

5080 Ninth Line, Mississauga ON

Shadow Study Written Analysis Prepared – September 7, 2021

The latitude and longitude used in the preparation of the shadow study is as follows:

Latitude: 43 degrees 35' 20" N Longitude: 79 degrees 38' 40" W

North has been determined using a UTM coordinate system using NAD 83 Original to determine North.

The Origin/Source Plan is derived from Horizontal Control Monuments No. 075930012 and No.075930019, and are referred to the 6° UTM Coordinate system, Zone 17, Central Meridian 81°00' West Longitude. (NAD 83 Original).

The following is the summary of the shadow impact criteria that has been met.

3.1 Residential Private Outdoor Amenity Spaces

There is no shadow impact from the proposed development on surrounding residential dwellings on June 21, or September 21.

3.2 Communal Outdoor Amenity Areas

The Sun Access Factor for June 21 is 0.592 The Sun Access Factor for September 21 is 0.706 The Sun Access Factor for December 21 is 0.859



## 3.3 Public Realm

The opposing boulevard of Ninth Line is free of shadows between the hours of 12:12pm and 2:12pm, and between the hours of 9:12am, 10:12am, and 11:12am.

3.4 Turf and flower gardens in public parks

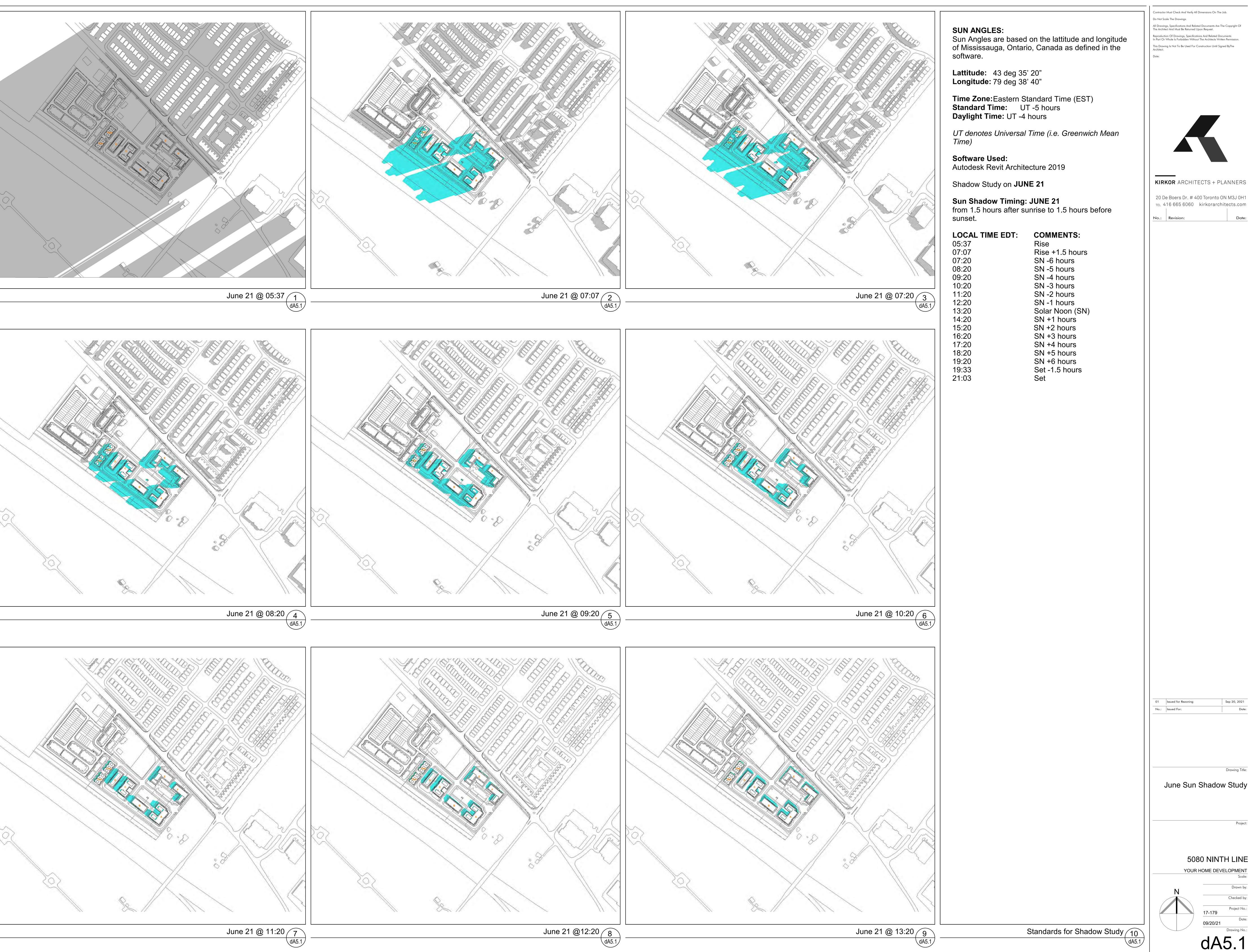
The proposed development's shadow allows for adequate sunlight during the growing season from March to October by allowing for a minimum of 6 hours of direct sunlight on September 21 on proposed Public Park (except a small portion west of proposed Public Park)

3.5 Building Faces to allow for the possibility of using solar energy

The proposed development does not have a shadow impact for more than two consecutive hourly test times in the No Impact zone on September 21.

Sincerely,

Clifford Korman



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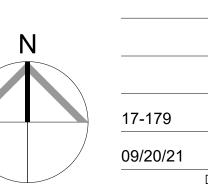
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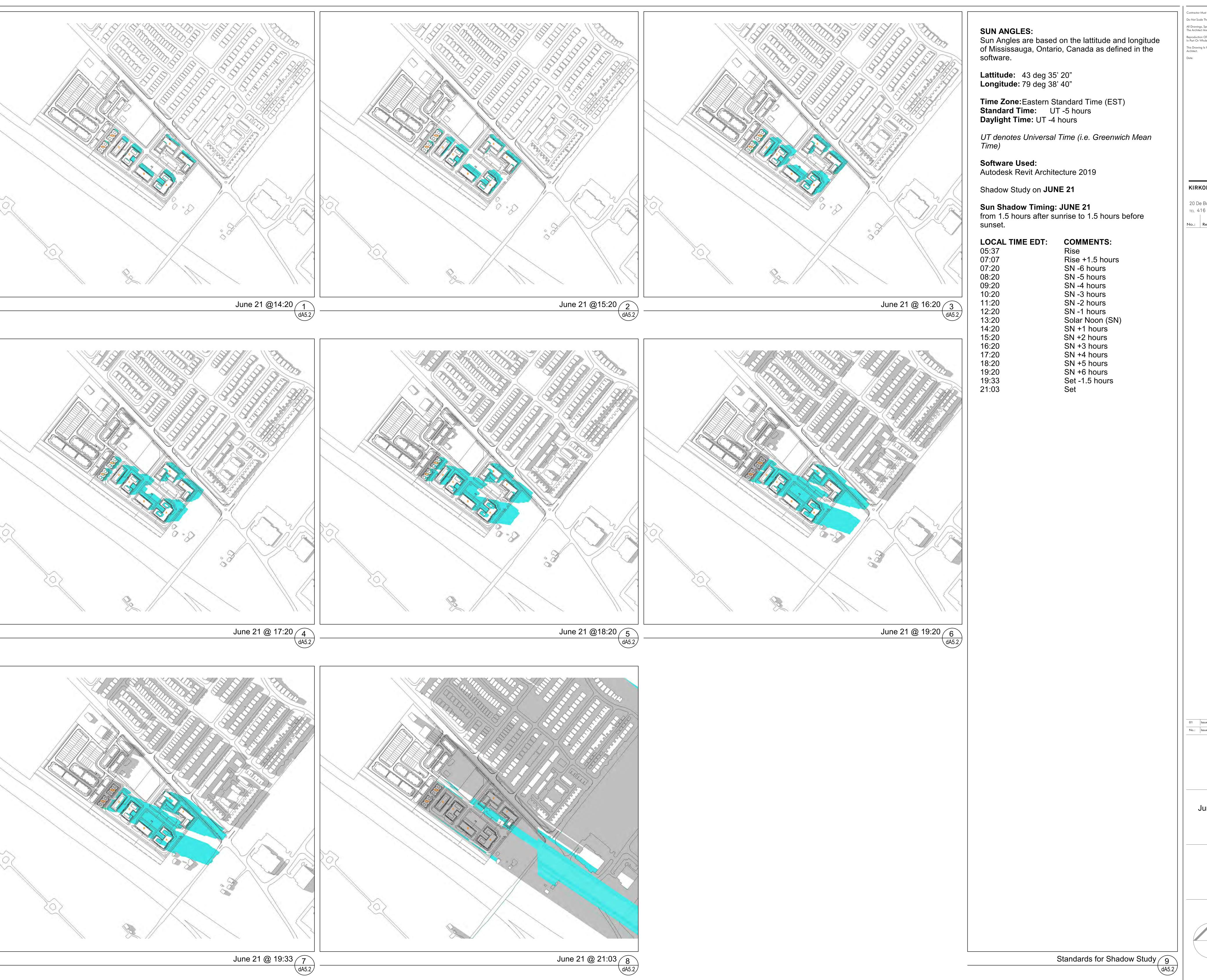
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Drawing Title: June Sun Shadow Study

5080 NINTH LINE





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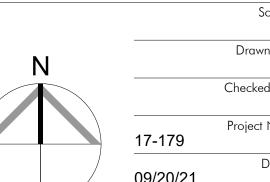
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June Sun Shadow Study

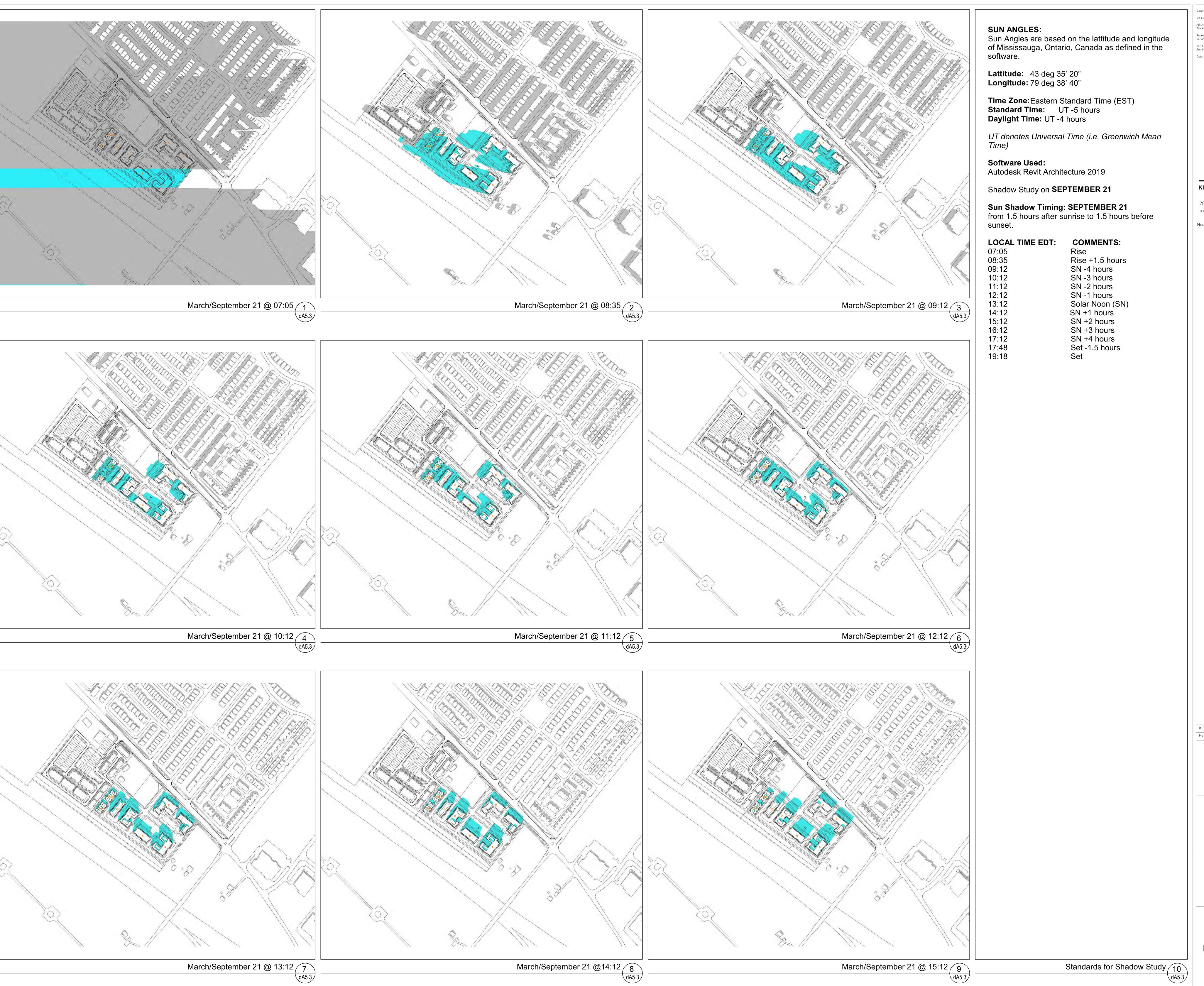
5080 NINTH LINE

YOUR HOME DEVELOPMENT

Scale:



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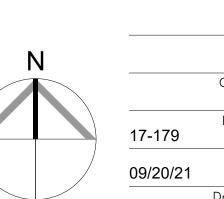
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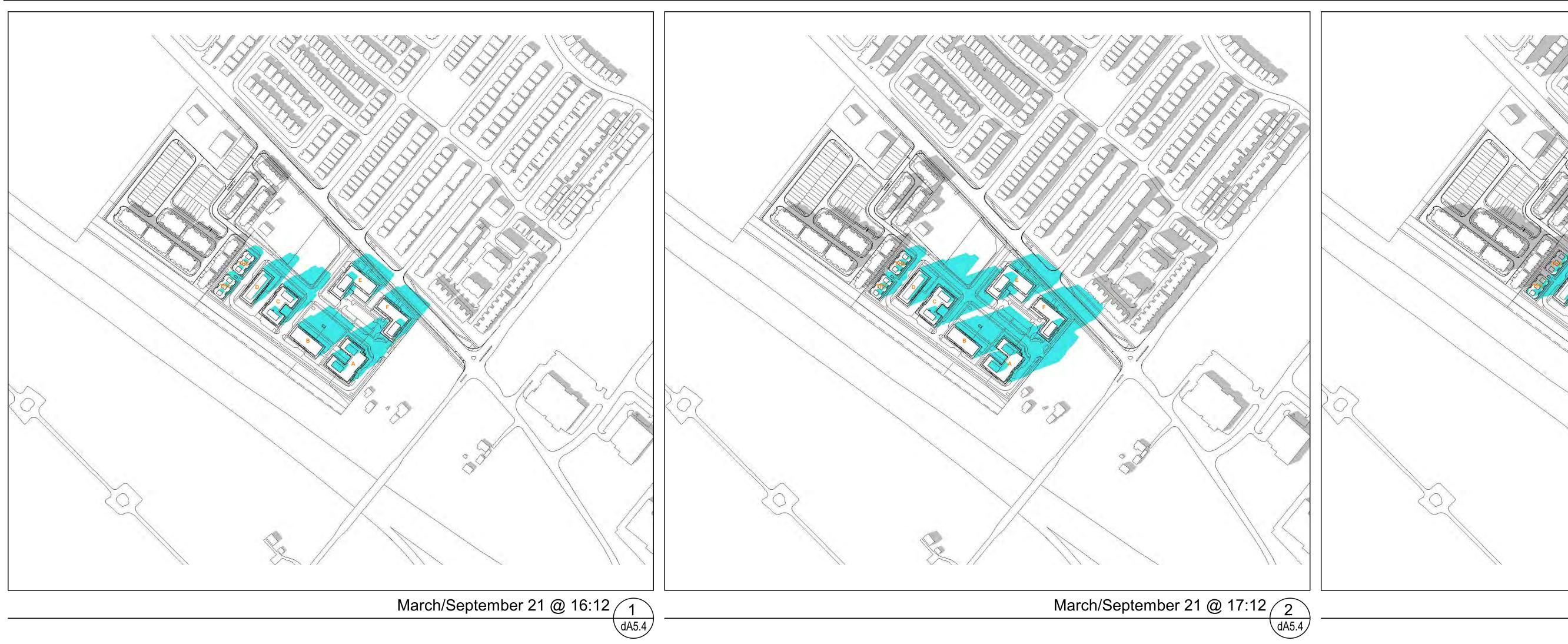
March/September Sun Shadow Study

5080 NINTH LINE

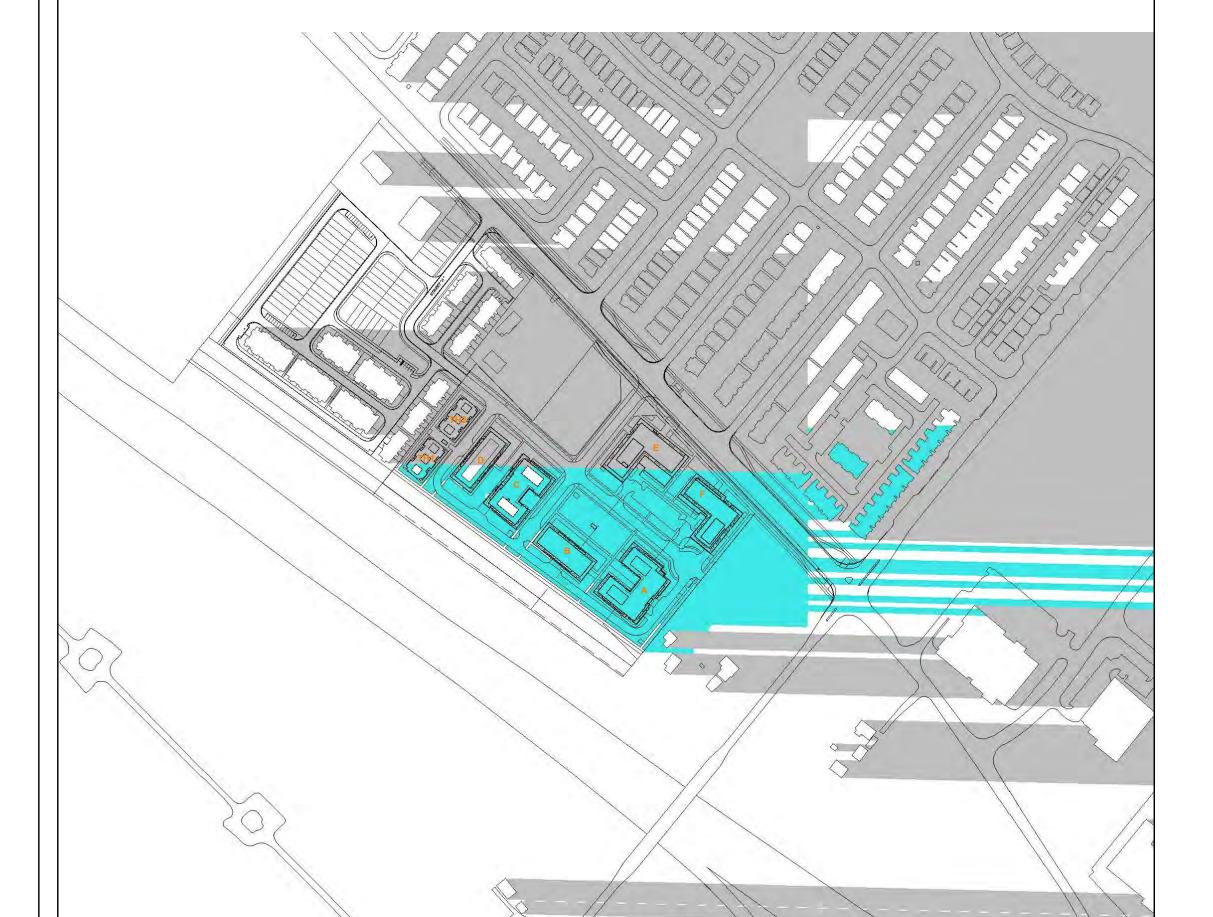
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dA5.3



March/September 21 @ 17:48 3



March/September 21 @ 19:18 4



Sun Angles are based on the lattitude and longitude of Mississauga, Ontario, Canada as defined in the software.

**Lattitude:** 43 deg 35' 20" **Longitude:** 79 deg 38' 40"

**Time Zone:** Eastern Standard Time (EST) **Standard Time:** UT -5 hours Daylight Time: UT -4 hours

UT denotes Universal Time (i.e. Greenwich Mean

## Software Used:

Autodesk Revit Architecture 2019

Shadow Study on SEPTEMBER 21

Sun Shadow Timing: SEPTEMBER 21 from 1.5 hours after sunrise to 1.5 hours before

LOCAL TIME EDT:  07:05 08:35 09:12 10:12 11:12 12:12 13:12 14:12 15:12 16:12 17:48	COMMENTS: Rise Rise +1.5 hours SN -4 hours SN -3 hours SN -2 hours SN -1 hours Solar Noon (SN) SN +1 hours SN +2 hours SN +3 hours SN +4 hours
17:12 17:48 19:18	SN +4 hours Set -1.5 hours Set

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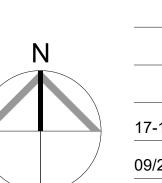
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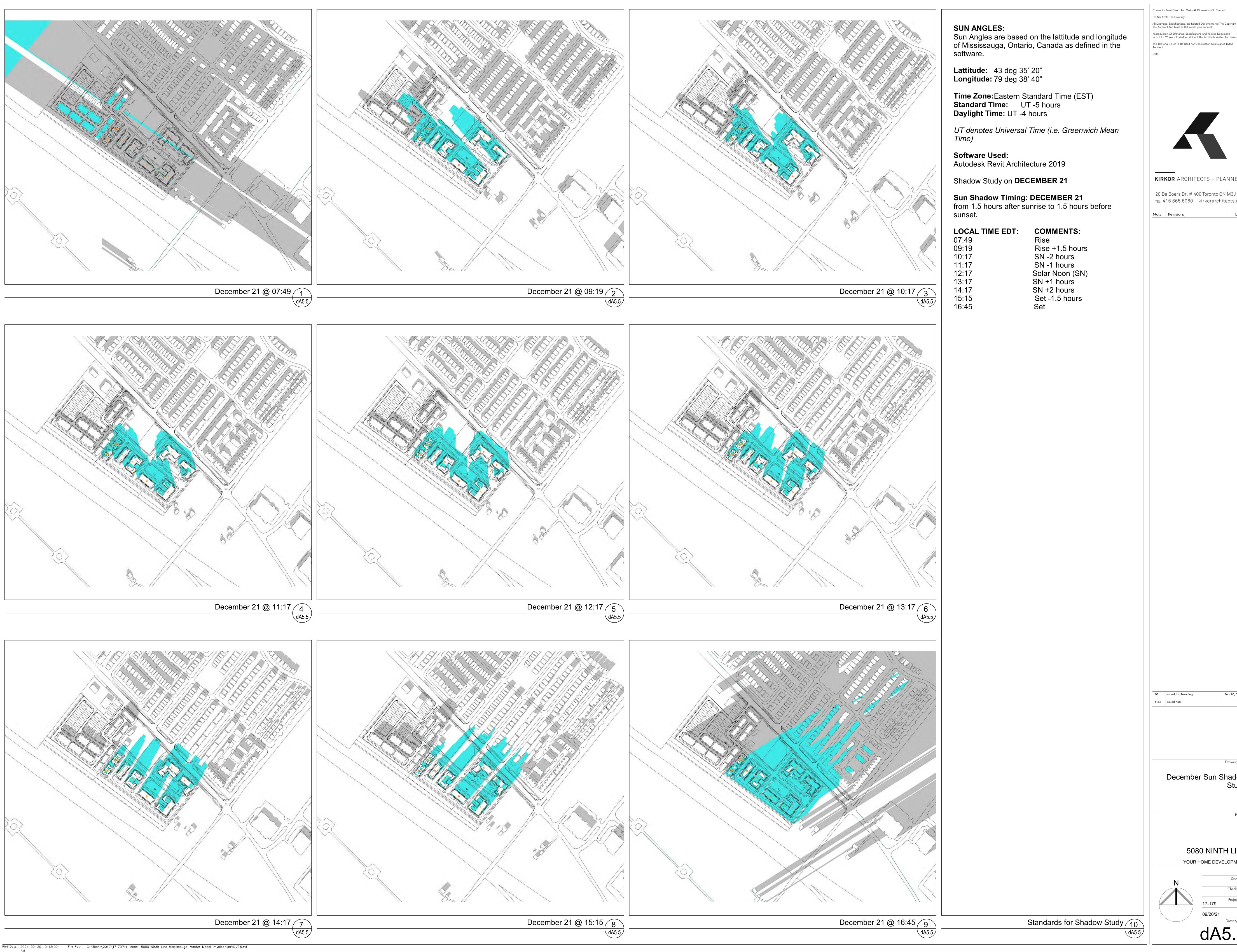
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March/September Sun Shadow Study

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Standards for Shadow Study 5 dA5.4



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Drawing Title:

December Sun Shadow

5080 NINTH LINE

