Form-Based Code Circuit Training!

PAW Boot Camp

Mercer Island, November 15, 2019

Bob Bengford AICP Scott Bonjukian AICP Ian Crozier AICP





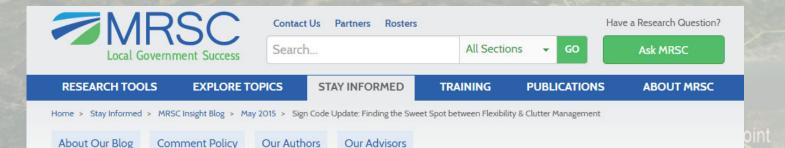
Training Exercises

- **1.** Form-based codes calisthenics
- 2. Code initiation sprints
- 3. Land use reverse lunges
- 4. Housing diversity aerobics (including a VPS drill)
- 5. Community design jumping jacks
- 6. Block frontage bench dips
- 7. Site design sit-ups
- 8. Building design stair climb
- 9. Parking push-ups
- **10.** Lessons learned stretches



Case Studies

- Anacortes: 2016 2019
- Mountlake Terrace: 2018-2019
- South Tukwila: 2019 Current
- Issaquah: 2019 Current
- Carnation: 2017-2018
- Bozeman, MT: 2015-2018
- Waxhaw, NC: 2015-2018
- Ellensburg: 2010-2012
- Clark County HWY 99: 2008-2009



A Hybrid Approach to Form-Based Codes in the Northwest

March 1, 2012 by Bob Bengford Category: Planning Advisor

This Advisor column was originally published in January 2010.

Can form-based codes be applied to Nor course.

Are they appropriate for your community

Below are some things to think about if y updating your land use/design codes usin

About Form Based Codes

Established first in Florida in 1982 as an al codes (FBC's) regulate development to ac include prescriptive requirements on the frontages and on the design of streets an existent. The Form-Based Code Institute's information on the topic.

Most form-based codes have been applie with well established character and/or a v consolidated ownership. By their nature

Visualizing Compatible Density

April 10, 2017 by Bob Bengford Category: Planning Advisor, Design



Density is a controversial subject in virtually all American and communities are seeking more density to promote e oth * Back to top e goals, density is more often a thing to b

Google Earth - A City Planner's Best Friend

March 1, 2014 by Bob Bengford Category: Tools for Planners , Planning Advisor

By Bob Bengford AICP, MAKERS

transportation hubs or other strategic locations plus multifamily infill in neighborhood

centers. Demographic changes in concert with fuel costs are increasing the demand for

compact multifamily housing in Western Washington and throughout the country. With

rising land costs, cities are finding it increasingly difficult to create new parkland to serve this

increased density. Thus, it's becoming increasingly important for cities to update regulations to provide for usable on-site open space associated with multifamily development.

Rarely a day goes by at the office now where I don't use Google Earth. As a planning and urban design consultant working for several communities throughout the Pacific Northwest at any given time, it's an incredible tool to have at your finger tips. When curiosity beckons or specific research information is needed, you only need a few clicks on the mouse and Planned Unit Developments - Real World keyboard and voila, you are flying overhead. (Bing Maps are pretty use aerial perspective views, which aren't offered on Google Earth.)

> Experiences new "goodi

ings and tre

Google Ear

November 1, 2012 by Bob Bengford Category: Subdivisions and Planned Developments , Planning Advisor

By Bob Bengford, AICP, MAKERS

Introduction

The concept of planned unit developments has been around now for guite some time. Most Soogle Eart cities and counties in Washington have adopted planned unit development ordinances. te, street, n Much has been written over the years about the technical and legal nature of PUDs. This atterns article, however, takes a look at how some of these ordinances are working in the real world. What are the major issues and challenges? Are PUD ordinances even necessary?

What is a Planned Unit Development (PUD)?

A PUD is both a type of development and a regulatory process. Individual definitions can vary greatly depending on the community or jurisdiction and its goals. The purpose of a PUD is generally to allow greater flexibility in the configuration of buildings and/or uses on a site than is allowed in standard zoning ordinances. A major goal of PUDs is often to encourage unified plans that provide a more complete and integrated package (hopefully including special amenities) over piecemeal development. A typical PUD would include a cluster of small lots in conjunction with a common usable open space with some recreational

Sign Code Update: Finding the Sweet Spot between Flexibility & Clutter Management

May 26, 2015 by Bob Bengford Category: Planning Advisor, Sign Control



Image courtesy of Melissa

MRSC Advisor Joe Tovar, FAICP, Tovar Planning, contributed to this post.

I Lacey reached out for help in 1997 to transition Lacey's new vision. While the strict vere perceived as restrictive

Who's Here?

- County planners?
- City planners?
- Consultants
- Public officials?
- Other?

Who's Here?

• Current or long range planning?

Who's Here?

- Current or long range planning?
- Have you been to any of the Form-Based Code Institute Training classes?
- Have you been involved in a code and/or design standards project?

Introductions.....

Name

- Who you work for
- What elements of FBC/Hybrid FBC you are most interested in





Form-Based Code Calisthenics

Form-Based Codes?

Greater emphasis over physical form of development over specific land uses

- What the street looks like
- What private development looks like from the street

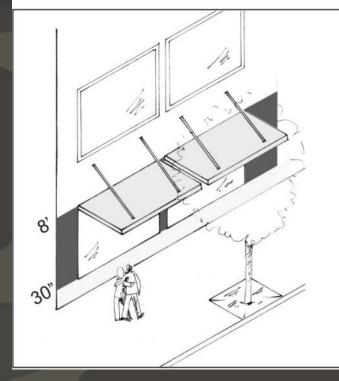
An alternative to.....

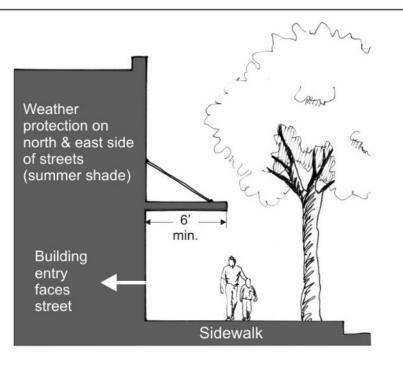




 FBC organized around development intensity and form (over uses)

• What it looks like from the street





Storefront Street Standards

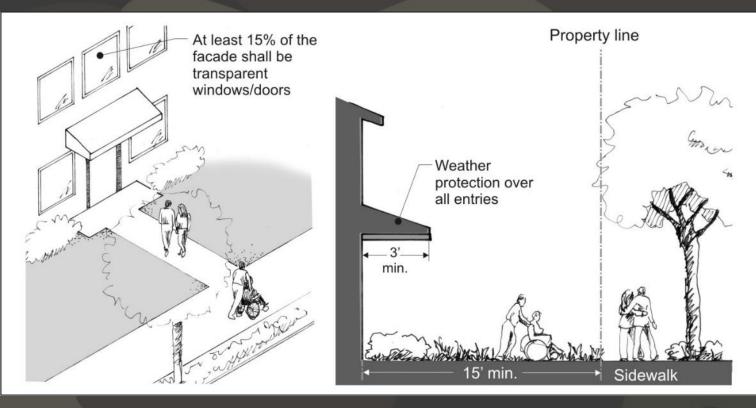
- Building located adjacent to sidewalk with direct entry onto sidewalk
- Parking to the rear of buildings encouraged; no more than 60' of street frontage may be occupied by parking
- Retail/Commercial use required on ground floor to min. 30' depth
- Weather protection over all entries (at least 3' deep) and at least 6' deep along at least 70% of facades on north and east sides of streets
- Transparent window area along at least 70% of ground floor facade between 30" and 8' above grade

• What it looks like from the street



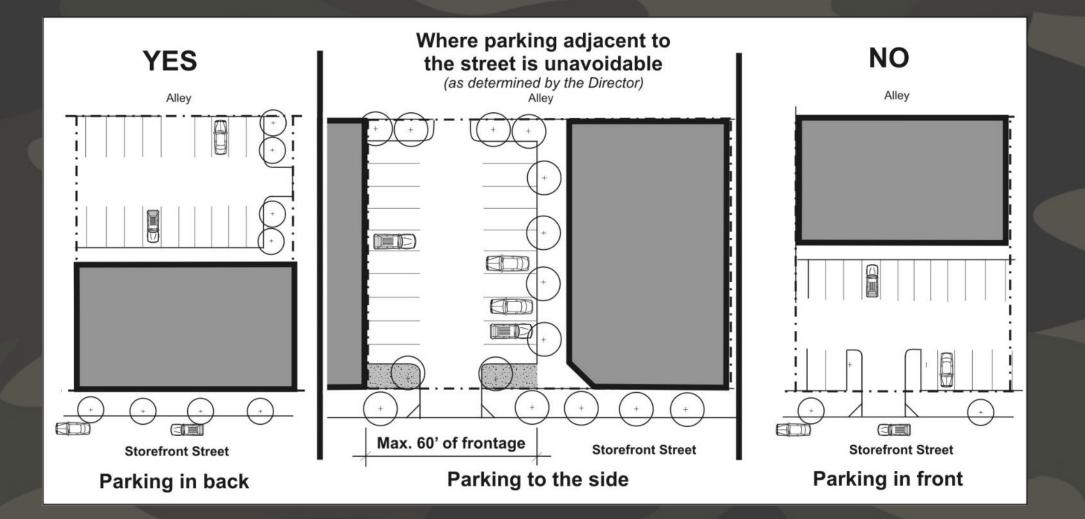


• What it looks like from the street



Landscaped Street Standards

- 15' minimum building setbacks
- No more than 50% of street frontage may be occupied by parking or vehicular access
- At least one building entry is visible from the sidewalk
- Weather protection at least 3' deep over all entries
- Transparent windows/doors shall occupy at least 15% of facade



FBC's Slow to Come to NW

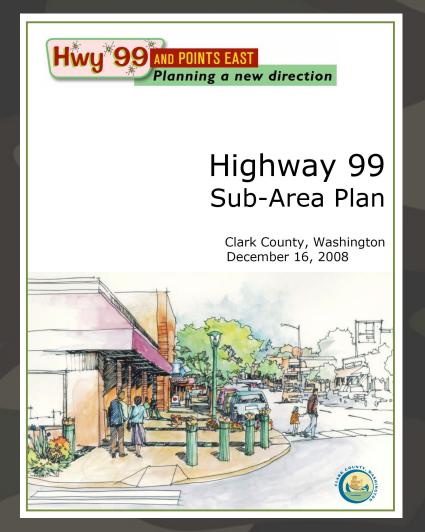
- Origination far from NW
- Physical and political challenges
- NW' strong history with design guidelines

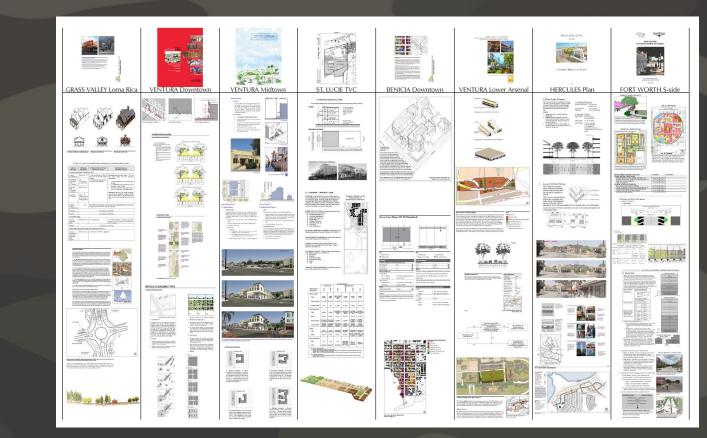
Some Challenges to FBC's

• Adapting to varied and unique local context (physical and political)

- Massive logistics of changing existing code
 - One district or whole city?
 - Entire code or just parts
 - Educating participants about the change
 - Awareness of the details, implications
 - Overcoming fears of change
 - o **\$\$\$\$\$**\$

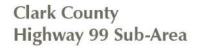
Our Experience with FBC's





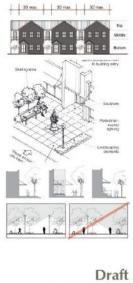


Clark County Hwy 99 FBC

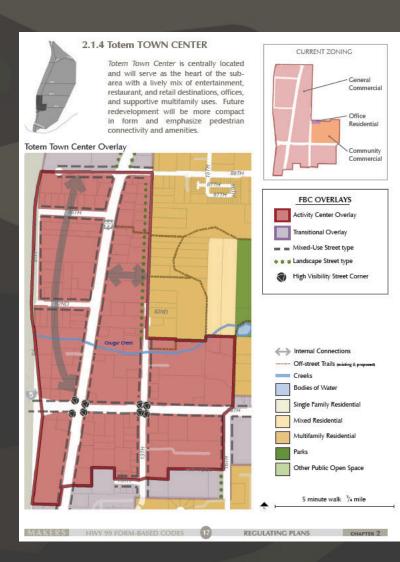


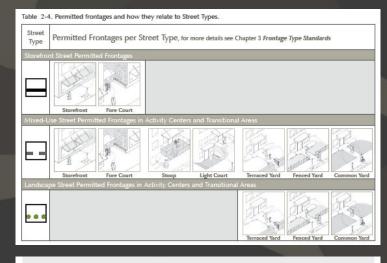


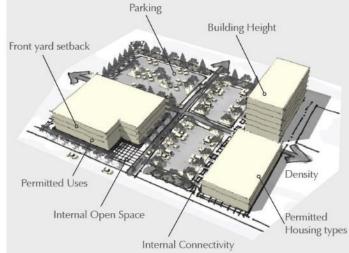
Title 40 Appendix F Highway 99 Overlay District Form Based Standards











Clark County Hwy 99 FBC

4.2 Activity Center Overlay

Emphasizes uses and design that attract pedestrian activity.

Building Placement

Front Setback Requirements:
 Distance = 0'- 20' setback
 See Chapter 3 for setback requirements related to

applicable frontage types.

- B Side and Rear Setback Requirements:
- Firewall option (no windows) = 0' setback; above 25' tall=10' additional stepback for non-storefront buildings
- General (side/rear) setback = 10' min.
- Setback between structures = 10' min.
- Rear adjacent to SF zone = 25' min.
- See Section 5.1 for further side/rear yard details

D Internal Connectivity

Create internal vehicular and pedestrian access when indicated on regulatory maps. • See Section 5.3 - 5.4 for further details

(E) Internal Open Space

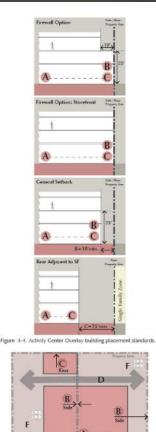
See section 5.2 for design standards for the required open space

Commercial uses;

- 2 sq ft of pedestrian-oriented space per 1 lineal foot along frontages
- Residential uses:
- 10 % of livable floor area

F Parking

- Location and maximum frontage: • <u>Storefront Streets</u> = 33% and side/rear • <u>All other streets</u> = 50 % and side/rear Amount and Design:
- See Section 5.5 for parking standards
 See Section 8.4 for parking lot landscaping requirements



3.2 Permitted Frontage Types

Table 3-2. Frontage Type Standards cross referenced with street types.

The chart below illustrates a range of development frontages and the particular street types and overlays where they are permitted (shaded boxes). Combinations, or hybrids of multiple frontage types are permitted.

Overlays and Street Types

	Frontage Type not permitted	Activity Centers			Transitional Areas		Residential Areas		
	Frontage Type permitted	Store- front Street	Mixed- Use Street	Land- scape Street	Mixed- Use Street	Land- scape Street	Multi- family	Mixed	Sing
Frontage Types				and a series					i.
- 4	3.3 Storefront Façades located adjacent to the sidewalk.	~	~		~				
	3.4 ForeCourt Uncovered courtyards within a storefront setting.	~	~		~				
	<u>3.5 Stoop</u> Elevated platform entry ways.		~		~		~		
10	3.6 Light court Sunken courtyards in tandem with raised platforms.		~		~		~		
E	3.7 Terrace yard Raised lawns or gardens separated from the frontage line by a retaining wall.		~	~	~	~	~	~	~
E	3.8 Fenced yard Distinct separation between the public and private realms.		~	~	~	~	~	~	~
	3.9 Common yard Visually continuous landscaped space along adjacent yards.		~	~	~	~	~	~	~

6.3 Building Materials

INTENT

- To encourage high-quality building materials that enhance the character of the area.
- To discourage poor materials with high life-cycle costs.
- To encourage the use of materials that reduce the visual bulk of large buildings.

6.3.1 Metal Siding Standards¹

Masonry, concrete, or other durable material must be incorporated between metal siding and the ground plane (at least 2 feet above grade).



combination of metal siding, concrete block and wood shingles (Duvall, WA).

6.3.2 Concrete Block Standards¹

When used for the primary façade (containing the primary pedestrian entrance), buildings are encouraged to incorporate a combination of textures and/or colors to add visual interest. For example, combining split or rock-façade units with smooth blocks can create distinctive patterns.

Specifically, a singular style and texture of concrete block may comprise no more than 50 percent of a façade facing a street or open space.

6.3.3 Stucco Standards¹

(1) <u>Proper trimming.</u> Stucco and similar troweled finishes (including Exterior Insulation and Finish system or "EIFS") must be trimmed in wood, masorny, or other material and must be sheltered from extreme weather by roof overhangs or other methods and are limited to no more than 50 percent of façades containing a custome or resident entry.

(2) <u>Weather exposure</u>. Horizontal surfaces exposed to the weather must be avoided.

(3) <u>Treatment near ground level</u>. Stucco, EIFS, and similar surfaces should not extend below 2 feet above the ground plane. Concrete, masonry, or other durable material must be used below the 2-feetabove-grade line to provide a durable surface where damage is most likely.

Departures will be considered to the above Building Materials standards provided the use of materials and the façade design meets the intent of the standards. Applicants must demonstrate that the materials are durable, particularly where used near the ground level.

CCC Title 40 Appendix F



Figure 6-42. An example of an acceptab

x of smooth and split-faced concrete blocks

Figure 6-43. This building employs a single type of concrete block, but it comprises less than 50% of the façade (Snoqualmie, WA).

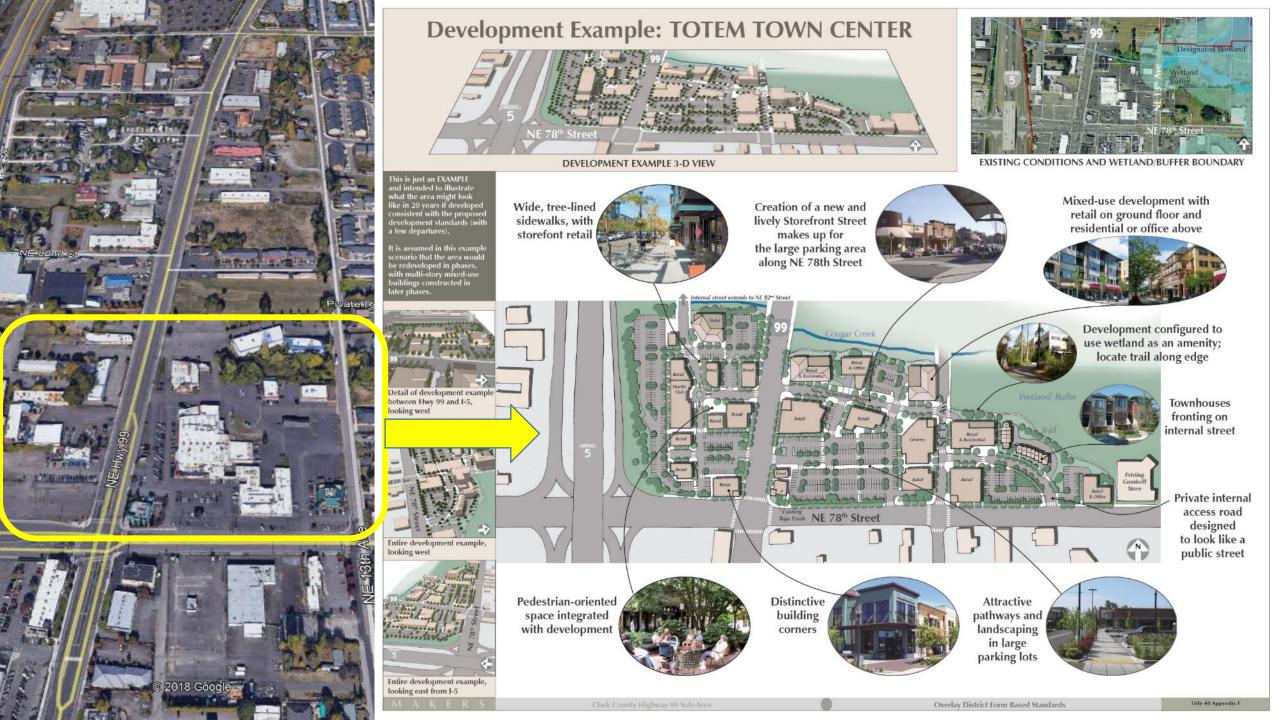


Figure 6-44. This building combines stucco and concrete block.

97 BUILDING DESIGN TOOLBOX CHAPTER 6

Figure 4-5. Site design elements for the Activity Center Overlay.

ast 2 feet above wood shares Doualt



Clark County Hwy 99 FBC

FIRE LANE

NO PARKING

08/19/2013

Outcomes in district slower than anticipated, but this grocery store went in quickly after the code, and the design if much better because of the code than otherwise

08/19/2013

A Northwest Interpretation:

A Hybrid Approach to Form-Based Codes in the Northwest

March 1, 2012 by Bob Bengford Category: Planning Advisor

This Advisor column was originally published in January 2010.

Can form-based codes be applied to Northwest communities? Of course.

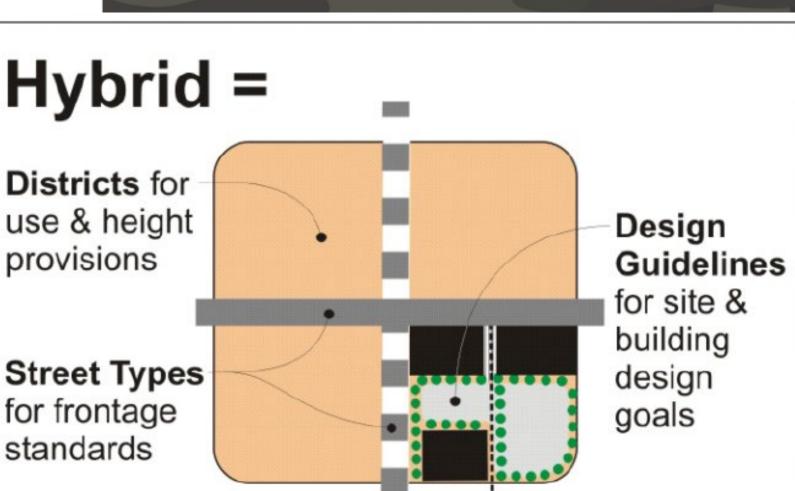
Are they appropriate for your community? It depends.

Below are some things to think about if you are considering updating your land use/design codes using a form-based approacl

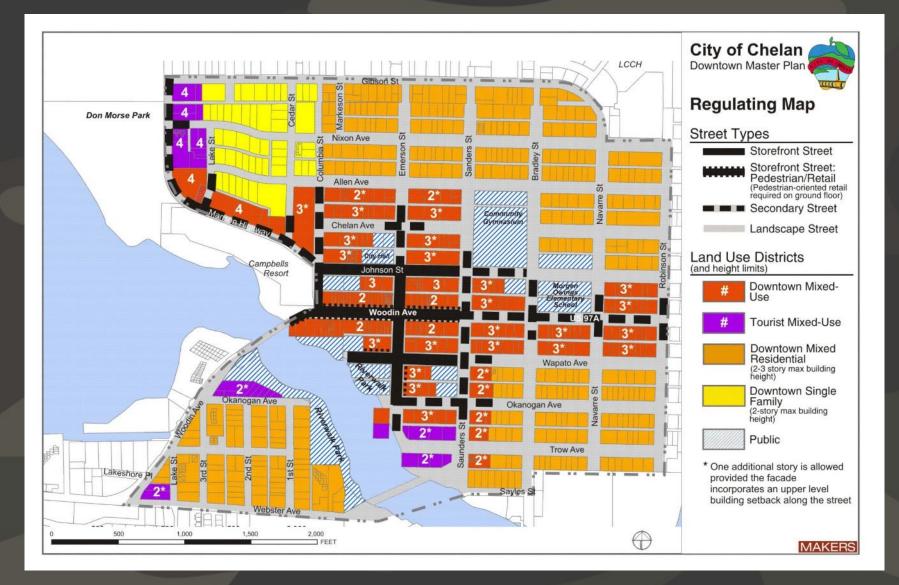
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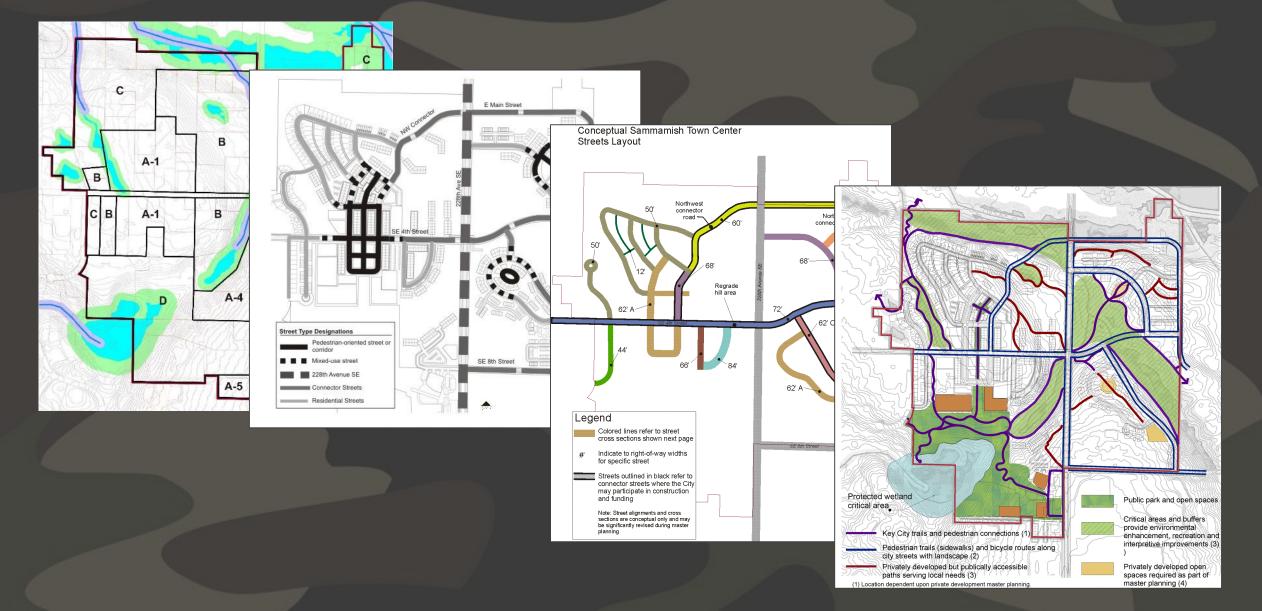
Most form-based codes have been applied to historic downtowns with well established character and/or a well-defined vision, or ma consolidated ownership. By their nature, they are often very detail



Chelan Downtown Code



Sammamish Town Center







Lessons Learned Stretches

Lessons Learned

- 1. Determine what's most important in terms of land uses, community design, and economic development objectives
- 2. Choose a "workable" regulatory approach with special attention to the review process and available staffing/expertise
- 3. Look at a lot of case studies both in terms of codes and actual communities
- 4. Involve the full range of stakeholders help them foster a sense of ownership in the codes
- 5. Help participants understand the implications of various options
- 6. Pick your battles it's OK to "parking lot" some items