

# I-94 Edens Expressway Winnetka Avenue Underpass 2019

## Project Description:

Various underpasses along I-94/Edens Expressway have periodically experienced temporary road closures due to pavement flooding, resulting from severe and intense rainstorm events.

Rempe-Sharpe & Associates, under contract to IDOT District 1—Hydraulics, was authorized to conduct a Drainage Investigation (DI) toward the goal of developing solutions to reduce the occurrences of road closure due to flooding.

Hydrologic and Hydraulic modeling of the existing network was performed to reflect the depth of ponding on the pavement.

Services also included: model calibration to several historical storm events, limited topographic/engineering surveys, research of engineering plan sets spanning six decades, and televising to confirm pipe connectivity where other data was lacking.

## Project Status:

The existing conditions model, with calibration to five historical storm events, was completed in January 2016 and is under review by the Client. (Development of proposed solutions is ongoing).

Client: IDOT, District 1  
 Programming - Hydraulics  
 Mr. Rick Wojcik, P.E.  
 Chief of Hydraulics

