

# Mixed Use / Employment / Commercial Workshop Workbook

September 2017

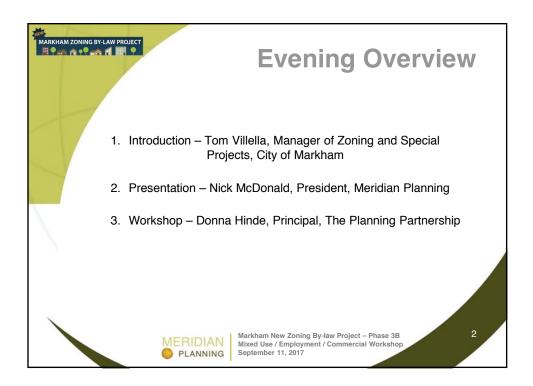


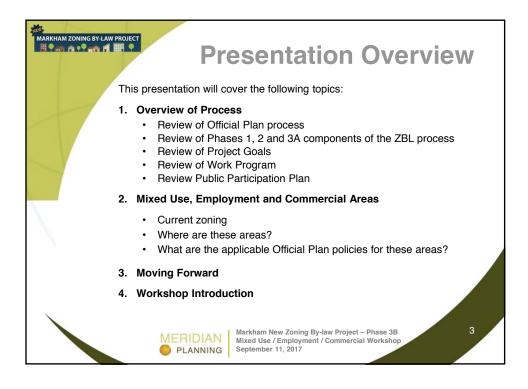


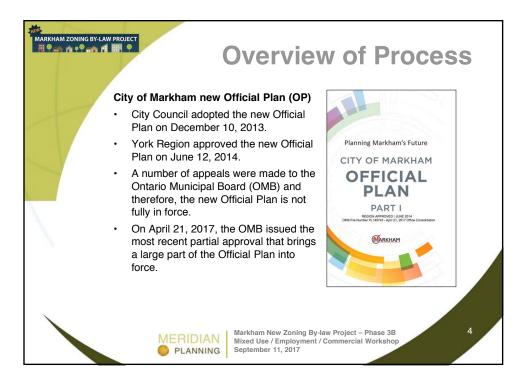
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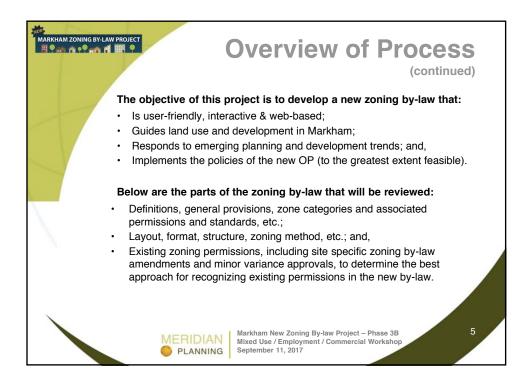
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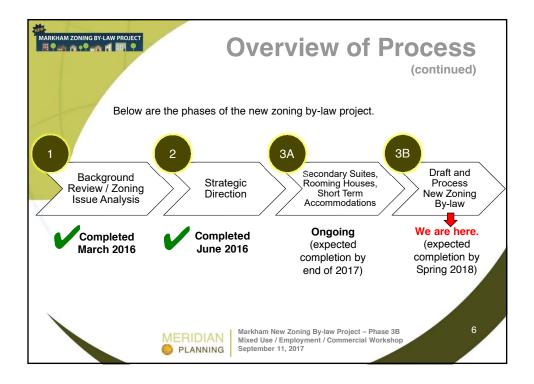


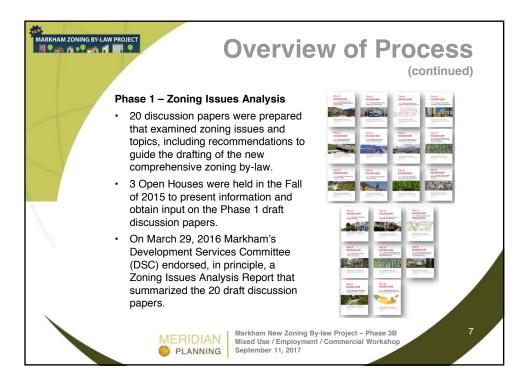


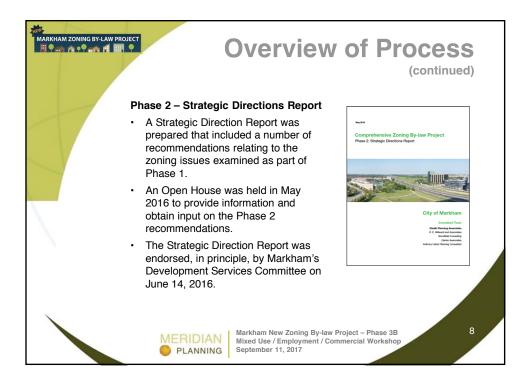


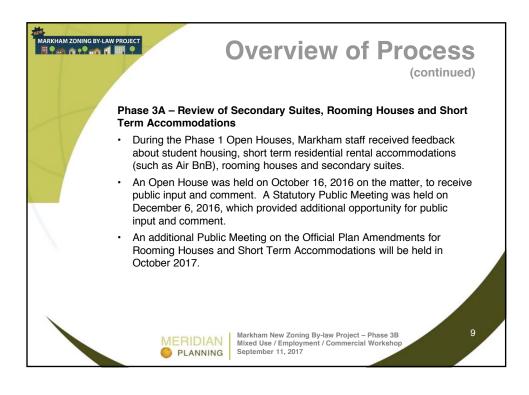


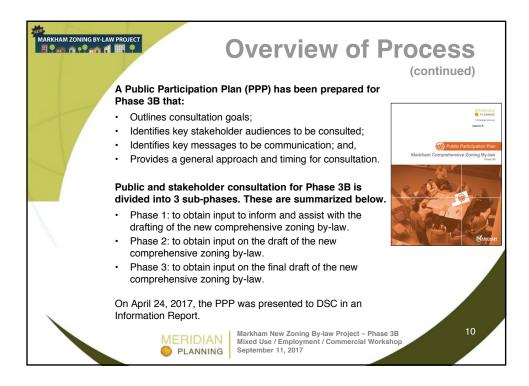


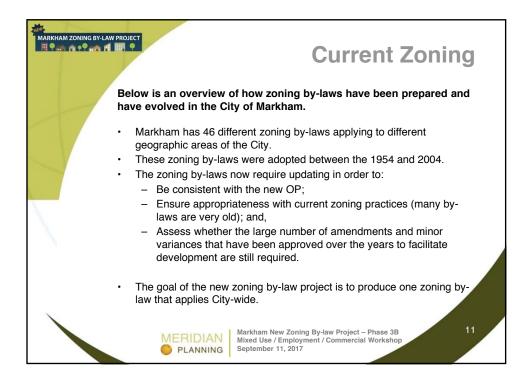


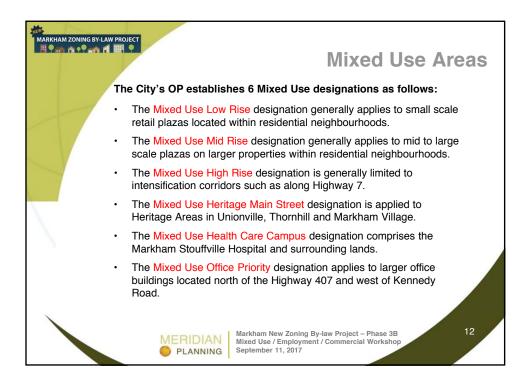


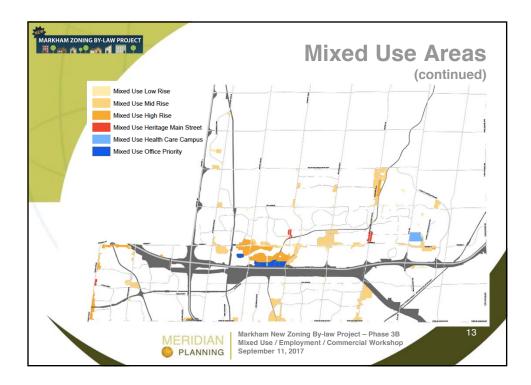




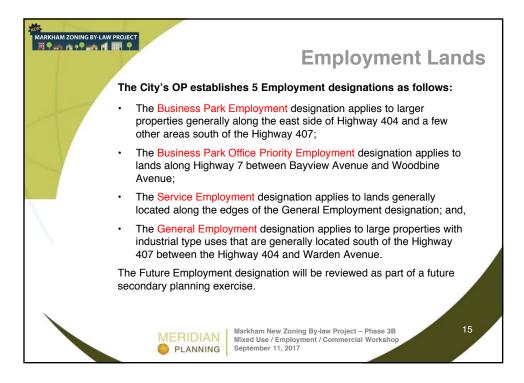




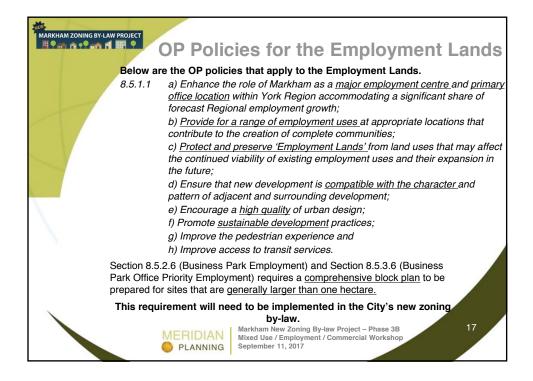






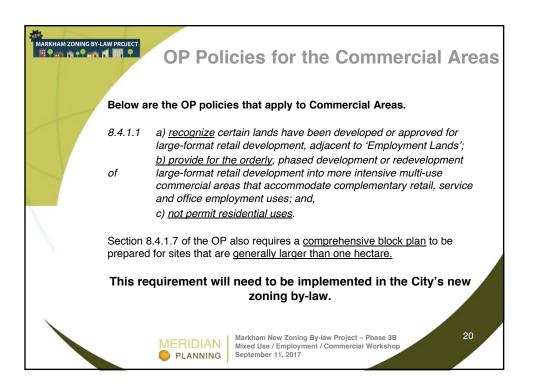




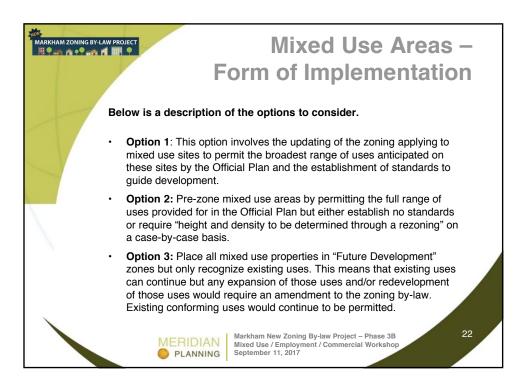




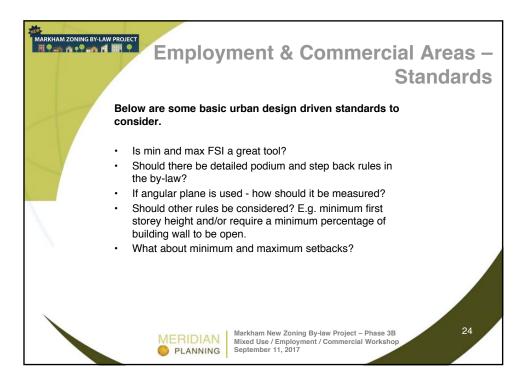
















# ZONING STANDARDS AND TOOLS

#### Overview

The City of Markham has established new land use designations for mixed-use, commercial and employment areas in the City.

The areas that are designated mixed use are primarily developed with commercial uses and it is expected that these areas will be redeveloped over time with a mix of commercial and residential uses. Lands that are designated for commercial purposes are also primarily developed, however, they are expected to stay as commercial areas only. The lands designated for employment purposes are primarily developed with industrial, office and service employment type uses.

A significant amount of population and job growth is expected in Markham over the next 20 to 30 years. With this in mind, it is expected that a number of already developed sites will be redeveloped and that many of the vacant parcels of land in these areas will be developed.

The City's Official Plan establishes a number of urban design policies that seek to establish vibrant people places that are accessible and connected, with high quality and well-defined buildings. These policies also require the development of human-scaled buildings that enhance the pedestrian realm, including continuity of buildings along streets.

To accomplish these goals, a variety of zoning tools can be considered for inclusion in the new zoning bylaw, such as floor space index, building height controls, angular planes, setbacks requirements, street wall and tall building standards. These tools shape the site configuration and building envelope, the way the building envelope is designed and articulated, and the way that uses fit into buildings to achieve the policies of the Official Plan. The tools work individually and in concert with one another to shape appropriate development standards.

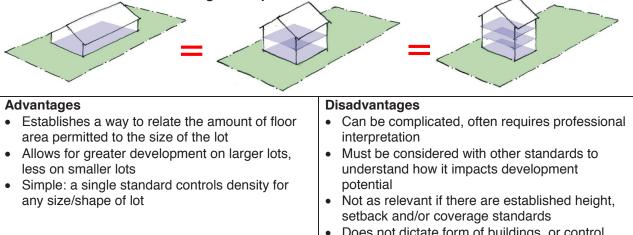
What are your thoughts on whether these tools should be considered in Markham? What are your ideas on what these tools should look like in the Markham context?





#### MIXED USE, COMMERCIAL AND EMPLOYMENT FLOOR SPACE INDEX

Floor space index (FSI) establishes a ratio or percentage for the maximum amount of floor area that can be developed on a lot. For example, on a lot of 2000 square metres in area, an FSI of 0.5 (50%) means that 1000 square metres of floor area can be built; an FSI of 1.5 (150%) means that 3000 square metres of floor area can be built. FSI works with setbacks, height limits, and other standards to control the building envelope.



 Does not dictate form of buildings, or control architectural style

Please provide your thoughts on whether the Floor Space Index tool should be used in the new by-law and provide your thoughts on the advantages and disadvantages of this tool

Advantages

Disadvantages

Preferences - Please identify whether this tool has merit and should be considered further and provide reasons why.





## MIXED USE, COMMERCIAL AND EMPLOYMENT BUILDING HEIGHT

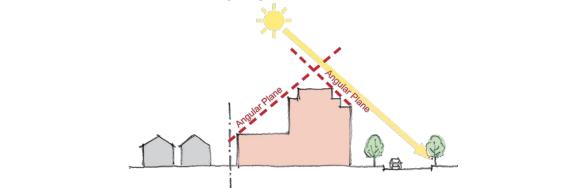
<ul> <li>Building height can be measured in absolute terms (metres above grade), or relative terms (number of storeys), or both. Different kinds of buildings, such as office and residential, can have different storey heights. One option for the City to consider in preparing a new by-law is establishing requirements for both minimum and maximum height to achieve a certain desirable built form.</li> <li>Advantages         <ul> <li>Easy to understand and visualize</li> <li>A fixed height limit creates predictability</li> <li>Establishing minimum height requirements provides for more urban built form</li> </ul> </li> <li>Please provide your thoughts on whether both minimum and maximum height standards should be used in the new by-law and provide your thoughts on the advantages</li> <li>Please provide your thoughts on whether both minimum and maximum height standards should be used in the new by-law and provide your thoughts on the advantages</li> <li>Disadvantages</li> <li>Advantages</li> <li>Disadvantages</li> <li>Disadvantages</li> <li>A fixed height limit cace between new and established developments</li> </ul>		
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Preferences - Please identify whether this tool has merit and should be considered further and provide reasons why.		
provide reasons wity.		





MIXED USE, COMMERCIAL AND EMPLOYMENT ANGULAR PLANES

An angular plane is an imaginary flat surface extending over a lot, at a specified angle that limits the placement and height of buildings. A new building must be at or below the angular plane. It works much the same way as a height limit, except at an angle. One of its primary purposes is to ensure there is a transition in building height from taller to lower.

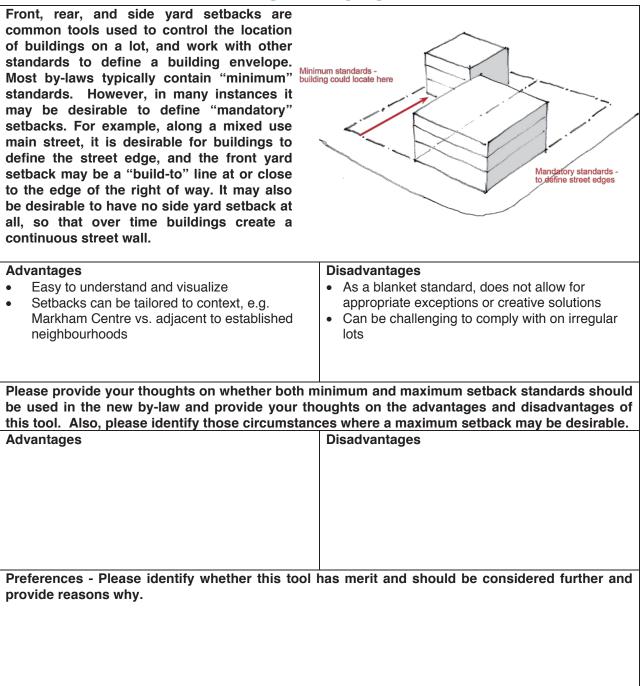


#### **Advantages Disadvantages** Can be complicated, often requires Can be used in a variety of circumstances, for professional interpretation example: As a blanket standard, does not allow for • To control height and transition adjacent to established or low-rise neighbourhoods appropriate exceptions or creative solutions front, rear, and side yard conditions Different outcomes are possible depending on To sculpt buildings adjacent to public streets how angular planes are measured - from the and spaces to provide for human scale and street edge, property line or building face access to sunlight Please provide your thoughts on whether angular plane standards should be used in the new bylaw and provide your thoughts on the advantages and disadvantages of this tool. Also, please provide any thoughts you may have on how it should be measured. **Advantages Disadvantages** Preferences - Please identify whether this tool has merit and should be considered further and provide reasons why.





#### MIXED USE, COMMERCIAL AND EMPLOYMENT SETBACKS





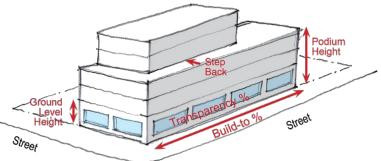


#### MIXED USE, COMMERCIAL AND EMPLOYMENT STREET WALL

The street wall is the lower portion of a building that defines the street edge. It is important in establishing active uses along the street and human scale in design. There are several tools that can be used to create appropriate street walls:

**Maximum Podium Height:** the podium is the lower portion of a building at the street edge, and is typically 3 to 6 storeys in height. Taller portions of the building are set back from the podium (see Step Back).

**Minimum Step Back:** a setback for buildings (or portions thereof) that are taller than the podium. Step backs help ensure tall buildings do not loom over the street.



**Minimum First Floor Height:** Minimum ground level heights can help ensure that the first storey is flexible to accommodate changing uses over time. Minimum transparency can help ensure that the first storey has plenty of windows and doors, helping to animate the street. Other regulations such as maximum store size at ground level can help ensure that retail uses are small in scale and not 'big box'. **Build-to %:** A minimum percentage of the frontage along streets is defined by buildings. This helps to ensure that street edges are not defined by large parking or servicing areas.

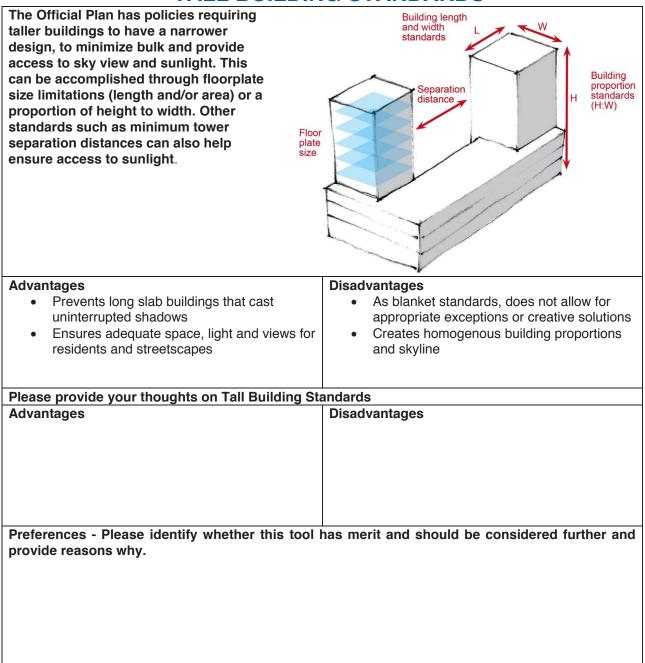
Advantages	Disadvantages	
<ul> <li>Emphasizes the importance of the lowest storeys in meeting the design objectives of the Official Plan</li> <li>Creates more nuanced buildings compared to typical zoning tools</li> </ul>	<ul> <li>Can be complicated, often requires professional interpretation</li> <li>As blanket standards, does not allow for appropriate exceptions or creative solutions</li> <li>Very difficult to anticipate every possible situation, requiring amendments to permit appropriate development</li> <li>Unit orientation is often reversed to provide primary access from parking at rear, undermining design intention along the street</li> </ul>	
Please provide your thoughts on which street wall standards should be included in the new by-		
law.		
Advantages	Disadvantages	

Preferences - Please identify whether this tool has merit and should be considered further and provide reasons why.





#### MIXED USE, COMMERCIAL AND EMPLOYMENT TALL BUILDING STANDARDS







#### MIXED USE IMPLEMENTATION OPTIONS

#### Overview

The City of Markham has established a new land use designation for mixed use areas in the City.

Many of these areas are currently developed with only commercial uses and it is anticipated over time that these areas will be redeveloped with a mix of residential and commercial uses. Other areas designated mixed use are located along Highway 7 and other major corridors and are currently the site of a mix of uses as well.

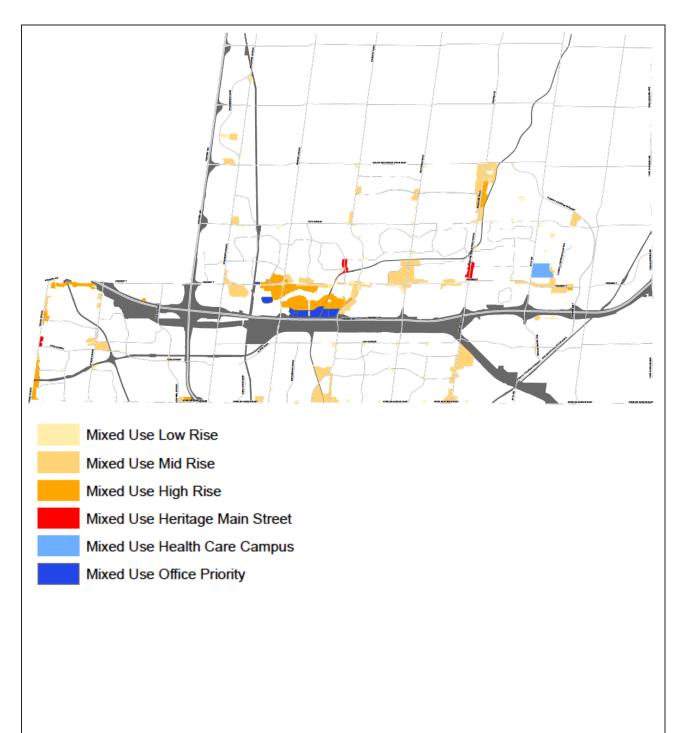
All of the mixed use areas identified in the Official Plan are zoned to permit in most cases only commercial uses. Given the forward-looking vision of the City of Markham, an opportunity exists to consider how this vision will be implemented in the zoning bylaw.

This will be an important decision for the City to make since it is the City that expects that these areas will experience the most significant amount of change over the planning period. However, that change needs to be managed in some way to ensure that development is appropriate for the site, is compatible with adjacent land uses and can be supported by the infrastructure that exists or which is to be provided. In this regard, the purpose of the workshop is to explore implementation options.













#### MIXED USE OPTION 1: PRE-ZONE TO IMPLEMENT THE OFFICIAL PLAN

This option involves the updating of the zoning applying to mixed use sites to permit the broadest range of uses anticipated on these sites by the Official Plan and the establishment of appropriate standards to guide development.

	USES Residential Retail Service Commercial Office etc.	STANDARDS Setbacks Height Density etc.
Advantages		Disadvantages
<ul> <li>It minimizes the to permit development develo</li></ul>	tainty with respect to the ons er approval processes since r of steps are needed alue of the land to make it for intensification MB appeals permitted	<ul> <li>Minimizes public involvement in the planning approval process since the lands would be pre-zoned</li> <li>Given the unique nature of many of these mixed use sites, the full range of permitted uses may not be appropriate on each site</li> <li>The Citywide standards may also not be appropriate for each site as well</li> </ul>
Comments - Please p Advantages	rovide your thoughts on Op	Disadvantages
Preferences - Please provide reasons why.		n has merit and should be considered further and





## MIXED USE OPTION 2: PRE-ZONE FOR USE ONLY

Pre-zone mixed use areas by permitting the full range of uses provided for in the Official Plan but either establish no standards or simply require that the lands be re-zoned to establish those standards on a case-by-case basis.

	USES Residential Retail Service Commercial Office etc.	STANDARDS Setbacks Height Density etc.	
Advantages		Disadvantages	
<ul> <li>Establishes the on mixed use pre- Provide some of spur economic of Recognizes that potentially unique unique and con- standards</li> <li>Allows for the pre- decision making</li> </ul>	f the certainty required to development t each mixed use site is ue and therefore requires text specific development ublic to be involved in the	<ul> <li>Will extend the planning process and create some uncertainty</li> <li>Third party appeals are possible</li> <li>Negotiated settlements may not fully implement the City's vision</li> </ul>	
Advantages		Disadvantages	
Preferences - Please provide reasons why.		has merit and should be considered further and	





## MIXED USE OPTION 3: FUTURE DEVELOPMENT ZONES

Place all mixed use properties in "Future Development" zones but only recognize existing uses. This means that existing uses can continue but any expansion of those uses and/or redevelopment of those uses would require an amendment to the zoning by-law.

<b>USES</b> Existing Uses Only	STANDARDS Setbacks Height Density etc.
<ul> <li>Advantages</li> <li>Partially implements the Official Plan</li> <li>Establishes the principle of land use change on mixed use properties</li> <li>Provide some of the certainty required to spur economic development</li> <li>Recognizes that each mixed use site is potentially unique and therefore requires unique and context specific development standards</li> <li>Allows for the public to be involved in the decision making process</li> </ul>	<ul> <li>Disadvantages</li> <li>There would be no certainty on what uses may actually be permitted on a case by case basis</li> <li>Will extend the planning process and create some uncertainty</li> <li>Third party appeals are possible</li> <li>Negotiated settlements may not fully implement the City's vision</li> </ul>
Advantages	Disadvantages has merit and should be considered further and

