

### **METROPOLITAN AVENUE**

The urbanized signalized arterial With the inclusion of the four-lane of Metropolitan Avenue from 7th bridge, improvements include: Street (Grant Gate) through 4th Street (Sherman Gate) operates as an integrated network.

Changes to gate operations at Fort Continue exclusive eastbound Leavenworth significantly altered traffic patterns between Grant Gate and Sherman Gate. Other design modifications to the Fort's Access Control Points (ACP) were envisioned but now may be subject

to change.

Additional eastbound through

lane along Metropolitan Avenue at 4th Street right-turn lane from

Street

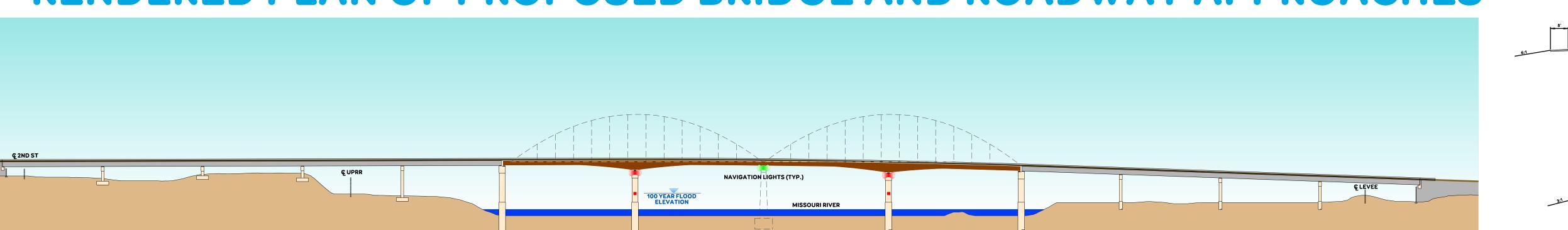
Metropolitan Avenue to 4th

## **CONCEPTUAL TOLLING FACILITY**

The tolling collection system is 
The equipment is located on the envisioned as All Electronic Tolling Kansas side of the bridge to provide (AET). This collection system does a secured space for installation not include toll booths. Rather, the as well as utility and maintenance equipment is located over the travel access. It is assumed that an offlanes and also includes sensors in site operations center would be the pavement. utilized. A primary benefit of AET is that vehicles do not stop for toll

The tolling equipment either detects collection, thereby eliminating delays. a transponder in a vehicle or video records a vehicle's license plate. The Example All Electronic Tolling facility information is then used to charge account holders or send a bill via mail. The Kansas Turnpike Authority (KTA) uses its KTAG transponder as a form of electronic tolling.

# RENDERED PLAN OF PROPOSED BRIDGE AND ROADWAY APPROACHES



PROPOSED BRIDGE ELEVATION

#### TRANSPORTATION IMPROVEMENTS

A strip map of the proposed roadway 
An elevation of the proposed bridge and bridge improvements is provided is also displayed at the same scale. for public viewing. The map utilizes a For reference purposes, the elevation recent aerial base map that has been displays an outline of the existing altered to include the proposed bridge Centennial Bridge. location while displaying an outline of the existing bridge. The proposed bridge shifts the

Other features in the immediate area of the Missouri River to avoid are identified including:

Abutting property lines

WEST OF BRIDGE - KANSAS TYPICAL SECTIONS

WESTBOUND | EASTBOUND

EAST OF BRIDGE - MISSOURI

8' - 24' - 4' - 24' - 8' - 1

Existing/proposed right-of-way

Selected utilities and easements operators.

navigational channel to the center

downstream obstructions along the east bank of the river. This modification has been reviewed by the U.S. Coast Guard and barge

## SIGNAGE AND PAVEMENT MARKINGS

Unlike a controlled access roadway 
To reflect potential construction such as the Kansas Turnpike or costs associated with the project, a Interstate system, Route 92 is an conceptual signing layout has been arterial roadway with public and developed to illustrate the type and private access on either side of the location of signs associated with bridge. With the potential for tolling, tolling. appropriate signage will be needed

Toll bridge

to inform motorists of the:

Collection method

Toll rates

A major tem includes overhead changeable message boards to provide information to motorists. Other advance overhead signage and pavement markings are also conceptually displayed on the

rendered strip map.

#### **ROUTE 92 AND SPUR 45 JUNCTION**

junction of Route 92 and Spur 45 configuration for this location is experiences a degree of congestion a roundabout. The roundabout during the AM peak period. This concept addresses: congestion results in significant Capacity issues queue lengths and delays for vehicles traveling westbound on

Spur 45.

similar roadways.

concerns with a higher than

Shifting traffic patterns

Safely concerns

The junction also exhibits safety 

Improvements may be warranted

prior to construction of the average statewide accident rate for replacement bridge. Therefore, an interim and ultimate design concept is needed to enable a seamless transition.

Right-of-Way Property Line

ROUTE 92 CENTENNIAL BRIDGE STUDY #Rt92CentennialBridge



PUBLIC OPEN HOUSE DISPLAY

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