

VILLAGE OF DOWNERS GROVE
REPORT FOR THE VILLAGE COUNCIL WORKSHOP
NOVEMBER 14, 2006 AGENDA

SUBJECT:	TYPE:	SUBMITTED BY:
Acceptance of the Stormwater Master Plan	Resolution Ordinance ✓ Motion Discussion Only	David H. Barber, PE Director of Public Works

SYNOPSIS

A motion is requested to accept the Stormwater Master Plan.

STRATEGIC PLAN ALIGNMENT

The Village Goals for 2011 include *Top Quality Infrastructure and Facilities* and *Preservation of our Residential and Neighborhood Character*.

FISCAL IMPACT

There will be no specific impact financially to the acceptance of the report. Actual implementation of the recommendations which will be brought forward to Village Council for discussion at a later date may require an increase in the operating budget for the maintenance of the Village's Storm Sewer System and increased funding of the Community Investment Program to allow for the construction of storm water system improvements.

RECOMMENDATION

Approval on the November 21, 2006 consent agenda.

BACKGROUND*History of Stormwater Master Plan Update Project*

In 2003 the Stormwater & Flood Plain Oversight Commission explored the possibility of creating a Stormwater utility to provide for appropriate operation and maintenance of the Village's storm sewer system. It was the consensus of the Commission that regardless of whether the actual utility was created a review of the Storm Sewer System operating programs and capital requirements should be completed. A master plan was selected as the way to provide this critical information.

In 2004 a scope of work was created to provide for a review of the Village's storm sewer system and firms were requested to submit qualifications and proposals for providing this system review and update. Clark Dietz was hired by the Village to perform this work. The Stormwater Master Plan was presented to the Stormwater & Flood Plain Oversight Commission and the document was discussed on September 28, 2006 and on October 24, 2006. At the October meeting the Commission voted to recommend to the Village Council the acceptance of the Stormwater Master Plan Update dated September 2006 prepared by Clark Dietz Engineers and they also approved the Stormwater Master Plan Implementation Action Summary.

The final report is split into two sections. The first is a summary report that provides the findings of the overall study. This section of the report provides an Introduction explaining the background of the study, a Problem Understanding section providing an overview of the Stormwater survey results and the current systems, and the last section is the Recommendations section that provides the Village with direction to

improve system operating performance in several areas. The more detailed investigations are included in the Appendix to the report and in Technical Memoranda are provided on several aspects of the study.

The Master Plan contains several recommendations. Based on the recommendations, staff prepared the attached Implementation Summary. Key recommendations are as follows:

- Create a GIS based map of the stormwater system
- Design and construct neighborhood stormwater storage facilities
- Prepare Basin studies to determine specific system deficiencies and recommended improvement projects
- Develop and implement a proactive maintenance program
- Identify methods to fund the recommended improvement projects and on-going maintenance
- Evaluate impacts of increased impervious areas due to redevelopment and investigate limiting impervious areas on lots.

The recommendations and implementation strategy are consistent with the motion regarding stormwater system improvements approved by the Village Council on November 7, 2006.

ATTACHMENTS

Stormwater Master Plan Implementation Summary

Stormwater Master Plan Implementation Action Summary

I. MAINTENANCE ACTIVITIES

ACTION ITEM NO.	RECOMMENDED ACTION	COMMENTS
A	Program Development	
A1	Develop annual workplan of activities	
A2	Implement Workorder Maintenance System (with GIS Link)	
A3	Develop inspection program (system walk-through)	
B	System Mapping	
B1	Develop system map that includes all system components	
B2	Maintain system mapping	
C	Storm Sewers	
C1	Increase Sewer Cleaning Program (5-year cycle)	
C2	Purchase sewer jet truck	Budgeted in FY2007
C3	Increase TV Inspection Program (5-year cycle)	
C4	Upgrade sewer TV camera & software	Budgeted in FY2007
C5	Perform structure maintenance (5 year cycle)	
D	Street Sweeping	
D1	Contract for street sweeping	
E	Roadside Ditches	
E1	Upgrade Roadside Ditching Program (10-year cycle)	
F	Streams and Wetlands	
F1	Remove debris blockages from channels (5-year cycle)	
F2	Implement stream and wetland management program	
F3	Perform inspections and routine maintenance annually	
G	Storage Facilities	
G1	Inspect and maintain Village-owned facilities annually	
G2	Inspect private facilities (5-year cycle)	

II. CAPITAL IMPROVEMENT PLAN

ACTION ITEM NO.	RECOMMENDED ACTION	COMMENTS
A	Initial work on stream design	
B	Implement priority projects	
C	Implement basin studies to develop basin plans	
D	Develop long range Capital Investment Plan	
E	Address safety issues related to various system components	

III. RULES & STANDARDS

ACTION ITEM NO.	RECOMMENDED ACTION	COMMENTS
A	Complete System Design & Construction Standards	
B	Implement NPDES Phase II Requirements	
C	Address TMDL Requirements for DuPage River	
D	Initiate BMP Programs	
E	Develop Public Education Program/Web Site Update	
F	Enhance permit and inspection program	
G	Evaluate stormwater conveyance impact fee.	
H	Explore impervious surface lot coverage limits.	

IV. PROGRAM FUNDING

ACTION ITEM NO.	RECOMMENDED ACTION	COMMENTS
A	Review Funding Options	
B	Develop Financial Options	
C	Develop Implementation Plan	