# SUN/SHADOW STUDY FOR PROPOSED RESIDENTIAL DEVELOPMENT

# 1 ROSETTA STREET GEORGETOWN, ON

FEBRUARY 15TH, 2022



Suite 813 – 4789 Yonge Street, Toronto, Ontario, M2N 0G3 T: 416-224-0505 F:416-224-0504 info@iconarchitects.ca

Date: February 15<sup>th</sup>, 2022

Project: 1 Rosetta Street, Georgetown ON

File Ref:

17127

Prepared By: Rami Khoueiry

#### PARAMETERS

The Sun Angles used in this study are based on the following latitude and longitude of the proposed development at 1 Rosetta St., Georgetown ON.

Latitude: 43° 65' 67" N Longitude: 79° 91' 83" W

The base plan was drawn from the site survey (July 02, 2020 by J.D. Barnes Limited), the 3D mapping model was developed based on the interactive mapping application "Maplinks" of the Town of Halton Hills. The images for this study were produced using SketchUp Shadow Engine. Astronomic north was never altered from the original site survey used for the base plan, and the parameters of the AutoCAD drawing were kept when imported into SketchUp Pro, thus determining astronomic north.

The first two (2) pages of the study are the key and reference plans showing the areas surrounding the proposed development that were included in the study. The first page shows the key plan and the second page shows the reference plan.

Pages 3-40 of the study show the proposed and existing shadow images for the proposed development. Existing shadows are represented by the dark grey and the proposed shadows in blue.

Pages three (3) to twelve (12) of the study show the existing and proposed shadows on March 21 at the following times: 9:18 am, 10:18 am, 11:18 am, 12:18 pm, 1:18 pm, 2:18 pm, 3:18 pm, 4:18 pm, 5:18 pm and 6:18 pm. Pages thirteen (13) to twenty two (22) show the existing and proposed shadows on June 21 at the following times: 9:18 am, 10:18 am, 11:18 am, 12:18 pm, 1:18 pm, 2:18 pm, 3:18 pm, 4:18 pm, 5:18 pm and 6:18 pm. Pages twenty three (23) to thirty two (32) show the existing and proposed shadows on September 21 at the following times: 9:18 am, 10:18 am, 10:18 am, 11:18 am, 12:18 pm, 2:18 pm, 1:18 pm, 2:18 pm, 1:18 pm, 2:18 pm, 3:18 pm, 4:18 pm, 2:18 pm, 3:18 pm, 4:18 pm, 2:18 pm, 1:18 pm, 1:18 am, 10:18 am, 10:18 am, 11:18 am, 12:18 pm, 2:18 pm, 1:18 pm, 1:18 pm, 2:18 pm, 3:18 pm, 4:18 pm, 5:18 pm and 6:18 pm. Pages thirty tree (33) to forty (40) show the existing and proposed shadows on December 21 at the following times: 9:18 am, 10:18 am, 11:18 am, 12:18 pm, 1:18 pm, 2:18 pm, 3:18 pm, 4:18 pm, 5:18 pm and 6:18 pm. Pages thirty tree (33) to forty (40) show the existing and proposed shadows on December 21 at the following times: 9:18 am, 10:18 am, 11:18 am, 12:18 pm, 1:18 pm, 2:18 pm, 3:18 pm, 3:18 pm, 4:18 pm.

Study images on all days for the proposed development were analysed for shadow impacts on neighbouring streets, parks, open spaces, natural areas, public squares and other shadow sensitive properties including residential and commercial properties.

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#### ANALYSIS

In review of the images we have determined that the shadows of the proposed development impact a total of thirteen (13) properties to the East and fifteen (15) properties to the North. No (0) properties were impacted to the West or South of the proposed development. All the impacted properties listed below are identified as residential properties except one (1) property to the East located at 2 Rosetta St. which is identified as Manufacturing. There are no parks, open spaces or natural areas impacted by the shadows of the proposed development.

#### **Residential Properties**

Twenty eight (28) residential properties were impacted by shadows from the proposed development. Fifteen (15) to the North and thirteen (13) to the East of the proposed development. The fifteen (15) properties to North are located at: 1, 7, 9, 11, 15 and 17 Caroline St., 34, 38, 44, 48, 51(A), 51(B), 51(C), 51(D), and 55 John St.

The thirteen (13) remaining residential properties are located to the East at 25 Caroline St., 2, 8, 10, 12 and 16 Rosetta St., 2, 4, 6, 10, and 11 River Dr, 23-35 and 42-50 Daniela Ct.

#### **Other Properties**

One (1) property to the East is identified as Manufacturing (Applied Wiring Assemblies Inc.) and is located at 2 Rosetta St.

#### North of Subject Property:

**1 Caroline St.** was impacted for two hourly test times in the morning on each of March 21 and September 21 at 9:18 am and 10:18 am. The property is also impacted for a single hour in the morning of December 21 at 9:18 am.

**7 Caroline St.** was partially impacted for two hourly test times in the morning on each of March 21 and September 21 at 10:18 am and 11:18 am. The property is also impacted for three hours in the morning of December 21 at 9:18 am, 10:18 am and 11:18 am.

**9 Caroline St.** was only impacted for four hours in the morning of December 21 at 9:18 am, 10:18 am, 11:18 am, and 12:18 pm.

**11 Caroline St.** was impacted for a single hourly test time in the morning on each of March 21 and September 21 at 9:18 am. The property is also impacted for four hours in the morning of December 21 at 9:18 am, 10:18 am, 11:18 am and 12:18 pm.

**15 Caroline St.** was impacted for two hourly test times in the morning on each of March 21 and September 21 at 9:18 am and 10:18 am. The property is also impacted for four hours in the morning of December 21 at 9:18 am, 10:18 am, 11:18 am and 12:18 pm.

**17 Caroline St.** was impacted for a single hourly test time in the morning on each of March 21 and September 21 at 10:18 am. The property is also impacted for two hourly test times in the morning of December 21 at 9:18 am and 10:18 am.

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34 John St. was only impacted for a single hourly test time in the morning of March 21 at 9:18 am.

**38 John St.** was impacted for two hourly test times in the morning of December 21 at 9:18 am and 10:18 am.

44 John St. was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

**48 John St.** was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

**51(A)** John St. was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

**51(B)** John St. was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

**51(C)** John St. was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

**51(D)** John St. was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

**55 John St.** was only impacted for a single hourly test time in the morning of December 21 at 9:18 am.

#### East of Subject Property:

**25 Caroline St.** was impacted for two hourly test times in the afternoon of December 21 at 2:18 pm, and 3:18 pm.

**2 Rosetta St.** was only impacted for two hourly test times in the afternoon on each of March 21 and September 21 at 5:18 pm and 6:18 pm. The property is also impacted for four hours in the afternoon of December 21 from 1:18 pm, till 4:18 pm.

**8 Rosetta St.** was impacted for three hourly test times in the afternoon on each of March 21, September 21 from 4:18 pm, till 6:18 pm. The property is also impacted in the morning and afternoon of December 21 from 11:18 am till 4:18 pm.

**10 Rosetta St.** was impacted for three hourly test times in the afternoon on each of March 21, September 21 from 4:18 pm, till 6:18 pm. The property is also impacted in the morning of December 21 from 11:18 am till 4:18 pm.

**12 Rosetta St.** was impacted for two hourly test times in the afternoon on each of March 21, September 21 at 4:18 pm and 5:18 pm. The property is also impacted in the morning of December 21 from 10:18 am till 4:18 pm.

**16 Rosetta St.** was impacted for two hourly test times in the afternoon on each of March 21, September 21 from 3:18 pm and 4:18 pm. The property is also impacted in the morning of December 21 from 10:18 am till 4:18 pm.

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**2** River Dr. was impacted for two hourly test times in the afternoon on each of March 21, September 21 and June 21 at 5:18 pm and 6:18 pm.

**4 River Dr.** was only impacted for a single hourly test time in the afternoon on each of March 21 at 6:18 pm. and for two hourly test times in the afternoon of September 21 at 5:18 pm. and 6:18 pm. The property is also impacted in the afternoon of December 21 from 1:18 pm till 4:18 pm.

**6 River Dr.** was only impacted for a single hourly test time in the afternoon of both March 21 and September 21 at 6:18 pm. The property is also impacted in the afternoon of December 21 from 1:18 pm till 4:18 pm.

**10 River Dr.** was only impacted for a single hourly test time in the afternoon on each of March 21, and September 21 at 6:18 pm. The property is also impacted for three hourly test time in the afternoon of December 21 from 2:18 pm till 4:18 pm.

**11 River Dr.** was only impacted for a single hourly test time in the afternoon of September 21 at 6:18 pm. The property is also impacted for two hourly test times in the afternoon of December 21 from 3:18 pm till 4:18 pm.

**23-35 Daniela Ct.** was impacted for two hourly test time in the afternoon on December 21 at 3:18 pm and 4:18 pm.

**42-50 Daniela Ct.** was impacted for two hourly test time in the afternoon on December 21 at 3:18 pm and 4:18 pm.

In review of the illustrations provided, it is our opinion that the shadow impacts caused by the proposed development are acceptable, as minimal impacts can be seen on neighbouring streets and shadow sensitive properties and there are no impacts on parks, open spaces or natural areas.

Included in this document:

- 4 pages of written analysis for sun/shadow study
- 2 pages showing a key plan and a reference plan
- 38 pages of coloured illustrations showing proposed and existing shadows















































































