Unpacking Form-based Codes in a British Columbia Planning Context



- Introduction
- Research Questions
- Methodology
- Findings
- Recommendations
- Closing

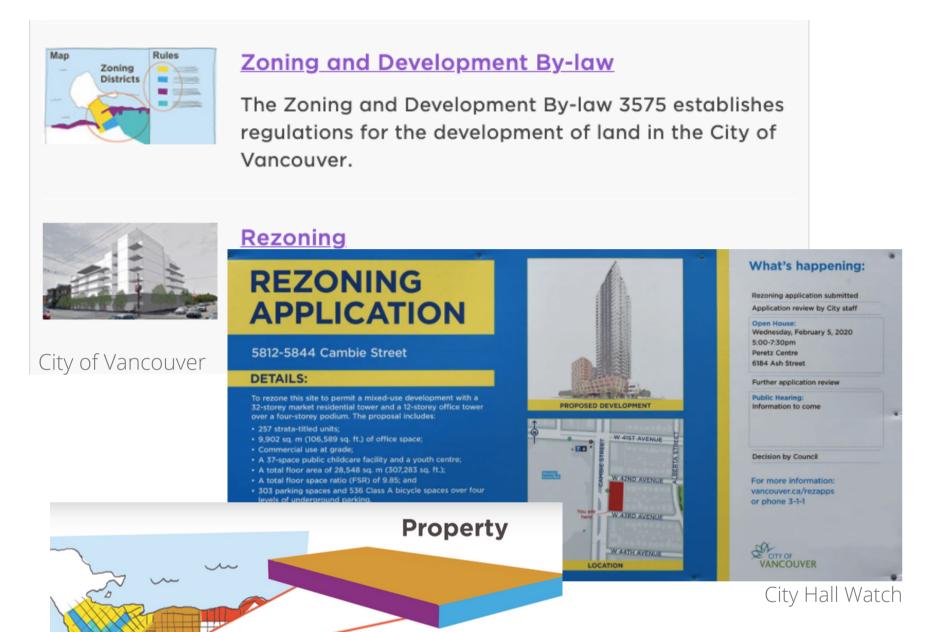
Points of Discussion



Research Purpose

- Curiosity & Zoning
- Theory-practice gap
- Minimal existing literature
- Where are BC's Formbased Codes?





What is **Zoning**?

- Euclidean Zoning
 - Use-based
- Form-based Codes
 - Form-based

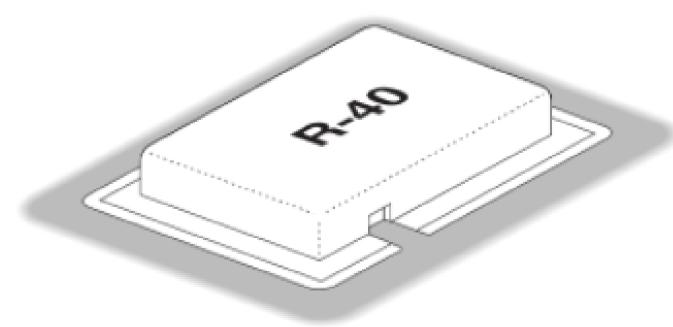
Legal

City of Vancouver

What is **Zoning**?

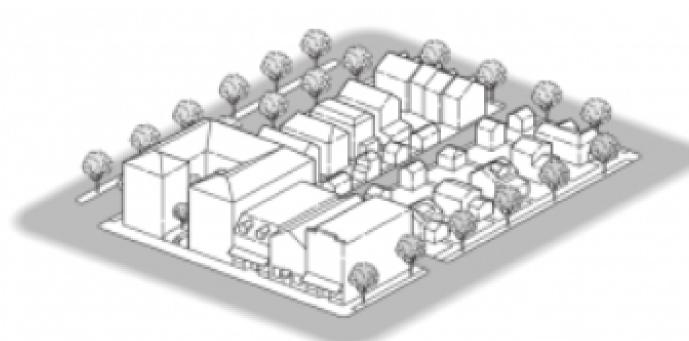
Conventional Zoning

Density use, FAR (floor area ratio), setbacks, parking requirements, maximum building heights specified



Form-Based Codes

Street and building types (or mix of types), build-to lines, number of floors, and percentage of built site frontage specified.



(Form-based Code Institute, n.d.)

Research Questions



- 1. Is there consensus around defining FBCs?
- 2. Why has there been a lack of uptake of FBCs in British Columbia?
- 3. What other planning tools are local governments using to approximate FBCs in BC and how do they compare?

Form-based Code (FBC)

Research Methods

- Literature Review
 - The History of Zoning
 - Recent research
- Legal Perspective
 - The Local Government Act

- Case Study
 - Comparative analysis
 - Seaside, Florida
 - Whistler, British Columbia
 - Form-based Code Institute
 FBC checklist

Literature Review: The History of Zoning

Nuisance laws and the Industrial City

Euclidean Zoning 1926 Undesirable, unsustainable, and inequitable places

Calls for zoning reform

~1870s

Literature Review

The History of Zoning

- New Urbanism & the Form-based Code
 -1980's, 1990's
- Separation for 'mutual good'?

The History of Zoning

- Uptake of FBCs sporadic
- Minimal research done on the success of FBCs

Legal Perspective: Barriers

Local Government Act (LGA): Part 14

S.479(c):

- i) the use of land, buildings and structures,
- ii) the density of the use of land, buildings and structures,
- iii) the siting, size and dimensions of
 - a) buildings and structures, and
 - b) uses that are permitted on the land, and
- iv) the location of uses on the land and within buildings and structures.

Legal Perspective: Other Tools

• Development Permit Areas (DPAs)

LGA Part 14 S.488, S.491

- = Requirements in regard to character
- ≠ Particulars of design or finish of buildings
- Heritage Conservation Areas
- Signage bylaws
- Covenants

Defining FBCs

Lack of a strong understanding



- Lack of universal definition
- Form-based Code Institute
 (FBCI) with the best definition
- Placemakers The Codes Study





Defining FBCs

Placemakers - The Codes Study

| Municipality | Scale | Implementation | Date Adopted |
|-------------------|---------------|------------------|--------------|
| Kelowna: Vintage | Neighbourhood | Private | 2011 |
| Landing Resort | | | |
| New Westminster | City | Local Government | 1998 |
| Revelstoke | City | Local Government | Unknown |
| Delta: Tsawwassen | Neighbourhood | Private | Unknown |
| Southlands | | | |

Table 1. Municipalities in BC using a FBC according to the Codes Study.

ntroduction Methods **Findings** Cor

Framing the Issue: Implications

- A layered development approach
- Lengthy, costly development process

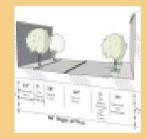
1. Regulating Plan

A plan or map of the regulated

area designating the locations where different building form standards apply.

2. Public Standards

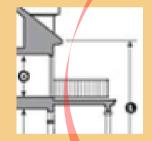
Specifies elements in the public



realm: sidewalk, travel lanes, on-street parking, street trees and furniture, etc.

3. Building Standards

Regulations controlling the features,



configurations, and functions of buildings that define and shape the public realm.

4. Administration

A clearly defined and streamlined



application and project review process.

5. Definitions

A glossary to ensure the precise use



of technical terms.

(Form-based Code Institute, n.d.)

Case Studies

Seaside, Florida





Whistler, British Columbia

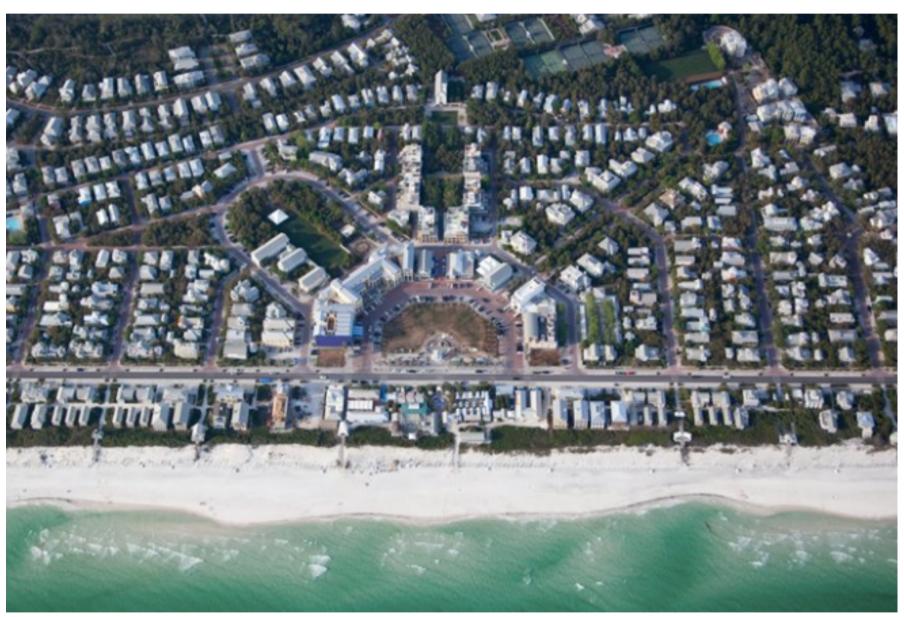
Introduction

The Issue

Findings

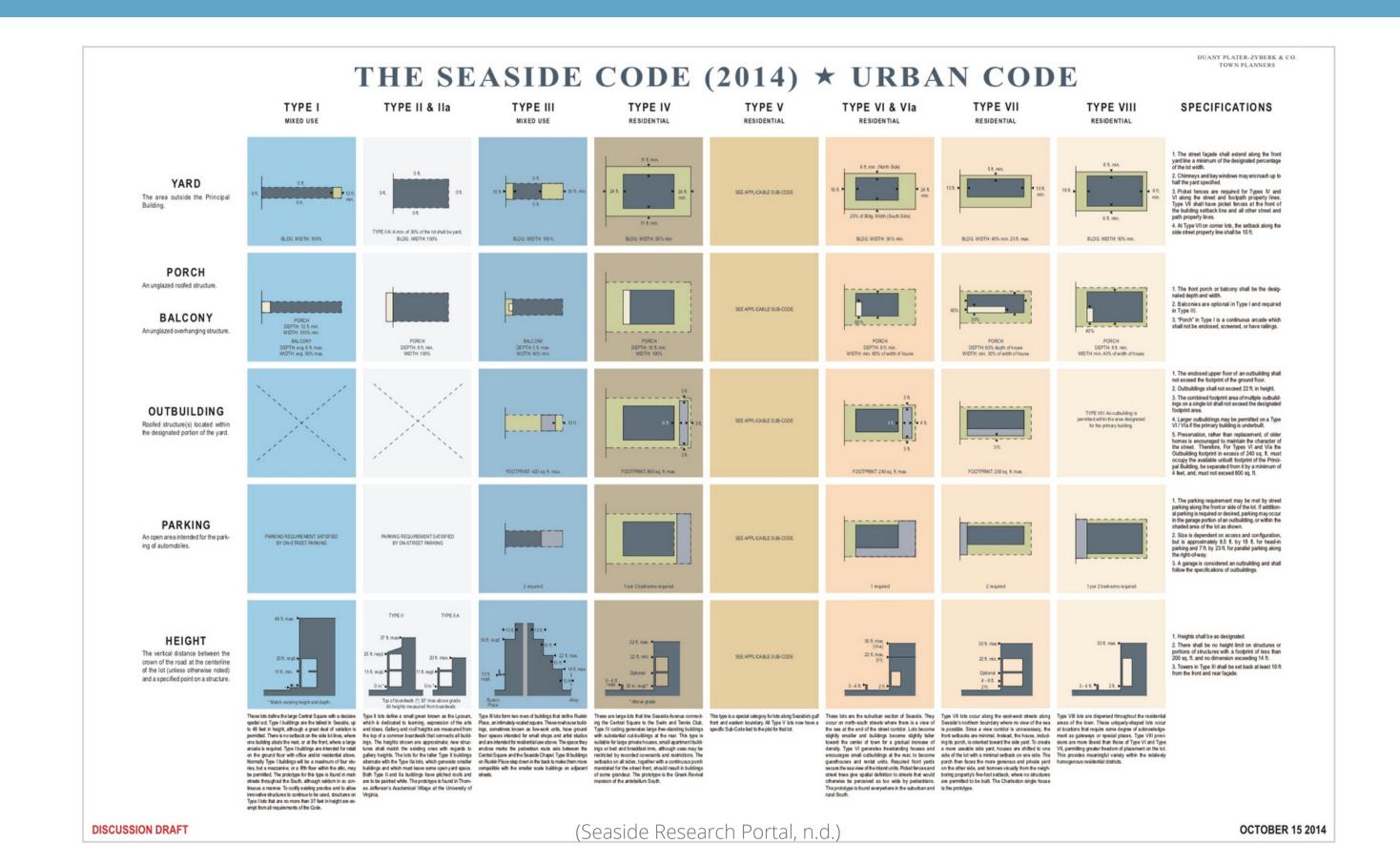
Conclusion

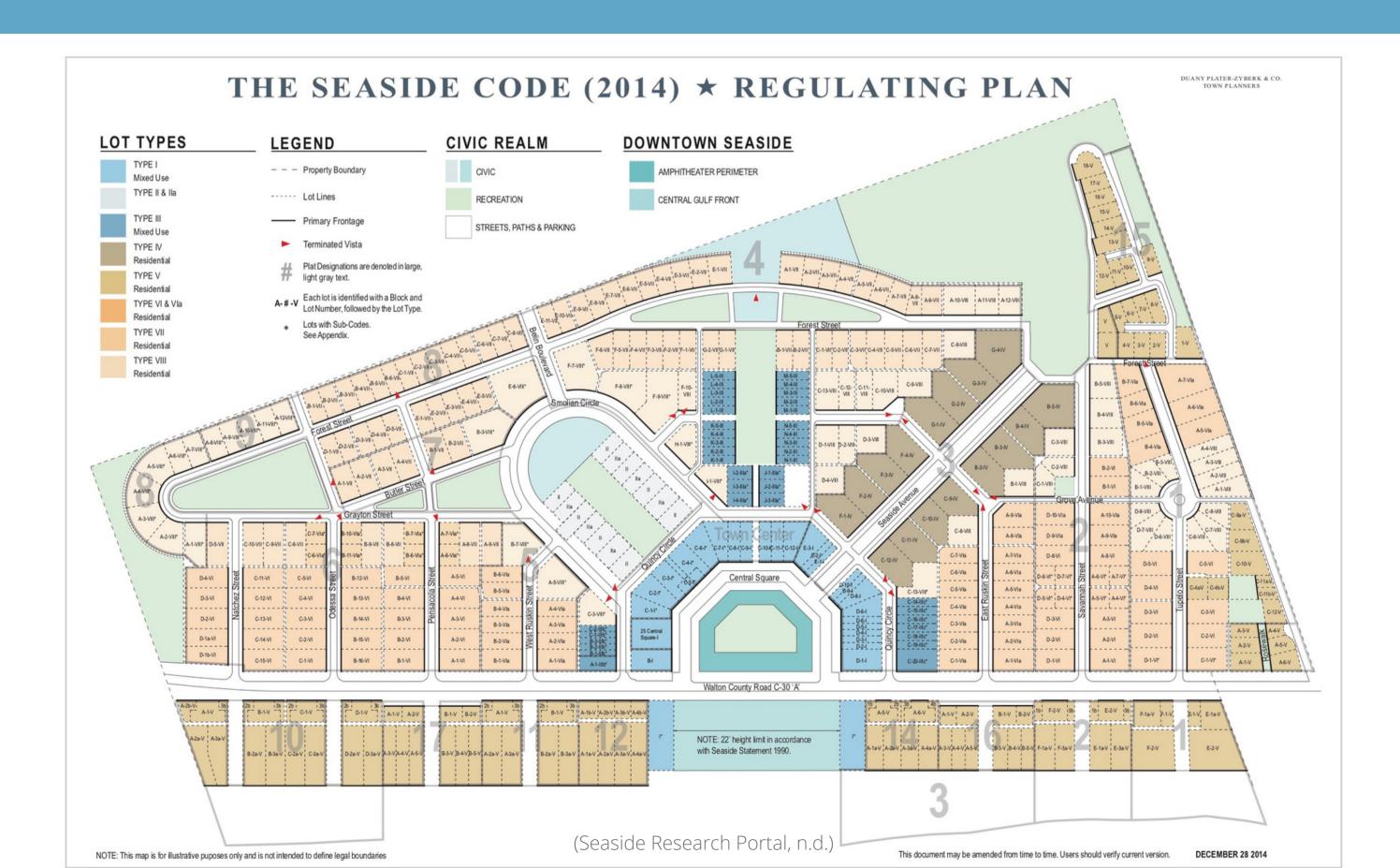




(Congress for New Urbanism, n.d.)

(DPZ, n.d)





Legislative Context:

- One private owner
- Master-planned
- Unincorporated = no municipality had planning jurisdiction



(Seaside Research Portal, n.d.)

Whistler Village, British Columbia



(Tourism Whistler, n.d.)

Whistler Village, British Columbia

- Zoning and Parking Bylaw No.303, 2015
 - ~600 pages
 - ~33 zones pertaining to the village
- Whistler Village DPA
 - 170 pages long
 - Design-oriented details

Whistler Village, British Columbia

Legislative Context

- Resort Municipality of Whistler Act
 - Established the Resort Municipality of Whistler (RMOW) in 1975
 - Inclusion of the particulars of design in DPAs

Analysis

FBC Key Elements:

1. Regulating Plan

apply.

A plan or map of the regulated area designating the locations where different building form standards

2. Public Standards

Specifies

elements in
the public
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Introduction

The Issue

Findings

Conclusion

Analysis

| Seaside, Florida: Urban Code | | | | | |
|------------------------------|------------------|--------------------|----------------|-------------|--|
| Regulating Plan | Public Standards | Building Standards | Administration | Definitions | |
| Yes | n/a | Yes | Yes | Yes | |

Table 3. Seaside Urban Code analyzed against FBC key elements.

| Whistler, British Columbia: Zoning Bylaw & Whistler Village DPA | | | | | |
|---|------------------|--------------------|----------------|-------------|--|
| Regulating Plan | Public Standards | Building Standards | Administration | Definitions | |
| No | n/a | Yes | No | Yes | |

Table 5. Whistler's zoning bylaw and DPA analyzed against FBC key elements.

Findings

Seaside

- Replaced conventional zoning
- Streamlined process

Whistler Village

- Replaced conventional zoning
- Streamlined process

Implications

- Whistler = reflective of the process many
 BC municipalities use today
- Desire for predictable development process
- Desire for increased control over form

Themes:

- Stop the Segregation of Uses
- Process Matters

1.Remove single-use zones that no longer serve a purpose

2. Focus more on building form rather than use as the organizing principle of the zoning bylaw where possible

3. Incorporate images and diagrams into zoning bylaws, not just DPAs

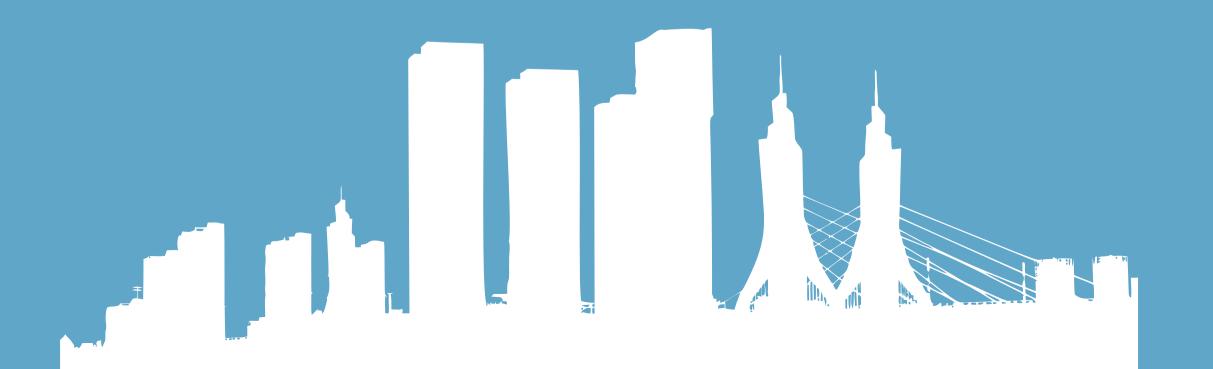
4. Zoning should become proactive rather than reactionary

5. Make streamlining the application and review process a priority

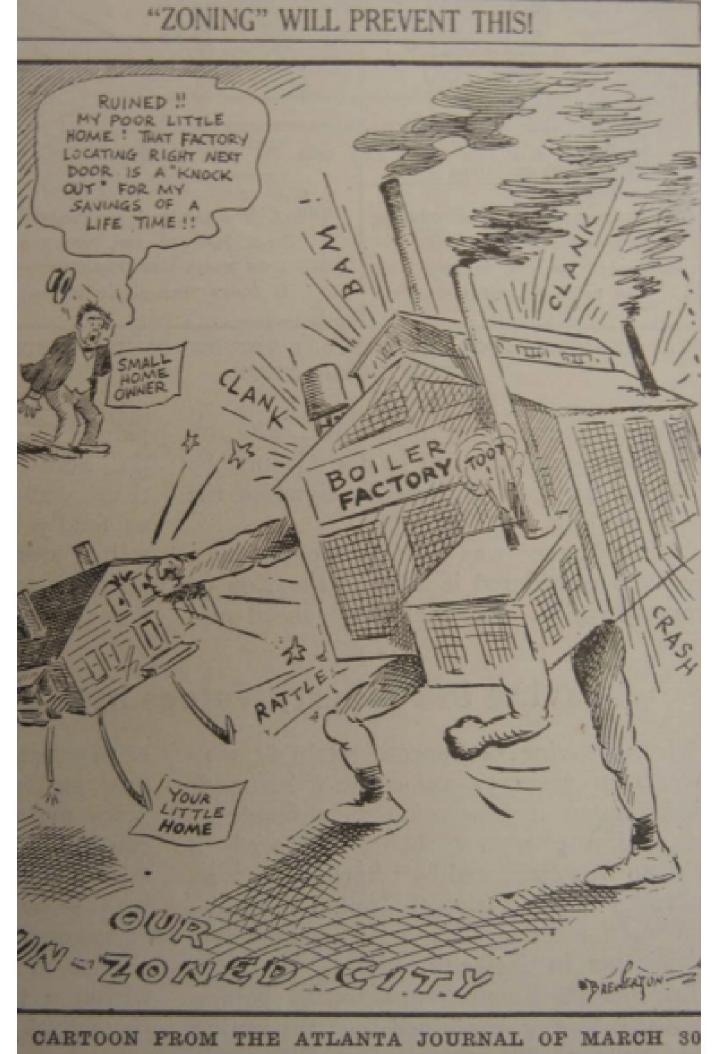


Closing Comments

Thank-you!



| Seaside Urban Code | Whistler Zoning and Parking Bylaw NO. 303, 2015 | | |
|---|--|--|--|
| One page poster, 8 building types | 33 zones pertaining to the village | | |
| Organized by building type | Organized by permitted building uses | | |
| Dimension and design standards for | Standards for density, height, site area, site | | |
| buildings, yards, porches, balconies, | coverage, setbacks, off-street parking and loading | | |
| outbuildings, and parking | Descriptions in the form of words | | |
| Descriptions in the form of diagrams and | No clear regulating plan | | |
| short statements | | | |
| Keyed to a regulating plan | | | |
| Seaside Architectural Standards | Whistler Village Development Permit Area | | |
| • 13 pages | • 170 pages | | |
| Design and materials standards for walls; | Standards for building siting, form, and massing; | | |
| doors and windows; porches and balconies; | pedestrian and outdoor activity areas; grading, | | |
| roofs; attachments; signage; lighting; | draining, design of servicing infrastructure; | | |
| colours, for each building type identified in | particulars to landscaping, lighting, and signage; | | |
| the Urban Code | particulars of building design, pedestrian level | | |
| No application <u>process</u> | design, upper floor design, roof design, building | | |
| | materials, building colour | | |
| | Additional application and review process | | |



CARTOON FROM THE ATLANTA JOURNAL OF MARCH 30 1922, PROVED TO BE A "KNOCK-OUT"