

West Pennway Improvements, Kansas City, Missouri



R^3C DESIGN GROUP



R^3C Designers are part of a design team lead by el dorado, inc., to provide complete street solutions for W. Pennway between 17th Street and 21st Street in the Crossroads District in Kansas City, Missouri. Particular emphasis is being provided for reducing the complexity of and to improve the walkability at the 17th and 21st Street intersections.

The 21st Street intersection is a five-legged intersection with a very large footprint making it very pedestrian unfriendly. Because of terrain limitations, a simple relocation of one of the intersection approaches to create a standard four-way stop can't be accomplished. A unique solution was creating a T intersection of 21st Street at Madison and then carrying Madison Street to W. Pennway. Because 21st Street is a current westbound one-way street between W. Pennway and Madison, this would increase the available movements for the users. This solution was well received by the citizens.

17th Street intersection is an awkward four-legged intersection because of the skewed approaches of Beardsley Road from the north and W. Pennway from the south. Many options including a roundabout, a one-way square-market and a standard intersection were considered. The standard four-way was selected because of citizen acceptance and enhanced walkability features.

Our **Responsibility** during the design process is displayed by maintaining focus on what the citizens, and the Parks Department desired – a walkable environment and less-confusing intersections.

We display our **Responsiveness** by developing numerous options for each of the intersections – four for each of them, and allowing the citizens to select the desired option. Eventually, two options were tested for further consideration.

R^3C Designers maintained **Client-focus** beyond the client. The end-user, the stakeholder, the citizens, the Parks Department, el dorado, inc. were all kept in focus to deliver the appropriate project that exceeds the desired goals.

The RIGHT factors during this project are:

- Field evaluation of all options developed because of tough terrain.
- Citizen and stakeholder participation and approval.
- Developing out-of-the-box solutions to meet project demands.
- A design team, and client that was willing and able to entertain unique solutions.
- Exceeding project goals in creating a walkable environment.
- Increased the available green-space near the intersections to create the 21st Century Parkway desired by the Parks Department.

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Total construction estimate: \$ 6 million
Traffic study cost - \$10,000