Blackberry Creek Watershed



Zoning Code Analysis and Ordinance Language Recommendations

City of Aurora Report

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CONSERVATION DESIGN FORUM

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Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Introduction

The Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project is a continuation of ongoing efforts to reduce the negative impacts of stormwater and improve the quality of life in the Blackberry Creek Watershed. These efforts have begun with the Blackberry Creek Watershed Management Plan and continued with the Kane County Stormwater Ordinance, and the recently completed Blackberry Creek Watershed Alternative Futures Analysis Project.

Project Purpose: The purpose of this ordinance language project was to provide suggested ordinance revisions to each of the municipalities and counties located within the Blackberry Creek Watershed. Particular attention was paid to zoning and subdivision ordinances and specifically those codes that can influence stormwater runoff and therefore stormwater impacts to the natural and built environments. While the Kane County Stormwater Ordinance establishes standards for managing stormwater, once it has been generated, the ordinance has little authority to <u>prevent</u> stormwater runoff through land use controls. Conversely, local subdivision and zoning codes can have a significant influence on the amount of runoff generated through street width standards, parking and open space requirements, etc. Thus, rather than focusing on standards already addressed in Kane County's Stormwater Ordinance, this ordinance project suggests standards and codes for facets of development outside the realm and authority of the Stormwater Ordinance.

This project recommends changes to subdivision and zoning code for each of the municipalities and counties in the Blackberry Creek Watershed. While the recommended changes are strongly encouraged and have the potential to provide significant protection for the Blackberry Creek Watershed, it is recognized that municipalities and counties have many issues and concerns that must be balanced when creating development standards. Thus, it should be understood that these are only recommendations and that they must be reviewed in light of overall community conditions and relationships to other community standards prior to adoption.

Background: Stormwater is a significant issue in the Blackberry Creek Watershed, as evidenced by the over \$14 million in flood damages associated with the 1996 flood as reported in the Blackberry Creek Watershed Management Plan. In response to the 1996 flood, the Watershed Management Plan for Blackberry Creek was prepared and adopted by the watershed communities and Kane and Kendall Counties in 1999. Several jurisdictions have taken additional initiative to develop specific codes and ordinances that help orient new development towards conservation design, including the City of Aurora's Countryside Vision Plan, Elburn's and Sugar Grove's stream and wetland protection ordinance, and Kendall County's revised conservation-oriented residential zoning code.

Even with these individual efforts, the watershed still remains at risk, as discussed in the Blackberry Creek Alternative Futures Analysis report (2003), unless a coordinated program is developed for addressing stormwater impacts on watershed systems. This project is intended to provide the tools to address the gap between stormwater ordinances and subdivision and zoning code. This was done by researching model codes and standards from around the nation, analyzing local ordinances in the Blackberry Creek Watershed, and providing recommended language for each municipality and county in the watershed. This report presents the recommended language. **Project Participants:** The Blackberry Creek Watershed contains seven municipalities and two counties, including Aurora, Batavia, Elburn, Montgomery, North Aurora, Sugar Grove, Yorkville, and Kane and Kendall Counties. Reports such as this were prepared for each community and each report is specific to the codes and ordinances of that community. In addition to the specific recommendations, summaries of the models used in preparing these recommendations are also provided so that each community has the opportunity to see exactly how model codes and the research centers from around the country are addressing similar issues through the creation and adoption of innovative ordinances and development standards. This report is designed to provide the necessary tools for each community to update its own codes.

Project Process

This project included several tasks to develop model codes and ordinance language specifically for each community.

- (1) Research Model Codes The first task for the project team included the collection of over 40 model code resources relevant to reducing natural resource impacts of urban development. These resources were collected from agencies and organizations around the nation. A reference list from the research can be found in Appendix A and the results are integrated into Tables 1 and Table 2 of this report.
- (2) **Review and Analyze Municipal and County Subdivision and Zoning Ordinances** After the model codes were reviewed and summarized, existing zoning and subdivision ordinances for each of the jurisdictions in the watershed were analyzed. The results of this analysis were used to identify areas where the municipality or the county may wish to revise its code to reduce development impacts to the Blackberry Creek Watershed. Each community was sent their code summary for review and correction. The results were presented to the participating entities to allow them to compare their codes and standards to those of their neighboring communities. The final summarized codes and standards can be found in **Appendix B** of this report.
- (3) Meet with Participating Entities to Discuss Model Code Language A meeting was held with representatives from the various communities and the two counties to review the model standards and receive additional comments before the final reports were developed. Comments given during and after the meeting were inserted into the model language tables.
- (4) **Create Draft Final Report for Review** To ensure that the recommended code changes were communicated in a readily usable format, a draft of the final report table was created and sent to all participants for their review and comment. Once a majority of the participants responded that the format was acceptable, the final phase was begun.
- (5) **Preparation and Dissemination of Final Model Language Reports** Recommended changes to subdivision and zoning code were prepared for each community and compiled into individual reports in table format as explained in more detail below.

How to Use This Report

Current Codes and Recommended Code Revisions Table (Table 1)

Table 1 summarizes existing code and recommended code revisions for City of Aurora, following this introduction and a short narrative of the findings regarding City of Aurora's current codes and ordinances. Also included in Table 1 are the corresponding references used to establish the recommended changes.

Table 1 is divided into five columns, each described below:

- Column 1. No. The first column numbers every item in the code/standard categories that are described in the Column 2.
- **Column 2.** Code/Standard Categories The second column lists six major categories and general topic areas related to development and to which the model language recommendations apply. The six major categories include:
 - 1) Alternative Stormwater Standards,
 - 2) Environmental Standards,
 - 3) Landscape Standards,
 - 4) Parking Requirements,
 - 5) Transportation Requirements, and
 - **6)** Zoning/Subdivision Standards.

Within the major categories above, more specific detailed category areas (or minor categories) are provided (e.g., parking lot landscape requirements, street widths, etc.) and numbered in Column 1.

- Column 3. Local Code Reference If the community's existing codes and ordinances address the category area in the second column, the location of that language within the community's code is referenced in the third column. If the code does not address the category, then an appropriate location for inserting the recommended language within the codes was identified and listed in this column (e.g., Subdivision Code Section 19.72 – 3).
- Column 4. Current Standard The forth column briefly summarizes the community's current language or standard (e.g., bike trails must be a minimum of 8 feet wide). If the community's current code does not address this particular standard, then "N/A" or Not Applicable is indicated.
- Column 5. Recommended Standard/Action The fifth column contains the recommended language for insertion into the community's ordinance (e.g., credit will be given for available on-street parking...). In cases where a standard from the model code research was not applicable, a recommended action is listed (e.g., Adapt a permit process to expedite conservation-oriented designs.) There are a number of locations where wording options are provided (i.e., require/allow) depending on the community's preference.
- Column 6. Source The last column simply lists the sources of the suggested language (e.g., 12:126 – Reference No. 12, page 126). See Appendix A of this report for a full list of references.

Recommended Transportation Standards Table (Table 2)

The transportation section of the recommended code was sufficiently complex that additional detail was provided in a separate table with references to it in Table 1. The Table 2 lists recommended street width and bike lane standards and their sources. The model code sources recommend using Average Daily Trips (ADT) for assigning appropriate street widths rather than basing width on a street hierarchy system. Thus, the Table 2 standards are based on ADT.

Recommendations Summary

The following is a brief summary of our analysis of the City of Aurora's currently adopted subdivision and zoning codes (current as of the beginning of this project in the summer of 2002). It is understood that the City is currently redeveloping its subdivision and zoning ordinances. Even so, this summary will provide insight into the rational behind the code changes that are recommended in Table 1.

1. Alternative Stormwater

The City of Aurora has already adopted the Kane County stormwater ordinance that covers most of developments' direct stormwater impacts in both municipal and unincorporated areas. Because of this, the Alternative Stormwater Standards is the least detailed portion of this report. Also, the Kane County Environmental Management Department is currently evaluating its runoff reduction (0.75 inches per impervious acre) and release rate standards and is updating the Stormwater Manual to include infiltration and bioretention stormwater management measures. The recommendations in this section, as well as the other sections are primarily focused on allowing or requiring these techniques.

General Recommendations: The Kane County Stormwater Ordinance as adopted in the City of Aurora already addresses stormwater standards. The language provided here is intended to facilitate and encourage use of biofiltration techniques (bioswales, rain gardens, etc.) to address street and roof runoff, many of which are identified in the City's Countryside Vision Plan.

The language also suggests a stormwater impact fee to provide an incentive for reducing the effective impervious area (hydraulically connected impervious area) of a site and therefore the amount of runoff. This is a short recommendation that would require significant additional study prior to implementation. However, programs like this have completely changed the economics of stormwater in Germany. Methods of "disconnecting" impervious area include use of permeable paving, green roofs, and biofiltration techniques (bioswales, rain gardens, etc.).

2. Environmental Standards

The City of Aurora recently adopted the Countryside Vision Plan, which identifies significant amounts of open space and conservation-oriented development. The City's Comprehensive Plan contains several policies that address environmental issues, which is necessary if the City plans to adopt supporting regulations. Beyond the Countywide stormwater ordinance, supporting regulations and standards currently do not exist.

This section focuses on protection, restoration, and management of natural areas. These recommendations address remnant landscapes as well as restored/created natural areas.

The Countywide Stormwater Ordinance already requires establishment of buffers along streams, lakes, and wetlands and already requires establishment of a responsible party. The language recommended in this section supplements those standards by suggesting additional activities that are outside the scope of the countywide stormwater authority.

The recommendations within this section are intended to provide more explicit standards for identification, protection, and management of natural areas. In some cases natural areas will be remnant landscapes. In other cases, natural areas may be created or restored landscapes intended to appear and function like native landscapes such as prairies, woodlands, or wetlands.

General Recommendations: The County version of this report recommends creation of a Countywide Natural Areas Overlay District that identifies aquatic, as well as upland, resources to be protected along with their buffers. The City should participate in development of this district and apply open space zoning to the area covered by the District.

Standards and criteria for open space areas designated in development plans should are recommended. The standards and criteria address identification of potential open space, allowable uses and cover within the open space, buffer transitions, and other design elements.

Preparation of management plans should be required for areas designated as open space within development plans and revenue sources for management activities should be institutionalized.

3. Landscape Standards

The City of Aurora already has tree removal permitting, tree planting and street-side landscaping requirements. Many stormwater management measures can be incorporated into landscape areas. These features include biofiltration swales, rain gardens, and filter strips. Also, the type of landscape can influence the amount and rate of runoff.

General Recommendations: It is recommended that parking lot islands and other landscape features be required, which will encourage use of parking lot biofiltration. Language to specifically allow/require integration of biofiltration into parking islands and street side landscape strips (a.k.a. parkway, tree lawn, etc.) should also be considered.

Expansion of tree protection language is recommended to provide protection of other beneficial vegetation and also to allow removal of trees where appropriate for proper forest/natural area management. A survey of significant vegetation should be required to assist the City in its development review process.

4. Parking Requirements

Parking facilities often create large impervious surfaces that result in an increase of stormwater runoff and related water quality issues. Reduced parking area and alternative porous paving materials can help to reduce impervious surfaces and encourage infiltration and groundwater recharge. Coordination of parking needs between adjacent and nearby uses, and the provision of bicycle parking where appropriate can help to alleviate the need for overly large parking areas as well.

General Recommendations: Parking standards can be updated to meet current trends towards shared parking, parking credit programs, and parking for non-motorized vehicles (recommended bicycle parking ratios are provided). Specific language to allow permeable parking surfaces such as interlocking concrete pavers, porous asphalt, and porous concrete is recommended. These types of permeable paving systems have been shown to be as durable as conventional asphalt and concrete paving and need not be limited to overflow parking areas.

5. Transportation Requirements

A significant proportion of the impervious surfaces and sources of stormwater impacts is related to streets and highways. Limiting the amount of impervious cover to that which is necessary and to the most appropriate areas is a key to ecologically sensitive design. The City of Aurora has obviously attempted to balance quality of life issues with the benefits of connectivity and walkability, through requirements for sidewalks in the subdivision code and pedestrian easements described in the Comprehensive Plan.

General Recommendations: More explicit design standards for street width, along with allowances for street designs that utilize naturalized stormwater infiltration and conveyance systems should be incorporated into current codes. Also, since stream crossings can cause significant stream impacts, recommended standards related to the number of crossings and the design of crossings are provided.

As outlined in Table 2, pavement width, the number of drive lanes, the presence of bike lanes and parking lanes should be based on average daily trips as well as the type of road. Where traffic counts are high, separate bike lanes should be provided to allow for safe use of bicycles as an alternative means of transportation. Also, because wider drive lanes can encourage higher speeds, narrower lanes are recommended for local roads with low traffic counts.

6. Zoning/Subdivision

The City of Aurora's Countryside Vision Plan will help to ensure open space preservation, impervious areas reduction, compact housing, and the preservation of native landscaping on the western edge of the City. Appropriate codes and ordinances will help to ensure that the vision is realized.

While the low densities of the Countryside Plan may not be appropriate for all areas of the City, many of the conservation and stormwater principals can and should apply to any density of development. Although clustering is discussed in the City's comprehensive plan, there are no codes to manage and control clustering.

As discussed under environmental standards, the countywide stormwater ordinance provides authority to protect water related resources such as streams, lakes, wetlands, and floodplains but does not have authority to protect other potential site resources such as remnant uplands, wildlife connectors, agricultural land, and cultural resources. However, through other measures that fall under zoning and subdivision authority, protection of these areas can be required and/or incentives provided.

General Recommendations: The recommended site planning process is to perform a site capacity analysis based on the remaining developable land after removing floodplains, streams, wetlands, and other undevelopable land. Once the developable land is identified, additional resources that should be considered for protection should be identified. Then cluster approaches may be used to protect these additional resources. Also, density bonuses can be given to further facilitate protection of these areas.

Site yield calculations should be required to determine the potential number of units that the site can accommodate after removing undevelopable land. This allows for a more objective analysis of the number of units that the zoning allows and the starting point for density bonuses that may allow for additional lots. It is recommended that lot sizes as specified in the zoning code be used to determine site yield but reductions in actual lot size be allowed to provide the required open space as described below.

Open space requirements that vary with development density are recommended. However, to encourage these practices, the recommended language allows the open space to be used for naturalized drainage. The recommendation also allows clustering to achieve the open space requirement.

With the above general summaries in mind, the following tables provide a more detailed description of the language that is recommended for consideration by The City of Aurora, along with the location in The City's codes and ordinances where it may be inserted.

	City of Aurora Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project							
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
ALTE	RNATIVE STORMWATER STAND	ARDS	•	•				
1	Alternative Detention/Infiltration Allowances	Subdivision Art. V	N/A	Native and perennial gardens are required/allowed where the landscape strip within public rights-of-way and public easements is used for bioretention/infiltration of stormwater.	12:Inf-41			
2	Rooftop Runoff Redirection	Subdivision Art. V	N/A	For roofs to be considered hydraulically disconnected impervious (for purposes of the stormwater ordinance), the roof runoff shall be directed to a cistern, rain garden or other area of sufficient size and permeability to produce no surface runoff for rainfall events up to 0.75 inches.	21 :126			
3	Stormwater Incentives - Fees	Subdivision Art. V	N/A	Impose stormwater impact fees on developers based on release of stormwater. European examples suggest a range of \$1,260 - \$2,860/acre-foot/year (Huert and Bielefeld, Germany). By applying the fee only to "hydraulically connected impervious surfaces" and providing standards for methods of hydraulically disconnecting impervious surfaces, there would be significant incentive to reduce runoff.	CDF			
ENV	RONMENTAL STANDARDS							
4	Buffer Management - Planning	Zoning Sec. 10.10	N/A	Management and preservation plans shall be prepared for all common open space areas and stormwater facilities. A revenue source (e.g., Special Service Area or backup SSA) shall be established to fund the recommended management activities. Where necessary management is not being conducted, the City may conduct those activities and draw on the identified revenue source to fund those activities.	13			
5	Floodplain Restrictions	Zoning Sec. 10.10	Prevent from development in Comp Plan Policy; Compensatory storage required for floodplain fill (Kane County stormwater ordinance)	Uses allowed within the flood fringe shall be limited to 1) Agriculture; 2) Public and private parks; 3) Passive recreation; 4) Fencing parallel to the direction of water flow; 5) Pervious parking lots subject to flooding depths no greater than 6 inches, 6) yard areas.	13: 16			
6	Natural Areas Plan Compliance	Zoning Sec. 10.10	Natural areas preservation encouraged in Comp Plan Policy	Development Plan shall comply with Natural Areas Overlay District (See Special Zoning for Environmentally Sensitive Areas)	12:CR-2			
7	Natural Areas Reclamation	Zoning Sec. 10.10	N/A	Any area designated as naturalized open space shall be planted and maintained with appropriate native vegetation where existing native vegetation does not exist or cannot be preserved.	46			
8	Open Space Design	Zoning Sec. 10.10	N/A	Officially approved naturalized open space shall be: 1) designed to conserve significant natural features and cultural elements on the site. 2) naturalized to consist of primarily native landscapes. 3) Interlinked with other open space. Passive recreation, farming, sewage treatment, and stormwater facilities may be allowed in these areas where these uses do not impact important natural features and where consistent with approved City plans.	13 :11			

	City of Aurora Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project								
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE				
9	Open Space Design - Approved Land Uses	Zoning Sec. 10.10	N/A	Officially approved naturalized open space may not include: 1) Roads and rights-of-way, 2) Parking, 3) Driveways and access ways (except to support passive uses such as parking, restrooms), etc., 4) Required setbacks (except for naturalized stream or wetland setbacks), 5) Private yards, 6) fragmented or isolated open space, and 7) Land that is subject to preexisting conservation easements or similar limitations on development.	13:11; 46				
10	Open Space Design - Phased Development Requirements	Zoning Sec. 10.10	N/A	In the case of phased developments, open space shall be provided in proportion to each phase of development.	46				
11	Remnant Landscapes	Zoning Sec. 10.10	N/A	Remnant native landscapes consisting of plant communities indigenous to the site and northern Illinois shall be protected, restored, and maintained.	CDF				
12	Special Zoning - Greenways	Zoning Sec. 10.10	N/A	Apply "Open Space" zoning classification to the Natural Areas Overlay District described in the "Special Zoning for Environmentally Sensitive Areas" as well as to other open space created to provide trails and other networks.	34 :125				
13	Special Zoning for Environmentally Sensitive Areas	Zoning Sec. 10.10	N/A	Create and adopt a County-Wide Natural Areas Overlay District that identifies essential open space as agreed upon by the County and municipalities. This would be similar to the "Green Infrastructure Plan" identified in the Blackberry Creek Alternative Futures Project and could be expanded to include upland remnant areas.	12 :CR-2				
14	Stream Buffer Width	Zoning Sec. 10.10	Varies from 15 to 50 feet, depending on drainage area and stream quality (Kane County stormwater ordinance)	Streams and wetlands shall be buffered using a three-zone system with the following standards: (1) Streamside (Undisturbed) Zone: 25' or more in width according to the Stormwater Ordinance. Allowable uses are limited to footpaths to provide water access. (2)Middle (Limited Use) Zones: 50'-100'' depending upon and reflecting meander belt width, slope and 100 year floodplain. Uses allowed include recreation and bicycle paths, tree removal by permit, and stormwater BMPs. (3)Outer (Transitional) Zone: 25' setback. Uses allowed include ancillary residential uses, yards, gardens, most stormwater BMP's.	21: 131; 13: 5B-2				
15	Wetland Buffer Width	Zoning Sec. 10.10	Varies from 15 to 50 feet, depending on wetland area and wetland quality (Kane County stormwater ordinance)	Wetlands will have a minimum of 20' buffer to be kept in or restored to a natural state, with minimum building and pavement setback of 35' beyond the outer edge of the buffer.	13 :II-16				
16	Wetland Mitigation	Zoning Sec. 10.10	N/A	Wetlands found within a site proposed to be developed must remain in or be restored to a natural state.	46				

	City of Aurora Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project									
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE					
LAN	DSCAPE STANDARDS									
17	Native Plant Allowances/ Requirements	Subdivision Sec. 43-99	50% of trees must be native/Allowed with stormwater facilities	Landscape designs shall not include invasive plant species.	CDF					
18	Parking Lot Landscape Requirements - bioretention/infiltration	Subdivision Sec. 43-99	Refer to Kane County Stormwater Runoff Control Regulations	The following landscape and infiltration treatments are allowed/ required within parking lots: 1) Infiltration bio-swales, 2) Vegetated swales, 3) Vegetated filter strips, 4) infiltration basins/trenches, 5) Sand filters, and similar measures designed to filter, retain, and infiltrate runoff.	1:2-5					
19	Parking Lot Landscape Requirements - Landscape Islands	Subdivision Sec. 43-99	N/A	Continuous, ten (10) foot wide planting strips shall be provided between each parking bay. The strips may be used for bioretention.	16 : 28					
20	Parking Lot Landscape Requirements - Perimeter Landscaping, bioretention	Subdivision Sec. 43-99	N/A	A 10 foot wide landscape strip is required around the perimeter of the parking lot. Landscape strips may be used for bioretention.	21: 17					
21	Parking Lot Landscape Requirements - Perimeter Landscaping, Shade Trees	Subdivision Sec. 43-99	N/A	1 tree is required for every 25 linear feet of parking lot frontage.	21: 17					
22	Significant Vegetation Preservation	Subdivision Sec. 43-99	N/A	All "significant" trees and native vegetation shall be protected. "Significant" trees are those with 3" trunks at 4' above grade except those determined to be nuisance species and where it is agreed that the density of trees is greater than desirable for proper forest management.	15 : 3-18					
23	Street Landscape Requirements	Subdivision Sec. 43-99	8', 30' min.spacing;25'med/20'small	The street ROW landscape strip (parkway) may be/shall be used as a planted bio-infiltration system.	1:2-9					
24	Tree Planting Requirements	Subdivision Sec. 43-99	1 1/2" caliper at 6" from ground	One deciduous canopy tree must be planted for every 40' of street frontage between the sidewalk and curb, except where conflicts occur with existing trees, retaining walls, utilities that can not be relocated, and other similar barriers. Street trees must be 1.5" - 2" caliper.	1: 2-9					
25	Tree Planning Requirements - Gender	Subdivision Sec. 43-99	N/A	Tree planting must include both male and female trees of each species selected.	CDF					
26	Tree Preservation Requirements	Subdivision Sec. 43-99	Tree permit prior to removal	A "significant" tree and native vegetation inventory must be conducted. "Significant" trees are those with at least 3" trunks at 4 feet above grade.	15: 3-18					

	City of Aurora Codes and Ordinances Model Language Recommendations								
No.	Blackberry Creek watershed Zoning Code Analysis and Ordinance Language Recommendations Project b. CODE/STANDARD LOCAL CODE CURRENT STANDARD RECOMMENDED STANDARD/ACTION SOURCE								
	CATEGORIES	REFERENCES							
PAR	KING REQUIREMENTS								
27	Alternative Parking Lot Runoff Treatments	Zoning Sec. 10.3	Refer to Kane County Stormwater Runoff Contro Regulations	A number of landscape and infiltration treatments are allowed/required within parking lots, including, 1) Infiltration bio- swales, 2) Vegetated swales, 3) Vegetated filter strips, 4) infiltration basins/trenches, 5) Sand filters, and similar measures designed to filter, retain, and infiltrate runoff.	1:2-5				
28	Alternative Parking Spaces - Bicycle	Zoning Sec. 10.3	N/A	The amount of vehicle parking spaces shall/may be reduced by one space for every 8 required bicycle parking spaces. For every 4 additional covered bicycle parking spaces provided over the minimum required, one vehicle space may be eliminated, not to exceed 10% of the required vehicle parking spaces.	45 :4.1.20p				
29	Alternative Parking Spaces - Compact Cars	Zoning Sec. 10.3	N/A	Between 25% and 40% of total number of parking spaces may/shall be for compact car use.	10:3-31; 45 4.1.50				
30	Joint/Shared Parking Lot Allowances	Zoning Sec. 10.3-2	No less than joint (sum of all); Joined parking encouraged in Comp Plan Policy	(1) The required number of parking spaces may be reduced a maximum of 50% with approval from zoning board of appeals. (2) A reduction in the total number of spaces may be allowed for: a) Shopping Centers, b) Joint uses at different times (operating hours with little daily or weekly overlap, businesses within 1000' of each other, legal agreement between tenants recorded), or c) Simultaneous uses if only two uses in the same building.	14: 20				
31	Parking Lot Access Aisle Width	Zoning Sec. 10.3-6	12' 1-way @ 90 degrees/20' 2-way	30 Degree: One-way - 12', Two-way - 24'.	15 :3-32				
				45 Degree: One-way - 12', Two-way - 24'.	15 :3-32				
				60 Degree: One-way - 18' (standard) 15' (compact), Two-way - 24'.	1 5 :3-32				
				90 Degree: One-way - 24' (standard) 22' (compact), Two-way - 24'.	15 :3-32				
				Parallel Parking: One-way - 12', Two-way - 24'.	15 :3-32				
32	Parking Ratios - Single Family	Zoning Sec. 10.6	2/du	Single Family Residential - 2/du, no off-street parking located within front yard. Accessory dwelling units have no required parking.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
33	Parking Ratio - Multi-Family	Zoning Sec. 10.6	2 for 2+bd unit/ 1/unit for efficiency	A minimum of one bicycle parking space is required for every 2 required automobile parking spaces.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
34	Parking Ratio - Clinic	Zoning Sec. 10.6	3/doctor + 1/2 employee	A minimum of 2 bicycle parking spaces are required, or 1 per 3 required employee automobile parking spaces, whichever is greater.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
35	Parking Ratio - Church	Zoning Sec. 10.6	1/6 seats	A minimum of 2 bicycle parking spaces are required, or 1 per 10 required automobile parking spaces, whichever is greater.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				

	City of Aurora Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project								
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE				
36	Parking Ratio - Convenience Store	Zoning Sec. 10.6	1/300sf	A minimum of 2 bicycle parking spaces are required, or 1 per 20 required automobile parking spaces, whichever is greater.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
37	Parking Ratio - Office	Zoning Sec. 10.6	1/400sf	A minimum of 2 bicycle parking spaces are required, or 1 per 20 required automobile parking spaces, whichever is greater.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
38	Parking Ratio - Shopping Center	Zoning Sec. 10.6	1/300sf	A minimum of 4 bicycle parking spaces are required, or 1 per 40 required automobile parking spaces, whichever is greater.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
39	Parking Ratio - Industrial	Zoning Sec. 10.6	1/4 employees + company vehicles	A minimum of 2 bicycle parking spaces are required, or 1 per 40 required automobile parking spaces, whichever is greater.	15: 22, 3-28-29; 21: 16, 61; 12: ND-36; 45 : 4.1.3				
40	Parking Space Area	Zoning Sec. 10.3-6	162 sf min. 8.5'X19'	Maximum areas for parking spaces - 1) Compact: 7.5 'x 15' (112.5 sf); 2) Regular: 9'x18' (162sf); 3) Handicapped: 8' x 18' and 5' x 18' aisle (234 sf) to ADA Standards with two ADA parking spaces accessing each aisle; 4) On Street: 8' x 23' (184 sf).	10 :3-31; 32 :4.3				
41	Parking Space Reduction	Zoning Sec. 10.3	N/A	The total number of parking spaces can be reduced to 50% of the required if alternative needs are demonstrated.	14: 20				
42	Parking Space Reductions for Carpooling Programs.	Zoning Sec. 10.3	N/A	Reduce parking requirement for companies and industries that have organized and formalized carpooling programs.	CDF				
43	Parking Space Reductions for Proximity to Mass Transit	Zoning Sec. 10.3	N/A	Reduce parking ratios for proximity to mass transit.	21: 16				
44	Parking Space Reductions from Provision of On-Street Parking	Zoning Sec. 10.3	N/A	Parking space credit will be given for on-street parking for every 24' of uninterrupted curb for parallel parking, and appropriate lengths for 45- 60 degree and 90 degree parking.	15 :3-30				
45	Parking Structure (garage) Allowances	Zoning Sec. 10.3	N/A	Mixed-use parking garages should be encouraged in downtowns and other locations where land prices are high.	21 : 68				
46	Paving Requirement and Material	Zoning Sec. 10.3-6	Materials of comparable specifications to Asphalt and Concrete	Permeable pavement (interlocking concrete pavers, porous concrete, or porous asphalt) are encouraged except for vehicle service stations, gas stations, and other areas used for transfer or storage of hazardous materials.	21 :17				
47	Required Parking Minimums and Maximums	Zoning Sec. 10.3	N/A	Minimum and maximum number of parking spaces allowed should be the same, unless approved by the City Manager.	14: 19				

	City of Aurora Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zonina Code Analysis and Ordinance Language Recommendations Project							
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
TRA	SPORTATION REQUIREMENTS							
48	Arterial ROW Width	Subdivision Sec. 42-20	66'-80'	Refer to Table 2				
49	Arterial Street Width	Subdivision Sec. 42-20	39-41'	Refer to Table 2				
50	Bike Trails	Subdivision Sec. 42-20	N/A	Refer to Table 2				
51	Collector ROW Width	Subdivision Sec. 42.20	100'	Refer to Table 2				
52	Collector Street Width	Subdivision Sec. 42-20	49'	Refer to Table 2				
53	Cul-de-Sac ROW Width	Subdivision Sec. 42-20	66'	Refer to Table 2				
54	Cul-de-Sac Width	Subdivision Sec. 42-20	31'	Refer to Table 2				
55	Curb and Gutter Requirements	Subdivision Sec. 42-20	N/A	Curb and gutter street drainage systems are not required except where the average distance between driveways is less than 100 feet and there are on-street parking needs. Where curb and gutter is required, curb cuts may be used to allow use of naturalized drainage systems and streetside bioswales.	21: 15			
56	Equestrian Trails	Subdivision Sec. 42	N/A	Refer to Table 2				
57	Mid-Block Ped/Bike Easements	Subdivision Sec. 42	Accomplish pedestrian and bike circulations system; Provide public transportation (Comp Plan Policy)	Refer to Table 2				
58	Residential ROW Width	Subdivision Sec. 42-20	66'	Refer to Table 2				
59	Residential Street Width	Subdivision Sec. 42-20	31'	Refer to Table 2				
60	Road Alignment	Subdivision Sec. 42-20	N/A	To the greatest extent possible, new roadways shall respect natural contours and ridgelines to minimize grading.	CDF			
61	Sidewalk Materials	Subdivision Sec. 43-98	PCC	Varies, and to ADA standards.	10: 3-32			
62	Sidewalk Requirements	Subdivision Sec. 43-98	Yes, Both sides of all streets	Sidewalks are required on both sides of the street unless: site constraints prohibit their installation, a trail system is provided, or a "Woonerf" overlay district is used (see model code language below).	16: 21			
63	Sidewalk Width	Subdivision Sec. 43-98	N/A	4' Minimum to be ADA compliant. Wider walks should be used where pedestrian traffic warrants.	16: 21			
64	Stream Crossings	Subdivision Sec. 42-20	N/A	Stream crossings shall be limited to the minimum necessary to provide safe circulation and ensure two ingress/egress locations. Stream crossings shall be located to minimize stream disturbance. Bridges or culverts of sufficient size shall be used for all perennial stream crossings to preserve stream channel width and natural stream substrates.	13 : 4C-5			
65	Street Paving Material	Subdivision Sec. 42-20	N/A	Permeable pavement is allowed as a street paving material (interlocking concrete pavers, porous concrete, or porous asphalt) for low volume, local access streets. Central planting islands within cul de sacs shall/may be used for bioinfiltration.	CDF			
66	Trail Construction Materials	Subdivision Sec. 42	N/A	Permeable paving surfaces including gravels and other treatments are allowed/required for multi-use trails.	CDF			
67	Woonerf Overlay District	Zoning Sec. 4	N/A	In areas where cul-de-sacs exist, and where the efficiency of the transportation grid would not be interrupted, woonerfs, or landscaped, walking streets should be considered.	44			

	City of Aurora Codes and Ordinances Model Language Recommendations							
	Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project							
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
ZON	ING/SUBDIVISION STANDARDS							
68	Clearing and Grading	Zoning Sec. 5	N/A	On-site clearing and grading shall be restricted to avoid environmentally sensitive areas.	7 :2-18			
69	Clustering	Zoning Sec. 14	Encouraged in Comp Plan	Include within subdivision and zoning code a purpose statement for the benefits of clustering dwelling and commercial units including: 1) decreased impervious surface, 2) decreased pollutant loads, 3) protection of cultural resources and natural features, 4) habitat protection, 5) improved aesthetics, 6) creation of passive recreation opportunities, and 7) reduced costs for development and maintenance.	10 :3-19			
70	Clustering - Objectives	Zoning Sec. 14	N/A	Include within subdivision and zoning code a purpose statement for the benefits of clustering dwelling and commercial units including: 1) decreased impervious surface, 2) decreased pollutant loads, 3) protection of cultural resources and natural features, 4) habitat protection, 5) improved aesthetics, 6) creation of passive recreation opportunities, and 7) reduced costs for development and maintenance	5: 20; 1 5: 3-59			
71	Density Bonus - incentive actions	Zoning Sec. 14	N/A	Density bonuses may be awarded to developers for projects that 1) dedicate land for public use, 2) include affordable housing, 3) designate permanent open space protected by a conservation easement (beyond that space already required by this or other ordinances and statutes), and/or 4) place a 75' buffer around all particultural lands	3			
72	Density Bonus/Incentives - Density Limits	Zoning Sec. 14	N/A	Density bonuses may not increase the density of a development more than 15% beyond the number of units allowed prior to the application of bonuses.	46			
73	Garages	Zoning Sec. 11	N/A	Attached garages with front access are not permitted on lots with alleys and/or rear parking lots.	14 :A-30			
74	Infill Incentives	Zoning Sec. 5	N/A	Local governments should create financial incentives that encourage infill development.	CDF			
75	Non-Conforming Uses	Zoning Sec. 6	N/A	Non-conforming uses shall not be expanded.	15 :5-8			
76	Open Space Requirements	Subdivision Sec. 43-56	N/A	Required open space shall be measured from the site's net developable area and yield (see site yield calculations), following these guidelines - Estate residential: 60% open space. Moderate Rural Residential: 45%. Urban Residential: 30%. Clustering of units is allowed to meet open space requirements and open space areas may be used for natural drainage and other stormwater management systems designed to reduce runoff volumes. Open space requirement may be waived for smaller parcels (generally less than 10 acres).	36 :105; 13: II-40			
77	Planned Unit Development Allowances	Zoning Sec. 14	N/A	Develop a mixed-use PUD ordinance that requires conservation- oriented mixed-use development with specific design guidelines and standards.	CDF			

	City of Aurora Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project								
No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE				
78	Site Capacity\Yield - Calculation	Zoning Sec. 11&12	Varies by zoning category	Applicants shall submit site yield calculations that document the number of dwelling units the site can support after excluding lands deemed "unsuitable" due to this or other laws and ordinances and due to losses associated with meeting applicable standards (i.e., detention, streets, required parking, setbacks and buffers, etc. that vary by zoning classification)	21 :II A2-3; 17 :21				
79	Site Capacity\Yield - Calculation	Zoning Sec. 11&12	N/A	When calculating developable land area, remove perimeter street ROW and non-buildable and unsuitable land. Unsuitable land includes - 1) FEMA floodplains, 2) Wetlands and their required buffer, 3) Required buffer area for streams and lakes, 4) land of >12% slope, 5) lands with threatened or endangered species, and 6) protected archeological sites.	15 :2-15; 17 :21				
80	Site Capacity/Yield - Lot size	Zoning Sec. 11&12	Minimum lot size varies by zoning category	The lot sizes specified within the zoning code shall be used to determine site yield. However, actual lot sizes may be reduced (a maximum of 50%) to meet open space requirements and to provide flexibility to protect unique site areas not designated as unsuitable for development.	CDF				
81	Site Planning Process - Site Visit Requirement	Zoning Sec. 14.2	N/A	Site visits by the permitting agency are required prior to approval of all development permits.	13 :II-22				
82	Site Planning Process - Specific Area Plans	Zoning Sec. 14.7	Westside/PUD	Local governments should work with multiple property owners to coordinate Sub-Area Master Plans.	14 :25-26				
				Specific Sub-Area Plans shall be guided by Steering Committees that include land owners, neighbors and the community at large.	14 :A-69				
				Master Planned Neighborhoods are applicable and required for sites of 40 acres or larger, and that fall within PUD or other special Districts.	1 5 :2-37				

Code Area	ADT	Pavement Width	Driving Lane(s)	Parking Lane(s)	Landscaping	Bicycle Lane(s)	Other Standards	Source
Multiple-Use Trails Mid-Block Ped/Bike Easements	n/a	6'-10'	n/a	n/a	2'-4' both sides	1 -2		
Streets and Roads							Street and road standards are based on Average Daily Trips (ADT) or the expected and designed volumes for each road.	
One-Way Alley	n/a	12'	1	0	not rqrd	n/a		14: 18
Two-Way Alley	n/a	16'	2	0	not rqrd	n/a		14: 18
Access Lane	<250	21'	1	1@7'	7' or 6'	n/a		14: 18
Access Lane	<250	28'	1	2@7'	7'or 6'	n/a		14: 18
Local Low Volume Res.	250-750	20'	2	0	6'-6"	n/a		14: 18
Local Low Volume Res.	250-750	21'	1	1@7'	6'	n/a		14: 18
Local Low Volume Res.	250-750	20'	1	2@7'	7'-6"	n/a		14: 18
Local Medium Volume Res.	>750	20'	2	0	9'	n/a		14: 18
Local Medium Volume Res.	>750	27'	2	1@7'	8'	n/a		14: 18
Local Medium Volume Res.	>750	34'	2	2@7'	7'	n/a		14: 18
Local Res. Queuing	<250	14'	1	1@7'	6'	not rqrd		16: 21
Local Res. Queuing	<1,500	25'-28'	1	2@7'	7'-8'	not rqrd		15: 3-40
Residential Collector	1,500 - 5,000	22'	2	0	8'	n/a		15: 3-40
Residential Collector	1,500 - 5,000	25'-27'	2	1@7'	7'-8'	n/a		15: 3-40
Residential Collector	1,500 - 5,000	32'-34'	2	2@7'	7'-8'	n/a		15: 3-40
Commercial Collector	1,500 - 5,000	28'	2	1@8'	7'-8'	not rqrd		15: 3-40
Commercial Collector	1,500 - 5,000	36'	2	2 @ 8'	7'-8'	not rqrd		15: 3-40
Commercial Collector	1,500 - 5,000	37'	3+	0	7'-8'	not rqrd		15: 3-40
Commercial Collector	1,500 - 5,000	54'	3+	0	7'-8'	not rqrd		15: 3-40
Arterial Boulevard	8,000 - 30,000	34'	2	bays 8'	7'-8'	2@6'	Bicycle lanes are in addition to sidewalks	15: 3-40
Arterial Boulevard	8,000 - 30,000	46'	3	bays 8'	7'-8'	2@6'	Bicycle lanes are in addition to sidewalks	15: 3-40
Arterial Boulevard	8,000 - 30,000	68'	5	bays 8'	7'-8'	2@6'	Bicycle lanes are in addition to sidewalks	15: 3-40
Arterial Avenue	3,000 - 10,000	32'-33'	2	bays 8'	7'-8'	2@6'	Bicycle lanes are in addition to sidewalks	15: 3-40
Arterial Avenue	3,000 - 10,000	44'	3	bays 8'	7'-8'	2@6'	Bicycle lanes are in addition to sidewalks	15: 3-40
Cul-de-Sac	n/a	20'	n/a	1 @ 7'	10' radius Iandscaped island	n/a	Cul-de-sacs may only be designed into developments when environmental or topographical constraints, existing development patterns, or compliance with other standards preclude street extension.	6:39; 7:39; 21:15; 15:3-40
Driveways	n/a	n/a	n/a	n/a	Paving may be limited to tire strips with vegetation between.	n/a	Alternative materials (e.g., brick, permeable pavers, decorative gravel) are allowed.	13: II-32

Table 2: Recommended Transportation Standards Table

"not rard" refers to situations where the element could be used in certain situations, but would not be required by code.

Appendix A

Model Ordinance References

Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Appendix A Model Ordinance References

The resources listed below were used in the literature review and model language development portions of this project. Each represents a resource for model codes and ordinance standards for elements of development that may have impact on hydrological systems through impact on stormwater systems.

Ref No.	Data Source	Date	Title/Subject/Key Words	Description/Action
	Government			
1	City of Portland	2002	Stormwater Management Manual and Appendices	Stormwater management guidelines, principles and standards.
2	EPA		Web site	Model environmental protection language.
3	Johnson County, IA	2002	Draft Conservation Subdivision Design Ordinance	Draft ordinance for review.
4	Kane County, IL	1996	2020 Land Resource Management Plan	Land use program for County.
5	Northeastern Illinois Planning Commission	1997	Reducing the Impacts of Urban Runoff	Description of alternative site design approaches.
6	Northeastern Illinois Planning Commission	2002	Model Conservation Design Ordinance for Communities within Northeastern Illinois	Draft model ordinance.
7	Prince George's County, MD	1999	Low-Impact Development Design Strategies	Description of LID program and guidelines.
8	State of California		Department of Water Resources	Model Landscape Ordinance.
9	State of California	1993	Model Water Efficient Landscaping Ordinance	Water efficient landscaping ordinance.
10	State of Delaware	1997	Conservation Design for Stormwater Management	Design approach to reduce stormwater impacts from land development.
11	State of Maryland	2000	Stormwater Design Manual Volumes I & II	Development site BMP's.
12	State of Minnesota	2000	From Policy to Reality: Model Ordinances for Sustainable Development	Minnesota Planning's model ordinance for sustainable development.
13	State of Ohio	2002	Countryside Program Resource Manual (I & II)	Ordered on 9/12/02.
14	State of Oregon	1997	Smart Development Code Handbook and Appendix	Codes and ordinances for Smart Growth (with Appendix).
15	State of Oregon	1999	Model Development Code and User's Guide for Small Cities	Model codes and ordinances for small towns and cities.
16	State of Wisconsin	2001	A Model Ordinance for a Traditional Neighborhood Development	State Smart Growth guide.
17	State of Wisconsin	2001	Model Ordinance for a Conservation Subdivision	State's Smart Growth guide.
18	Traverse City, MI	2000	Grand Traverse Bay Region Development Guidebook - 3 rd Edition	Development guidelines.

Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Appendix A Model Ordinance References

Ref No.	Data Source	Date	Title/Subject/Key Words	Description/Action
	Institutions/Organizations			
19	APA		Research library	Research model codes and ordinances.
20	ASLA		Web site	See if model landscape codes exist.
21	Center for Watershed Protection	1998	Better Site Design	Handbook for changing development rules.
22	Congress for New Urbanism	2002	Model Ordinance List	List of "Smart Codes".
23 Fraser Valley Real Estate Board		1998	Alternative Development Standards for Sustainable Communities	Charette results.
24	Greater Toronto Homebuilders' Association	1991	Residential Development and Environmental Regulations	Model residential code.
25	Inst. of Transportation Engineers	1999	TND Street Design Guidelines	Model TND standards.
26	The Natural Step		The Natural Step	Process guide to sustainable development.
27	Urban Land Institute		Web site	Model ordinance articles.
28	Univ. of Michigan Library		Web-based library search	Model ordinance articles.
29	UM Prof. Elizabeth Brabec		Academic contact	Check for resources.
30	UM Prof. Terry Brown		Academic contact	Check for resources.
31	UM Prof. Peter Pollack		Academic contact	Check for resources.
32	US Department of Justice	1994	ADA Standards for Accessible Design	Accessible parking standards.
	Journals			
33	Journal of the APA		Articles on model codes	Check for articles.
34	Planning Magazine		Articles on model codes	Check for articles.
	Books			
35	Randall Arendt	1996	Conservation Design for Subdivisions	Some process and ordinance information.
36	Randall Arendt	1999	Crossroads, Hamlet, Village, Town	Design guidelines for small communities.
37	Randall Arendt	1999	Growing Greener	Ordinance suggestions for conservation design.
38	Randall Arendt	1998	Rural By Design	Design guidelines for rural communities.
39	Robert France	2002	Water Sensitive Planning and Design	Collection of papers on stormwater, watershed, and riparian areas management

Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Appendix A Model Ordinance References

Ref No. Data Source		Date	Title/Subject/Key Words	Description/Action
	CDF Materials			
40	Mossville Bluffs Report	2001	Mossville Bluffs Watershed Restoration Master Plan	Planning and design guidelines for prevention of ravine erosion.
41	Butterfield Creek Report	2000	Handbook of Sustainable Site Design Techniques	Site planning and design techniques for sustainable development.
42	Coffee Creek Center		Development Guidelines	
43	Plano Properties		Plan Description	
44	Royal Dutch Touring Club	1980	Woonerf	Residential precincts, walkable streets. Not produced by CDF, but the document is a personal copy of a CDF staff member.
	Last Minute Material			
45	City of Covallis, OR Development Code		City of Corvallis, Oregon web site	Parking ratios and other standards.
46	Bath, Ohio Township	2000	Zoning Resolution 1-24-2000	Model Conservation Ordinance.
47	City of Portland, OR Bicycle Master Plan	2003	Planning and Zoning Code, Bicycle Parking website	Required bicycle parking and standards.
48	City of Beaverton, OR Community Development Code	2003	Special Requirements: Off-Street Parking Section 60.30.10	Number of required parking spaces, including bicycle parking.

Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Appendix B

Codes and Ordinances Comparison

Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations

Codes and Ordinances Comparison											
Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
ALTERNATIVE STORMWATER											
RET/DET STANDARDS											
Rooftop Runoff											
Stormwater Discharge (Dis)Incentives			Use drainage tiles emptying into Welch and Blackberry Creeks						Exemption for small developments (2.5 ac. for res.; 1.25 ac. for non res.)		
		Native buffer 25' around wetland detention and dry non-use area, maintenance required; infiltration	Native buffer 25' around wetland detention and dry	Stormwater facilities							
Alternative Detention/Infiltration Allowances		system allowed	non-use area.	easement 20'							

Codes and Ordinances Comparison												
Blackberry	Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville			
ENVIRONMENTAL STANDARDS												
Buffers		Mill Creek corridor buffer required	100' greenbelt						Refer to proposed wetland ordinance			
Buffer Maintenance	Maintenance plan and conveyance to responsible entity (Kane Co.)	Maintenance plan and conveyance to responsible entity (Kane Co.)	Maintenance plan and conveyance to responsible entity (Kane Co.)	Maintenance plan and conveyance to responsible entity		Maintenance plan and conveyance to responsible entity (Kane Co.)	Maintenance plan and conveyance to responsible entity (Kane Co.)	Maintenance plan and conveyance to responsible entity (Kane Co.)	Homeowner's Association			
Streams Buffer	Varies from 15 to 50 feet, depending on drainage area and stream quality (Kane County stormwater ordinance)	15 - 50 feet, depending on drainage area and stream quality (Kane Co. Stormwater Ordinance)	100' greenbelt for the Village; 15 - 50 feet, depending on drainage area and stream quality (Kane Co. Stormwater Ordinance)	15 - 50 feet, depending on drainage area and stream quality (Stormwater Ordinance)	>75' in length; 25' in width with native species vegetation	15 - 50 feet, depending on drainage area and stream quality (Kane Co. Stormwater Ordinance)	15 - 50 feet, depending on drainage area and stream quality (Kane Co. Stormwater Ordinance)	Included in the Environmental Corridor width 200' min.; buffer width: 25'; Setback: 75'. Buffer width varies from 15 to 50 feet, depending on drainage area and stream quality (Kane County Stormwater Ordinance)	Refer to proposed wetland ordinance			
Wetlands Buffer	Varies from 15 to 50 feet, depending on wetland area and wetland quality (Kane County stormwater ordinance)	15 - 50 feet, depending on wetland area and quality (Kane Co. Stormwater Ordinance)	100' greenbelt for the Village. 15 - 50 feet, depending on wetland area and quality (Kane Co. Stormwater Ordinance)	15 - 50 feet, depending on wetland area and quality (Stormwater Ordinance)	>25' with native plants, 75' in length	15 - 50 feet, depending on wetland area and quality (Kane Co. Stormwater Ordinance)	15 - 50 feet, depending on wetland area and quality (Kane Co. Stormwater Ordinance)	Included in the Environmental Corridor width 200' min. Buffer width: 25'; Setback: 75'. Buffer width varies from 15 to 50 feet, depending on wetland area and wetland quality (Kane County Stormwater Ordinance).	30'-100' setback; Refer to proposed wetland ordinance			

Codes and Ordinances Comparison											
Blackberry	Creek Wate	rshed Zoning	Code Analy	sis and Ordin	ance Langua	ge Recomme	ndations Pro	ject	•		
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
ENVIRONMENTAL STANDARDS											
Floodplain Restrictions	Prevent from development in Comp Plan Policy; Storage required for floodplain fill (Kane County stormwater ordinance)	Not for active recreation and development; Compensatory storage required for floodplain fill (Kane County stormwater ordinance)	Floodplain is included in the greenbelts; Compensatory storage required for floodplain fill (Kane County stormwater ordinance)	Compensatory storage required for floodplain fill (stormwater ordinance) A conservation easement shall be required to protect unique areas such as	Certain development allowed under restrictions; protect floodplains from clearing, grading, filling or construction Development shall be located to preserve the natural features of the site, to avoid areas of environmental sensitivity, and to	Only permitted uses allowed in floodplains (including limited agricultural uses, open type uses, private and public recreational uses, and residential uses). Drainage easement required for streams to flooding area; parking lots allowed, recreation, agriculture, bridges, sand extraction allowed.	Compensatory storage required for floodplain fill (Kane Co. stormwater ordinance)	no development other than open space allowed; Compensatory storage required for floodplain fill (Kane County stormwater ordinance)	Comp storage required (1:5:1)		
	preservation encouraged in		NARI>=20-	streams, creeks, and any other unique	impacts and alteration of natural	encouraged ("shall be given due	Scenic views preservation on Fox		to be determined- watershed		
Natural Areas Plan Compliance	Comp Plan Policy	15 ac/1000 people + fprest preserve and reginal facilities. 10-20 ac min./1000 people 66' NIGas as	Greenbelt Parkland dedication /Open space in flood-prone areas	areas.	features. 30' access esmnt 30% of the property, 50' wide min., encourage greenway; Provide open space that is reasonably contiguous. To the greatest extent practicable, open space shall be designed as a single block with logical, straightforward boundaries.	regard")	River	200' min. width for Environmental Corridor; 75' access easement restore and using	management plan 10 ac per 1000 land cash		
Other Environmental Codes	be provided (Comp Plan Policy)	opportunity for green corridor	Open Space/Greenbelt		butter zone along rural character			native plants within buffers			

Codes and Ordinances Comparison											
Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
ENVIRONMENTAL STANDARDS											
Remnant Landscapes		Preserve unique environmental resources	High quality native plant communities shall be included in the greenbelts								
Special Zoning for Environmentally Sensitive Areas		Minimize the impact	Low land conservancy district (50' buffer); Greenbelts include floodplain, steep slopes, wetlands, high quality native plant communities, major stand of trees, and riparian zone	Landscaping and conservation easements 50ft buffer zone.							
	Development restricted (Comp		35% or								
Steep Slopes	Plan Policy)		2.85:1 ~ greenbelt								
Wetland Restrictions	Prevent from development in Comp Plan Policy	Not for active recreation and develoment	As defined by Army Corps- Greenbelt//Not recommended for detention					no development other than open space allowed	Refer to proposed wetland ordinance		

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Vorkville		
	Autora	Dutavia	Liburn	Rune County	Kendan County	Montgomery	Autoru	Sugar Grove	TOTRVINC		
LANDSCAPE STANDARDS	EQ% of tracs must										
Native Plant Allowances/ Requirements	be native/Allowed with stormwater facilities			Allowed		encouraged for water conservation		restore and using native plants within buffers	Incorporated into Landscape Ordinance		
Parking Lot Landscape Requirements	Refer to Kane County Stormwater Runoff Control Regulations		not less than one 9'X18' landscaped island shall be provided for every 25 parking spaces	10%, 2 native trees/10 parking space	All open automobile parking areas containing more than 4 parking spaces shall be effectively screened on each side adjoiningbyden sely planted compact hedge no less than 5 ft nor more than 7 ft in height.	7' wide min; 2 shade trees per island; 1 island/20 parking spaces; perimeter Both sides of street		parking island landscaping required; > 5% or 120 sf, 7' wide and 20-30 linear ft per shade tree and 6 shrubs; Countywide Stormwater ordinance requires retention of 0.75 inches of runoff for impervious areas	1 tree/20 spaces and perimeter landscaping		
Strast Landsson Dogwissments	8', 30' min.spacing;25'med /20'small	Parlavay trac 1/25 lf	Cul-de-sac island		allowed; parkway tree 1/40lf; planting on both side of the	both sides of street between sidewalk and curb; street trees every 40' on	Every 40'/2 per lot/3" caliper @ 12"	7' wide and 20-30 lf per shade tree and 6	1 tree/50' - 10' landscape strip. 21/2" ep. At 6"		
Tree Planting Requirements	1 1/2" caliper at 6" from ground	rarkway tree 1735 ii	2" ca;. Along greenbelt at 30', street trees at 40' spacing, 21/2" cal. At 6"	2 native trees/1 lot	street	2 1/2" caliper @ 1 foot from the ground	on ground	Parkway trees @ 40 feet	Approved species list; on lot landscape req.		
Tree Preservation Requirements	Tree permit prior to removal	preserve trees > 5" diameter	a tree preservation and protection plan shall be prepared for trees measuring six inches in caliper or larger. The ability to save existing trees on the site shall be evaluated by the Developer and the Village. Greenbelt streamedge in	Preserve existing tree > 3" diameter	Wherever possible existing trees shall be preserved	Yes. 4' + Caliper requires permit (Not in SF duplex) with replacement standards	6" caliper, 12" off ground. Preservation policy mandated in Comp <u>Plan</u> Yard area requirement with	Tree survey and preservation plan required	credit for saving trees above certain size and type All non-paved ROW		
Turf Grass Requirements			riparian area			Yes, within ROW	sod		areas		

Diaci	Codes and Ordinances Comparison Blackborry Creek Watershed Zening Code Analysis and Ordinance Language Becommendations Project											
Black	Coerry Creek	watersned Z	oning Code /	Analysis and	Ordinance La	anguage kecc	mmendation	is project	T			
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville			
PARKING REQUIREMENTS												
Alternative Parking Spaces									May for residential parking: 50% or 4 spaces more than required			
Compact Cars						Allowed for hotels, offices and manufacturing lots with > = 100 spaces			parking standard size 8.5X20			
Bicycle							1/20 auto spaces non-res. Minimum of 2 spaces (Comp Plan)					
	No less than joint (sum of all); Joined parking encouraged in Comp Plan			Mixed uses, no parking space or portion thereof shall serve as a required space for more than one use unless otherwise authorized by the zoning board of	loined parking	Total for joint is no	Allowed for alternately timed					
Joint/Shared Parking Lot Allowances	Policy		Yes	appeals	allowed	less than the sum	uses		Yes, same as sum			
Parking Lot Access Aisle Width	12' 1-way @ 90 degrees/20' 2-way	12 ft	12'/24'	24'min.angular and parallel parking may allow a narrower aisle	11-26'		12'-18' 1-way/24' 2- way (13' for 45 degree parking)	12' (one-way) to 24' (two-way) in width	shall no exceed 25'			
Parking Lot Drainage	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Stormwater Runoff Control Regulations		Detention/retention basins and ponds areas shall be planted. Also refer	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Kane County Stormwater Runoff Control Regulations	sheet flow or storm sewer			

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
Didei				analysis allu		inguage Rect					
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
PARKING REQUIREMENTS											
Parking Lot Runoff	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Kane County Stormwater Runoff Control Regulations. A properly designed drainage system shall be installed. The storm sewer system shall be designed to accommodate a two year design storm. The min. pipe size in any drainage system shall be ten inches in diameter.	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Stormwater Runoff Control Regulations 9'X18' min., 9'X22' for parallel parking; min. 16' in width for handicapped space, per Illinois		Allowed for hotels, offices and manufacturing lots with > = 100 spaces. Also refer to Kane County Stormwater Runoff Control Regulations	Refer to Kane County Stormwater Runoff Control Regulations	Refer to Kane County Stormwater Runoff Control Regulations 8' or 9' or	detention required		
Parking Space Area	8.5'X19'	size	9'X18' (9'X21' Res.)	Standards	9.5'X18.5'		parallel parking)	wide, 18'-24' long	8.5X20		
Parking Structure (garage) Allowances											
Paving Material Alternative Allowances	materials of comperable specifications to Asphalt and Concrete		Yes, Pavers, asphal, concrete			bituminous asphaltic concrete material	PCC required		Brick pavers, concrete, bituminous		
Paving Requirement Required Parking Ratios	Yes	asphaltic concrete or some comparable all-weather, dustless material	Yes		Bituminous concrete		Yes	concrete or asphalt	Yes		
Single Family	2/du	2/du	2/du	2/unit	2/1unit	4 (2in,2out) Dup-2 (1in_1out)	1/du	<30% or 700sf/unit	2/du		
Multi-Family	2 for 2 + bd unit/ 1/unint for efficiency	2.5/un	2/du	2/unit	2/1unit	2.25/unit (50% in)	2/du for 2 bd units// 1.5/du for 1 bd unit	<450 sf/unit - 2.25/du	1in & 1 out/unit		

	Codes and Ordinances Comparison											
Black	kberry Creek	Watershed Z	Coning Code	Analysis and	Ordinance La	nguage Reco	ommendation	s Project				
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville			
PARKING REQUIREMENTS												
Hotel	1/room + 1/employee	1/room + 1/employee + specified	1/room + 1/employee	1/room or unit	1/1unit	1/unit + 1/employee	1/2 rooms + 1/300sf for ancillary activities	1 space/room + 1 space/employee + additional for accessory uses	1/unit + 1 for manager			
Clinic	3/dn + 1/2 employee	1/treatment room + 1/100sf waiting room + 1/employee	3/1000sf for > = 5000sf// 5/1000sf dor < = 5000sf	3/treat room + 1/doc and employee	1/1doctor & employee + 1/200sf	12/doctor	4 per employee	1 space/2 beds + 1 space/2 employees + 1 space/2 doctors	3/doctor			
Church	1/6 seats	1/4seats	1/4seats (1/90" of seat)	1/4seats	1/3seats	1/3 seats	1/6 seats	1 space/4 seats or 90 inches of seating capacity	1/6seats			
Convenience Store	1/300sf 1/400sf	6/1000sf 4/1000sf	6/1000sf 3/1000sf for > = 5000sf// 5/1000sf dor < = 5000sf	1/300sf 1/300-400sf	1/200sf 1/100sf	1/200sf 1/200sf	1/200sf (?) 1/400sf	5/1000 sf 5/1000 sf < 5,000 sf; 3/1000 sf > 5000 sf building size	1/300sf 1/400sf			
Shopping Center	1/300sf	6/1000sf	5/1000sf	1/300sf	1/200sf	1/200sf	6/1000sf	5/1000 sf	1/300sf			
Industrial	1/4 employees + company vehicles	1/2employees or <25% lot + 1/1 business vehicle	1/1000sf or 1/1.25 employee (whichever is greater)	1/employee (1/2employee if ride sharing/care pooling program applies)	1/2employees + 1/enterprise vehicle + 1/1000sf	1/employee + 1/business vehicle (no < 1/600sf)	varies - 1/200sf over 2000 sf; 1/2 employees + 1/200 sf over 2000 sf	1/1000 sf floor area or 1 space/1.25 employees, whichever is greater	1/employee+1 for each Company vehicle			

Codes and Ordinances Comparison											
Blackberry	y Creek Wate	rshed Zoning	g Code Analy	sis and Ordin	nance Langua	ge Recomme	endations Pro	ject	T		
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
TRANSPORTATION REQUIREMENTS											
Greenways Plan Compliance Requirements		Bicycle and pedestrian review trails; Riverwalk improvement					Access management suggested in Comp Plan	t			
Multi-Use Trails											
Mid-Block Ped/Bike Easements		Bicycle and pedestrian review trails; Riverwalk improvement	May be required for blocks >800' at 12' ROW easement	Pedestrian way easements shall be provided. Bicycle trails shall not be closer than 75' to any house, barn or garage; no closer than 5' to property line or fence		Yes. Block over 1000 ft			10'-paved with concrete & fenced for blocks > 900' /buffer areas		
Materials									Bituminous		
Other Transportation Codes	Accomplish pedestrian and bike circulations system; Provide public transportation (Comp Plan Policy)								Alleys OK in commercial & industrial, but not in residential		
ROW Width											
Alley	/ Not permitted	18'	24' non-res.		no alleys allowed in residential except special permission	60'	50'		Alleys OK in commercial & industrial, but not in residential		
		6 C I	frontage Rd50'	6 C I		6 G I	c c)	6 G)			
Kesidentia	166' 80'	66' or 80'	Primary 80' 100'	66' 80'	70' 80'	66' 80'	66' 100'	66' 80'	66' 80' 100'		
Alteria	100-00	00 01 00	Minor-70': maior	00	80	100' : 80'-100'	100	80	80-100		
Collector	r 100'	100'	80'	120'	100'	(OR1)	80'	100'	80'		
Cul-de-Sac	c 66'	66' T-shaped allowed (but discouraged)	130' (res.) diameter	T shape may be allowed	90'diameter; 100' diameter in commercial and industrial	paved ($> = 84'$) + 28' (inconsistent)	66'		130' radius		
Sidewalk											
Requirements	both sides	Yes	Both side of streets	both sides in urban res, commercial, and industrial	generally not required	Yes, both sides		both side (one side in industrial use)	Both sides of st., not in estate res; or aphalt paved trail at 10' with 15' ROW		

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
TRANSPORTATION REQUIREMENTS											
Width		5' in residential and industrial areas; 6' in commercial areas; 10' or 14' in CBD	5'	4'	4' in residential; 5' in commercial		5' min.	5'	5'		
Materials	PCC	PCC	PCC	concrete			PCC required	concrete	PCC, concrete		
Street Width		Marginal access 20'									
Alley	not permitted; 20' Res./30' Commercial		16' (non-res)		20' in residential ; 30' in commercial	20' Res/30' commercial (not permitted in res. Areas)	29'	20' (30' commercial)	24'		
Residential	31'	28'	40'	urban 30'; country 24'	40'	31'	29'	28', 32'	30' 1000 ADT		
Arterial	39-41'	28'	varies	commercial and industrial 24'	40'	39'	39'+	38'	51' 2500 ADT		
Collector	49'	30'	3 + lanes @ 36' minimum		44'	66' (63'-OR1)	51'	52'	39' 1000-2500 ADT		
Cul-de-Sac	31'	500' long 120'diameter	50' (Res.) radius	<500' long, <170' diameter, 70' radius, <15 lots	20' in width < 1000' long	> = 84' diameter (31') (inconsistent)	29' paved width (100' diameter)	45' outside radius, 65' from property line, <500' long	30'		
Paving Material		Pavements other than bituminous concrete may be constructed if they meet the aforementioned requirements and reflect specific approval of the city.	Asphalt or PCC	Bituminous	Concrete	PCC	PCC or Asphalt	asphalt or concrete	Asphalt Encouraged on a		
Vegetated Open Channel									case-by-case basis		

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
ZONING/SUBDIVISION STANDARDS											
Block Length	600'-1800'	< 1200'		<1500'	500'-1500'	600'-1500'		600'-1200'	res1320'		
Clearing and Grading		A site grading permit is required, including an erosion control plan.			Protect floodplains, wetlands, and steep slopes from clearing, grading, filling or construction			The topography and geology of the dedicated site as well as its surroundings must be suitable for its			
Clustering (Gross Density)	Encouraged in Comp Plan	Yes, 33% Min. for open space; Cluster developments are mandated whenever possible as a means to meet the density providing for the open space objectives and scenic vistas, and the advantages gained for infrastructure extensions.					Yes. If development constraints or significant amenities are provided		per Comprehensive Plan		
Density					bonus credit to innovative design						
Estate		< 1du/1ac		0.5 du/ac	0.45 du/ac			1 du/ac	1du/ac		
Large Lot	t	< 3du/1ac	3.5 du/ac (R1 SF)	1.1 -1.5 du/ac	0.6-1 du/ac			2du/ac	2.42du/ac		
Medium Density	,	< 4du/1ac	7 duplexes/ac (R2- Duplex)	2.2-4.3 du/ac	2.2 du/ac		SF= 2.2 - 3.5 du/ac	3du/ac	5du/ac		
High Density	,	> 5du/1ac	12du/ac (R4)	8 du/ac	3.5 du/ac		MD= 3.6 - 8 du/ac	5du/ac	8du/ac		
Driveway											
		Yes, 33% Min. for									
Requirements	5	open space				Yes			Yes		
Shared					allowed				No standards		
Width			12'						line		
									Concrete, estate res.		
Matorials						PCC			Allow bring; asphalt		
Materiais			General Commercial & Commercial Manufacturing -						10' rear utility esmnt required; Ofc 20,000 sf; NC: 10,000 sf; GC:		
Lot Size	width 60'/75' min.		30,000 (100')					frontage 10'-50'	10,000 sf		
Estate		43560sf	4 ac (125')	4ac, >250' wide	90000-130000sf	18500 sf (125' frontage)	14000 sf	1 ac	1 ac (200')		

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
			,,								
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville		
ZONING/SUBDIVISION											
STANDARDS											
				1-40 acres,							
				100'wide max in			10000 sf (70'	18750 sf min. non-			
Large Lo	t 10000sf	14000st	1ac (100') (rural)	Rural residential	20000-45000st	14000 st (100')	average minimum)	res. 40000st	18000 st (100')		
									R3		
		Single Family	10000sf (75') (R1	40000sf, >125'				10000sf, non-res.	Duplex/Trip.:15000		
Medium Density	/ 8000sf	7200ft/9500ft	and R2)	wide (single family)	>15000sf	11000 sf (70')	8400 sf (70')	40000sf	sf(100')		
						TND 9000 cf (75')	10000 st (70')-				
						Duplex 7200 sf	sf + 3000 sf/unit				
	10000sf (Dup/Trip);	Two Family		20000-60000sf, >		(60'); Townhome	(60');				
	Industrial 3 acres,	7500sf/du; Multiple	5000sf (80') (R3);	75-150' wide (two-		11000 (75'); Office	Townhome = 9000	10000sf, 6000sf,	9000 sf (70');		
High Density	200' frontage	Family 100,000sf	3000sf (80') (R4)	family)	>7000sf	25000 (!20')	sf(75')	4000sf	R4:15000 sf (90')		
Mixed Lise Zoning Allowances	Downtown	Voc		Allowed		Downtown	Yes but no residential	within PLID			
Mixed Use Zoning Anowances	Downtown	Per PD Agreement		Allowed		Downtown	residential	WILIIIIIIOD	Through I OD		
Neighborhood Commercial in Residential Zone		or Annexation									
Allowances		Agreement									
Planned Unit Development Allowances		Yes	Yes	Yes		Yes	Yes, 200 + acres	Yes	Yes		
			Ves Creenbelt			Park land dedication					
Recreational Areas Allowed			parks			for all subdivisions					
									Land Cash		
					30% of property or		10 Acres/1000		Ordinance &		
					25% of buildable		people (No private		Developers Stds (10		
Onen Space Requirements		10 ac/1000 pappla		Voc. 25% planting	area should be open		parks for credit, not	10 ac/1000 paopla	ac/1000 pp)&(Park		
Open space Requirements		> 3-5 ac		3.5 ac minimum	space.		including wetlands,	To ac/ tooo people			
Neighborhood Parl	<	3ac/1000pp		1ac/1000 people		5 ac	5 acres min.				
×		4-20ac,		4-30 ac, 1.25							
Village Park	<	2.25/1000pp		ac/1000 people		4-20ac	12-30 acres				
Designed Deal		12-30ac,		12-30 ac, 2ac/1000		12					
Kegional Park		> 8000 sf school		1-5 ac 1 25/1000		12 ac min.					
		park > 5ac,		people, scool parks							
Pocket Par	<	1.25ac/1000pp		included		8000 sf					
	Front/Side/Exterior	Front-Side-Exterior	Front/Side/Exterior	E CL D	Front-Side-Exterior		Front/Side/Exterior	E CL D	Front/Side/Exterior		
SetDacKs Estate Posidentia	Side/Kear	Side-Kear 35'-15'-35'-50'	5ide/Kear 40!/15!/40!/40!	Front-Side-Kear	5ide-Kear 50'-25-50'-50'	40'/20'/40'/40'	Side/Rear	Front-Side-Rear	5ide/Kear 50!/20!/50!/40!		
	<u> </u>	55-15-55-50	10/10/40/40	55-10-10	50-25-50-50	40/20/40/40		50-50-50	50720750740		
			40'/15'/40'/40'								
			(Rural);								
Large Lot Residentia	30'/8'/15'/20'	30'-15'-30'-30'	30'/10'/30'/30' (R1)	35'-10'-10'	30'-10%-50'	35'/15'/25'/30'	30'/8'/30'/40'	30'-15'-30'	40'/15'/40'/50'		
Medium Density Posidentia	30'/8'/15'/20'	30'-12/10'-30'-20'	30710730730° (R2-	35'-10'-10'	25-40'-10%-30'	30'/12'/20'/30'	30'/7'/30'/30'	30'-10'-30'	K2:30710730740';		
meurum Density Residentia	5070715720	50-12/10-50-50	Duplex)	55-10-10	23-40-10/0-30	50/12/20/50	5077750750	50-10-50	1.5. 50710750750		

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project									
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville
ZONING/SUBDIVISION									
STANDARDS									
			25'/15'/25'/30' (R3);			25'/20'/15'/30';TND Res - 25'/20'/10'/20';Dup ex - 25'/20'/10'/30'; Townhome -	30'/7'/25'/30' (Dup/Trip); 60' front (MF); 30' (Townhomes), same	:	30'/10'/20'/30';
High Density Residentia	25'/10'/10'/30'	30'-30'-30'-30'	30'/15'/20'/30' (R4)	35'-10'-10'	25-40'-10%-30'	25'/15'/25'/30'	as Dup/Trip	25-30'-10-15'-25-30	R4:30'/10'/30'/30'
General Commercia	15'-30'/30-/-	25'	50'/10'/50'/30' 60'/35'/60'/50' (Commercial	35'-10'-10'	30-50'-10'-20'	10'/5'/20'/20'		60'-10'-30'	0'/20'/30'/20'
Neighborhood Commercia		15'	Residential) 40'/20'/40'/20' (Commercial	35'-10'-10' 100' to adjacent land use, 50' to		10'/5'/10'/20'		20'-5'-20' 40'-25'-50' (75' buffer around	0'/20'/20'
Industria		30'-15'-30'-30'	Manufacuring)	street		25'/20'/20'/20'	30'/15'/30'/30'	district boundary)	25'/20'/20'/10'
Institutiona		Office Research 25'- 8'-12'-20'	30'/10'/30'/30' (Office)			30'/15'/30'/30'	30'/15'/30'/30'		office: 30'/10'/20'/20'
Site Capacity			229/ (1450 of and						
Estate Residentia		FRA 0.2	story)		10-20%	FAR = 0.35 at 35%		0.3	0.3
			33% (1450 sf one-		<75%, total dwelling units <				
Large Lot Residentia	0.4	FRA 0.3	story)		20%	FAR=0.35 at 35%	0.4	45%, FAR=0.4 max	0.25
Medium Density Residentia	0.4	FRA 0.3/.35	33% (1300 sf on- story SF) (R2)		35%, FRA=0.5	FAR = 0.35 at 35%	0.4	35%, FAR=0.45 max	R2:20%; R3:30%
High Density Residentia	0.4	FRA N/A (practial limitation are 3.0 to 4.0)	50% (R3); 60% (R4)		35%, FRA = 0.5	FAR = 0.6 at 35%; TND FAR = 0.6 @ 35%; Duplex = 0.6 @35%; Townhome = .35@3 5%	Dup/Trip 950 sf-1 story; 850 sf-2 story; MF = 40%	50%, FAR=0.45 max	30%; R4: 30%
General Commercia	FAR = 1.6	FRA 2.0			,	FAR = 1.5	FAR < = 3.0	<70%, FAR<1.5	0.8
Neighborhood Commercia	FAR = 1.0	FRA 1.2			FRA < 0.5, impervious < 70%	FAR = 1.0		FAR<1.5	0.5
Industria	1 use/lot	FRA 1-2	75% (Light industrial)		FRA< 0.8, <60%- 75%	FAR = 1.5 max	FAR<=2.0	70-75%	0.6
Institutiona		Office Research			< 70%	FAR = 0.6			Office: 50%
Site Planning Process		1 KA 2.0			< 70 %	1/AK = 0.0			Office. 30 %
Site Capacity Calc	s								
Specific Area Plan	sWestside/PUD				Four-Step Process, designating the Open Space first; suitability of land should be considered				