

## Shadow Study

86 Thomas Street, Mississauga, Ontario

WES SURDYKA

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Scale: 1:1000


1/1 May 5, 2020

## 86 THOMAS STREET

## SHADOW STUDY

May 6, 2020
Project Number 18-12
Written Analysis:

- Site latitude and longitude used:
- Latitude: 43 degrees $35^{\prime} 20^{\prime \prime} \mathrm{N}$
- Longitude: 79 degrees $38^{\prime} 40^{\prime \prime}$ W

From "Standards for Shadow Studies" City of Mississauga, June 2014.

- The astronomic north was determined from the Plan of Topographic Survey of Part of Lot 4, Concession 5, West of Hurontario Street, City of Mississauga, Regional Municipality of Peel by Donald H. Brown Surveying Ltd. Ontario Land Surveyor, completed on June 24, 2010 and revised on November 14, 2017.
- The origin/source of base plan is Site Plan, drawing A1.0 by us dated April 17, 2020.
- All criteria described on the "Standards for Shadow Studies" City of Mississauga, June 2014, have been satisfied on this project, except as noted below:


## Ensure adequate sunlight on the following:

3.1 Residential Private Outdoor Amenity Spaces

The area of shadow impact on the existing residential private rear yards west of the proposed development are shown on diagrams RY1 to RY3

### 3.2 Communal Outdoor Amenity Areas

There are no communal outdoor amenity areas, such as children's play areas, tot lots or seniors outdoor amenity areas on this project or surrounding areas.

### 3.3 Public Realm

There is no incremental shade from the proposed development on the opposite boulevard of Thomas Street, including the full width of the sidewalk.

### 3.4 Turf and flower gardens in Public Parks

This development does not include a public park, nor there is one in the vicinity.
3.5 Building Faces to allow for the possibility of using solar energy

The area of shadow impact on the no impact zone of the proposed adjacent semidetached dwellings east of the proposed development are shown $n$ diagrams AR1 to AR7.


















## Shadow diagram

September 21 All hours

Scale: 1:1000














## Shadow diagram

December 21 All hours

Scale: 1:1000










## Shadow Impact on Residential Private Outdoor Amenity Spaces

## June 21 7:07 to 7:20 EDT

Private Rear Yard No Impact Zone Area shown has 13 minutes of shadow $=95.03 \mathrm{~m}^{2}$

Scale: 1:1000


RY1


## Shadow Impact on Residential Private Outdoor Amenity Spaces

## June 21 7:20 to 8:20 EDT

Private Rear Yard No Impact Zone Area shown has 1 hr . and 13 minutes of shadow $=52.53 \mathrm{~m}^{2}$

Scale: 1:1000



## Shadow Impact on Residential Private Outdoor Amenity Spaces

## Sept 21 8:35 to 9:12 EDT

Private Rear Yard No Impact Zone Area shown has 37 minutes of shadow $=36.86 \mathrm{~m}^{2}$

Scale: 1:1000



## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 11:12 to 12:12 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 1 hr . of shadow $=7.70 \mathrm{~m}^{2}$

Scale: 1:1000



## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 12:12 to 13:12 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 2 hrs . of shadow $=47.23$ $\mathrm{m}^{2}$


## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 13:12 to 14:12 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 3 hrs. of shadow $=80.18$ $\mathrm{m}^{2}$


## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 14:12 to 15:12 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 4 hrs . of shadow $=91.18$ $\mathrm{m}^{2}$


## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 15:12 to 16:12 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 5 hrs. of shadow $=152.66$ $\mathrm{m}^{2}$


## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 16:12 to 17:12 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 6 hrs. of shadow $=198.67$ $\mathrm{m}^{2}$


## Shadow Impact on Proposed Adjacent Semi-Detached Dwelling Roof

## September 21 17:12 to 17:48 EDT

Proposed East Adjacent Semi-Detached Dwelling No Impact Zone Area shown has 6 hrs . and 36 min. of shadow $=230.98 \mathrm{~m}^{2}$

Scale: 1:1000


