

HDR



Revitalizing Smoky Hill River

Salina, KS





Agenda

- 01** Project Need
- 02** RAISE Grant Funding
- 03** Potential USACE Funding
- 04** Project Schedule

Old Smoky Hill Channel

- Federal Flood Control Levee and By-Pass Channel
- Removed baseflow from 6.8 miles of channel



Historic Pictures



Today

- 5 sq miles of urban runoff
- Historic= 8,341 sq miles
- No base flow





Turn Vision to Reality

- Voter Approved!
- 30% Design
 - “Right Size” the Project
 - Construction Permits
 - Maintenance
- Public and Steering Committee Involvement for design direction and prioritization



3 public meetings with over **300** total attendees



3 surveys conducted with over **1,000** total responses



4,500 Facebook Live public meeting presentation views



9 community-based steering committee meetings to-date

Public delivers advice on river

By Tim Horan
Salina Journal

Simply getting clear water flowing through the Smoky Hill River channel that winds through Salina is the public's top priority for the city's river restoration project.

That's according to results of a public survey regarding renovation of 6.8 miles of the Smoky Hill River diversion channel created in the 1960s when the flood control levee system was created surrounding the city. The survey results are to be released at a public meeting from 5:30 to 7:30 today at the Art Center Warehouse, 149 S. Fourth. A presentation will begin at 5:30 p.m.

See RIVER, A4

Smoky Hill River open house

When: 5:30 to 7:30 p.m. today
Where: Salina Art Center Warehouse, 149 S. Fourth

Possible components in order of importance

- Increase water quality, quantity
- Multiuse trails
- Improved parks, public access spaces
- Enhanced bridge structure, improved aesthetics, pedestrian amenities
- Venues for public performance, events
- Areas for private, commercial, residential, retail investment
- Fishing opportunities
- Bird watching/habitat improvements
- Passenger transport, water taxis, gondolas

RIVER

From Page A1

Martha Tasker, Salina's director of utilities, said results of the survey were not surprising.

"We had 10 items we identified and we asked them (respondents) to rank them," she said. "To me the most telling part of the story is the improvement to increase water quality and quantity throughout the channel ranked 8.5 out of 10.

"The goal of the citizens was to get the water moving. The second was multi-use trails, followed closely by improved parks."

Designs available

This survey was presented as part of a June 22 public meeting. It was handed out at the meeting and was available online through the city's website. A total of 663 people responded.

People also presented ideas based on common themes, including: arts, entertainment and performances; recreational opportunities; trails and amenities; education opportunities; historic components; boating, and connection to downtown.

"Beyond ideas, respondents also provided comments on functionality, access for all, safety and maintenance," Tasker said.

The city of Salina and HDR, a consultant hired by the city, worked this week to refine a design.

At tonight's public meeting, people will be able to view exhibits, speak with project representatives and provide comments.

Tasker said ranking lowest in the survey was passenger transport in the way of water taxis or gondolas.

She said survey responses will be used to guide the design team in focusing on the area from Iron Avenue to the YMCA. She said the team has been working closely with the city and steering committee.

Another public meeting will be held in September. The preliminary design process is expected to take a little more than a year.

Input sought

Survey respondents were asked to rank possible trail segments. Oakdale Park was ranked highest, closely followed by the downtown area and Kenwood Park. The remaining areas, in the order in which they were ranked, were: south channel, Founders Park and north channel.

The original master plan indicated areas for features such as waterfalls and cascading pools. The two sites offered — Tony's Pizza Events Center and Founders Park, behind Salina Community Theatre — were ranked nearly equally by respondents. Additionally, an equal number had no preference.

The Santa Fe Avenue streetscape is a separate project, Tasker said. However, public input has been part of determining aesthetic treatments. The public indicated a preference for carrying downtown design elements over to the river project.

People were asked to comment on project components that excited them and that were concerning to them. Positive comments concerned the natural beauty of flowing water and opportunities for growth, tourism, families and recreation.

Tasker said many people commented on providing a sense of community and connections. Negative comments centered on project costs, ongoing maintenance, prior ballot initiatives, safety and security, litter and vandalism.

IN LOVING MEMORY
Carol Hindman
August 4, 1946
July 20, 2015



"ALWAYS REMEMBERED
FOREVER LOVED"

Finishing touches



Martha Tasker opens the Smoky Hill River renewal project meeting Thursday evening in the Salina Art Center Warehouse. (ALLEIGH WEEMS / SALINA JOURNAL)

Refinements to river renewal project discussed

By Jean Kozmowski
Salina Journal

Planning for the first phase of the Smoky Hill River renewal project is a multistep process: create a master plan, take it to the public for comment, refine the plan based on surveys and comments, then

do the same thing two more times.

At least that's the approach of Eric Dove, project manager for HDR, the consulting company hired by the city to plan the river project. The third opportunity for public comment on Phase I was Thursday evening at the Art

Center Warehouse.

Dove said the focus of the first phase will be to address the things Salinians want — as expressed in a survey.

"The Phase I budget will be get the water flowing, get people on the river," he said. The budget for Phase I is \$20 million. One of the

important roles of the Smoky Hill River Renewal steering committee will be to help HDR pick and choose projects, Dove said.

HDR is under contract for the first 30 percent of the project, which entails getting

See RIVER, A8

River view

- Top five projects Salinians want in river renewal:
1. Flowing water
 2. Multi-use trails
 3. Better parks, public spaces
 4. Enhanced bridge structure, aesthetics, pedestrian amenities
 5. Venues for public performances

Look at the master plan, read the history of the Smoky Hill River and see where it's going on the city of Salina's website: salina-ks.gov/riverrenewal.



A8 Friday, July 21, 2017 SALINA JOURNAL

RIVER

From Page A1

the river flowing and making plans for amenities along the banks, next to the river. Those plans should be ready next year. Construction should start in 2020.

The project will concentrate on 6.8 miles of old riverbed, from South Ohio Street near Bill Burke Park to the East Iron Avenue bridge.

Dirt removal first

Getting water in the riverbed again won't be an easy task. Plans call for removal of 65,000 cubic tons of dirt from the old channel. Sediment is 7 feet deep at the South Ohio Street end. It's totally clogged, Dove



A crowd of people mingle as they wait for an update on the Smoky Hill River renewal project. (ALLEIGH WEEMS / SALINA JOURNAL)

said, and what water flows goes backward.

The water will be cleaned of sediment and trash before it's allowed in the channel, then the channel will be cleaned out every three to five years.

The levee system that protects Salina from

flooding will remain in place, with water being admitted through culverts.

Bridges will have to be moved and built, some replacing old culverts. The Iron Avenue bridge, for example, will be replaced just slightly to the west to allow for an approach to



Jan Clark, of Salina, looks at a map of the Smoky Hill River at an open house Thursday evening at the Salina Art Center Warehouse. (ALLEIGH WEEMS / SALINA JOURNAL)

the river at the new Fourth Street Landing.

Hiking and biking paths will run along the east side, said landscape architect Austin Vachal, with HDR.

Tied to downtown

A planned car museum along the west side will tie into the city's downtown development project and

streetscape, although the projects are separate.

"The activity will drive people from downtown to the river and from the river to downtown," said Doug Bisson, with HDR.

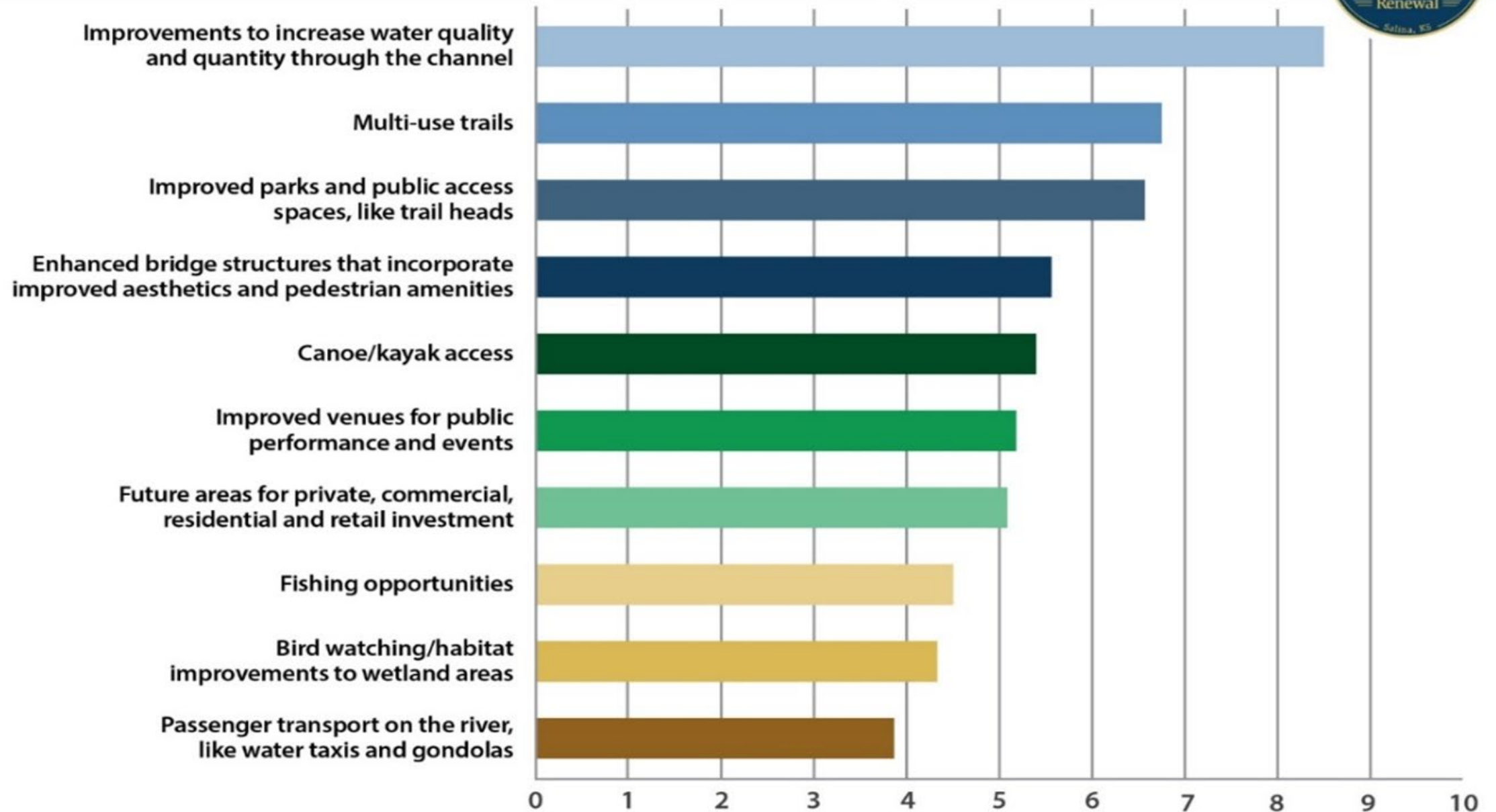
When the river master plan first was developed 10 years ago, downtown was in a different condition, Bisson said. Now it's being revitalized and the river renewal concept has been refined to reflect that.

HDR has plans for separate biking trails and walking paths along the river, to keep the faster bike traffic from interfering with pedestrians. A concrete-plank boardwalk will follow the west side of the river from Iron Avenue to Mulberry Street, Dove said. Some could be cantilevered over the water.



Smoky Hill River Renewal

Master Plan Components Ranked in Order of Importance



Canoe / Kayak the Entire River

- No Dams
- No low water crossings
- Tall pedestrian bridges
- 7 Bridge Replacements



Midway Bridge

Traditional Bridge:



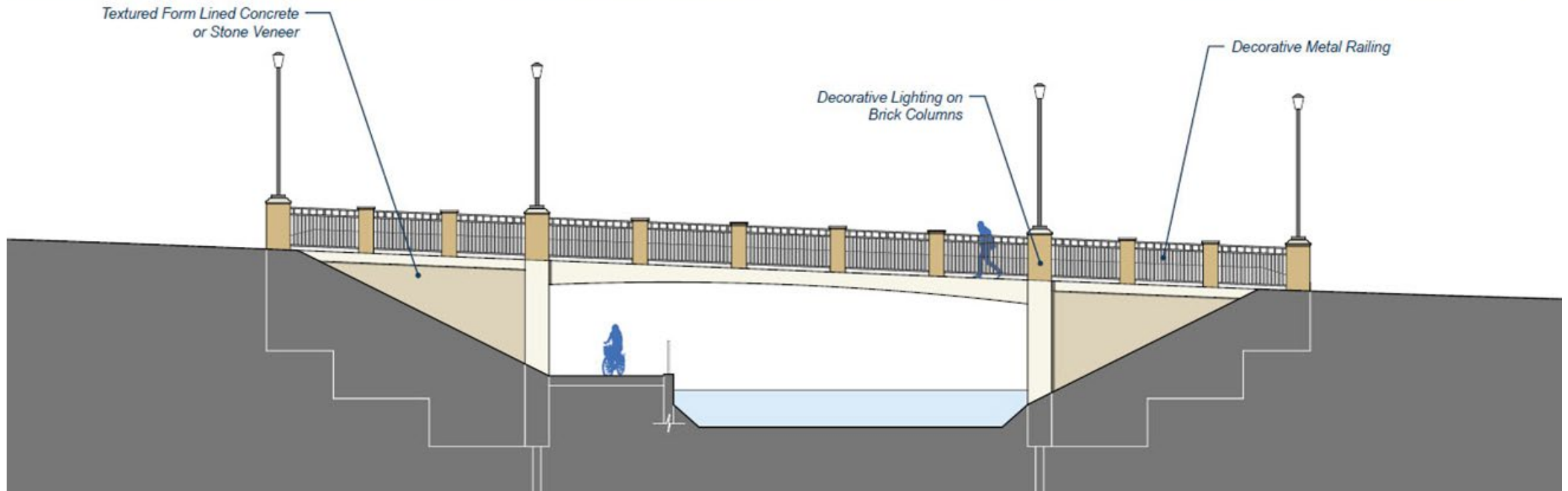
Decorative Columns / Lighting



Metal Railing:

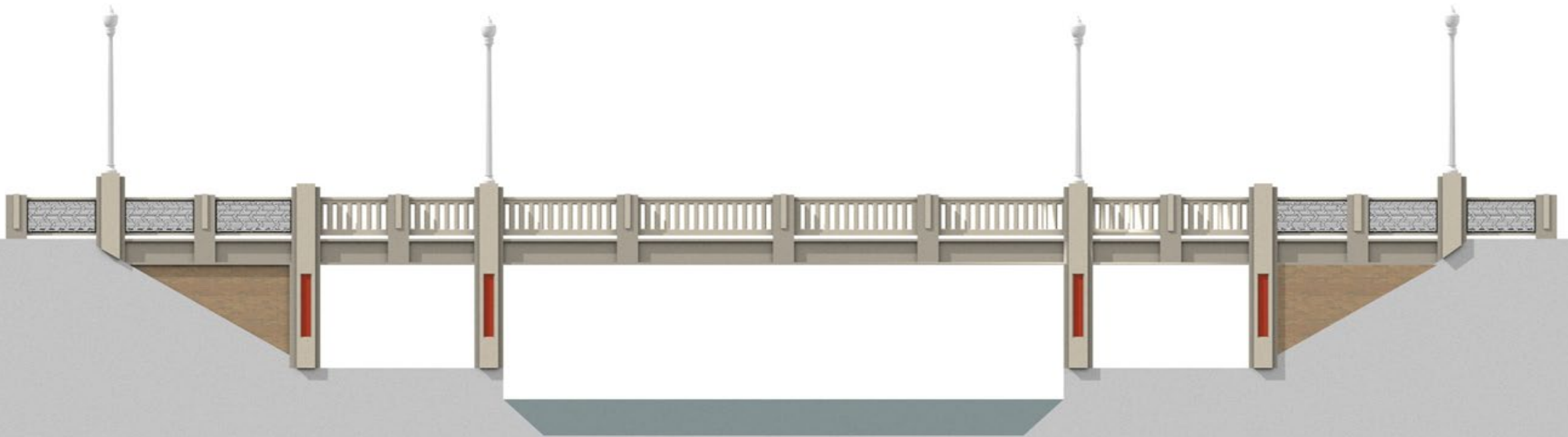
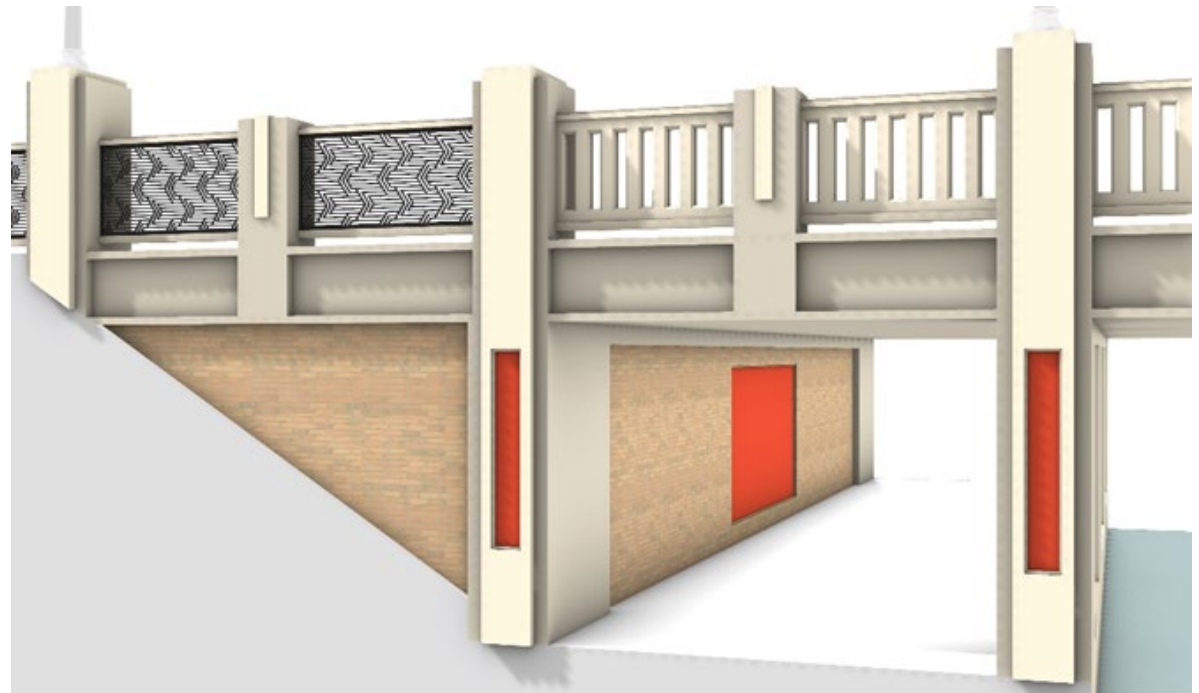


Textured Concrete Form Liner:





Iron Avenue Bridge



Community Spaces

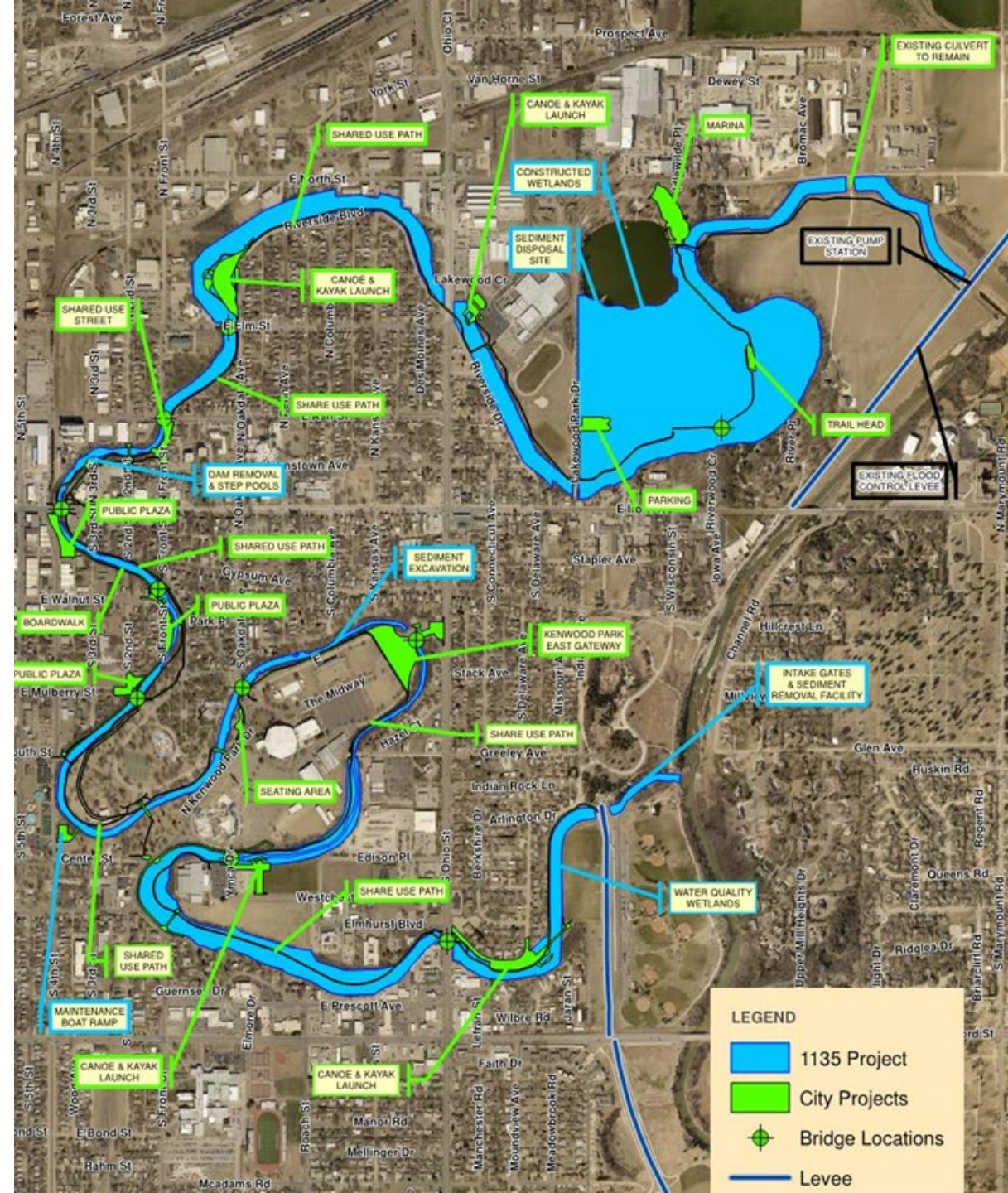


Lakewood Lake Park



Funding Strategy- Local & Federal

- Local Sales Tax
 - Voter Approved 0.35% sales tax
 - \$20 Million Bond, \$1.35 million per year
- USACE Section 216 Aquatic Ecosystem Restoration Program
 - Restoration of critical aquatic habitat
 - 65-35 Construction Cost Share
 - Feasibility Study and Concept Design is fully funded
- US DOT, EPA, CDBG, Private-Potentials





RAISE Grants

Rebuilding American Infrastructure with Sustainability and Equity

+ RAISE GRANTS

Rebuilding American Infrastructure with Sustainability and Equity



\$1.5 billion multimodal, merit-based, competitive discretionary grant program for surface transportation infrastructure

Supports projects that improve safety, equity, climate and sustainability, and the creation of good-paying jobs, consistent with US DOT's strategic goals

Modal and geographic diversity requirement

+ RAISE Merit Criteria

Applications should address each criterion or expressly state that the project does not address the criterion.

Safety

Environmental Sustainability

Quality of Life

Mobility and Community Connectivity

Economic Competitiveness

State of Good Repair

Partnerships and Collaboration

Innovation



2022 RAISE Results

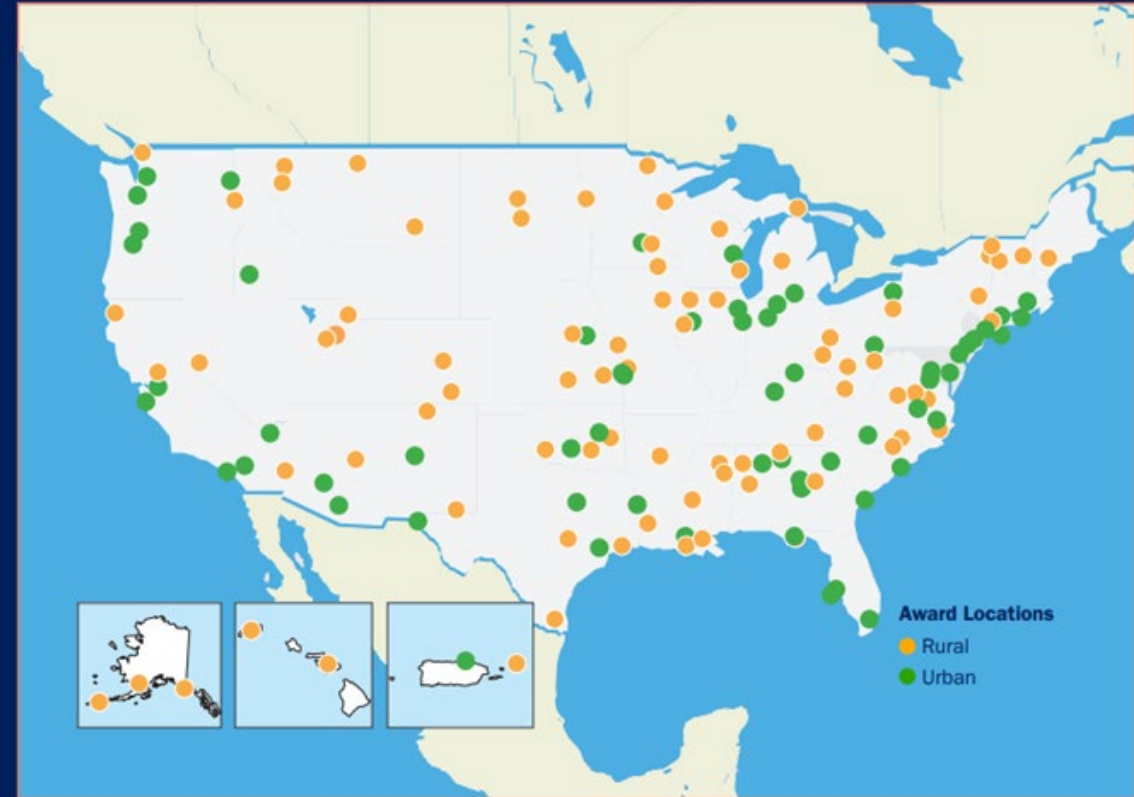


2022 RAISE Data	# of Applications	Total Value of All Project Applications	Total Value of All Project Funding Requests	Average Match %	# of Awarded Projects	Total Value of Awarded Projects	Value of Fund Requests	Misc. Figures	
Total Applications National	936	\$28,397,113,670	\$13,365,796,881	53%	166		\$2,200,000,000	17.7%	% of projects awarded nationally
								16.5%	% of funding requests awarded nationally
Kansas Applications	16	\$417,504,827	\$268,672,326	36%	2	\$61,000,000	\$46,900,000	23.1%	Avg KS match dollar % of awards
Missouri Applications	23	\$603,917,760	\$332,742,423	45%	5	\$61,500,000	\$48,200,000	21.6%	Avg MO match dollar % of awards

Smoky Hill Renewal

The Fortunate Few

- 936 Applications
- 17% Funded
- Why Salina
 - Community Support
 - Letters of Support
 - Local Funding
 - Preliminary Design Done
 - Senator Moran



RAISE AWARDS
FY 2022



FY2022 RAISE Grant Application

7 BRIDGES in Salina, Kansas

*A Rural Community Collaborating to Increase Safety, Livability,
Sustainability and Connections.*



7 Bridges in Salina, Kansas | A Rural Community Collaborating to Increase Safety, Livability, Sustainability and Connections.

Shared use paths and pedestrian facilities included in the Project will connect to existing pedestrian infrastructure in the surrounding area. The proposed and reconstructed bridges and culverts at S. Ohio Street, YMCA, The Midway, Iron Avenue, Ash Street, Elm Street, Lakewood Park, Levee Outlet, and N. Ohio Street will accommodate non-vehicular transportation, enhancing multi-modal connections to surrounding census tracts. In addition, the Project provides new pedestrian crosswalks complete with push-button actuated rectangular rapid flashing beacons to improve safety in the Project area. These new connections will strengthen infrastructure for residents who walk to the Project area from the adjacent tracts, accounting for roughly **16% of trips**. As described in **Section 4.8**, the Project will also include a mobility hub just northeast of Tony's Event Center, enhancing pedestrian, bike, ride-sharing, and electric vehicle charging facilities.



Most travelers to the Project location utilize private vehicles (~70% of trips) and a small number of travelers use transportation network companies (~2% of trips).

The City plans to place amenity parking nearby the Areas of Persistent Poverty and Historically Disadvantaged Communities. These parking facilities will provide accommodations for residents with disabilities, meeting Americans with Disabilities Act requirements, including sidewalk ramps and parking spaces.

Designers have strategically placed each parking area near APP and HDC census tracts so that each lot is **only an average of 1.25 miles away**. The lots will also have designated drop-off areas for ride-sharing and transit. The City has provided more information regarding the proximity of amenity parking locations to APP and HDC census tracts in Appendix G.

A number of transit routes also provide transportation to the Project area from APP and HDC tracts provided by the City's bus service, CityGo. The City has equipped every bus along these routes to transport residents with disabilities. The City also plans to provide more transit stops and routes to accommodate the anticipated influx of transit riders once the City completes the Project. **Table 5** and **Figure 9** displays the current transit routes CityGo offers that provide service to the Project area and the APP and HDC tracts that can utilize those routes. More detail regarding the existing transit routes is provided in Appendix G.

Current Community Mobility Trends

41%

of travelers currently traveling to the project area originate from APP and HDC census tracts

16%

of these trips are completed by modes other than using personal vehicles (walking, biking, ride-sharing)

Table 5: Existing Transit Routes

Current Transit Route	Service To/From
Red	Census Tract 9
Yellow	Census Tract 5/9
Blue	Census Tract 9
Green	Census Tract 2
Purple	Census Tract 3/5

Funded Elements

- Maximum Request Allowed \$25 M
- Requested \$25 M
- Awarded \$22.1 M



Funded Elements

Federal vs. Non-Federal	Total	% of Total Cost
Total Federal Share	\$22,100,000	60.3%
Total Non-Federal Share	\$14,569,690	39.7%

Item	2022 Dollars
Bridge #1 – Lakewood Park Bridge	\$851,452
Bridge #2 – Elm Street Bridge	\$1,603,715
Bridge #3 – Ash Street Bridge	\$1,607,413
Bridge #4 – Iron Avenue Bridge	\$2,559,354
Bridge #5 – The Midway Bridge	\$1,581,773
Bridge #6 – YMCA Bridge	\$1,577,579
Bridge #7 – S Ohio St Pedestrian Undercrossing and Hydraulic Culvert	\$1,687,286
Multi-purpose Bike and Pedestrian Trails	\$5,012,134

Funded Elements

Federal vs. Non-Federal	Total	% of Total Cost
Total Federal Share	\$22,100,000	60.3%
Total Non-Federal Share	\$14,569,690	39.7%

Item	2022 Dollars
Lighting – Pedestrian Crossings and Trails	\$1,146,289
N Ohio Street Pedestrian Underpass	\$474,827
Pedestrian Crossing Safety Features	\$285,212
Multi-Modal Hub (at The Midway)	\$192,355
Retaining Wall at Water Treatment Plant	\$1,088,930
Old Smoky Hill River Channel Maintenance Facility and Boat Ramps	\$1,721,446
4 th Street Plaza, Complete Street and Boardwalk	\$4,871,862
Levee Outlet for Flood Mitigation and Aquatic Connectivity	\$901,107
Design, Permitting, Admin and Construction Contingencies	\$9,506,957
Project Total (2022 Dollars) =	\$36,669,690

Mobility Hub & BCA

Benefit	7% Discount Rate (3% for CO2)
Crash Reduction	\$19.2 million
Improved Journey Quality	\$2.7 million
Emission Reduction	\$3.4 thousand
Residual Value	\$1.5 million
Total Benefits	\$23.4 million





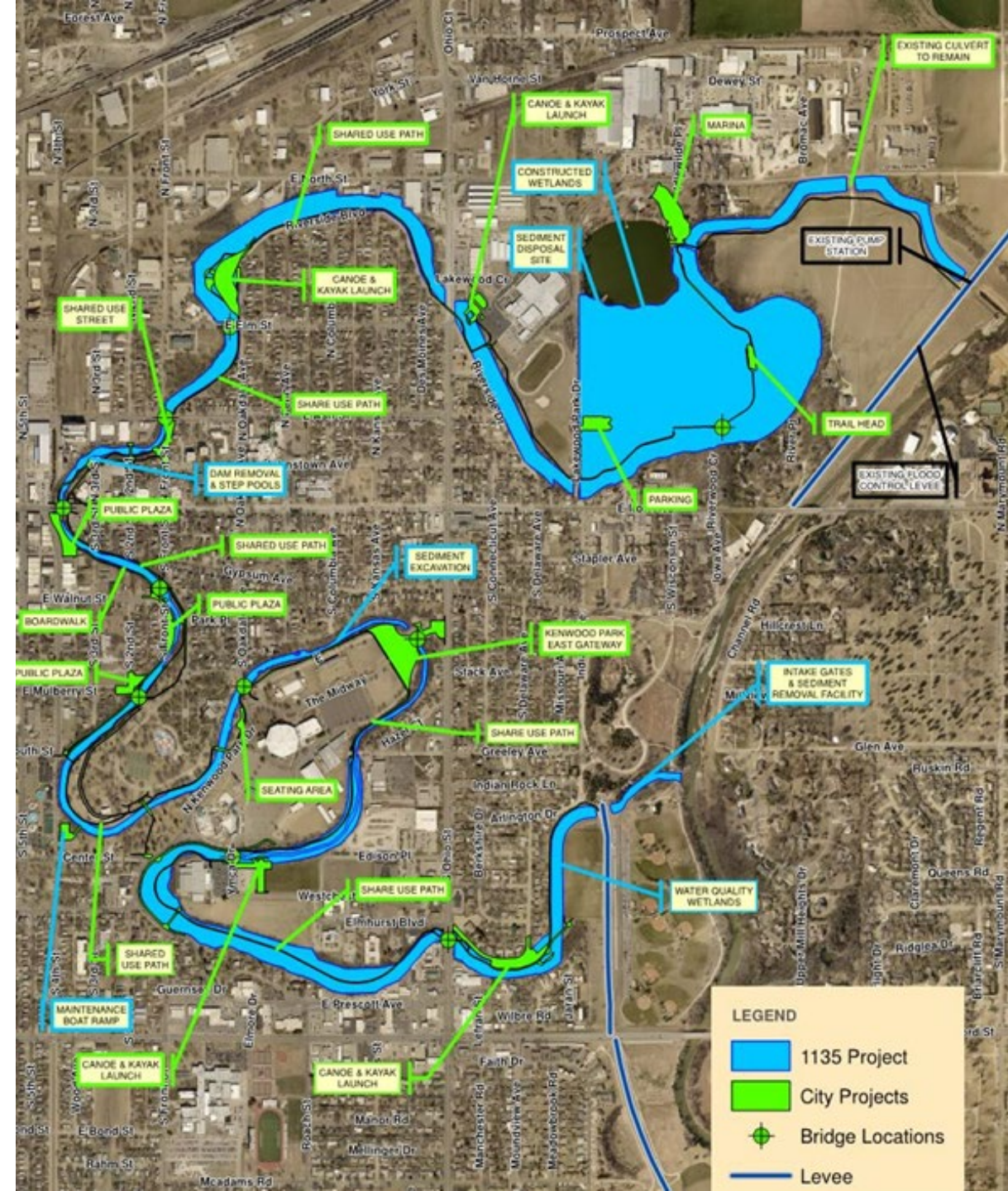
02 Potential USACE Funding

Potential USACE Program Areas

- Ecosystem Major Elements
 - Entrance works
 - Sediment Excavation and Disposal
 - Channel Shaping
 - Western Star Dam Replacement
- Locally Preferred Plan Selected



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





Legend

- Glide
- Pool
- Riffle
- Run
- Old Channel Centerline
- Wetland Shelves Connection
- City Streets
- Berm

Existing Iron Culvert

Existing Midway Culvert

Existing Mulberry St. Bridge

Existing Oakdale Ave Bridge

End A2 Uniform Channel Grading in Reach 1

Existing Greeley Ave. Bridge

Existing YMCA Dr. Culvert

Wetland Shelves Connection

Regrade Trail To Limit Ponding Easement

Existing Entrance Levee Culvert

Sedimentation Forebay

Begin A2 Non-Uniform Channel Grading in Reach 1

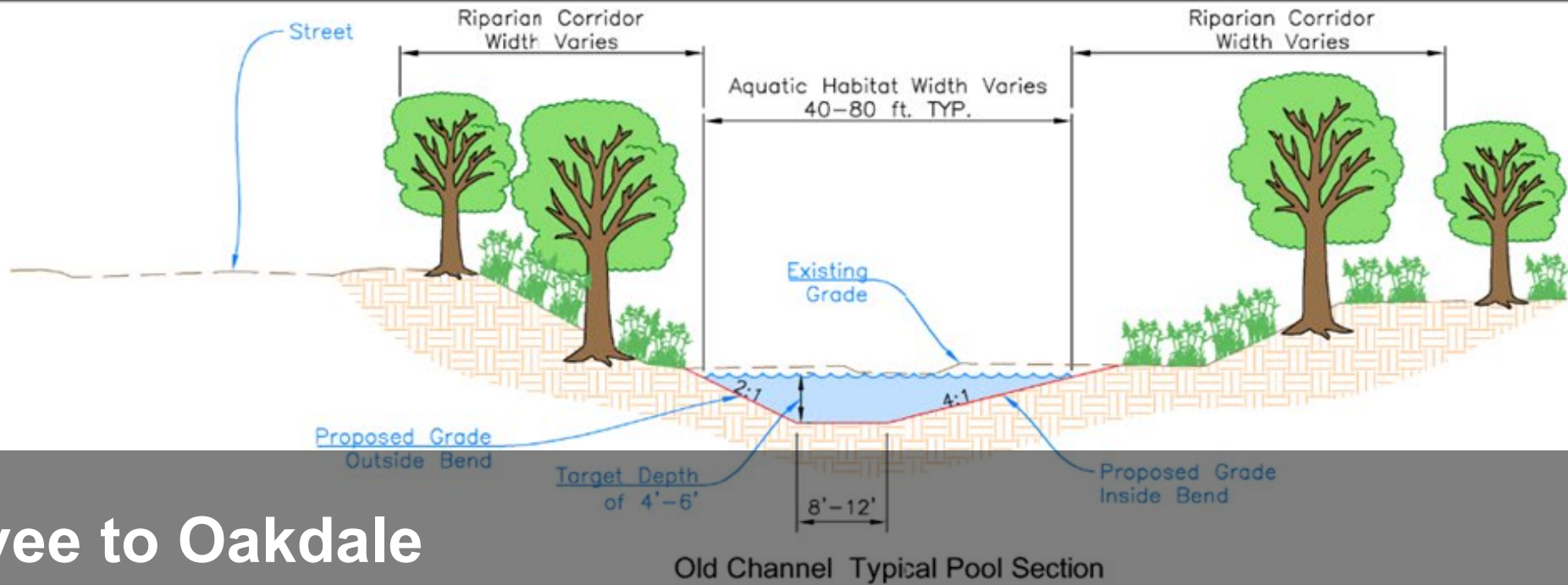
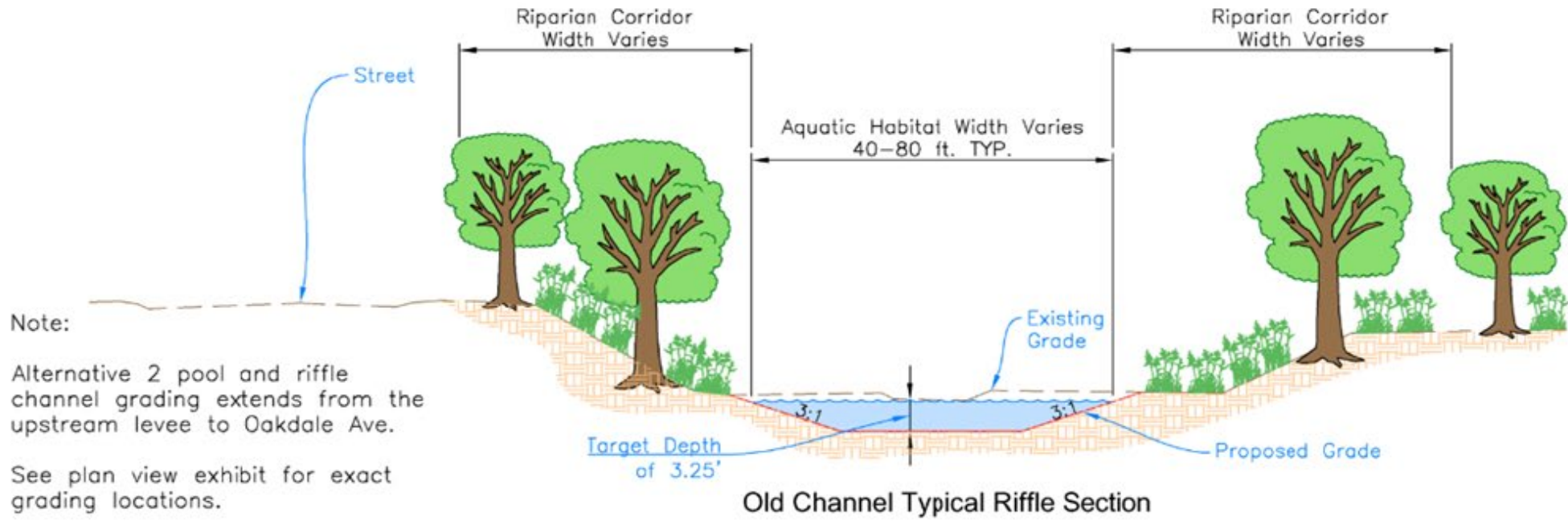
Selected Plan

Future S. Ohio St. Culvert

Wetland Shelves Grade Control Structure

Smoky Hill River





Levee to Oakdale



Founders Park- Before Dam Removal



Founders Park- After Dam Removal



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



Entrance Works / Sediment Basins / Water Quality Wetlands

20%
NOT
ELECTRIC
REQUIRE



03 Project Schedule

Project Schedule

Tasks	2022	2023	2024	2025	2026	2027	2028	2029	2030
Submit RAISE Grant Application	█								
RAISE Grant Agreement Execution Process		█							
Land Rights	█	█							
Construction Start (14 months from obligation)			█						
Project and Grant Management		█	█	█	█	█	█	█	█
River Channel Outlet Design and Construction			█	█	█				
Design & Construct Bridges #1 and #2			█	█	█				
Design & Construct Bridges #3 and #4			█		█	█			
Design & Construct Bridges #5 and #6				█	█	█	█	█	
Design & Construct Bridge #7						█	█	█	
Trail Design and Construction					█	█	█	█	█
Pedestrian Safety Amenities Design and Construction					█	█	█		
Multi-Modal Hub Design and Construction							█	█	
Boardwalk and 4th Ave Streetscaping Design & Constr.						█	█	█	
River Channel Amenities Design and Construction							█	█	█

Smoky Hill River Renewal Project

**RAISE
GRANT**

Notice of
Award

Agreement

Design

Bridge Construction

Trail
Construction

Canoe
Launches

7 Years

Future Project Elements



US Army Corps
of Engineers®

GI Feasibility

Channel Restoration

Design

Construction
Implementation



South
Ohio Trail

Other External Funding

4th Street Plaza

Founders Park, Trails, Boat House, Marina

Future Project Elements



Questions and Additional Discussion