

Kansas DOT Statewide ITS Project

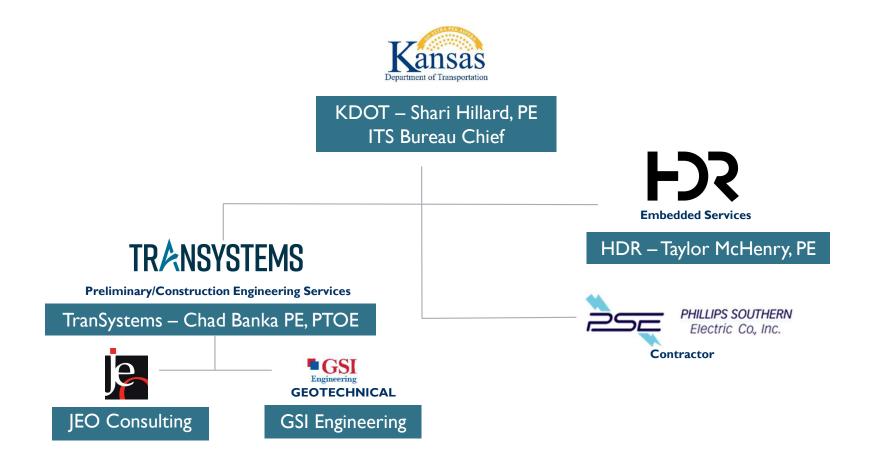
KA-5777-01 Location: Multiple Counties



5/3/2023

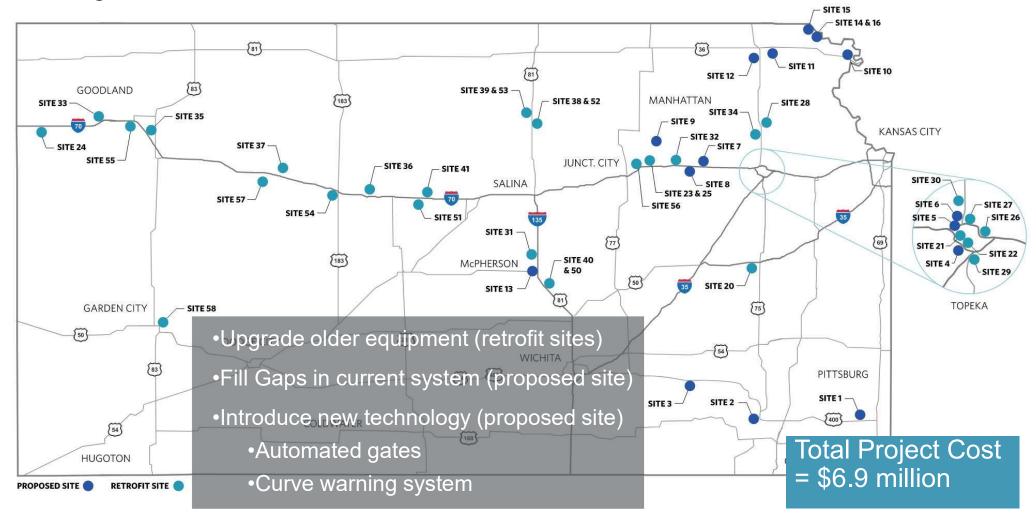
- 01 Our Roles
- **02** Project Overview and Location
- **03** Automated Gate System
- 04 Dynamic Curve Warning System
- 05 Current Status







Project Overview - Statewide ITS Infrastructure





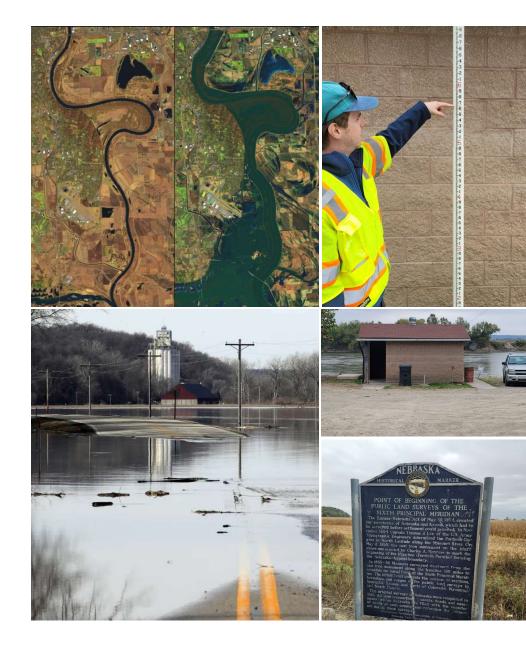
03 Automated Gates

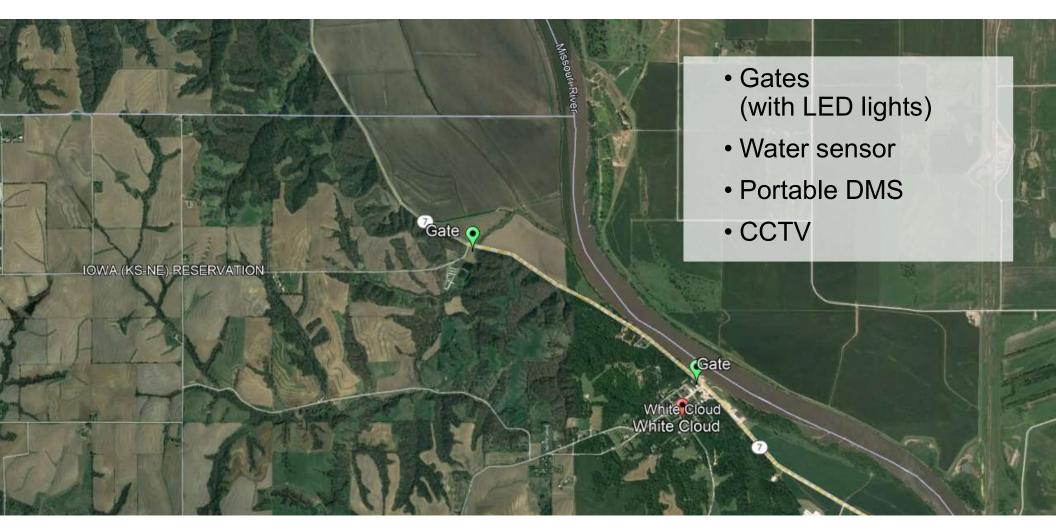
Re-evaluate location & need

- March 2019 flooding
- NE Kansas
- Long-term blocked access

White Cloud, KS

- On the Missouri River
- Difficult to access, remote, long detours





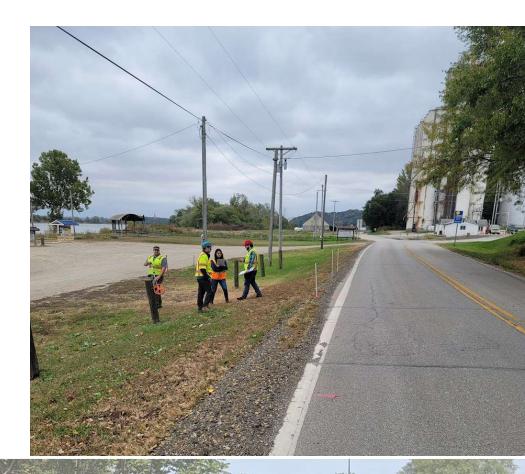
JEO Consulting

- Lonnie Burklund & Mark Friend
- Experience with ITS & gates

Objectives

Design

- Remotely controllable (through ATMS)
- Quickly deployable in rural areas
- MUTCD compliant
- Testing for future locations
 - High & low speeds



Preferred Vendor

Versilis, Inc.

- Horizonal & vertical swing options
- Used in US and Canada
 - Florida and Texas
- Compatible with ATMS software
- Contacted other TMCs









04 Dynamic Curve Warning

Dynamic Curve Warning System



Located at K-61 & I-135



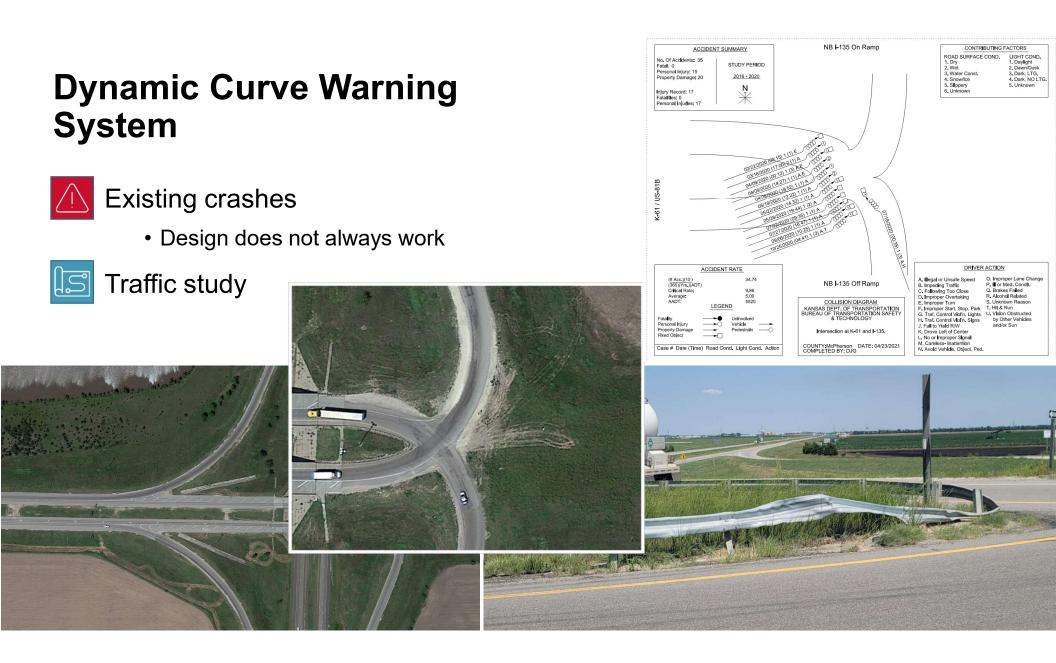
Temporary solution



No geometric improvements
Truck traffic







Dynamic Curve Warning System

NB K-61 to I-135 – Existing conditions





Dynamic Curve Warning System

Safety

- Temporary Solution
- Make the change

Working with Partners

- Talked with Local Crews
- KDOT Signing, Traffic, ITS, and more

Goals

- Dynamic
- Scalable
- Cost Effective



Dynamic Curve Warning System

Solution

- TAPCO blinker chevron system
- Feed back radar
- Rumble strip updates
- Lane changes / elimination
- Flexible delineators
- Overhead sign truss
- CCTV system & ATMS

Future

 Designed with geometric changes in mind



MAKING ROADS SAFER

BlinkerChevron Dynamic Curve Warning System







Current Status

Moving Forward

