City of Burlington Shadow Study Submission Checklist

Name of Project: 355 Plains Road + 1010 Downsview Drive

Municipal Address of Project: 355 Plains Road + 1010 Downsview Drive

Name of Applicant:

Shadow Study Prepared By: SRM Architects Inc.

Date of Submission: July 13, 2022

Timing of Shadow Drawings	Check if Included
Mar. 21 hourly from 09:00 - 18:00 EDT	☑
Sep. 21 hourly from 09:00 - 18:00 EDT	☑
Dec. 21 hourly from 11:00 - 15:00 EST	☑
Jun. 21 hourly from 08:00 - 19:00 EDT	☑

Configurations Supplied	
Existing and Proposed	☑
Future (if applicable)	☐
Mitigation (if applicable)	☐

Coverage Area of Shadow Drawings	
North: 4 x building height (min.)	☑
East: 6 x building height (min.)	☑
West: 3 x building height (min.)	☑
South: 1.5 x building height (min.)	☑

Shadow Drawing Graphic Standards	
True north oriented to top	☑
Scale bar	☑
Each drawing 8.5”x11” or larger	☑
Drawings in full colour	☑
Legend of all colour fills and linetypes	☑
Scale of Shadow Drawings	1 : 2000

Written Analysis Provided**	☑
Conformance Calculations Provided	☑

Identification of Site Elements*	Check if Included
Street Names	☑
Development site boundary	☑
Building footprints and massing	☑
Parks, Natural Heritage Systems, Major Parks or Open Space designated lands, Key Civic and Cultural Spaces, or Places Where Children Play	☑
Public Realm and Sidewalks	☑
Private Outdoor Amenity Spaces	☑

Colour Differentiation of Shadows*	
Existing buildings - cast on all surfaces	☑
Net New Shadows - cast on ground	☑
Net New Shadows - cast on roofs	☑
Shadows no longer proposed (changes)	☑

Shadow Impact Criteria Results

The proposal meets the applicable Shadow Impact Criteria for:	Yes	No	N/A
Key Civic & Cultural Spaces	☑	☐	☐
Private Outdoor Amenity Spaces	☑	☐	☐
Parks and Open Space	☑	☐	☐
Places Where Children Play	☑	☐	☐
Public Realm and Sidewalks	☑	☐	☐

Mitigation	Yes	No
Are any Mitigation Measures proposed?	☑	☐

Note: Building Separation, Orientation, and step backs in the massing at high level are measures integrated into the design. No additional mitigation measures are required.

* See terms of reference section 6.3 for full graphic standards for each component
** See terms of reference section 6.6 for required content of written analysis

City of Burlington Pedestrian Level Wind Study Submission Checklist

Name of Project: _____

Municipal Address of Project: _____

Name of Applicant: _____

Wind Study Prepared By: _____

Date of Submission: _____

Type of Study Provided — Check if Included

- Desktop Assessment ☐
- Computational Fluid Dynamics (CFD) ☐
- Wind Tunnel Test ☐

Proposal

- Number of buildings proposed ____
- Height of tallest proposed building ____ m
- Height of second tallest proposed building (if applicable) ____ m

Site

- Site Area ____ ha
- Distance from nearest low-rise residential neighbourhood area (including Residential -Low Density and -Medium Density) ____ m
- Located between Queen Elizabeth Way and the Lake Ontario Shoreline — Yes ☐ No ☐

Technical Report Provided — Check if Included ☐

Identification of Site Elements

- Buildings to Remain (if applicable) ☐
- Major Building Entrances ☐
- Sidewalks ☐
- Parking Lots ☐
- Public Amenity Spaces ☐
- Transit Stops ☐

Wind Data Sources — Check if Included

- YHM (John C. Munro Hamilton) Airport ☐
- Other Source: _____
- Other Source: _____
- Other Source: _____

Wind Data — Check if Included

- Summer (May - October) ☐
- Winter (November - April) ☐
- Number of wind directions tested _____

Configurations — Check if Included

- Existing ☐
- Proposed ☐
- Mitigation (if applicable) ☐

Wind Tunnel Test (if applicable) ☐

- Model Scale 1: _____
- Approved Sensor Plan Provided ☐

Wind Impact Criteria Results

The proposal meets the applicable Wind Impact Criteria for: — Yes / No

- Pedestrian Wind Comfort ☐ ☐
- Pedestrian Wind Safety ☐ ☐

Mitigation — Yes / No

- Are any Mitigation Measures proposed? ☐ ☐