



City of Leawood

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September 26, 2008

Craig Pardue
Shawnee Steel and Welding, Inc.
6214 Merriam Drive
Merriam, Kansas 66203

09/29/08

Dear Mr. Pardue,

As Director of Public Works for the City of Leawood, Kansas, I feel it is my responsibility to utilize products and methods that perform within the specified design criteria, while minimizing costs to taxpayers. To this extent, the thesis for my Masters in Civil Eng investigated the hydraulic parameters as they pertain to the use of Set-Back curb inlets.

The key objective in the use of curb inlets is to space them in an efficient manner to minimize the spread of water in the street with the fewest number of inlets. This allows for safe passage of traffic within the intended design storm frequency.

My research on use of the Set-Back inlets was to evaluate the efficiency of capturing water off the street varying the longitudinal street slope, cross slope and inlet opening length. The conclusion of my research is Set-Back curb inlets have a high efficiency to capture water run-off from streets. The use of these curb inlets can reduce the number of inlets needed, reducing the overall stormsewer construction cost.

The design and use of these curb inlets have been incorporated in the City's Public Improvement Construction Standards. The City's Construction Standards also incorporates the use of a steel inlet frame, as manufactured by Shawnee Steel & Welding, Inc. These frames allow water to flow into the inlets while keeping children, toys, and balls from getting into the stormsewer.

While the City has used these types of curb inlets for many years, these inlets are used throughout Johnson County, KS and Jackson County, MO. If you have any questions, please feel free to contact me at (913) 339-6700, ext. 131.

Sincerely,

Joe C. Johnson, P.E.
Director of Public Woks