Congratulations and Welcome

EEI would like to recognize the following employees for their milestone anniversaries with the company:

15 Yrs: Michele L. Piotrowski, P.E., LEED AP Senior Project Manager

> Angela D. McCoy Accounting Assistant

25 Yrs: Mark G. Scheller, P.L.S. Project Manager

40 Yrs: Peter G. Wallers, P.E., CFM President

EEI congratulates Christopher J. Ott, Christopher R. Walton, and Michael W. Schweisthal on passing the P.E. exam.



Welcome to Keith E. Powell, P.E., Project Manager in our Environmental Group.

Did You Know?

The Illinois Department of Transportation (IDOT) has released updates to the Bureau of Local Roads and Streets (BLRS) Policy Manual - Chapter 5? Two major changes that will impact your federally funded projects are: 1. threshold changed from \$150,000 to \$25,000: 2. QBS requirements as laid out in the BLRS Manual. Contact Tim Weidner at tweidner@ eeiweb.com for more information.





Enterprises Trivia Challenge

• Which team won the 2017 World Series? Houston **Astros or the LA Dodgers?**

Send your answer to eei@eeiweb.com or fax to (630) 466-6701 January 31st to be entered in a drawing for a \$50 gift card!



Engineering Enterprises, Inc. (EEI), founded in 1974, is an award winning, progressive consulting engineering firm providing services throughout northeastern Illinois. Our expertise includes water, wastewater, transportation, stormwater, construction management, land surveying and

www.eeiweb.com







Capital Improvement Planning - Why Do You Need

In this Edition:

Capital Improvement Planning - Why Do You Need It?

President's Message

Congratulations and Welcome

Did You Know?

Enterprises Trivia Challenge

The development Capital Improvement Plan (CIP) is a critical and vital responsibility for municipal staff in order to address immediate concerns and address longinfrastructure The 2017 Society American of Civil Engineers (ASCE) shows the overall infrastructure report card of our

CATEGORY	1988*	1998	2001	2005	2009	2013	2017
Aviation	B-	C-	D	D+	D	D	D
Bridges	-	C-	С	С	С	C+	C+
Dams	-	D	D	D+	D	D	D
Drinking Water	B-	D	D	D-	D-	D	D
Energy	-	-	D+	D	D+	D+	D+
Hazardous Waste	D	D-	D+	D	D	D	D+
Inland Waterways	B-	-	D+	D-	D-	D-	D
Levees	-	-	-	-	D-	D-	D
Ports	-	-	-	-	-	С	C+
Public Parks & Recreation	-	-	-	C-	C-	C-	D+
Rail	-	-	-	C-	C-	C+	В
Roads	C+	D-	D+	D	D-	D	D
Schools	D	F	D-	D	D	D	D+
Solid Waste	C-	C-	C+	C+	C+	B-	C+
Transit	C-	C-	C-	D+	D	D	D-
Wastewater	С	D+	D	D-	D-	D	D+
GPA	С	D	D+	D	D	D+	D+
Cost to Improve**	-	-	\$1.3T	\$1.6T	\$2.2T	\$3.6T	\$4.59
The first infrastructure grades were given by the National Council on Public Works Improvements in its sport Fragile Foundations: A Report on America's Public Works, released in February 1988. ASCE's first eport Card for America's Infrastructure was issued a decade later.							
The 2017 Report Card's investment needs are over 10 years. The 2013 Report is over eight years. In the 1001, 2005, and 2009 Report Cards the time period was five years.							



nation graded at a D-. Based on the 2014 ASCE infrastructure report card for Illinois a grade of a C- was given. It is estimated that trillions of dollars are needed to address this serious infrastructure deficiency. For a complete listing of all infrastructure areas please visit: https://www. infrastructurereportcard.org/state-item/illinois

Fall / Winter 2017

Enterprises

Capital Improvement Planning - Why Do You Need It?, Cont'd.

The CIP process is an excellent resource to help communities address their infrastructure needs. At its simplest, CIP planning is assigning costs to needed projects over a planned period of time. However, there is a whole lot more to the art of maximizing your CIP program which is an area of engineering expertise where EEI excels. EEI has over 40 years of expertise providing long-term infrastructure planning for municipalities throughout the northeastern Illinois area.



The preparation of asset management plans and/or master planning documents are typically a good place to start with the development of a CIP. EEI has vast experience in the creation of these plans that allow a community to identify short and long-term project needs, costs and funding sources. These plans may be developed for transportation, water, wastewater, stormwater, and building needs.

Forexample, EEI has prepared numerous drinking water documents that assist in identifying required



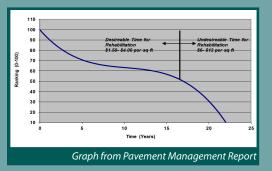
improvements Example: Water Report Cover

to meet growth,

infrastructure replacement schedules and operational needs. Along with the planned improvements a funding analysis may be performed to identify how the improvements are to be paid for, such as user rate increases. This information is then plugged directly into the communities CIP with a level of certainty for municipal staff and elected officials that system infrastructure and funding needs are adequately addressed.

Similarly, long-term planning can occur for road infrastructure through the development of a pavement management system. The purpose of a pavement management system is to create a tool to aid communities in developing a multi-year plan that will maintain the roadways that are currently in good condition, and gradually improve those in less acceptable conditions. The end result is a systematic approach to roadway maintenance that will identify the

necessary annual costs that should be expended to meet the desired goal. By gathering all of the condition data and determining the appropriate rehabilitation methods and costs for each roadway section, the system can be evaluated to determine a required budget that would be part of a CIP.



Cost is always a key component and primary concern for communities when preparing and implementing CIP's. Preparation of cost estimates for the planning documents is both an art and a science. In addition to fully identifying work items and quantities, preparing cost estimates requires knowledge of current and projected material and construction costs. This is where the staff of EEI excels at employing their experience in bidding and managing construction projects and our extensive contractor contacts to create cost estimates that can be counted on. It is critical that budgets are not too low and/or too high as both are problematic.



EEI has the experience and expertise to help you make the most of your CIP program. If your community is interested in learning more about the ways that EEI can assist please contact **Brad Sanderson at bsanderson@ eeiweb.com** for more information.



President's Message



Peter G. Wallers, P.E., CFM

The American Society

is the Season.....

of Civil Engineers (ASCE) has issued the 2017 Infrastructure Report Card, and their conclusions are....let's just say it appears we

have some work to do in nearly all of our infrastructure areas. If you're not sure where we should start, let me point you to one area you may find of interest. The current grade for Drinking Water infrastructure is a "D". Nationally we lose 6 billion gallons of treated water every year through leaking pipes. There are 240,000 water main ***** (my Public Works friends no longer allow me to print or say this word out loud, but it rhymes with aches) each year. ASCE estimates that we need to spend \$1 Trillion to maintain and expand service to meet demands over the next 25 years.

Part of the problem with water infrastructure is a lot of it is buried, and Public Works and the Water Professionals that run our systems do a phenomenal job of keeping things operating no matter what. Therefore, lack of adequate funding sometimes goes unnoticed until we reach a crisis. There are some areas of the country that are already dealing with a water crisis. Given our nation's overall water infrastructure unsatisfactory grade, unless our water system reinvestment approach drastically changes, it would seem there will be more crises in the near future.

As we near the winter season, I know crews will be out all hours of the day and night maintaining our systems and missing quality family time. We owe them all a debt of gratitude. Yes, it is their job, but keep in mind

it is our job as owners of our water utilities to demand that we reinvest in our systems. After all, none of us would be happy with a "D" on our report card.

	ASTRUCTURE DRT CARD	American Society of Civil Engineers Foundation 1801 Alexander Bell Drive Reston, VA 20191 Ph: (800) 548-2723		
	Categories	Grade		
+	Aviation	D		
	Bridges	C+		
L =	Dams	D		
	Drinking Water	D		
	Energy	D+		
®	Hazardous Waste	D+		
	Ports	C+		
A	Rail	В		
H	Roads	D		
fin .	Schools	D+		
	Solid Waste	C+		
	Transit	D-		
-	Wastewater	D+		
	rereportcard.org	ASCE FOUNDATION		