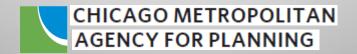


Hala A. Ahmed, AICP January 18, 2011



Center for Watershed Protection Code & Ordinance Worksheet

- In-depth review of development rules
- Comparison of local development rules against model development principles
- Institutional frameworks, regulatory structures & incentive programs
- Point assigned on how well current development rules agree with model development principles

Key Documents

Table 1: Key Local Documents that will be Needed to Complete the COW

Zoning Ordinance

Subdivision Codes

Street Standards or Road Design Manual

Parking Requirements

Building and Fire Regulations/Standards

Stormwater Management or Drainage Criteria

Buffer or Floodplain Regulations

Environmental Regulations

Tree Protection or Landscaping Ordinance

Erosion and Sediment Control Ordinances

Public Fire Defense Masterplans

Grading Ordinance

Methodology

- Worksheet: 77 site planning benchmarks
- Benchmarks posed as questions- Yes/No
- Answer by referring to relevant code/ordinance
- Points awarded when development rule agrees with site planning benchmark
- A score sheet is provided to assist in determining where community score places in respect to model development principles

	Development Feature	
	Street Width	
	What is the minimum pavement width allowed for streets in low density residential developments that have less than 500 daily trips (ADT)?	feet
	If your answer is between 18-22 feet, give yourself 4 points • •	
	At higher densities are parking lanes allowed to also serve as traffic lanes (i.e., queuing streets)?	YES
	If your answer is YES, give yourself 3 points • •	
Vote	s on Street Width (include source documentation such as name of document, section and pa	ge #):
2.	Street Length	
	Do street standards promote the most efficient street layouts that reduce overall street length?	YES
	If your answer is YES, give yourself 1 point • •	
Vote	s on Street Length (include source documentation such as name of document, section and p	age #):
 3.	Right-of-Way Width	
	What is the minimum right of way (ROW) width for a residential street?	feet
	If your answer is less than 45 feet, give yourself 3 points • •	
	Does the code allow utilities to be placed under the paved section of the ROW?	YES
Note	If your answer is YES, give yourself 1 point •• s on ROW Width (include source documentation such as name of document, section and page	ge #):
1.	Cul-de-Sacs	
	What is the minimum radius allowed for cul-de-sacs? If your answer is less than 35 feet, give yourself 3 points • •	feet
	If your answer is 36 feet to 45 feet, give yourself 1 point • •	
	ii your answer is 30 feet to 45 feet, give yourself I point	
	Can a landscaped island be created within the cul-de-sac?	YES
		YES
	Can a landscaped island be created within the cul-de-sac?	
	Can a landscaped island be created within the cul-de-sac? If your answer is YES, give yourself 1 point • • Are alternative turnarounds such as "hammerheads" allowed on short streets in low	

	Development Feature			
	Parking Lots			
	What is the minimum stall width for a standard parking space?	feet		
	If your answer is 9 feet or less, give yourself 1 point • •			
	What is the minimum stall length for a standard parking space?	feet		
	If your answer is 18 feet or less, give yourself 1 point • •			
	Are at least 30% of the spaces at larger commercial parking lots required to have smaller dimensions for compact cars?	YES		
	If your answer is YES, give yourself 1 point ••			
	Can pervious materials be used for spillover parking areas?	YES		
	If your answer is YES, give yourself 2 points • •			
Note	s on Parking Lots (include source documentation such as name of document, section and pa	age #):		
		-		
9.	Structured Parking			
	Are there any incentives to developers to provide parking within garages rather tha surface parking lots?	YES		
	If your answer is YES, give yourself 1 point • •			
Note	s on Structured Parking (include source documentation such as name of document, section			
	5 of Structured Farking (include source documentation such as name of document, section	and page #):		
	5 of Ottocured 1 arking (include source documentation such as name of document, section	and page #):		
10.	Parking Lot Runoff	and page #):		
		and page #): YES		
	Parking Lot Runoff			
	Parking Lot Runoff Is a minimum percentage of a parking lot required to be landscaped?	YES		
	Parking Lot Runoff Is a minimum percentage of a parking lot required to be landscaped? If your answer is YES, give yourself 2 points • • Is the use of bioretention islands and other stormwater practices within landscaped	YES		

	Development Feature	Your Local Criteria		
ı				
22	Stormwater Outfalls	YES		
	Is stormwater required to be treated for quality before it is discharged?	TES		
	If your answer is YES, give yourself 2 points • •			
	Are there effective design criteria for stormwater best management practic (BMPs)?	es YES		
	If your answer is YES, give yourself 1 point • •			
	Can stormwater be directly discharges into a jurisdictional wetland without pretreatment?	YES		
	If your answer is NO, give yourself 1 point • •			
	Does a floodplain management ordinance that restricts or prohibits develop within the 100-year floodplain exist?	oment YES		
	If your answer is YES, give yourself 2 points • •			
No	otes on Stormwater Outfalls (include source documentation such as name of docume	nt, section and page #):		
Code and Ordinance Worksheet Subtotal Page 13 Time to Assess: Principles 17 through 22 addressed the codes and ordinances that promote (or impede) protection of existing natural areas and incorporation of open spaces into new development. There were a				
total of 24 points available for Principles 17 - 22. What was your total score?				
	Subtotal Page 11 0 + Subtotal Page 12 0 + Subtotal Page 13	3 0 = 0		
Where were your codes and ordinances most in line with the principles? What codes and ordinances are potential impediments to better development?				
	To determine England and the Little Court & Court A - A -			
	To determine final score, add up subtotal from each • Time to As Principles 1 - 10 (Pa			
	Principles 11 - 16 (Pag			
	Principles 17 - 22 (Pag	,		
	тс	OTAL 0		

Score Sheet

Your Community's Score					
80 - 89	Your local development rules are pretty good, but could use some tweaking in some areas.				
79 - 70	Significant opportunities exist to improve your development rules. Consider creating a site planning roundtable.				
60 - 69	Development rules are inadequate to protect your local aquatic resources. A site planning roundtable would be very useful.				
less than 60	Your development rules definitely are not environmentally friendly. Serious reform of the development rules is needed				

Kane & Kendall Counties Stormwater Management Ordinances

Kane (1/1/2005)

- Volume Control:
 - Runoff from 0.75" rainfall event to be stored below the primary outlet
- Water Quality Control
 - Native wetland plantings
- Release Rates:
 - 100 year: 0.10 cfs/acre

Kendall (10/2002)

- Volume Control: N/A
- Water Quality Control:
 - Minimize impervious surfaces, preserve natural features/planting, infiltration, wet detention.
- Release Rates:
 - 2 year: 0.04 cfs/acre
 - 100 year: 0.15 cfs/acre
- Unincorporated Only

3/7/2011

Water Quality Measures- Kane Co.

- Credit for various GI practices or for reducing the amount of connected impervious areas in the detention requirement calculations
- Stormwater BMPs may be implemented in lieu of traditional detention practices for developments which require less than 1 acrefoot of detention

Water Quality Measures- Kendall Co.

- Infiltration, retention and use of native plantings
- Preference given to wet bottom and wetland designs for stormwater storage facilities
- Incorporation of multiple uses for stormwater management e.g. open space, aquatic habitat, recreation

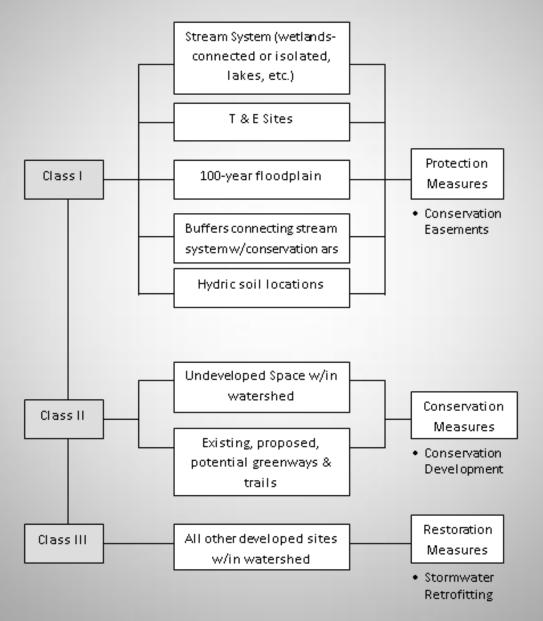
Open Space Reserve

- Landscape features that contain and connect natural areas and other natural resources
- Network that preserves natural functions while permitting other uses, e.g. ag or urban uses
- Areas where resource protection efforts should be concentrated
- Why: positive relationship between natural land cover in watershed and health of aquatic communities- IBI

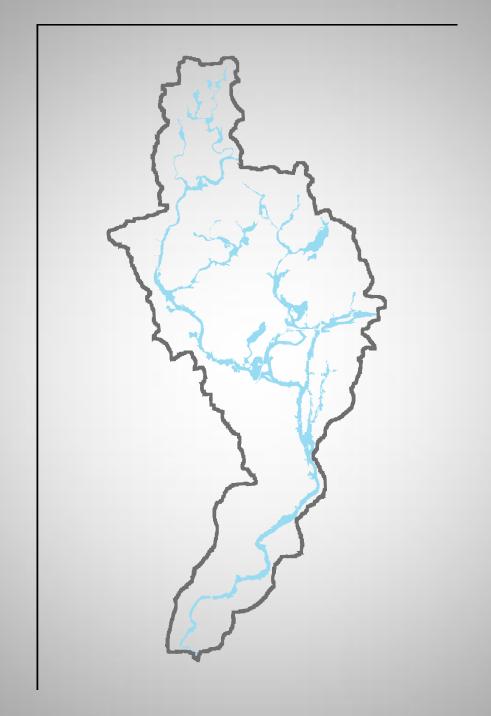
Open Space Reserve

- Restoration of important natural areas
- Creation of forested stream buffer where inadequate
- Legal protection of important natural areas
- Reconstruction of streamside wetlands
- Stream restoration and instream habitat improvement

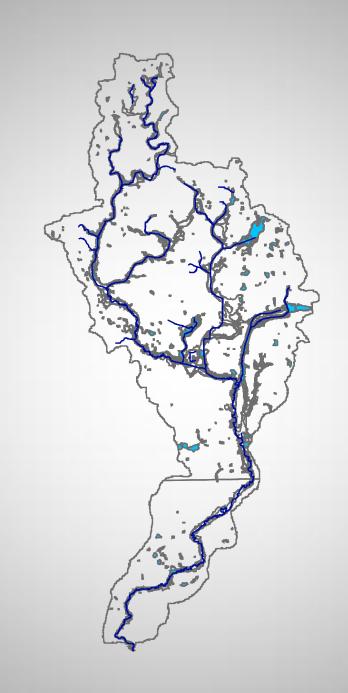
Open Space Reserve



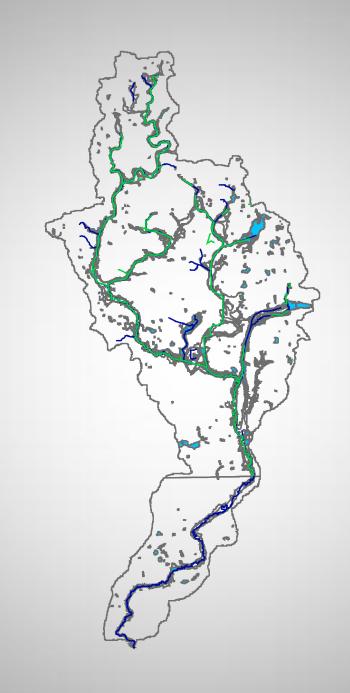
BBC 100-year Floodplain (FEMA- '10)



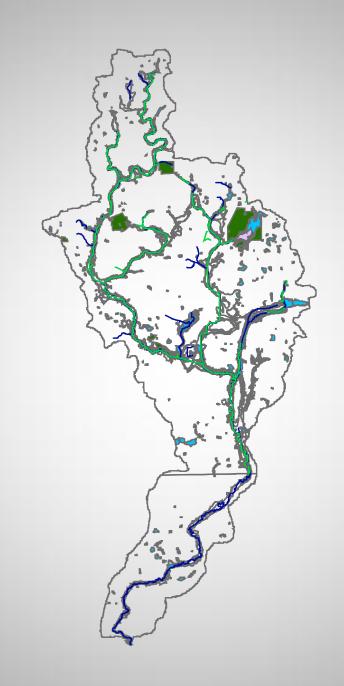
BBC Streams and Wetlands (NHD & NWI)



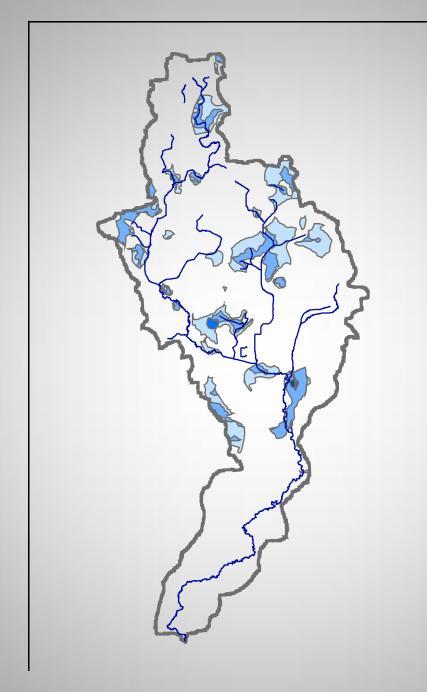
Kane Co. ADID Streams (Kane Co.)



Kane Co. ADID
Open Waters
and IL Natural
Areas Inventory
Sites (IDNR)

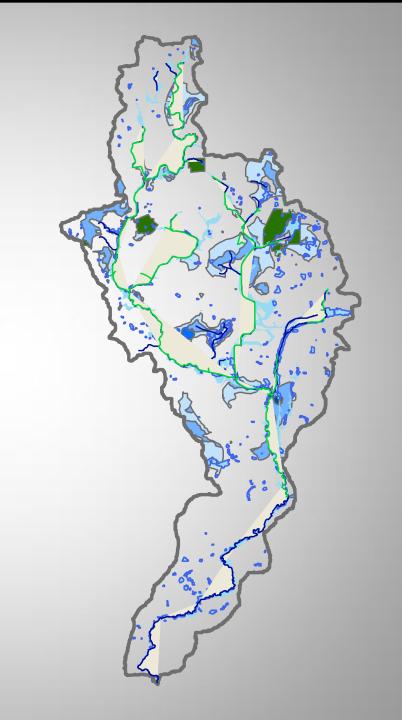


Kane Co. Aquifer Sensitivity (Kane Co. Water Resources)



Legend BB_KANE_ADID_Streams BB_Streams blackberry-watershed BB_KANE_ADID_OpenWater BB_Wetland BB_Floodplain <all other values> FLD_ZONE Α AE BB_INAI **BB_KANE_AqSensitivity** <all other values> aq_sens **A1** A2 **A3**

A4



Questions/Comments/Suggestions?

Thank you
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