Blackberry Creek Watershed



Zoning Code Analysis and Ordinance Language Recommendations

Kane County Report

April 2004

funded by:



prepared for:



prepared by:



The Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project was funded by a C2000 Grant from the Illinois Department of Natural Resources (IDNR) with a match from the Kane County Department of Environmental Management

Acknowledgements

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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 Kane County, following this introduction and a short narrative of the findings regarding Kane County'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 Kane County's current subdivision and zoning codes (current as of the beginning of this project in the summer of 2002). The purpose of the summary is to provide insight into the rational behind the code changes that are recommended in Table 1.

1. Alternative Stormwater Standards

Kane County already has a well-written stormwater ordinance that covers most of developments' direct stormwater impacts. Because of this, 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 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.

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

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

The Kane County 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: Create a Countywide Natural Areas Overlay District that identifies aquatic, as well as upland, resources to be protected along with their buffers. Open space zoning should then be applied to the area of 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

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: Although trees and landscaping are currently required within parking lots, the recommended language provides additional detail that is intended to facilitate and encourage integration of stormwater features.

Language to specifically allow/require integration of biofiltration into parking islands and street side landscape strips (a.k.a. parkway, tree lawn, etc.) is recommended.

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.

4. Parking Requirements

Parking facilities often create large impervious surfaces that result in an increase in 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.

General Recommendations: Parking standards can be updated to meet current trends towards shared parking, parking credit programs, and parking for non-motorized vehicles. 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 source 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.

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 Standards

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 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 language that is recommended for Kane County.

	Kane County 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							
1	Alternative Detention/Infiltration Allowances	Subdivision Sec 19-72-2	Stormwater facilities easement 20'	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	Zoning ArtXIV-Sec 14.1-4	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	Zoning ArtXIV-Sec 14.1-4	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	Subdivision Sec 19-55	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 County may conduct those activities and draw on the identified revenue source to fund those activities.	13			
5	Floodplain Restrictions	Subdivision Sec 19-55	Compensatory storage required for floodplain fill (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	Subdivision Sec 19-72-3	A conservation easement shall be required to protect unique areas such as wetlands, rivers, streams, creeks, and any other unique areas.	Development Plan shall comply with Natural Areas Overlay District (See Special Zoning for Environmentally Sensitive Areas)	12 :CR-2			
7	Natural Areas Reclamation	Subdivision Sec 19-72-3	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	Subdivision Sec 19-55	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 County plans.	13 :11			

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No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE				
9	Open Space Design - Approved Land Uses	Subdivision Sec 19-55	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	Subdivision Sec 19-55	N/A	In the case of phased developments, open space shall be provided in proportion to each phase of development.	46				
11	Remnant Landscapes	Subdivision Sec 19-55	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 7.1-5	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 7.1-5	Landscaping and conservation easements 50ft buffer zone.	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	Subdivision Sec 19-55	varies from 15 to 50 feet, depending on drainage area and stream quality (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	Subdivision Sec 19-55	varies from 15 to 50 feet, depending on wetland area and wetland quality (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	Subdivision Section 19-55	N/A	Wetlands found within a site proposed to be developed must remain in or be restored to a natural state.	46				

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No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
LANI	OSCAPE STANDARDS							
17	Native Plant Allowances/ Requirements	Zoning Art XVSec 15.1-4	Allowed	Landscape designs shall not include invasive plant species.	CDF			
18	Parking Lot Landscape Requirements - bioretention/infiltration	Zoning Art XIV-Sec 14.1-4	Refer to 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	Zoning Art XIV-Sec 14.1-2	2 native trees/10 parking space	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	Zoning Art XIV-Sec 14.1-2	2 native trees/10 parking space	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	Zoning Art XIV-Sec 14.1-2	2 native trees/10 parking space	1 tree is required for every 25 linear feet of parking lot frontage.	21: 17			
22	Significant Vegetation Preservation	Zoning Art V-Sec 5.4-3; Subdivision Sec 19-127	Preserve existing tree > 3" diameter	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	Zoning Art XIV-Sec 14.1-2	N/A	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 19-127	2 native trees/1 lot	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 Planing Requirements - Gender	Subdivision Sec 19-127	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			

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No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
PARI	(ING REQUIREMENTS							
27	Alternative Parking Lot Runoff Treatments	Zoning ArtXIV-Sec 14.1-4	Refer to Stormwater Runoff Control Regulations	A number of landscape and infiltration treatments are allowed/required within parking lots, including, 1) Infiltration bioswales, 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 Art XIV-Sec 14.1-7	N/A	The amount of vehicle parking spaces shall/may be reduced by one space for every 8 required bicyle 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 Art XIV-Sec 14.1-7	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 Art XIV-Sec 14.1-7	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 appeals	(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 - 30 Degree	Zoning Art XIV-Sec 14.1-1	angular and parallel parking may allow a narrower aisle	30 Degree: One-way - 12', Two-way - 24'.	15 :3-32			
32	Parking Lot Access Aisle Width - 45 Degree	Zoning Art XIV-Sec 14.1-1	angular and parallel parking may allow a narrower aisle	45 Degree: One-way - 12', Two-way - 24'.	15 :3-32			
33	Parking Lot Access Aisle Width - 60 Degree	Zoning Art XIV-Sec 14.1-1	angular and parallel parking may allow a narrower aisle	60 Degree: One-way - 18' (standard) 15' (compact), Two-way - 24'.	15 :3-32			
34	Parking Lot Access Aisle Width - 90 Degree	Zoning Art XIV-Sec 14.1-1	24' min	90 Degree: One-way - 24' (standard) 22' (compact), Two-way - 24'.	15 :3-32			
35	Parking Lot Access Aisle Width - Parallel	Zoning Art XIV-Sec 14.1-1	angular and parallel parking may allow a narrower aisle	Parallel Parking: One-way - 12', Two-way - 24'.	15 :3-32			
36	Parking Ratios - Single Family	Zoning Art XIV-Sec 14.1-7	2/unit	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			
37	Parking Ratio - Multi-Family	Zoning Art XIV-Sec. 14.1-7	2/unit	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			

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No.	CODE/STANDARD CATEGORIES	LOCAL CODE REFERENCES	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE				
38	Parking Ratio - Clinic	Zoning Art XIV-Sec. 14.1-7	3/treat room+1/doc and 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				
39	Parking Ratio - Church	Zoning Art XIV-Sec. 14.1-7	1/4seats	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				
40	Parking Ratio - Convinenece Store	Zoning Art XIV-Sec. 14.1-7	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				
41	Parking Ratio - Office	Zoning Art XIV-Sec. 14.1-7	1/300-400sf	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				
42	Parking Ratio - Shopping Center	Zoning Art XIV-Sec. 14.1-7	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				
43	Parking Ratio - Industrial	Zoning Art XIV-Sec. 14.1-7	1/employee (1/2employee if ride sharing/care pooling program applies)	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				
44	Parking Space Reduction	Zoning Art XIV-Sec 14.1-1	N/A	The total number of parking spaces can be reduced to 50% of the required if alternative needs are demonstrated.	14: 20				
45	Parking Space Reductions for Carpooling Programs.	Zoning Art XIV-Sec 14.1-1	N/A	Reduce parking requirement for companies and industries that have organized and formalized carpooling programs.	CDF				
46	Parking Space Reductions for Proximity to Mass Transit	Zoning Art XIV-Sec 14.1-1	N/A	Reduce parking ratios for proximity to mass transit.	21 :16				
47	Parking Space Reductions from Provision of On-Street Parking	Zoning Art XIV-Sec 14.1-1	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				
48	Parking Structure (garage) Allowances	Zoning Art XIV-Sec 14.1-1	N/A	Mixed-use parking garages should be encouraged in downtowns and other locations where land prices are high.	21 : 68				
49	Paving Requirement and Material	Zoning Art XIV-Sec 14.1-1	N/A	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				
50	Required Parking Minimums and Maximums	Zoning Art XIV-Sec 14.1-1	N/A	Minimum and maximum number of parking spaces allowed should be the same, unless approved by the City Manager.	14: 19				

	Kane County Codes and Ordinances Model Language Recommendations							
	Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project							
No.	CODE/STANDARD	LOCAL CODE	CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
	CATEGORIES	REFERENCES		· ·				
TRAN	ISPORTATION REQUIREMENTS							
51	Arterial ROW Width	Subdivision Sec 19-89	80'	Refer to Table 2				
52	Arterial Street Width	Subdivision Sec 19-93	commercial and industrial 24'	Refer to Table 2				
53	Bike Trails	Subdivision Sec 19-130-1	8' wide	Refer to Table 2				
54	Collector ROW Width	Subdivision Sec 19-89	120'	Refer to Table 2				
55	Cul-de-Sac ROW Width	Subdivision Sec 19-91	T shape may be allowed	Refer to Table 2				
56	Cul-de-Sac Width	Subdivision Sec 19-93	<500' long, <170' diameter, 70' radius, <15 lots	Refer to Table 2				
57	Curb and Gutter Requirements	Subdivision Sec 19-95	Curb and gutter may be required in urban subdivisions and in country subdivisions where the slop exceeds 7%	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			
58	Equestrian Trails	Subdivision Sec 19-72-5	N/A	Refer to Table 2				
59	Mid-Block Ped/Bike Easements	Subdivision Sec 19-72-5	N/A	Refer to Table 2				
60	Residential ROW Width	Subdivision Sec 19-89	66'	Refer to Table 2				
61	Residential Street Width	Subdivision Sec 19-93	urban 30'; country 24'	Refer to Table 2				
62	Road Alignment	Subdivision Sec 19-129	N/A	To the greatest extent possible, new roadways shall respect natural contours and ridgelines to minimize grading.	CDF			
63	Sidewalk Materials	Subdivision Sec 19-97	concrete	Varies, and to ADA standards.	10: 3-32			
64	Sidewalk Requirements	Subdivision Sec 19-97	both sides in urban res, commercial, and industrial; both sides in areas containing lots of 10,000sf and one side in areas containing lots of 20,000-40,000sf	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			
65	Sidewalk Width	Subdivision Sec 19-97	4'	4' Minimum to be ADA compliant. Wider walks should be used where pedestrian traffic warrants.	16: 21			
66	Stream Crossings	Subdivision Sec 19-93	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 perienial stream crossings to preserve stream channel width and natural stream substrates.	13: 4C-5			
67	Street Paving Material	Subdivision Sec 19-93	Bituminous	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 biofiltration.	CDF			
68	Woonerf Overlay District	Subdivision Sec 19-130-2	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			

	Kane County 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							
69	Clearing and Grading	Subdivision Sec 19-56	N/A	On-site clearing and grading shall be restricted to avoid environmentally sensitive areas.	7 :2-18			
70	Clustering	Zoning Art XII-Sec 12.1; Subdiv Art IV-Sec 19-131- 220	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.	10 :3-19			
71	Clustering - Objectives	Zoning Art XII-Sec 12.1; Subdiv Art IV-Sec 19-131- 220	N/A	Clustering of units should be used to fulfill one or more of the following objectives: 1) Minimized impact on natural, cultural and scenic resources; 2) Avoidance of rare plant communities and endangered species; 3) Connection to other existing or potential open space lands; 4) Minimize impacts on prime farmland, Slopes > 25%, drainageways, remnant native landscapes, etc; 5) Prevention of downstream impacts from runoff; 6) Protection of scenic views; 7) Protection of archaeological sites and existing historic resource; and 8) protection of other unique site features not already protected by this or other ordinances (floodplains, wetlands, etc.).	5 : 20; 15 :3-59			
72	Density Bonus - incentivised actions	Zoning Art IX-Sec 9	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 agricultural lands.	3			
73	Density Bonus/Incentives - Density Limits	Zoning Art IX-Sec 9	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			
74	Lot size	Zoning Art IX-Sec 9	varies by zoning category	The lot sizes specified within the zoning code shall be used to determine site yield. However, actual lot sizes may may be reduced to meet open space requirements and to provide flexibility to protect unique site areas not designated as unsuitable for development.	CDF			
75	Garages	Zoning Art IX-Sec 9	N/A	Attached garages with front access are not permitted on lots with alleys and/or rear parking lots.	14 :A-30			

	Kane County Codes and Ordinances Model Language Recommendations Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project							
No.	· · · · · · · · · · · · · · · · · · ·		CURRENT STANDARD	RECOMMENDED STANDARD/ACTION	SOURCE			
76	Infill Incentives	Zoning Art IX-Sec 9	N/A	Local governments should create financial incentives that encourage infill development.	CDF			
77	Non-Conforming Uses	Zoning Art VI-Sec 6.3	N/A	Non-conforming uses shall not be expanded.	15 :5-8			
78	Open Space Requirements	Subdivision Sec 19-252	10ac/1000pp	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			
79	Planned Unit Development Allowances	Zoning Art XII-Sec 12.1; Subdiv Art IV-Sec 19-131- 220	Allowed	Develop a mixed-use PUD ordinance that requires conservation- oriented mixed-use development with specific design guidelines and standards.	CDF			
80	Site Capacity/Yield	Zoning Art IX-Sec 9	Varies by zoning category	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			
81	Site Capacity/Yield	Zoning Art IX-Sec 9	N/A	Appliants 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 : A2-3; 17 :21			
82	Site Capacity/Yield - Lot size	Zoning Art IX-Sec 9	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 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			
	Site Planning Process - Site Visit Requirement	Zoning Art IV-Sec 4	N/A	Site visits by the permitting agency are required prior to approval of all development permits.	13 :II-22			
84	Site Planning Process - Specific Area Plans	Zoning Art IV-Sec 4	N/A	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.	15 :2-37			

Table 2: Recommended Transportation Standards Table

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 rard	n/a		14: 18
Two-Way Alley	n/a	16'	2	0	not rard	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 rard		16: 21
Local Res. Queuing	<1,500	25'-28'	1	2 @ 7'	7'-8'	not rard		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 rard		15: 3-40
Commercial Collector	1,500 - 5,000	36'	2	2 @ 8'	7'-8'	not rard		15: 3-40
Commercial Collector	1,500 - 5,000	37'	3+	0	7'-8'	not rard		15: 3-40
Commercial Collector	1,500 - 5,000	54'	3+	0	7'-8'	not rard		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 : ∥-32

[&]quot;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

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.

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 RecommendationsAppendix A Model Ordinance References

Ref No.	Ref No. Data Source		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.

Appendix B

Codes and Ordinances Comparison

		Code	s and Ord	inances Co	omparison							
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											
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.)			
		maintenance required; infiltration	, ·	Stormwater facilities								
Alternative Detention/Infiltration Allowances		system allowed	non-use area.	easement 20'								

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project Batavia Elburn **Kane County Kendall County** Yorkville Aurora Montgomery **North Aurora Sugar Grove ENVIRONMENTAL STANDARDS** Mill Creek corridor Refer to proposed Buffers buffer required 100' greenbelt wetland ordinance Maintenance plan Maintenance plan Maintenance plan Maintenance plan Maintenance plan Maintenance plan and conveyance to Maintenance plan and conveyance to responsible entity and conveyance to responsible entity responsible entity responsible entity responsible entity esponsible entity Homeowner's Buffer Maintenance (Kane Co.) (Kane Co.) Kane Co.) responsible entity (Kane Co.) Kane Co.) Kane Co.) Association Included in the Environmental Corridor width 200 min.; buffer width: 25'; Setback: 75'. 100' greenbelt for Buffer width varies the Village; 15 - 50 15 - 50 feet, from 15 to 50 feet, Varies from 15 to 50 15 - 50 feet, 15 - 50 feet, 15 - 50 feet, feet, depending on depending on feet, depending on depending on depending on depending on depending on drainage area and stream quality (Kane stream quality (Kar stream quality (Kane >75' in length; 25' stream quality (Kane stream quality (Kanstream quality (Kan stream quality County stormwater Co. Stormwater Co. Stormwater (Stormwater in width with native Co. Stormwater Co. Stormwater County Stormwater Refer to proposed Streams Buffer ordinance) Ordinance) Ordinance) Ordinance) species vegetation Ordinance) Ordinance) Ordinance) wetland ordinance Included in the Environmental Corridor width 200 min. Buffer width: 25'; Setback: 75'. Buffer width varies Varies from 15 to 5 100' greenbelt for from 15 to 50 feet, the Village. 15 - 50 feet, depending on 15 - 50 feet, 15 - 50 feet, depending on 15 - 50 feet, feet, depending on depending on wetland area and depending on 15 - 50 feet, depending on wetland area and wetland quality wetland area and wetland area and depending on wetland area and vetland area and wetland quality quality (Kane Co. quality (Kane Co. quality (Kane Co. 30'-100' setback; (Kane County quality (Kane Co. wetland area and Kane County stormwater Stormwater Stormwater quality (Stormwater >25' with native Stormwater Stormwater Stormwater Refer to proposed Wetlands Buffer ordinance) Ordinance) Ordinance) Ordinance) plants, 75' in length Ordinance) Ordinance) Ordinance). wetland ordinance

Blackberry	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						-		-			
Floodplain Restrictions	Prevent from development in Comp Plan Policy; Compensatory storage required for floodplain fill (Kane County stormwater ordinance)	floodplain fill (Kane	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 wetlands, rivers,	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 minimize negative	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. Natural features preservation	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)		
Natural Assas Plan Consuling	preservation encouraged in		NARI > = 20-	streams, creeks, and any other unique	alteration of natural	encouraged ("shall be given due	Scenic views preservation on Fox		to be determined- watershed		
Natural Areas Plan Compliance Open Space Design	Comp Plan Policy	15 ac/1000 people + fprest preserve and reginal facilities. 10-20 ac min./1000 people 66' NIGas as	Parkland dedication /Open space in flood-prone areas	areas.	features. 30' access esmnt 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	10 ac per 1000 land cash		
Other Environmental Codes	be provided (Comp Plan Policy)	opportunity for	Open Space/Greenbelt		buffer zone along rural character			native plants within buffers			

		Code	es and Ord	inances C	omparison							
Blackberr	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									
		Minimize the	major stand of trees,	conservation easements 50ft								
Special Zoning for Environmentally Sensitive Areas	Development restricted (Comp	impact	and riparian zone	buffer zone.								
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			

Blackbe	rry Creek Wate				omparison		ndations Pro	iect	
Zimonse	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville
LANDSCAPE STANDARDS				,	,	, , , , , , , , , , , , , , , , , , ,		J	
Native Plant Allowances/ Requirements	50% of trees must 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 between sidewalk		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
	8', 30' min.spacing;25'med	1	Cul-de-sac island		tree 1/40lf; planting on both side of the	and curb; street	Every 40'/2 per lot/3" caliper @ 12"	7' wide and 20-30 lf per shade tree and 6	
Street Landscape Requirements	/20'small	Parkway tree 1/35 lf			street	center	off ground	shrubs	21/2" ca. At 6"
Tree Planting Requirements	1 1/2" caliper at 6" from ground		2" ca;. Along greenbelt at 30', street trees at 40' spacing, 21/2" cal. At 6"	2 native trees/1 lot		2 1/2" caliper @ 1 foot from the 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.	Preserve existing tree > 3" diameter	Wherever possible existing trees shall be preserved	Yes. 4'+ Caliper requires permit (Not in SF duplex) with replacement standards	Preservation policy mandated in Comp Plan	Tree survey and preservation plan required	credit for saving trees above certain size and type
Turf Grass Requirements			Greenbelt streamedge in riparian area			Yes, within ROW	Yard area requirement with sod		All non-paved ROW areas

	Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project										
Black	berry Creek	Watershed Z	oning Code A	Analysis and	Ordinance La	anguage Reco	mmendation	s Project			
	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			parking standard		
Bicycle						spaces	1/20 auto spaces non-res. Minimum of 2 spaces (Comp Plan)		SIZE 0.3A2U		
,	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	Joined parking	Total for joint is no	Allowed for alternately timed				
,	Policy 12' 1-way @ 90 degrees/20' 2-way	12 ft		appeals 24'min.angular and parallel parking may allow a narrower aisle	allowed	less than the sum	uses 12'-18' 1-way/24' 2- way (13' for 45 degree parking)	12' (one-way) to 24 (two-way) in width	Yes, same as sum		
	Refer to Kane	Refer to Kane County Stormwater Runoff Control	Refer to Kane County Stormwater Runoff Control	Refer to Stormwater Runoff Control Regulations	11.20	Detention/retention basins and ponds areas shall be planted. Also refer	Refer to Kane County Stormwater Runoff Control	Refer to Kane County Stormwater Runoff Control Regulations	sheet flow or storm sewer		

21	Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
Black	kberry Creek	Watershed Z	oning Code	Analysis and	Ordinance La	anguage Keco	mmendation	s Project				
	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	162 sf min. 8.5'X19'	8'X22' minimum size	9'X18' (9'X21' Res.)	Accessibility Code Standards	90 degree 9'- 9.5'X18.5'		9'X18.5' (20' for parallel parking)	16'(handicapped) 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	Yes	asphaltic concrete or some comparable all-weather, dustless material	Yes		Bituminous concrete		Yes	concrete or asphalt	Yes			
Required Parking Ratios						4 (2in,2out) Dup-2		<30% or 700sf/unit				
Single Family		2/du	2/du	2/unit	2/1unit	(1in, 1out)	1/du	- 2/du	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		1in & 1 out/unit			

	Codes and Ordinances Comparison											
Black	berry Creek	Watershed Z	Coning Code	Analysis and (Ordinance La	inguage 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/unit + 1/employee	1/300sf for ancillary	1 space/room + 1 space/employee + additional for accessory uses	1/unit + 1 for manager			
	3/dn + 1/2	1/treatment room + 1/100sf waiting room +	3/1000sf for > = 5000sf// 5/1000sf dor	3/treat room + 1/doc	' '	42/1		1 space/2 beds + 1 space/2 employees				
	employee 1/6 seats	1/employee	< = 5000sf 1/4seats (1/90" of seat)	and employee 1/4seats	1/200sf 1/3seats	1/3 seats		+ 1 space/2 doctors 1 space/4 seats or 90 inches of seating capacity	3/doctor 1/6seats			
Convenience Store		6/1000sf	6/1000sf	1/300sf		1/200sf		5/1000 sf	1/300sf			
	1/400sf	4/1000sf	3/1000sf for > = 5000sf// 5/1000sf dor < = 5000sf	1/300-400sf		1/200sf	1/400sf	5/1000 sf < 5,000 sf; 3/1000 sf > 5000 sf building size	1/400sf			
Shopping Center	1/300sf	6/1000sf	5/1000sf	1/300sf	1/200sf	1/200sf	6/1000sf	5/1000 sf	1/300sf			
	1/4 employees +	1/2employees or <25% lot + 1/1	1/1000sf or 1/1.25 employee (whichever is	1/employee (1/2employee if ride sharing/care pooling	1/enterprise vehicle	1/employee + 1/business vehicle	employees + 1/200	or 1 space/1.25 employees,	1/employee+1 for each Company			
Industrial	company vehicles	business vehicle	greater)	program applies)	+ 1/1000sf	(no < 1/600sf)	sf over 2000 sf	whichever is greater	vehicle			

Codes and Ordinances Comparison Blackberry Creek Watershed Zoning Code Analysis and Ordinance Language Recommendations Project											
Blackberry	Creek Wate	rshed Zoning	Code Analys	sis and Ordin	ance Langua	ge Recomme	ndations Pro	ject			
	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				
Multi-Use Trails											
Mid-Block Ped/Bike Easements		Bicycle and pedestrian review trails; Riverwalk improvement	May be required for blocks >800' at 12'			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									Alleys OK in		
Alley	Not permitted	18'	24' non-res.		no alleys allowed in residential except special permission	60'	50'		commercial & industrial, but not in residential		
P. Charles	661	661	frontage Rd50'	661	701	661	ccl	6.61	ccl		
Residentia Arteria	66' 66'-80'	66' 66' or 80'	minor-66' Primary 80'-100'	66' 80'	70' 80'	66' 80'	66' 100'	66' 80'	66' 80'-100'		
Collector		100'	Minor-70'; major 80'	120'	100' 90'diameter; 100'	100' ; 80'-100' (OR1)	80'	100'	80'		
Cul-de-Sac	166'	66' T-shaped allowed (but discouraged)	130' (res.) diameter	T shape may be allowed	diameter in commercial and industrial	paved (> = 84') + 28' (inconsistent)	66'		130' radius		
Sidewalk			(rest) Granteter								
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		

Blackherry	· Creek Wate			inances Co	-		ndations Pro	iect	
2 Access on y	Aurora	Batavia	Elburn		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' in residential; 5' in commercial		5' min.	5'	5'
Materials Street Width	PCC	PCC Marginal access 20'	PCC	concrete			PCC required	concrete	PCC, concrete
	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	
Vegetated Open Channel		,							Encouraged on a case-by-case basis

					omparison				
Blackberry	Creek Wate	rshed Zoning	Code Analy	sis and Ordir	nance Langua	ge Recomme	endations Pro	ject	
	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'
		A site grading permit is required, including an erosion			Protect floodplains, wetlands, and steep slopes from clearing, grading, filling or			The topography and geology of the dedicated site as well as its surroundings must	
Clearing and Grading		control plan.			construction			be suitable for its	
	Encouraged in	Yes, 33% Min. for open space; Cluster developments are mandated whenever possible as a means to meet the density provisions while providing for the open space objectives and scenic vistas, and the advantages gained for infrastructure					Yes. If development constraints or significant amenities		per Comprehensive
Clustering (Gross Density)	Comp Plan	extensions.					are provided		Plan
B					bonus credit to				
Density		z 1 d/1		0.5 du/ac	innovative design			1 -1/	1 -1/
Estate		< 1du/1ac < 3du/1ac	3.5 du/ac (R1 SF)	0.5 du/ac 1.1 -1.5 du/ac	0.45 du/ac 0.6-1 du/ac			1 du/ac 2du/ac	1du/ac 2.42du/ac
Large Lot		< 3du/Tac	7 duplexes/ac (R2-	1.1 -1.5 du/ac	0.6-1 du/ac			2du/ac	2.420u/ac
Medium Density		< 4du/1ac	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	8units/ac(R3); 12du/ac (R4)	8 du/ac	3.5 du/ac		MD = 3.6 - 8 du/ac	5du/ac	8du/ac
Driveway		- Saarrac	1200/00 (11)	o da/ac	3.3 da/de		710 510 G dayac	Saarae	odd/de
·		Yes, 33% Min. for							
Requirements		open space			ļ	Yes		ļ	Yes
Shared					allowed				No standards
Width			12'						25' min. at property line
· · ·									Concrete, estate res.
									Allow bring; asphalt
Materials						PCC			or concrete
			General Commercial & Commercial						10' rear utility esmnt required; Ofc 20,000 sf; NC:
			Manufacturing -					1	20,000 sf; NC: 10,000 sf; GC:
Lot Size	width 60'/75' min.		30,000 (100')					frontage 10'-50'	10,000 si; GC:
		43560sf		400 > 2501 wid-	90000-130000sf	18500 sf (125'	14000 sf		,
Estate		4330UST	4 ac (125')	4ac, >250' wide	90000-130000st	frontage)	14000 ST	1 ac	1 ac (200')

Blackberry	⁄ Creek Wate	Code			omparison ance Langua	ge Recomme	ndations Pro	ject	
	Aurora	Batavia	Elburn	Kane County	Kendall County	Montgomery	North Aurora	Sugar Grove	Yorkville
ZONING/SUBDIVISION STANDARDS									
Large Lot	10000sf	14000sf	1ac (100') (rural)	1-40 acres, 100'wide max in Rural residential	20000-45000sf	14000 sf (100')	10000 sf (70' average minimum)	18750 sf min. non- res. 40000sf	18000 sf (100')
Medium Density	18000sf	Single Family 7200ft/9500ft	10000sf (75') (R1 and R2)	40000sf, > 125' wide (single family)	>15000sf	11000 sf (70')	8400 sf (70')	10000sf, non-res. 40000sf	R2: 12000 sf (80'); R3 Duplex/Trip.:15000 sf(100')
High Density	10000sf (Dup/Trip); Industrial 3 acres, 200' frontage	Two Family 7500sf/du; Multiple Family 100,000sf	5000sf (80') (R3); 3000sf (80') (R4)	20000-60000sf, > 75-150' wide (two- family)	>7000sf	TND 9000 sf (75'); Duplex 7200 sf (60'); Townhome 11000 (75'); Office 25000 (!20')	10000 sf (70')- Duplex; MF = 9000 sf+3000 sf/unit (60'); Townhome = 9000 sf(75') Yes but no	10000sf, 6000sf, 4000sf	9000 sf (70'); R4:15000 sf (90')
Mixed Use Zoning Allowances	Downtown	Yes Per PD Agreement		Allowed		Downtown	residential	within PUD	Through PUD
Neighborhood Commercial in Residential Zone Allowances		or Annexation Agreement							
Planned Unit Development Allowances		Yes	Yes	Yes		Yes	Yes, 200+ acres	Yes	Yes
Recreational Areas Allowed			Yes, Greenbelt, parks			Park land dedication for all subdivisions			
					30% of property or 25% of buildable area should be open		10 Acres/1000 people (No private parks for credit, not		Land Cash Ordinance & Developers Stds (10 ac/1000 pp)&(Park
Open Space Requirements		10 ac/1000 people		Yes, 25% planting	space.		including wetlands,	10 ac/1000 people	and Rec)
Neighborhood Park		> 3-5 ac, 3ac/1000pp		3.5 ac minimum, 1ac/1000 people		5 ac	5 acres min.		
Village Park	4	4-20ac, 2.25/1000pp		4-30 ac, 1.25 ac/1000 people		4-20ac	12-30 acres		
Regional Park		12-30ac, 3.5ac/1000pp		12-30 ac, 2ac/1000 people		12 ac min.			
Pocket Park		>8000sf; school park > 5ac, 1.25ac/1000pp		1-5 ac, 1.25/1000 people, scool parks included		8000 sf			
Setbacks	Front/Side/Exterior Side/Rear	Front-Side-Exterior Side-Rear	Front/Side/Exterior Side/Rear	Front-Side-Rear	Front-Side-Exterior Side-Rear	-	Front/Side/Exterior Side/Rear	Front-Side-Rear	Front/Side/Exterior Side/Rear
Estate Residentia		35'-15'-35'-50'	40'/15'/40'/40'	35'-10'-10'	50'-25-50'-50'	40'/20'/40'/40'		50'-30'-30'	50'/20'/50'/40'
			40'/15'/40'/40' (Rural);						
Large Lot Residentia		30'-15'-30'-30'	30'/10'/30'/30' (R2-	35'-10'-10'	30'-10%-50'	35'/15'/25'/30'	30'/8'/30'/40'	30'-15'-30'	40'/15'/40'/50' R2:30'/10'/30'/40';
Medium Density Residentia	30'/8'/15'/20'	30'-12/10'-30'-30'	Duplex)	35'-10'-10'	25-40'-10%-30'	30'/12'/20'/30'	30'/7'/30'/30'	30'-10'-30'	R3: 30'/10'/30'/30'

Blackberry	v Creek Wate				omparison nance Langua		ndations Pro	iect	
	Aurora	Batavia	Elburn	Kane County	Kendall County	Ĭ	North Aurora	Sugar Grove	Yorkville
ZONING/SUBDIVISION STANDARDS				,	,	3 ,			
High Density Residentia		30'-30'-30'	25'/15'/25'/30' (R3); 30'/15'/20'/30' (R4)		25-40'-10%-30'	ex - 25'/20'/10'/30'; Townhome - 25'/15'/25'/30'	30'/7'/25'/30' l (Dup/Trip); 60' front	25-30'-10-15'-25-30	
General Commercia	15'-30'/30-/-	25'	50'/10'/50'/30'	35'-10'-10'	30-50'-10'-20'	10'/5'/20'/20'		60'-10'-30'	0'/20'/30'/20'
Neighborhood Commercia		15'	60'/35'/60'/50' (Commercial Residential)	35'-10'-10'		101/51/101/201		201 51 201	0'/20'/20'/20'
Neignbornood Commercia		30'-15'-30'-30'	40'/20'/40'/20' (Commercial Manufacuring)	100' to adjacent land use, 50' to street		10'/5'/10'/20' 25'/20'/20'/20'	30'/15'/30'/30'	20'-5'-20' 40'-25'-50' (75' buffer around 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									
			33% (1450 sf one-						
Estate Residentia	<u> </u>	FRA 0.2	story) 33% (1450 sf one-		10-20% <75%, total dwelling units <	FAR=0.35 at 35%		0.3	0.3
Large Lot Residentia	0.4	FRA 0.3	story) 33% (1300 sf on-		20%	FAR = 0.35 at 35%	0.4	45%, FAR = 0.4 max 35%, FAR = 0.45	0.25
Medium Density Residentia	0.4	FRA 0.3/.35	story SF) (R2)		35%, FRA=0.5	FAR = 0.35 at 35% FAR = 0.6 at 35%;	0.4	max	R2:20%; R3:30%
High Density Residentia		FRA N/A (practial limitation are 3.0 to 4.0)	50% (R3); 60% (R4)		35%, FRA=0.5	TND FAR = 0.6 @ 35%; Duplex = 0.6 @35%;	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	IFAR = 1.0	FRA 1.2			FRA < 0.5, impervious < 70%	FAR = 1.0		FAR < 1.5	0.5
Industria	l 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 FRA 2.0			<70%	FAR = 0.6			Office: 50%
Site Planning Process	<u> </u>	 				 	 	ļ	
Site Capacity Calc Specific Area Plan	sWestside/PUD				Four-Step Process, designating the Open Space first; suitability of land should be considered				