# Local Drainage Presentation Bowes Bend Subdivision Plato Twp 

Kane County Water Resources
November 7, 2017

## Water Resources Division

## Location

- Government Center
- Building A
- South end of $1^{\text {st }}$ Floor

Ken Anderson

- Director Water Resources
- Stormwater Ordinance Administrator for Unincorporated Kane County


## Water Resources Division Programs

Stormwater \& Floodplain Ordinance Enforcement

## All Water Resources Division <br> Programs relate to unincorporated Kane County including rural subdivisions

Local Drainage Cost Share Drainage Program

Water Supply Planning \& Conservation

## Water Resources Division

Stormwater and Engineering Plan Reviews


- Stormwater and Floodplain

Ordinance Enforcement

- New developments
- Unincorporated Kane County
- Long Term Stormwater Maintenance Plan (9-131)


## Water Resources Division

## Division Programs

Stormwater and Engineering Plan Reviews


## Water Resources Division

## Division Programs

## STATE OF ILLINOIS <br> county of kane

## ORDINANCE NO. 12-299

AN ORDINANCE ESTABLISHING THE SEROSUN FARMS SPECIAL SERVICE AREA (or SPECIAL SERVICE AREA NO. SW-49) KANE COUNTY, ILLINOIS AND PROVIDING FOR THE LEY OF TAXES FOR THE PURPOSE OF PAYING THE COST OF
PROVIDING SPECIAL SERVICES IN AND FOR SUCH AREA WHEREAS, a Preliminary pla of subdivision has been approved by
(the "County"), for the Serosun Farms
ubdivision (the "Subdivision"); and

WHEREAS, in accordance with th Kane County Stormwater Ordinance, the Subdivisio will be WHEREAS, in accordance with the Kane County Stormwater Ordinance, the Subdivision will be
and may also include special management areas, all of improved with a stormwater drainage syste, and may also include special management areas, all of
which will be conveyed to the Serosun 'arms Homeowners' Association (the "Homeowners' which will be conveyed to the Serosun arms Homeowners
Association"), a duly incorporated homeowners ssociation; and

WHEREAS, the Homeowners' Association s obligated to maintain the stormwater drainage ystem and special management areas and to impose an assessment upon the owners of all of the lots within the Subdivision to provide for the maintenance o such stormwater drainage system and special management areas; and

WHEREAS, the Kane County Stormwater Ordinance equires, as a condition of approval of the application for a stormwater management permit for the Su, ivision, the establishment of a special
sevice area pursuant to 35 ILCS $200 / 27-5$, et seq., elther as ong-term maintenance of the stormwater drainage system and pecial management areas, or as a WHEREAS, pursuant to the provisions of Article VII, Section 7, rot (6) of the 1970 Constitution WHEREAS, pursuant to the provisions of Articie VII, Section 7, rt (6) of the 1970 constiution
of the State of Ilinnisis (the "Constitution", the County of Kane is authon ed to create special service
areas in and for the unincorporated areas of the County; and

WHEREAS, pursuant to the "Special Service Area Tax Law", 35 ILCS - $/ 27-5$, et seq. (2003),

## o Establish Special Service Areas

- For long-term stormwater maintenance
- In new, unincorporated subdivisions

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AND PROVIDING FOR THE LEVY OF TAXES FOR THE PURPOSE OF PAYING THE COST OF PROVIDING SPECIAL SERVICES IN AND FOR SUCH AREA

## Water Resources Division

## Local Drainage - Cost-Share Drainage Programs

- Solve residential drainage problems, with technical assistance and shared funding (if eligible) in unincorporated Kane County and in small municipalities Bring together residents, township road districts and the county


EVENING PRAIRIE SUBDIVISION
CAMPTON TOWNSHP


SHIREWOA

## Water Resources Division

## Division Procrams

## Local Drainage - Cost-Share Drainage Programs

Long Term Maintenance Plan: HOA?
SSA - Petition County -since 2011 Sunvale Middlecreek
Shirewood
Ogden Gardens
Wildwood West
Savanna Lakes
Cheval De Selle Venetian Cheval De Selle Citation Plank Road Estates
Exposition View Pasadena Drive
Tamara Heights


## Water Resources Division

## DVVSBen Droeronns

Local Drainage - Bowes Bend Platted in 1978-79


## Water Resources Division

## Divison proerems

Local Drainage - Bowes Bend in 1985


Note: drainage channels

## Water Resources Division

## Division Programs

Local Drainage - Bowes Bend in 2016


## Water Resources Division

Division Programs

## Local Drainage - Bowes Bend

Two Components of Drainage System

1. Subsurface Drainage System
a. Controls groundwater to help septic fields and basements
b. Consists of underdrains
2. Surface Drainage System
a. Protects property from floods
b. Consists of ditches, culverts and Bowes Creek


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## Water Resources Division

## Division proerems

## Subsurface Drainage System - Bowes Bend

O 1999 Cost-Share project completed on Channel Court totaling \$6,590

- 2001 Drainage Complaint Meeting held for Current Court area
- 2007 failure on Channel Court system repair funded by $09 N 815$ Channel in the amount of $\$ 25,000$ to date. Significant investment in drainage system made by 9 N830 Channel and 41 W081 Current.
O Investigation completed by County and Township in 2017 and observation manhole installed on Current Court System
O Cost-Share project completed at Channel and Bowes with Township Road District and homeowners in 2017


## Water Resources Division

Subsurface Drainage System - Bowes Bend
O Total project cost to address Current Ct subsurface system is $\$ 85,000$
O If Cost-Share funds are available in 2019, project split would be $1 / 3$ for Township, County and Bowes Bend residents
O Total contribution would be \$28,300 each

- Should individual lot owners be responsible for subsurface drainage on their lot or should the subdivision as a whole collectively fund projects?
O We need to look at the whole picture and then decide as subsurface drainage is only part of what needs to be considered.


## Water Resources Division

## Division progrems

Surface Drainage System Lot 88 - Bowes Bend


## Water Resources Division

Surface Drainage System Lot 88 - Bowes Bend

O Owned $1 / 24$ by Lots $21,23 \& 24$ in the original Bowes Bend, and lots $53,54,55,64,65$, and 67 through 77 in the First Addition to Bowes Bend

O Under Illinois Drainage Law, owners are responsible for maintenance of drainage on property
O Nov 2017 inspection indicated Bowes Creek in fair condition

## Water Resources Division

Division Programs
Lot 88 - Bowes Bend - Specific Recommendations


Blockages from fallen trees should be removed out of the creek


## Water Resources Division

Division Programs
Lot 88 - Bowes Bend - Specific Recommendations


Drainage ditches constructed with subdivision should be cleared


## Water Resources Division

Division Programs
Lot 88 - Bowes Bend - General Recommendations


Brush piles need to be removed out of the floodplain


## Water Resources Division

## Division Procrams

## Lot 88 - Bowes Bend - General Recommendations



Native cone flowers and black eye susan planted along bank with deep root systems


## Water Resources Division

## Bowes Bend 2018 Recommendations

O Work with the Forest Preserve, Road District and Owner of 9N736 Bowes Bend to construct new pipe from Forest Preserve to east side of Bowes Bend Drive and install bubble- up structure into ditch

- Cost-Share Recommended:
- Forest Preserve: \$7,025
- Plato Road District: \$6,470
- Bowes Bend Resident Share: \$6,800
- Note costs do not include landscaping, each owner would be responsible to complete landscaping


## Water Resources Division

## Bowes Bend 2018 Recommendations

O Kane County to leverage upstream costshare improvements to begin downstream work

O Cost-Share Recommended:

- Upstream Cost-Share Contribution \$20,295
- Kane County Downstream Cost-Share Contribution \$20,295 (as funds are available, \$10,000 in 2018 budget for Bowes)


## Water Resources Division

## Division progrems

## Bowes Bend 2018 Recommendations

- Bowes Bend Residents should strongly consider petitioning the Coun Board to establish an SSA for long term stormwater maintenance needs that would include major drainage ditches between lots and Bowes Creek. Residents should discuss future maintenance needs of newly re-built drain tiles and whether long term maintenance of those should be included as well
- SSA can be tiered so 24 owners have greater responsibility regarding creek and owners with tiles greater responsibility with tile maintenance
O County requires a minimum of $51 \%$ of all registered voters to sign the petition
- SSA's take about 9 months to create
- With 87 lots in total, a yearly amount of $\$ 100$ per lot would result in $\$ 8,700$ per year. Typically sudivisions maintain a balance of \$5,000-\$10,000 after initial work is complete.
- SSA is subject to approval of Chairman's Financial Committee


## Water Resources Division

Local Drainage - Bowes Bend

O Questions?
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