

Moving forward with concrete results

# PAVEMENT DECISIONS IMPACT 50 YEARS!

## Do Our Politicians Realize That?

### The Debate:

- ◆ Higher Initial Cost
- ◆ Maintenance
- ◆ Rehabilitation
- ◆ User Disturbance
- ◆ Taxpayer's Money
- ◆ Safety
- ◆ Brightness

## What Does a Lower INITIAL Cost really cost you?

The debate of concrete versus asphalt for pavement selection is something we know all about. Discussing this with a city engineer recently led to a tailored Life Cycle Cost Analysis (LCCA) to shine the light directly on the issue at hand. Our findings are highlighted below.

### The Comparison

Pavement evaluation exercise we did with the city: Make a list of the schedule of maintenance and rehabilitations you would require done to the pavement over the next 50 years.

We did the same exercise for Concrete Pavement as well as Asphalt Pavement.

We made sure the two alternatives were structurally equivalent and ran the traditional Life Cycle Cost Analysis produced by the Federal Highway Administration and the Wisconsin Department of Transportation.

#### Q: What did we conclude?

A: The Concrete Pavement Alternative will cost you \$432,240 LESS over the life of the pavement.

#### Q: Did Concrete Pavement have a higher initial cost?

A: Yes, by 11%. But look at the total cost. Concrete has the lower LCCA by 37%!

#### Q: Would you want to save \$16,000 today so you can spend \$432,240 more in the future?

A: NO!

*"TODAY'S DECISION is fixing your budget for that roadway for the next 50 years...the politicians are forgetting that the pavement will have to be maintained and rehabilitated..."*

*"If you bought all of the work to be done on this street over the next 50 years, today you would spend 50% less on the Concrete Pavement Alternative"*

*-Kevin McMullen*

	Initial Cost	Life Cycle Cost (Net Present Worth)	Total Cost in Today's Dollars	Total Cost (Assuming 3% Annual Inflation)
Concrete Pavement Reconstruction	\$155,656	\$158,608	\$162,896	\$174,094
Asphalt Pavement Reconstruction	\$139,923	\$217,637	\$322,284	\$606,334