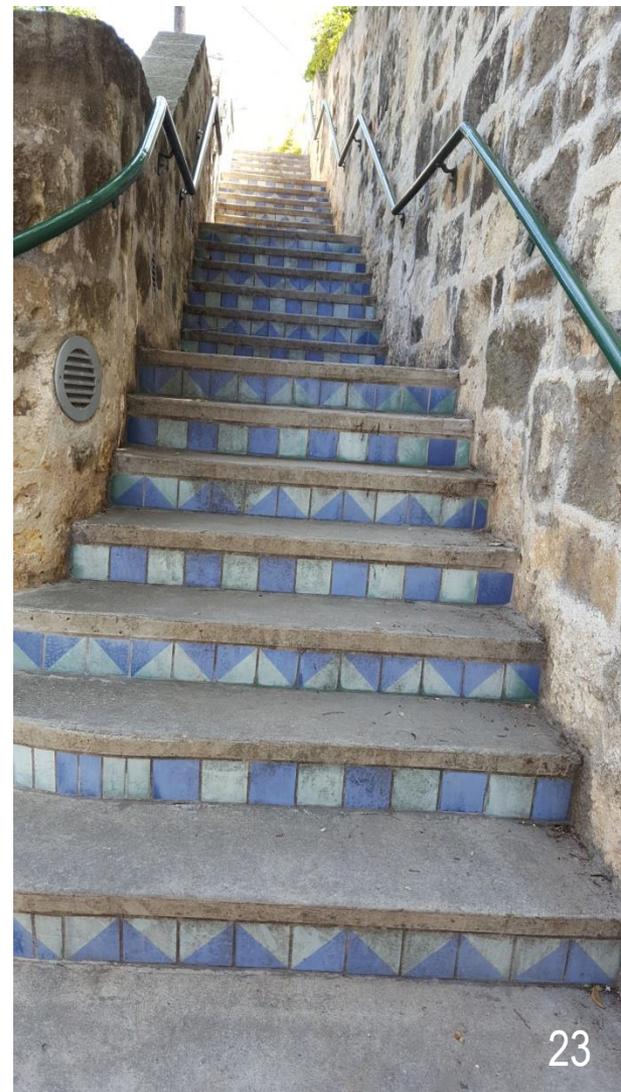
Historic fishing along pool on outer river bend  
Salina, KS



**Channel Configuration with Pools and Riffles**

# Preliminary Design Summary

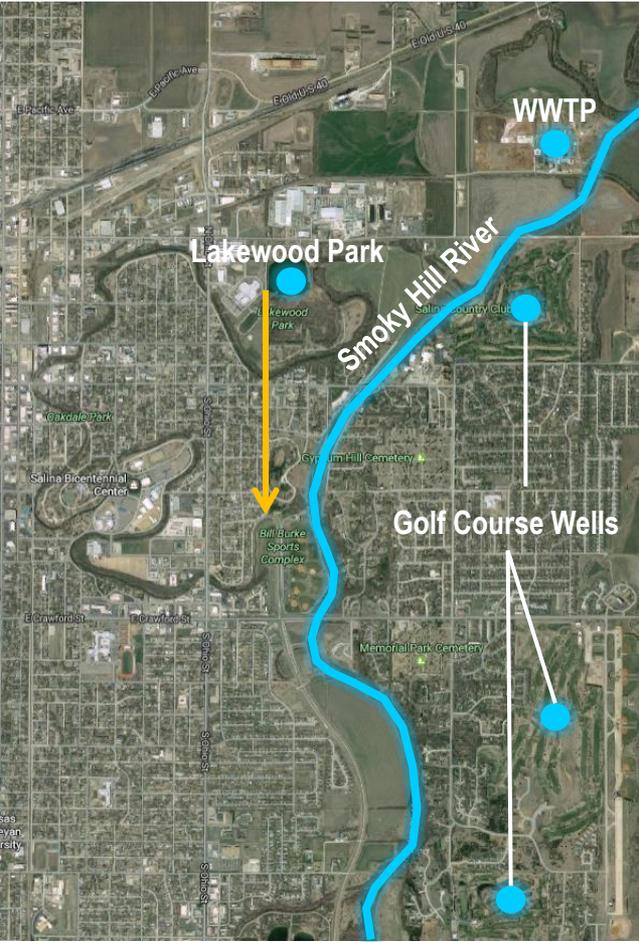
- 30% Plans and Basis of Design Report Will:
  - Land requirements
  - Identify federal, state and local permit requirements
  - Opinion of probable costs for each segment
  - Prioritized construction phasing plan
  - Annual operation and maintenance costs
- \$20 million First Phase Budget
  - Water Flowing
  - Optimize Benefits/Budget
  - First Phase Community Input
- Only Involves In-channel Features





# 04 Frequently Asked Questions

# Source of water during drought?



Water Supply Source	Water Quality	Quantity/Reliability	Life Cycle Costs	Water Rights	Public Acceptance
Smoky Hill River					
Water Assurance					
Golf Courses					
WWTP Re-Use					
Lakewood Park					



# Will the channel leak?

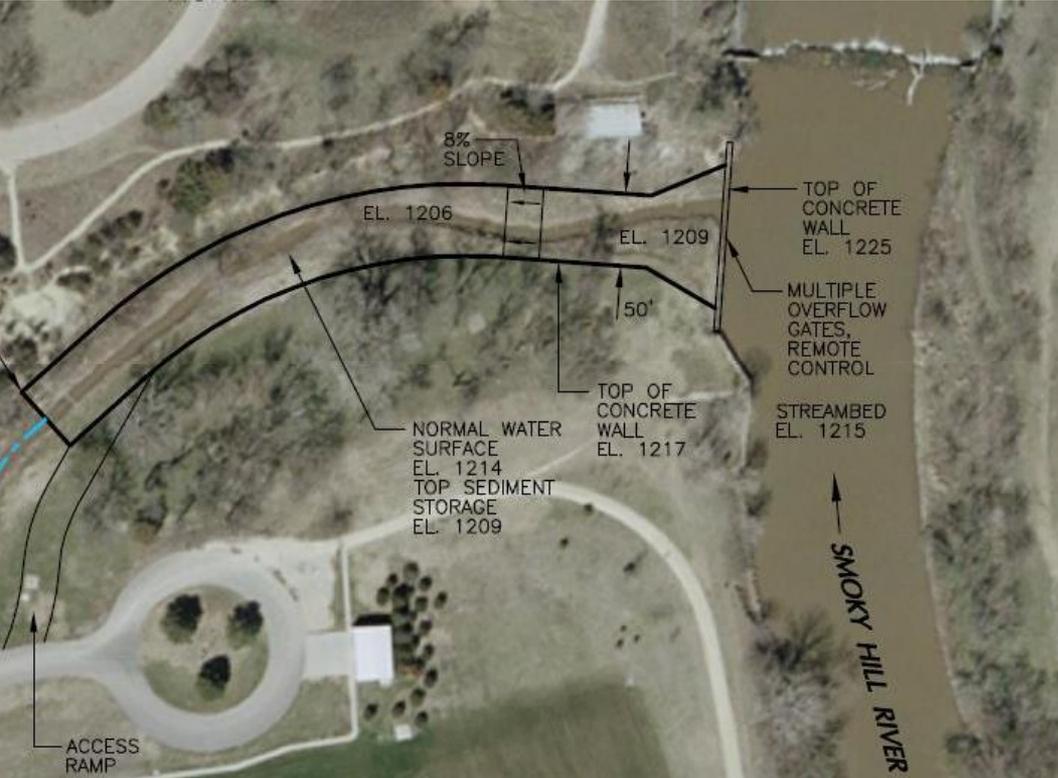
- Geotechnical Borings (Kaw Valley)
- In-field Seepage Testing
  - Determine future leakage rate
  - Sets minimum size of recirculation



*Environmental Priority Solutions, Salina, KS*

Item	Quantities	Depth	Notes
Inlet Structure Boring	1	60 feet	10 feet of Coring
Sediment Control Basin Boring	2	20 feet	
Sediment Removal Area Boring	15	0-6 feet	Hand Augered
South Ohio Street Culvert	4	20-80 feet	4 borings to include 10 feet of Coring
Iron Avenue Bridge Boring	4	20-80 feet	4 borings to include 10 feet of Coring
Midway Street Bridge	4	20-80 feet	4 borings to include 10 feet of Coring
YMCA Bridge	4	20-80 feet	4 borings to include 10 feet of Coring
Elm Street Bridge	4	20-80 feet	4 borings to include 10 feet of Coring
Ash Street Bridge	4	20-80 feet	4 borings to include 10 feet of Coring
Existing Dam Boring	2	80 feet	10 feet of Coring
New Boardwalk Boring	1	70 feet	10 feet of Coring
Existing Retaining Wall Boring, Upstream of Iron Avenue Bridge	1	70 feet	10 feet of Coring
Lakewood Park Lake Monitoring Well	4	40-60 feet	Install Monitoring Wells
Multi-Use Trail Boring	40	5-15 feet	Along 6 miles of trail. One at each pedestrian bridge (two total).
Infiltration Testing along the River Channel	30	1-10 feet	In-situ field test spaced along the 6.8 miles using a track mounted Geoprobe.

# Water Clarity/ Algae/ Odors



Container A  
17% Removal  
166 mg/L

Container B  
70% Removal  
60 mg/L

Container C  
95% Removal  
10mg/L



# Trash Removal



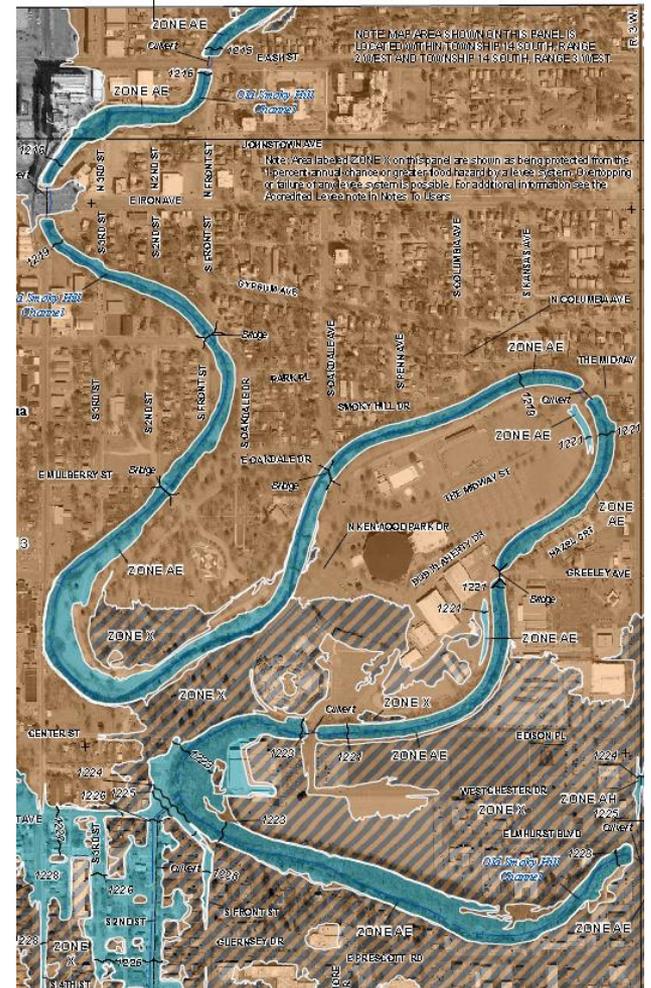
## Trash Barge, San Antonio, Texas

Courtesy of Joseph E. Cruz, Downtown Operations Superintendent  
City of San Antonio, Texas

Use of screens, racks, booms, and comparable devices can be placed in the channel itself to capture trash or route (direct) it to a particular location where it can be cleaned up.

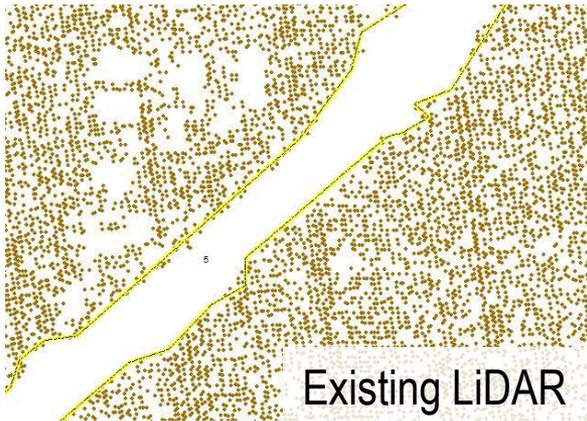
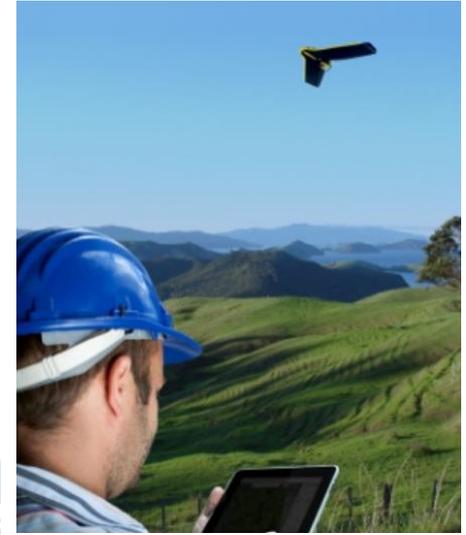
# Floodplain Impacts

- No Change in the Flood Control Levee
- Levee pump station evaluation
- Bridge Concept Design for 6 locations
- Decrease Flood Elevations (when possible)
- No-Rise at least



# Flat Topography

- Topographic survey at Structures (ground crew)
- Aerial survey using UAV (drone)
- Bathymetric survey using UAV (boat)



# What Permits Are Needed?

Clearance	Administering Agency
Section 404 Permit	U.S. Army Corps of Engineers/EPA
Section 401 Permit	Kansas Dept. of Health & Environment
Section 408 Permit	U.S. Army Corps of Engineers
Section 7 Clearance	U.S. Fish and Wildlife Service/KDWP
Section 106 Clearance	State Historic Preservation Office/Osage Nation
Floodplain Development	City of Salina
Levee and Floodplain Fills	Kansas Division of Water Resources
Dams, Stream Obstructions & Channel Changes	Kansas Division of Water Resources
NPDES (tentative)	Kansas Dept. of Health & Environment
NEPA (tentative)	U.S. Army Corps of Engineers
Traffic Study	City of Salina
Right-of-Way Excavation	City of Salina
License Agreement Application	City of Salina
Heritage District Application	City of Salina
Right-of-Way Dedication	City of Salina
Land Disturbance Permit	City of Salina

## Key questions to answer early in the process:

- Purpose and Need
- USACE jurisdictional limits
- Impact avoidance/minimization
- Type of Section 404 permit(s)
- Permitting timeline
- Quantity of compensatory mitigation
- Location of compensatory mitigation
- NEPA compliance

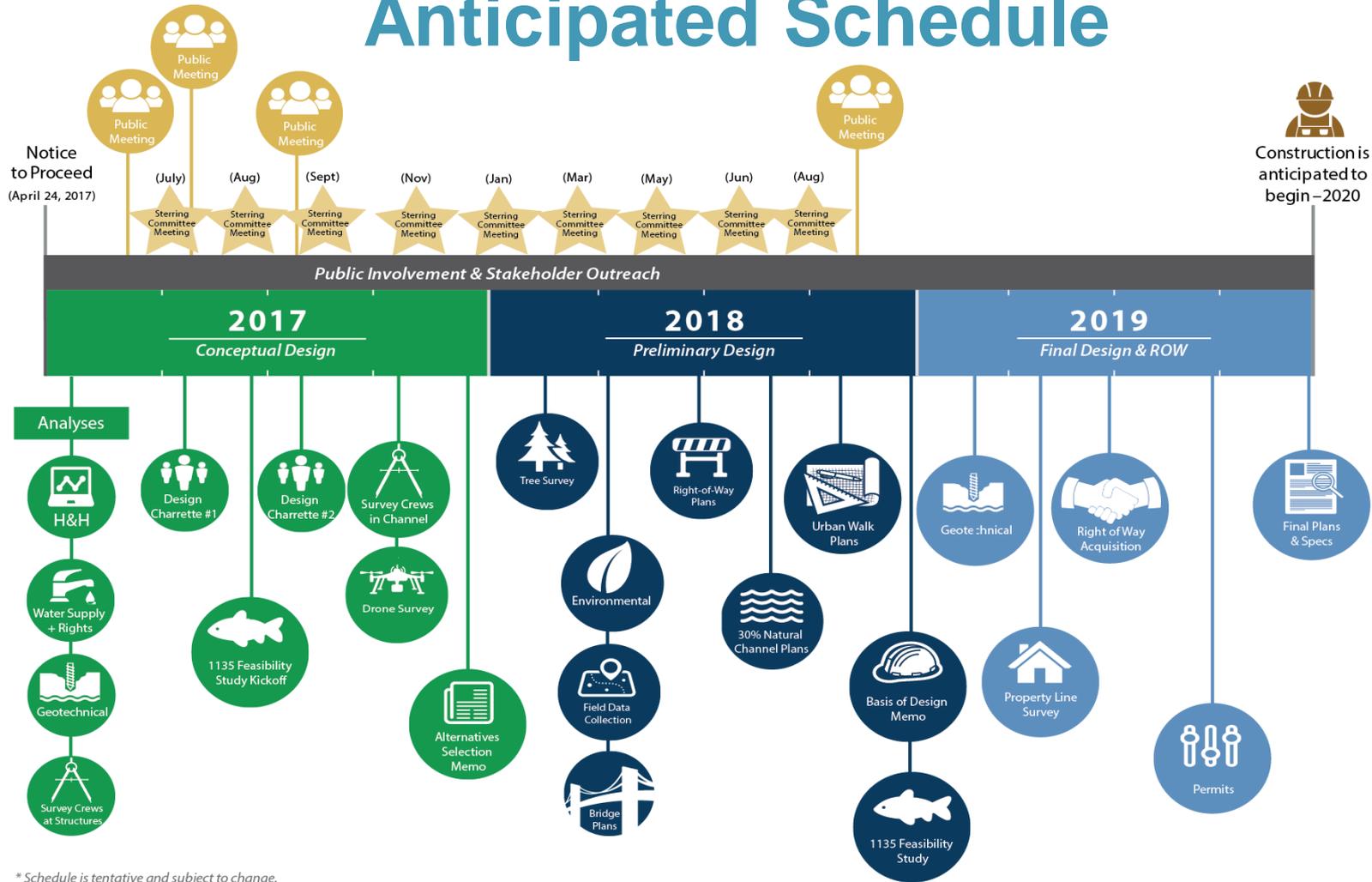
## Costly mitigation fees

- \$50,000/acre wetlands
- \$50/credit streams



# 05 **Design Schedule**

# Anticipated Schedule



\* Schedule is tentative and subject to change.



**Thank You !**

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HDR