



## Buffalo Grove, IL Annual Street Improvements

### SUSTAINABLE FEATURES

#### Advantages of Pavement Pulverizing

- **Saving Diesel Truck Fuel**  
Pulverizing the existing road eliminated the need to haul existing pavement off-site.
- **Reducing Off-site Stockpiles**  
Using Pulverized materials reduced off-site stockpiles which are an environmental concern.
- **Reducing Extraction of and Fuel to Ship Virgin Aggregate**  
Using Pulverized materials reduced the need for virgin aggregate that would have been extracted from quarries and gravel pits. This aggregate would then have required shipment to the project site for use.
- **Reducing Emissions**  
The pulverizing process allowed the work to be accomplished quicker -- minimizing traffic delays and congestion related to the construction work.



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### Background

The Village of Buffalo Grove undertakes a yearly street improvement program to proactively maintain Village streets. The program includes curb and gutter repairs, pavement patching, bituminous resurfacing, sidewalk and drainage structure repairs, sodding and parkway restoration, and other miscellaneous work necessary to maintain Village streets.

### Challenge

To incorporate environmentally friendly aspects into the annual road improvements and save the Village money without sacrificing quality.

### Solution

For streets with failed Pozzolonic Aggregate Mixture (PAM) bases, Baxter & Woodman proposed an alternative method to the traditional reconstruction approach by pulverizing several of the streets scheduled for reconstruction. Pulverizing the streets offered several advantages including;

- Eliminating the need for subgrade repair material reducing project costs.
- Reducing pavement removal cost. Instead of removing the existing roadway and PAM base to an offsite location the pulverized material stayed on the project site and was graded and shaped into an acceptable aggregate subbase to support the new roadway.
- Minimizing the Contractor's labor, material, trucking and fuel costs which saved the Village money.
- Utilizing existing materials for temporary driveway access.

### Results

A durable, eco-friendly, economic road improvement for the Village.



*Thompson under construction*



*Thompson after Improvements*