

1 **Shadow Study Mar 21 9AM**
1 : 2000



2 **Shadow Study Mar 21 10AM**
1 : 2000



3 **Shadow Study Mar 21 11AM**
1 : 2000



4 **Shadow Study Mar 21 12PM**
1 : 2000



5 **Shadow Study Mar 21 1PM**
1 : 2000



6 **Shadow Study Mar 21 2PM**
1 : 2000

TRUE NORTH

GENERAL NOTES

1. **DO NOT SCALE DRAWINGS**. WRITTEN DIMENSIONS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS.
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LEGEND

- SITE BOUNDRY
- OPEN SPACES
- PRIVATE OUTDOOR AMENITY SPACE
- PUBLIC REALM AND SIDEWALKS
- NET NEW SHADOWS CAST ON GROUND SURFACES
- NET NEW SHADOW CAST ON ROOF SURFACES
- AREA EXPOSED TO SUNSHINE ($A_{S(TEST)}$)
- AREA IN SHADOW

No.	Date	Revision
1	2021-09-14	ISSUED FOR REZONING APPLICATION

srm ARCHITECTS INC.

Project No 20042
Project Date 2021-04-22
Drawn by JKM
Checked by TJM
Plot Date / Time 9/14/2021 4:24:23 PM

284-292 PLAINS RD. E, BURLINGTON

SHADOW STUDY - SPRING EQUINOX

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
Status PRELIMINARY
Drawing No. D4.1
Revision No. - r1

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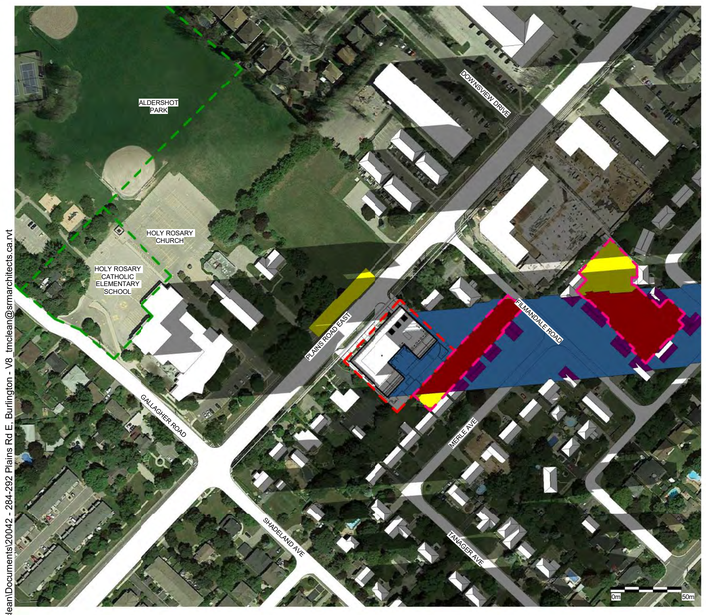
1 Shadow Study Mar 21 3PM
1 : 2000



2 Shadow Study Mar 21 4PM
1 : 2000



3 Shadow Study Mar 21 5PM
1 : 2000



4 Shadow Study Mar 21 6PM
1 : 2000

KEY CIVIC AND CULTURAL SPACES

N/A. OUR DEVELOPMENT DOES NOT CAST A SHADOW ON ANY KEY CIVIC OR CULTURAL SPACES.

PRIVATE OUTDOOR AMENITY SPACES

A SHADOW IS CREATED ON THE RESIDENTIAL AREA EAST OF OUR DEVELOPMENT, HOWEVER THE SHADOW DOES NOT EXCEED 2 HOURS IN DURATION BETWEEN 9:00 AND 18:00 ON MARCH 21ST, THEREFORE THE PROPOSAL MEETS THE APPLICABLE SHADOW IMPACT CRITERIA FOR PRIVATE OUTDOOR AMENITY SPACES.

PARKS AND OPEN SPACES

N/A. OUR DEVELOPMENT DOES NOT CAST A SHADOW ON ANY PARKS OR OPEN SPACES.

PLACES WHERE CHILDREN PLAY

N/A. OUR DEVELOPMENT DOES NOT CAST A SHADOW ON ANY PLACES WHERE CHILDREN PLAY.

PUBLIC REALM AND SIDEWALKS

TOTAL AREA OF BOULEVARD

A_T = 620m²

AREAS EXPOSED TO SUNSHINE AT EACH HOURLY TEST TIME ($A_{S(TEST)}$):

09:00 ($A_{S\ (09:00)}$) = 129 m2
10:00 ($A_{S\ (10:00)}$) = 456 m2
11:00 ($A_{S\ (11:00)}$) = 620 m²
12:00 ($A_{S\ (12:00)}$) = 620 m²
13:00 ($A_{S\ (13:00)}$) = 620 m²
14:00 ($A_{S\ (14:00)}$) = 620 m²
15:00 ($A_{S\ (15:00)}$) = 620 m²
16:00 ($A_{S\ (16:00)}$) = 620 m²
17:00 ($A_{S\ (17:00)}$) = 620 m²
18:00 ($A_{S\ (18:00)}$) = 620 m²

NUMBER OF TEST TIMES = 10

THE AVERAGE FOR THE NINE ONE-HOUR INTERVALS ($A_{S\ (INTERVAL)}$)

09:00-10:00 ($A_{S\ (INTERVAL-09:00\ TO\ 10:00)}$) = (129 m² + 456 m²) ÷ 2 =293 m²
10:00-11:00 ($A_{S\ (INTERVAL-10:00\ TO\ 11:00)}$) = (456 m² + 620 m²) ÷ 2 = 538 m²
11:00-12:00 ($A_{S\ (INTERVAL-11:00\ TO\ 12:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²
12:00-13:00 ($A_{S\ (INTERVAL-12:00\ TO\ 13:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²
13:00-14:00 ($A_{S\ (INTERVAL-13:00\ TO\ 14:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²
14:00-15:00 ($A_{S\ (INTERVAL-14:00\ TO\ 15:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²
15:00-16:00 ($A_{S\ (INTERVAL-15:00\ TO\ 16:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²
16:00-17:00 ($A_{S\ (INTERVAL-16:00\ TO\ 17:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²
17:00-18:00 ($A_{S\ (INTERVAL-17:00\ TO\ 18:00)}$) = (620 m² + 620 m²) ÷ 2 = 620 m²

NUMBER OF TEST INTERVALS = 9
SUM OF ($A_{S\ (INTERVAL)}$) = 5,171 m²

THE OVERALL AREA IN SUNSHINE ($A_{S\ (AVERAGE)}$) = [SUM OF ($A_{S\ (INTERVAL)}$)] ÷ [# OF INTERVALS]

($A_{S\ (AVERAGE)}$) = 5,171 m² ÷ 9 = 575 m²

SAF = ($A_{S\ (AVERAGE)}$) ÷ A_T

SAF = 575 m² ÷ 620 m²
SAF = 0.93

0.93 IS GREATER THAN 0.50. THEREFORE, THE SAF MEETS THE CRITERIA.

TRUE NORTH

GENERAL NOTES

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1	2021-09-14	ISSUED FOR REZONING APPLICATION

srm ARCHITECTS INC.

Project No 20042
Project Date 2021-04-22
Drawn by JKM
Checked by TJM
Plot Date / Time 9/14/2021 4:25:23 PM

284-292 PLAINS RD. E, BURLINGTON

SHADOW STUDY - SPRING EQUINOX

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
Status PRELIMINARY
Drawing No. D4.2
Revision No. - r1

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1 **Shadow Study Sep 21 9AM**
1 : 2000



2 **Shadow Study Sep 21 10AM**
1 : 2000



3 **Shadow Study Sep 21 11aM**
1 : 2000



4 **Shadow Study Sep 21 12PM**
1 : 2000



5 **Shadow Study Sep 21 1PM**
1 : 2000



6 **Shadow Study Sep 21 2PM**
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TRUE NORTH

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srm ARCHITECTS INC.

Project No 20042
Project Date 2021-04-22
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Checked by TJM
Plot Date / Time 9/14/2021 4:26:50 PM

284-292 PLAINS RD. E, BURLINGTON

SHADOE STUDY - FALL EQUINOX

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
Status PRELIMINARY
Drawing No. D4.3
Revision No. - r1

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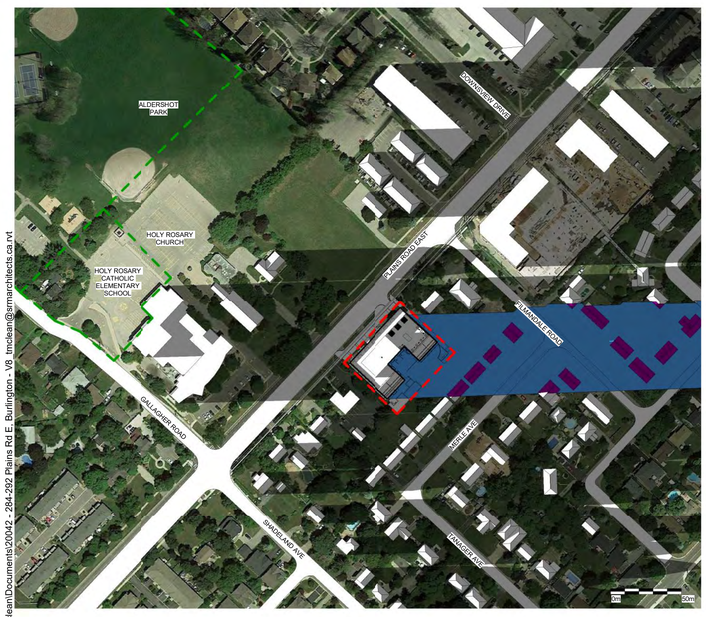
1 **Shadow Study Sep 21 3PM**
1 : 2000



2 **Shadow Study Sep 21 4PM**
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3 **Shadow Study Sep 21 5PM**
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4 **Shadow Study Sep 21 6PM**
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srm ARCHITECTS INC.

Project No 20042
Project Date 2021-04-22
Drawn by JKM
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Plot Date / Time 9/14/2021 4:27:55 PM

284-292 PLAINS RD. E, BURLINGTON

SHADOW STUDY - FALL EQUINOX

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
Status PRELIMINARY
Drawing No. D4.4
Revision No. - r1

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3 **Shadow Study Dec 21 11AM**
1 : 2000



4 **Shadow Study Dec 21 12PM**
1 : 2000



5 **Shadow Study Dec 21 1 PM**
1 : 2000



6 **Shadow Study Dec 21 2 PM**
1 : 2000



1 **Shadow Study Dec 21 3 PM**
1 : 2000

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srm ARCHITECTS INC.

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Project Date 2021-04-22
Drawn by JKM
Checked by TJM
Plot Date / Time 9/14/2021 4:29:17 PM

284-292 PLAINS RD. E, BURLINGTON

SHADOW STUDY - WINTER SOLSTICE

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
Status PRELIMINARY
Drawing No. D4.5
Revision No. - r1

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1 **Shadow Study June 21 9AM**
1 : 2000



2 **Shadow Study June 21 10AM**
1 : 2000



3 **Shadow Study June 21 11AM**
1 : 2000



4 **Shadow Study June 21 12PM**
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5 **Shadow Study June 21 1 PM**
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6 **Shadow Study June 21 2 PM**
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Project Date 2021-04-22
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Plot Date / Time 9/14/2021 4:30:55 PM

284-292 PLAINS RD. E, BURLINGTON

SHADOW STUDY - SUMMER SOLSTICE

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
Status PRELIMINARY
Drawing No. D4.6
Revision No. - r1

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1 Shadow Study June 21 3 PM
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284-292 PLAINS RD. E, BURLINGTON

SHADOW STUDY - SUMMER SOLSTICE

ONTARIO ASSOCIATION OF ARCHITECTS
EDWARD THOMAS LICENCE 5572

Drawing Scale 1 : 2000
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