



## **AGENDA**

### **SPECIAL COMMITTEE OF THE WHOLE MEETING**

**Village Hall - Community Room**

**Monday, June 13, 2016  
6:00 P.M.**

*Reasonable accommodations or auxiliary aids will be provided to enable persons with disabilities to effectively participate in any public meetings of the Board. Please contact the Village Administrative Office (847-883-8600) 48 hours in advance if you need any special accommodations in order to attend.*

#### **CALL TO ORDER**

##### **1.0 ROLL CALL**

##### **2.0 ITEMS OF GENERAL BUSINESS**

2.1 Des Plaines River Bank Stabilization Project Presentation

##### **3.0 ADJOURNMENT**

REQUEST FOR BOARD ACTION  
SPECIAL COMMITTEE OF THE WHOLE  
June 13, 2016

Subject: Des Plaines River Bank Stabilization Project Presentation

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Action Requested: Consensus of the Village Board to move forward in the design process to improve conditions on and around the Des Plaines River Berm

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Originated By/Contact: Wally Dittrich, P.E., Assistant Public Works Director/Village Engineer

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Referred To: Village Board

**Summary / Background:**

In May of 2015, the Village initiated a project to evaluate the conditions of the Des Plaines River berm and provide recommendations on what could be done to improve the berm as it has deteriorated over the years which has made the Village's flood protection response increasingly more challenging. The Village's consultant, Engineering Resources Associates, Inc. will present the results of their study (attached) along with various options for addressing the situations with the berm. Board feedback is desired to direct staff where to focus its efforts with this area which will need to be communicated to the residents through a public meeting before a scope of work for additional engineering can be developed.

The next steps taken will require careful consideration by the Village Board and will help define the Village's overall response to flood events in Lincolnshire. Historically, the Villages flooding response plans have focused on pumping and sandbagging the areas in and around the berm. The properties utilized for flood response consists of entering private properties which the Village has no authority to control or maintain. The approach the Village decides to take when addressing the issues with the Des Plaines River berm should also take into account the dozens of other critical drainage areas across the Village where drainage issues exist that the Village is requested to respond to that are also on private property. These areas can effect anywhere from 1-2 properties at a minimum all the way on up to entire subdivisions that were constructed 40-60 years ago.

**Budget Impact:**

The current budget and 2015-2025 Capital Plan have identified approximately \$325,000 to address the issues with the Des Plaines River Berm. These budget figures will be revisited once further direction is received from the Board.

**Service Delivery Impact:**

This project aims to mitigate known slope failures, erosion issues and establish corrective measures as part of a multi-year program to help alleviate flooding issues and improve emergency response conditions to more efficiently and effectively respond to flood concerns within the project limits.

**Recommendation:**

To be discussed

**Reports and Documents Attached:**

Des Plaines River Berm Project Executive Summary  
Draft Des Plaines River Stabilization Report

Meeting History	
Initial Referral to Village Board (COW):	May 11, 2015
Regular Village Board Meeting:	May 11, 2015
Special COW Meeting:	June 13, 2016

To: Village Board

## Memorandum

From: Walter R. Dittrich, P.E., Assistant Public Works Director/Village Engineer

Date: June 6, 2016

Subject: Executive Summary of Draft Des Plaines River Berm Stabilization Report

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The Riverwoods subdivision has experienced recurrent flooding problems in several areas during moderate and severe storm events. These problems are related to flood elevations of the Des Plaines River and to local runoff inundating the subdivision drainage system. The Village retained the services of an engineering consulting firm to evaluate the berm and surrounding area to help determine what could be done to address the flooding issues.

Before analyzing the berm itself, a study on the effectiveness of the existing berm was completed to document the benefits it currently provides. The berm combined with sandbagging and pumping operations protects 70 homes along Lincolnshire Drive. The results of the analysis of the berm show numerous areas where the berm has settled and eroded away. Also, there are numerous locations where vegetation has overgrown the berm or trees have fallen down on top of it making it unpassable for equipment utilized for sand bagging operations. Also, residents own their property to the center of the Des Plaines River, so many have installed landscaping features on and around the berm as this technically is their property. The analysis of the Riverwoods storm sewer system shows that the storm systems are undersized for even a 10-year event and that the area also lacks natural drainage paths for water to drain to the Des Plaines River.

In order to address these issues the following projects would need to be undertaken:

1. Stabilization and rehabilitation of the Des Plaines River Berm – This project would involve clearing invasive species, restoring portions of the berm that have eroded away, clearing vegetation to allow for new vegetation to take root, and removing/reinstalling drainage pipes that have compromised the berms construction. This work would require the Village to secure property easements so that construction could take place and the area could be maintained by the Village in perpetuity. A decision would also need to be made as to the method that would be used to secure these easements (ie. Use of eminent domain). Some funding for engineering/construction of these improvements is in the current Capital Plan.
2. Detailed analysis of the Riverwoods subdivision drainage system – This project would involve the evaluation of a series of improvements to the storm sewer system and drainage ways to address deficiencies and provide a better method for utilizing pumps to keep critical areas passable during larger rain events. Improvements could then be prioritized and constructed as determined by the Village. There is currently no funding for any further analysis/storm sewer improvements in the current Capital Plan.