



# **Purpose of Presentation**

- Brampton's Green Development Standards
  - Guidelines
  - Metrics
  - Thresholds
- Overview of how Brampton Implements its Green Development Standards
- Implementation Lessons Learn







### Phase 1: Sustainable Guidelines

- A new chapter of the City's Development Design Guidelines
- Applies to Secondary Plans;
   Block Plan, Plans of Subdivision
   & Site Plans.
- Approved by Council in September 2013
- New development applications are required to demonstrate how they integrate the SCDG's through their design submission (Urban Design Guidelines, Community Design Guidelines)

#### **Built Environment**

- 1. Compact Development
- 2. Community Form
- 3. Mix and Diversity of Land Uses
- 4. Housing Mix and Diversity
- 5. Walkability
- 6. Public Health
- 7. Cultural Heritage
- 8. Economy

#### Mobility

- 1. Street Network and Block Design
- 2. Transit Supportive
- 3. Active Transportation
- 4. Streetscape Elements/Pedestrian Supportive Design

#### Natural Environment and Open Space

- 1. Natural Heritage System
- 2. Parks
- 3. Stormwater Management Facilities
- 4. Urban Agriculture
- 5. Urban Forest

#### Green Infrastructure and Building

- 1. Energy Conservation
- 2. Water Use and Management
- 3. Material Resources and Solid Waste
- 4. Air Quality
- 5. Lighting
- 6. Green Buildings/Green Sites
- 7. Stewardship and Education



# Phase 2: Sustainability Metrics

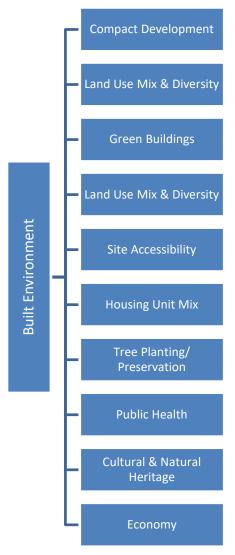
 Metrics focus on scales of development (e.g. Block Plan, Draft Plans, Site Plans)

- Metrics are applicable to Greenfield,
   Redevelopment and Intensification Areas
- 3 PERFORMANCE TIERS
  - Mandatory Requirements current Municipal Standards
    - ❖ NO POINTS AWARDED
  - Recommended Minimum "doing better"
    - ❖ POINTS AWARDED
  - Aspirational "best in class"
    - ❖ POINTS AWARDED

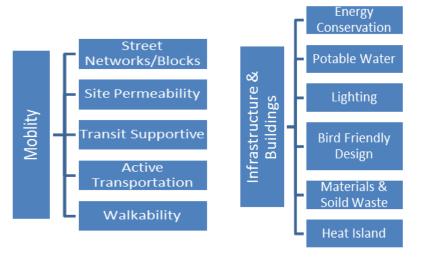


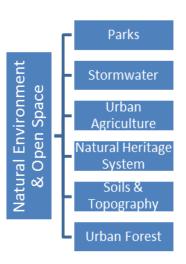


## **Sustainability Metrics:**



# 27 indicators developed during Phase 1







## **Sustainability Metrics:**

- 27 Indicators transformed into 50 Metrics
- Extensive consultations with staff and external stakeholders
- 80% of Targets reflect Precedents (LEED ND, TGS, etc.)
- Points focused on exterior design elements (City control)
- Fewer points available for interior sustainability elements

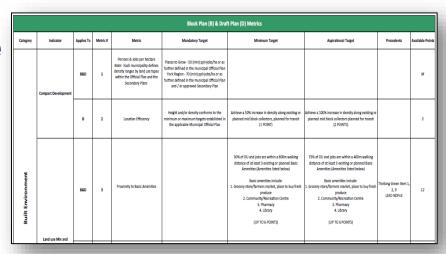
Municipal	Point Breakdown (%)						
Priorities	Site Building Plar		Draft Plan	Block Plan			
Energy	30%	21%	8%	9%			
Walkability	22%	39%	53%	60%			
Water	20%	13%	9%	6%			
Waste	7%	4%	4%	3%			
Food	0%	2%	3%	3%			
Natural Systems	3%	7%	9%	11%			
Other	18%	14%	14%	8%			
Total	100%	100%	100%	100%			



### **Sustainability Metrics**

Tools were developed to ensure a efficient and effective Development Review Process:

- Static tables that outline City priorities
- Web-Based Sustainability
   Assessment Tool to score
   new applications



		- Print this page	- Print Only the Summa
General Informati	on	Sustainabilit	y Score
User Name:*	Mike	12 of 12 Mandato	ry Metrics Are Satisfied
Company Name:*	Grow Green	47 of 59 Minimum	Targets Are Satisfied
		23 of 59 Aspiratio	nal Targets Are Satisfied
Project Name:*	Greener Town	Application	
City File Number:*	C2W14.2	Overall 57%	54 of 94
Type of Development Site:*	Greenfield	Energy 25%	2 of 8
Plan Type:*	Block Plan ▼	Water 36%	4 of 11
7,		Walkability	43 of 57
ype of Development	Properties:	75% Natural Systems	2 of 7
Ground Related Residential:	Yes ▼	28%	
Multi-Unit Buildings (4 stories or greater):	Yes ▼	Community Overall	70 of 118
Commercial / Retail / Institutional:	Yes	Energy 25%	2 of 8
Email Address:*	@ michael.hov@brampton.ca	Water	4 of 11



# **Sustainability Thresholds**

### Approved by Council – March 30, 2015

Brampton Sustainability Thresholds								
	Base	line	Minimum	/Bronze	S	<b>Aspirational</b>		
	Min	Max	Min	Max	Min	Max	/Gold	
Site Plan	21	34	35	52	53	69	70+	
Block Plan	23	29	30	38	39	48	49+	
Draft Plan	21	28	29	39	40	50	51+	

Richmond Hill Approved Thresholds								
Baseline		Minimum/Good		Ver	E			
	Min	Max	Min	Max	Min	Max	Excellent	
Site Plan	16	31	32	45	46	65	66+	
Draft Plan	12	20	21	35	36	55	56+	



# Brampton Score of Recently Approved Site Plan Application:

Overall Score: 82/156

#### **Performance Threshold: Gold**

Energy: 25/54 Water: 12/19 Walkability: 26/38 Natural Systems: 2/9

#### Improvements:

- 100% of entrances and exists universally accessible (2 points Walkability)
- Carpool and efficient vehicle parking (2 points Overall)
- Energy Management Strategy (2 points Energy)
- Reduce potable water by 50% (3points Water)

### **CHAPELVIEWS APPARTMENTS**

LEED Gold



Downtown Brampton: John St & Main St N



# Implementation: Sustainable Design Review Process Guiding Principles

- Manage change
- Integrate with existing review/compliance processes as much as possible
- Minimize the need for addition submission material
- Make it easy for Development Team to review
- Make it easy for the Applicant to score application and demonstrate compliance



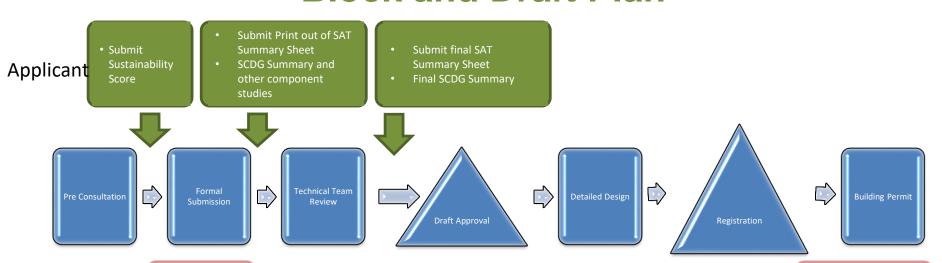
# Implementation Tasks

- Establish a Working Team
- Update Existing Development Review Processes
- Define Roles and Responsibilities
- Develop Internal and External Guidance Documents
- Update Policies, Submission Requirements,
- Communication and Engagement





# Sustainability Score and Summary Review Process: Block and Draft Plan



P&IS staff

Application
Deemed
Complete/
Incomplete

#### **Public Meeting**

Development Planner

- Information Report to include Initial Sustainability Score
- Circulates
   Submitted SCDG
   Summary to
   Technical Review
   Team

#### Technical Team

- Verify
   Sustainability
   Score
- Identify areas for improvement

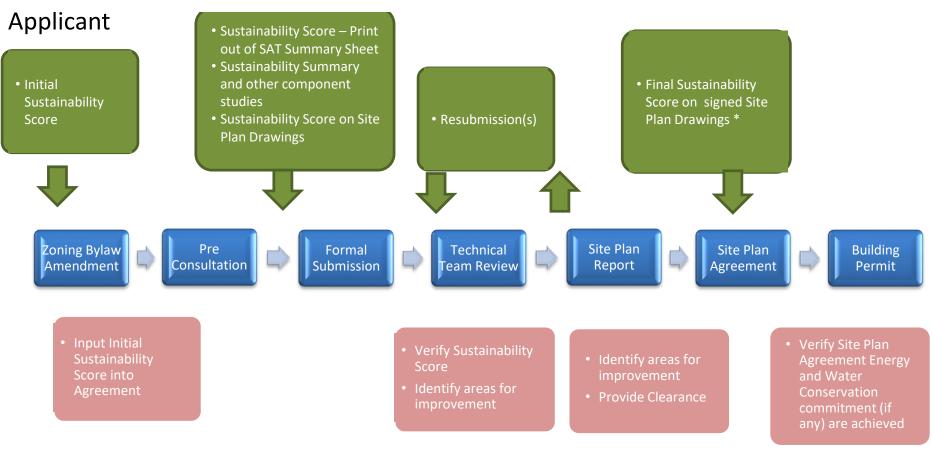
### Recommendation Report

- Report Final Sustainability Score
- "Sustainable" Draft Plan condition that detailed plans to follow the intent of the Sustainability Summary Document
- Draft Plan condition to provide a Scoring Range that the applicant must be within

#### Verification

Building staff to verify that Energy and Water conservation commitments (if any) are achieved

# **Sustainability Score and Summary Review Process: Site Plan**



P&IS staff

\* Note only items on Site Plan are considered applicable law



# Implementation: Delineate Roles

#### **Council Role**

 Review Sustainability Section of <u>Information</u> and <u>Recommendation</u> Reports to ensure applications are meeting Council's sustainability objectives; and

### **Applicant**

- Complete Web Form and
- Submit Sustainability Score and Sustainability
   Summary and Letters of Intent, if applicable
- Revise Sustainability Score and Summary
- Demonstrate Compliance in Component Studies/Detailed Design Submissions







### Implementation: Delineate Roles

### **Development Planner**

- Inform Applicant at Pre App Stage of Submission Requirements
- Circulate To Design Team
- Report To Council Information Report and Recommendation Report
- Insert Draft Plan/Site Plan condition to achieve Sustainability Score

### Design Team (Eng, LA, UD, Parks, EnPl, Building)

- Verify Sustainability Score in Component Studies
- Report To Development Planner
- Provide Clearance to Development Planner prior to Registration
- Confirm compliance (site visits, assumption, etc) prior to assumption



Planning, Design and Development

#### Roles and Responsibilities Metric Checklist-Block Plan Review

	Tai	get	Numbe	Document	
Metric	Mandator v	Min	As p	r of Points	Compliant e
Urban Agriculture - Dedicate Land For					
Local Food Production - Block and Draft					
Has <u>80 sq.ft</u> of garden space been provided per development unit?		X		2 points	Letter of intent, Landscape drawing
Has the applicable growing space per development unit been satisfied? (refer to table)	-	-	X	2 points	Letter of intent, Landscape drawing
Soils and Topography - Restore and Enhance Soils					
Have recommendations from a Topsoil Fertility Test been implemented for the entire site? (Must satisfy this target to earn aspirational points)		X	-	1 point	Letter of Intent, Iandscape plan
Energy Conservation - Energy Management					
Has an energy management strategy been developed for the development?	-	X		2 points	Letter of intent



## **Develop Guidance Documents**

### **Metric Guidebook**

METRIC TYPE Applicant Score

METRIC Community and Neighbourhood Scale | INDICATOR Community Form

APPLIES TO Block Plan - Greenfields

### **Instruction Manual**

### Responsibility **Checklists**



Planning and Infrastructure Services Planning and Building

#### Sustainability Performance Metrics:

Sustainability Assessment Tool (SAT) Instructions for Applicant

#### Introduction:

The Sustainability Assessment Tool (SAT) was developed to help quantify, rank and inform the sustainability score of proposed development applications. The SAT is based on the sustainability performance metrics (Block Plan/Draft Plan and Site Plan) developed by the Brampton, Vaughn and Richmond Hill. The intent of the SAT is to provide an efficient platform for applicants to fill out the appropriate fields indicating the target level achieved for applicable sustainability performance metrics. The order of the metrics presented in the dynamic tool, for the most part, align with the order and grouping that is presented in the sustainability metrics tables

#### Getting Started:

#### Step 1: Pre-Consultation for new Development Application

Visit the City's Measuring Sustainability webpage and access the Sustainability Assessment Tool.

#### Step 2: Complete the required fields

Completing these fields assists with City records and to filter the tool to specifically tailor the questions to your particular application.

- The first four fields are for information purposes. If you have not been assigned a file number. just re-enter the Project Name.
- b) The following five fields require the applicant to answer various questions about the proposed development application by selecting from a drop-down menu, including:
  - Type of Development (greenfield, intensification, employment lands)
    - i. "Greenfield" should be selected where the proposed plan/project is located outside of or on the edge of the existing built-up area of the municipality.
    - ii. "Intensification" should be selected where the proposed plan/project is for the development of lands at a higher density than currently exists. Examples include: redevelopment of a site, including brownfields or greyfields: development of varant or underutilized lands in the built up area of the municipality; infill developments; and the expansion or conversion of existing buildings. -

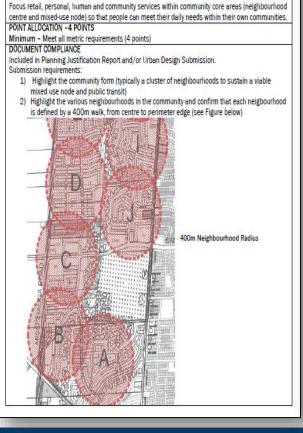
bromoton.co Flower City

ncishborhoods, typically 6 to 9

Planning, Design and Developmen

#### Roles and Responsibilities Checklist-Block Plan Review Urhan Design

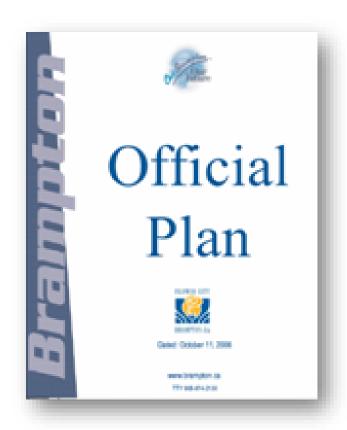
	Urban Design							
		Target			Number	Document		
	Metric		Min	Asp	of Points	Compliance		
Land	use Diversity Mix: Proximity to Basic Ameni	ties						
	Select amenities which are within 800m walking distance of 50% or more of the Dwelling Units (DU) and/or jobs (2 Points Each) (This minimum medits must be satisfied to cam aspirational points)	•	x		2 points for each up to 6	Planning Justification Report, Urban Design Submission or Site Plan		
	Sdect amonities which are within 400m walking distance of 75% or more of the Dwelling Units (DU) and/or jobs (2 Points Each)	-		x	2 points for each up to 6	Drawings		
Land	use Diversity Mix: Proximity to Lifestyle Am	enities						
	Select amenides which are within 800m walking distance of 50% or more of the Owelling Units (DU) and/or jobs (1 Point Each) (This minimum motife must be satisfied to earn aspirational points)	•	x		1 point each up to 3	Planning Justification Report, Urban Design		
	Sdect amenities which are within 400m walking distance of 75% or more of the Dwelling Units (DU) and/or jobs (1 Point Bach)		-	x	1 point each up to 3	Submission or Site Plan Drawings		
Comr	nunity Form - Community and Neighborhoo	d Scale						
	Has the community form been based on a hierarchy of the following: (must meet all four)  Community - formed by a clustering of	-	x	-	4 points	Planning Justification Report, Urban Design Submission		





# **Update OP Policies**

- Residential Policies
- Commercial Policies
- ICI Policies
- Open and Parks Policies
- Transportation Policies
- Urban Design Polices
- Environmental Management Policies
- Implementation Policies



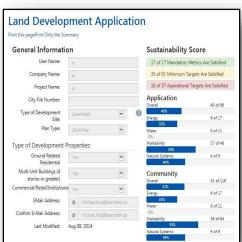


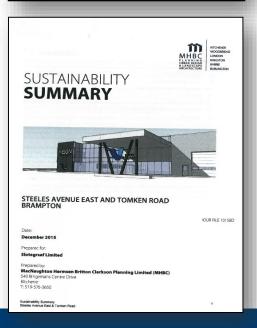
# **Update Submission Requirements:**

Revise Preliminary Application Letters to require:

**Sustainability Score** 

**Sustainability Summary** 







# Update Submission Requirements: Component Studies

### **Design Review**

- EIS/MESP/EIR
- FSR/Stormwater Management Plan
- Transportation Study
- Community Design
   Guidelines/Urban Design Brief
- Planning Justification Report

### **Detailed Design**

- Engineering Drawings
- Landscape Drawings

#### Sustainability Summary - Categories/Themes

- A. Built Environment- Provide a brief description on how the application addresses Mandatory, Recommended Minimum and Aspirational Built Environment targets.
  - i. Mandatory Requirement
    - a) Does the development proposal achieve all the City's **Mandatory Requirements**

#### YES

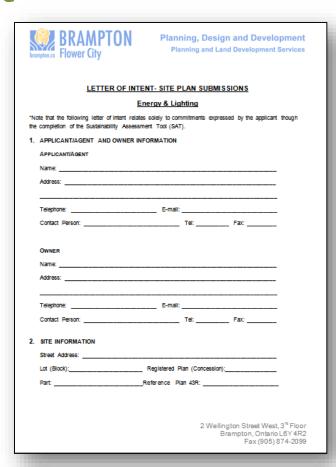
- ii. Recommended Minimum
  - a) Identify all Recommended Minimum Targets achieved by development proposal. For each Recommended Minimum Target identify the relevant component study and applicable section where the target can be verified.
  - 1. Land use Diversity Mix: Proximity to Basic Amenities
    - Community Design Guidelines
  - 2. Land use Diversity Mix: Proximity to Lifestyle Amenities
    - Community Design Guidelines
- iii. Aspirational Targets
  - a) Identify all Aspirational Targets achieved by development proposal.
  - 1. No Aspiration Targets Achieved



# Update Submission Requirements: Letter of Intent

# Required for Metrics that cannot be enforced by the City:

- Green Buildings
- Energy Water Conservation
- Lighting Standards



Search Brampton.ca

Online Services

# Communication & Engagement

Developer (BILD) Workshops

- Internal workshops
- **Ongoing Internal** training sessions
- **Brochures**
- Web Page
- Municipal **Presentations**





The City of Brampton takes a comprehensive approach to planning and designing sustainable permunities by utilizing Sustainable Community Development Guidelines (SCDG) and sustainability netrics and targets.

Sustainable Community **Development Guidelines** 

The SCDG form a new chapter of the City's Development Design Guidelines, and will guide the planning and design of new

#### Planning & Development

**Development Application** 

Development Charges Environment

Growth Management

Heritage

Parks Planning & Construction

Plans & Policies

Projects & Studies Subdivision Construction

Transportation

**Customer Care** 

Guidelines & Manuals

www.brampton.ca/measuring-sustainability

Michael Hoy, Environmental Planner

💹 BRAMPTON

Planning FAOs Brampton Urban Design Awards

Contact Planning & Infrastructura Sarvicas

#### Measuring the Sustainability Performance of New Development

designing sustainable communities. The Sustainable Community Developmen Guidelines and the Sustainability Assessment Tool are designed to measure the environmental sustainability performance of new development

#### Sustainable Community Development Guidelines (SCDG)

The SCDGs form a new chapter to the City's Development Design Guidelines. They establish qualitative measures to guide the planning and development of new communities and buildings, forming an integral part of secondary and block planning, plans of subdivision and site plans.

#### Measuring the Sustainability Performance of New Development

Cities of Brampton and Vaughan and the Town of Richmond Hill worked together to produce a consolidated set of Sustainability Metrics to evaluate and score the environmental sustainability performance of new Block Plans, plans of subdivision and site plan applications. The Final Comprehensive Report includes background information on the Phase 2 project, information on the chosen performance metrics and an incentive strategy

#### Brampton's Threshold Scores

Sustainable

### Community Development Guidelines

Measuring the Sustainability of New Development

**Development Review Process** 



#### ability Score and Sustainability Comment application to the City

ations will strive to at least meet t

ther of Intent that will also need to winebility Metrics Guidebook

at Tool Instruction Manual

nary will assist City staff in the





#### Background Information: Performance Metrics

ty Performance Metrics are organized into **Block** n/Draft Plan and Site Plan tables. Both tables identify the indicators, metrics, targets, precedents and point allocation for each metric. The tables are included below to wide a more detailed explanation behind the

o Block Plan and Draft Plan



SAT Guidebook

Sustainability Assessment Tool (SAT)



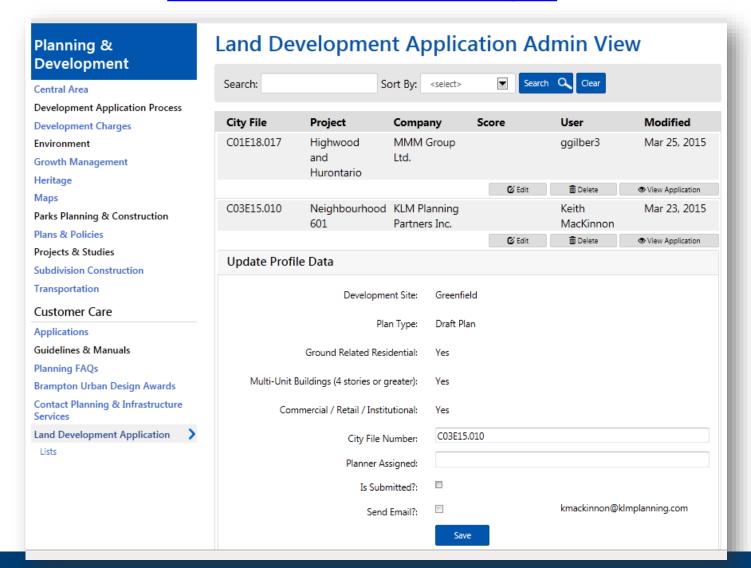
Developer



Contact Us



# **SAT Admin Page**





### **Lessons Learned**

### 1. You are already implementing sustainability

- Track/measure/coordinate these actions and have a plan to improve performance
- Need to QUANTIFY the sustainability performance of new development

### 2. Manage Change

- Do not overwhelm staff, implementing new practices is a process
- Aim for small successes to build a base for an ideal future

### 3. Build on an Existing Process

- Understand your current practices, the good, bad and ugly
- Weave green development standards into an existing planning process

### 4. Clearly Define Processes and Roles

- Involve a diverse array of staff early in the implementation process
- Clearly articulate internal and external roles

### 5. Test Real Applications with Staff

- Build trust and credibility for the changes
- Give people a reason to become comfortable with the changes



# Thank You.

# **Questions?**

Measuring Sustainability of New Development in Cities of Brampton, Vaughan and Town of Richmond Hill

APA's 2015 Award for Excellence in Sustainability for Best Policy, Law or Plan





OPPI's 2014 Excellence in Planning Award Research and New Direction