

CPR – REBUILT TO LAST



Concrete Pavement Preservation Gives New Life to Cook County, IL Streets

>>> PATCHING, DIAMOND GRINDING & JOINT RESEALING

COOK COUNTY, ILLINOIS is the second largest county in the United States and is the home of the City of Chicago. Earlier this year, the Cook County Department of Transportation recognized that 175th Street was in need of repairs from the intersection at Kedzie Avenue to 500 feet east of Governors Highway. The decades-old concrete pavement had served the County well but was in need of some timely repair.

An asphalt overlay was considered but was not chosen because it was believed to be more expensive, time-consuming and disruptive to motorists than the patch and grind rehabilitation alternative. Instead, the County opted to use 8,381 square-yards of Class B patches and 33,895 square-yards of diamond grinding. This job was unique due in part to its innovative, two phase traffic control plan. The first phase entailed repairing the two outside lanes and the second phase involved work on the two inside lanes.

One of the key challenges on this project was that the street weaved its way through the Village of Hazel Crest resulting in significant residential traffic. Although the work was completed during the day, the experienced crews effectively managed the flow when it was at its peak. This intense traffic coupled with the innovative traffic control plan created additional challenges when trying to maintain quality control of diamond ground matchlines and smoothness from lane to lane. The diamond grinding slurry was continuously collected with an onboard slurry vacuum and disposed of offsite at an approved disposal facility.

With a total cost of \$1,334,000, the project was completed on July 17, 2009, after only 46 working days. According to Jason Eilken of Quality Saw and Seal, these improvements will provide the County with approximately 15 more years of service before any other type of repair is needed.

TEAM MEMBERS

- Cook County Department of Transportation (Owner)
- Triggs Contracting (General contractor)
- Quality Saw and Seal (Patchwork sawing, dispatchers, pavement grinding, crack, joint, patch and edge sealing)
- Diamond B (Diamond patch blade and diamond grinding blade supplier)
- Crafc0 (Sealant supplier)