BOUSFIELDS INC.
PLANNING | DESIGN | ENGAGEMENT

Shadow Study



1376-1382 Plains Road East

City of Burlington

2731115 Ontario Inc., F. K Deals on Wheels Inc., 2731119 Ontario Inc., and Manor Care Homes Inc.

May 2026

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1 Introduction and Purpose

This Shadow Study has been prepared by Bousfields Inc., on behalf of 2731115 Ontario Inc., F. K Deals on Wheels Inc., 2731119 Ontario Inc., and Manor Care Homes Inc., to analyze the incremental shadows cast by the development proposed on the lands known municipally as 1376-1382 Plains Road East in the City of Burlington (hereafter referred to as the "Subject Site").

Bousfields Inc. has prepared this Shadow Study report in accordance with the City of Burlington Shadow Study Guidelines and Terms of Reference (June 2020). The purpose of the Shadow Study Guidelines (the "SSG") is to provide a best practices approach to Shadow Studies to promote high-quality development proposals that ensure adequate access to sunlight is maintained for the enjoyment of public and private spaces. The SSG states that the document should be used by the development community to inform development proposals within the City of Burlington and that the document is a tool for City Staff to be used in the review and evaluation of development applications.

1.1 Site Latitude and Longitude

The latitude and longitude location of the Subject Site and astronomic north were defined by geolocating the 3D model in SketchUp Pro:

- Latitude: 43, 325872N
- Longitude: 79, 792693W

1.2 Time Zone

This Shadow Study has been prepared using the following time zone standards:

- Standard Time: Universal Time minus 5 hours (Winter Solstice - December 21st)
- Daylight Saving Time: Universal Time minus 4 hours (Vernal Equinox - March 21st; Summer Solstice - June 21st; and Autumnal Equinox - September 21st)

1.3 Software Used to Prepare Shadow Analysis

3-dimensional modelling was prepared in Sketchup Pro to simulate shadow conditions. Shadow Study diagrams and composite images were prepared using Adobe Photoshop. Sun Access Factor calculations are based on area measurements taken from the City of Burlington parcel data and were conducted using AutoCAD.

1.4 Identified Areas

As per Section 4.0 of the SSG, this Study identifies potential key areas surrounding the proposed development. It notes that the criteria cannot be applied universally due to unique site specific and surrounding built form and land use attributes. Five unique Shadow Impact Criteria have been developed to respond to desired uses, and, as such, each area will include unique evaluation criteria with different times, dates and standards as noted in the SSG. These include:

- Key Civic and Cultural Spaces
- Private Outdoor Amenity Spaces
- Parks and Open Space
- Places where Children Play
- Public Realm and Sidewalks



Figure 1 - Key Map, identifies areas that are shadowed by the proposed development

Private Outdoor Amenity Areas

1. 1044 Helena Street
2. 1358 Leighland Road
3. 1354 Leighland Road
4. 1352 Leighland Road
5. 1348 Leighland Road
6. 1019 Helena Street
7. 1023 Helena Street
8. 1027 Helena Street
9. 1031 Helena Street
10. 1033 Helena Street
11. 1039 Helena Street
12. 1045 Helena Street
13. 1376 Leighland Road
14. 1401 Plains Road East

Places where Children Play- Playground

1. 1401 Plains Road East

Public Realm and Sidewalks

1. Plains Road East - Boulevards Opposite the Subject Site

2 Shadow Analysis

2.1 Key Civic and Cultural Spaces

Section 4.2 of the SSG states that proposed developments should not cast any net new shadows on Key Civic and Cultural Spaces between 10:00am and 4:00pm on March 21st and September 21.

Key Civic and Cultural Spaces include but are not limited to:

- Civic Square (426 Brant Street)
- Elgin Promenade Square (391 Brant Street)
- Spencer Smith Park (1340 and 1400 Lakeshore Road)

Assessment:

No key civic and cultural spaces were identified within the extent of the proposed development's shadow cover. As such, the proposed development will not cast net new shadows on any of these spaces, therefore satisfying the criteria for this guideline.

2.2 Private Outdoor Amenity Spaces

Section 4.3 of the SSG states that in order to maximize the usability of private outdoor amenity areas such as rear yards, decks, and (rooftop) patios, including common outdoor amenity areas, shadows from proposed developments should not exceed 2 hours in duration, between 9:00am and 6:00pm on March 21st.

Where existing shadows limit access to sun during the times noted above, net new shadows resulting from proposed buildings should allow a minimum amount of sunlight to reach nearby private residential outdoor amenity areas, including common outdoor amenity areas, between the hours of 9:00am and 6:00pm on the specified day. The criterion is met if the Sun Access Factor is at least 0.22 on each of the test dates.

Assessment:

For the purposes of this Study, private outdoor amenity spaces are deemed to be areas which are intended for recreational purposes. These may include private rear yards and common amenity spaces associated with developments. These do not include open spaces that are not intended for recreational purposes, such as landscape strips and buffer areas, or driveways, servicing and parking areas.

The proposed development will result in net new shadows on private amenity spaces associated with 14 properties:

- 1044 Helena Street
- 1358 Leighland Road
- 1354 Leighland Road
- 1352 Leighland Road
- 1348 Leighland Road
- 1019 Helena Street
- 1023 Helena Street
- 1027 Helena Street
- 1031 Helena Street
- 1033 Helena Street
- 1039 Helena Street
- 1045 Helena Street
- 1376 Leighland Road
- 1401 Plains Road East

1. 1044 Helena Street

With respect to 1044 Helena Street, the proposed development casts new net shadows on the rear yard at 9:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.96. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

2. 1358 Leighland Road

With respect to 1358 Leighland Road, the proposed development casts new net shadows on the rear yard at 9:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.86. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

3. 1354 Leighland Road

With respect to 1354 Leighland Road, the proposed development casts new net shadows on the rear yard at 9:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.87. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

4. 1352 Leighland Road

With respect to 1352 Leighland Road, the proposed development casts new net shadows on the rear yard at 9:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.88. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

5. 1348 Leighland Road

With respect to 1348 Leighland Road, the proposed development casts new net shadows on the rear yard at 9:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.97. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

6. 1019 Helena Street

With respect to 1019 Helena Street, the proposed development casts new net shadows on the rear yard at 9:00am and 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.73. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

7. 1023 Helena Street

With respect to 1023 Helena Street, the proposed development casts new net shadows on the rear yard at 9:00am and 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.72. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

8. 1027 Helena Street

With respect to 1027 Helena Street, the proposed development casts new net shadows on the rear yard at 9:00am and 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.66. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

9. 1031 Helena Street

With respect to 1031 Helena Street, the proposed development casts new net shadows on the rear yard at 9:00am and 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.63. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

10. 1033 Helena Street

With respect to 1033 Helena Street, the proposed development casts new net shadows on the rear yard at 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.72. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

11. 1039 Helena Street

With respect to 1039 Helena Street, the proposed development casts new net shadows on the rear yard at 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.76. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

12. 1045 Helena Street

With respect to 1045 Helena Street, the proposed development casts new net shadows on the rear yard at 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.82. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

13. 1376 Leighland Road

With respect to 1376 Leighland Road, the proposed development casts new net shadows on the rear yard at 10:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.92. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

14. 1401 Plains Road East

With respect to 1401 Plains Road East, the proposed development casts new net shadows on the rear yard of townhouses located on the west side of the property at 10:00am and 11:00am on March 21st. All other shadow impacts associated with this private outdoor amenity space are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.77. As such net new shadows cast by the proposed development will not exceed 2 hours in duration and will result in a Sun Access Factor greater than 0.22, satisfying the SSG criteria.

Calculations have been carried out for private outdoor amenity areas, as summarized in **Table 1**.

Test Time	Private Outdoor Amenity Spaces						
March 21st	**1** 1044 Helena Street Total Area: ~507 sm	**2** 1358 Leighland Road Total Area: ~201 sm	**3** 1354 Leighland Road Total Area: ~269 sm	**4** 1352 Leighland Road Total Area: ~ 299 sm	**5** 1348 Leighland Road Total Area: ~111 sm	**6** 1019 Helena Street Total Area: ~209 sm	**7** 1023 Helena Street Total Area: ~207 sm
	Areas in Sunshine (sm)						
9:00am	283	0	0	65	105	0	26
10:00am	461	167	243	299	111	0	0
11:00am	497	182	254	299	111	209	181
12:00pm	504	184	261	299	111	204	179
1:00pm	506	185	265	299	111	199	178
2:00pm	507	186	268	296	111	193	181
3:00pm	507	187	269	286	111	187	180
4:00pm	497	187	263	262	108	179	178
5:00pm	496	185	229	216	99	152	168
6:00pm	484	186	106	159	86	89	149
Average Area in Sunshine	**484.28**	**172.89**	**233.89**	**263.11**	**107.61**	**151.94**	**148.06**
Sun Access Factor	**0.96**	**0.86**	**0.87**	**0.88**	**0.97**	**0.73**	**0.72**

Table 1 - Private Amenity Spaces Sun Access Factor: March 21st

*Refer to Appendix A for detailed Sun Access Factor calculations.

Test Time	Private Outdoor Amenity Spaces						
March 21st	**8** 1027 Helena Street Total Area: ~228 sm	**9** 1031 Helena Street Total Area: ~222 sm	**10** 1033 Helena Street Total Area: ~315 sm	**11** 1039 Helena Street Total Area: ~ 352 sm	**12** 1045 Helena Street Total Area: ~363 sm	**13** 1376 Leighland Road Total Area: ~543 sm	**14** 1401 Planis Road East Total Area: ~554 sm
	Areas in Sunshine (sm)						
9:00am	19	17	138	129	221	124	0
10:00am	0	0	1	50	193	434	0
11:00am	228	187	304	330	335	543	272
12:00pm	221	180	295	328	330	543	554
1:00pm	210	177	285	326	330	543	554
2:00pm	202	172	278	321	324	543	554
3:00pm	187	170	267	319	320	543	554
4:00pm	167	164	251	310	311	540	554
5:00pm	118	148	218	261	288	524	554
6:00pm	41	123	155	196	268	474	536
Average Area in Sunshine	**151.44**	**140.89**	**227.28**	**267.50**	**297.28**	**501.33**	**148.06**
Sun Access Factor	**0.66**	**0.63**	**0.72**	**0.76**	**0.82**	**0.92**	**0.77**

Table 1 - Private Amenity Spaces Sun Access Factor: March 21st

*Refer to Appendix A for detailed Sun Access Factor calculations.

2.3 Parks and Open Spaces

Section 4.4 of the SSG provides that shadows cast by all existing buildings and proposed developments onto lands designated or used for Parks and Open Spaces must allow for either: a) full sunlight 50 per cent of the time; or b) 50 per cent sun coverage at all times during the specified periods. These times include:

- March 21st (9:00am to 6:00pm);
- September 21st (9:00am to 6:00pm); and,
- December 21st (11:00am to 3:00pm).

The purpose of this criterion is to ensure adequate access to sunlight at all times of the year. December 21st is included to encourage the use of lands designated or used for Parks and Open Spaces during the winter season. The criterion is met if the Sun Access Factor is at least 0.50 on each of the three test dates.

Assessment:

No offical plan designated Parks or Open Spaces were identified within the extent of the proposed development's shadow cover. As such the proposed development will not cast net new shadows on any of these spaces, therefore satisfying the criteria for this guideline.

2.4 Places Where Children Play

Section 4.5 of the SSG states that, shadows cast by all existing buildings and proposed developments onto places where children play including but not limited to school yards, playgrounds, and park features such as wading pools or other outdoor shadow-sensitive activity areas as identified by the City of Burlington, must allow for either a) full sunlight 50 per cent of the time; or b) 50 per cent sun coverage at all times during the specified periods. These time periods include:

- March 21st (9:00am to 6:00pm);
- September 21st (9:00am to 6:00pm); and,
- December 21st (11:00am to 3:00pm) - applies to school yards and playground areas only.

Assessment:

For the purposes of this Study, the playground associated with townhouse developments at 1401 Plains Road East Road will be evaluated based on the criteria outlined in section 4.4 of the SSG as the proposed development will result in net new shadows on this playground.

1401 Plains Road East

With respect to the playground associated with townhouse developments at 1401 Plains Road East, the proposed development casts new net shadows at 11:00am on December 21st. All other shadow impacts on this space are from existing buildings. The Sun Access Factor is 0.66 for March 21st, 0.64 for September 21st and 0.18 for December 21st. As such net new shadows in March and September cast by the proposed development will result in a Sun Access Factor greater than 0.5, satisfying the SSG criteria.

The proposed development contributes a minimal amount of shadow only at 11:00am on December 21st. The Sun Access Factor is not being met predominantly due to other existing buildings, not the subject proposal.

Calculations have been carried out for the for the playground, as summarized in **Table 2**.

Test Time	1401 Plains Road East - Playground Total Area: ~208sm		
	March 21st	September 21st	December 21st
	Areas in Sunshine (sm)		
9:00am	201	208	-
10:00am	208	208	-
11:00am	208	208	0
12:00pm	208	208	70
1:00pm	200	187	58
2:00pm	141	123	19
3:00pm	64	52	0
4:00pm	37	41	-
5:00pm	67	73	-
6:00pm	21	0	-
Average Area in Sunshine	**138.22**	**133.78**	**36.75**
Sun Access Factor	**0.66**	**0.64**	**0.18**

Table 2 - Places Where Children Play: March 21st, September 21st & December 21st

*Refer to Appendix A for detailed Sun Access Factor calculations.

2.5 Public Realm and Sidewalks

Section 4.6 of the SSG provides that shadows cast by all existing buildings and proposed developments onto the full extents of the boulevard and sidewalk on the opposite side of the adjacent right-of-way, must allow for either a) full sunlight 50 per cent of the time; or b) 50 per cent sun coverage at all times between 9:00am and 6:00pm on March 21st. The criterion is met if the Sun Access Factor is at least 0.50 for the specified date.

Assessment:

As specified in the SSG, the boulevard area that is considered in this Study includes the area between the curb and the front property line or building face, defined by projected perpendicular lines from the subject site's property lines. The proposed development casts new net shadows between 9:00am and 1:00pm on March 21st. All other shadow impacts are from existing buildings. Including new net shadow and existing shadow cover, the Sun Access Factor is 0.53. As such net new shadows cast by the proposed development will result in a Sun Access Factor greater than 0.5, satisfying the SSG criteria.

Calculations have been carried out for the for the boulevard area, as summarized in **Table 3.**

Test Time	Public Realm and Sidewalks
March 21st	Opposite Boulevards Total Area: ~336 sm
	Areas in Sunshine (sm)
9:00am	0
10:00am	61
11:00am	84
12:00pm	161
1:00pm	287
2:00pm	336
3:00pm	336
4:00pm	225
5:00pm	99
6:00pm	7
Average Area in Sunshine	**176.94**
Sun Access Factor	**0.53**

Table 3- Public Realm and Sidewalks Sun Access Factor: March 21st

*Refer to Appendix A for detailed Sun Access Factor calculations.

2.6 Conclusion

Based on the findings of this Study, it is our opinion that the shadowing from the proposed development is adequately limited and acceptable in accordance with the applicable policies of the 1997 Official Plan.

The proposed development meets all the applicable shadow impact criteria for places where children play, private outdoor amenity spaces, and sidewalks.

Based on our foregoing analysis, it is our opinion that there is no unacceptable sun-shadowing for extended periods and the net shadowing of the proposed development is at an acceptable level.

3 Shadow Drawings

The following shadow drawings were prepared for each of the dates and times listed in Section 6.1 of the SSG as set out below:

Spring and Fall Equinoxes:

- March 21st, hourly increments between 9:00 – 6:00pm; and,
- September 21st, hourly increments between 9:00am – 6:00pm.

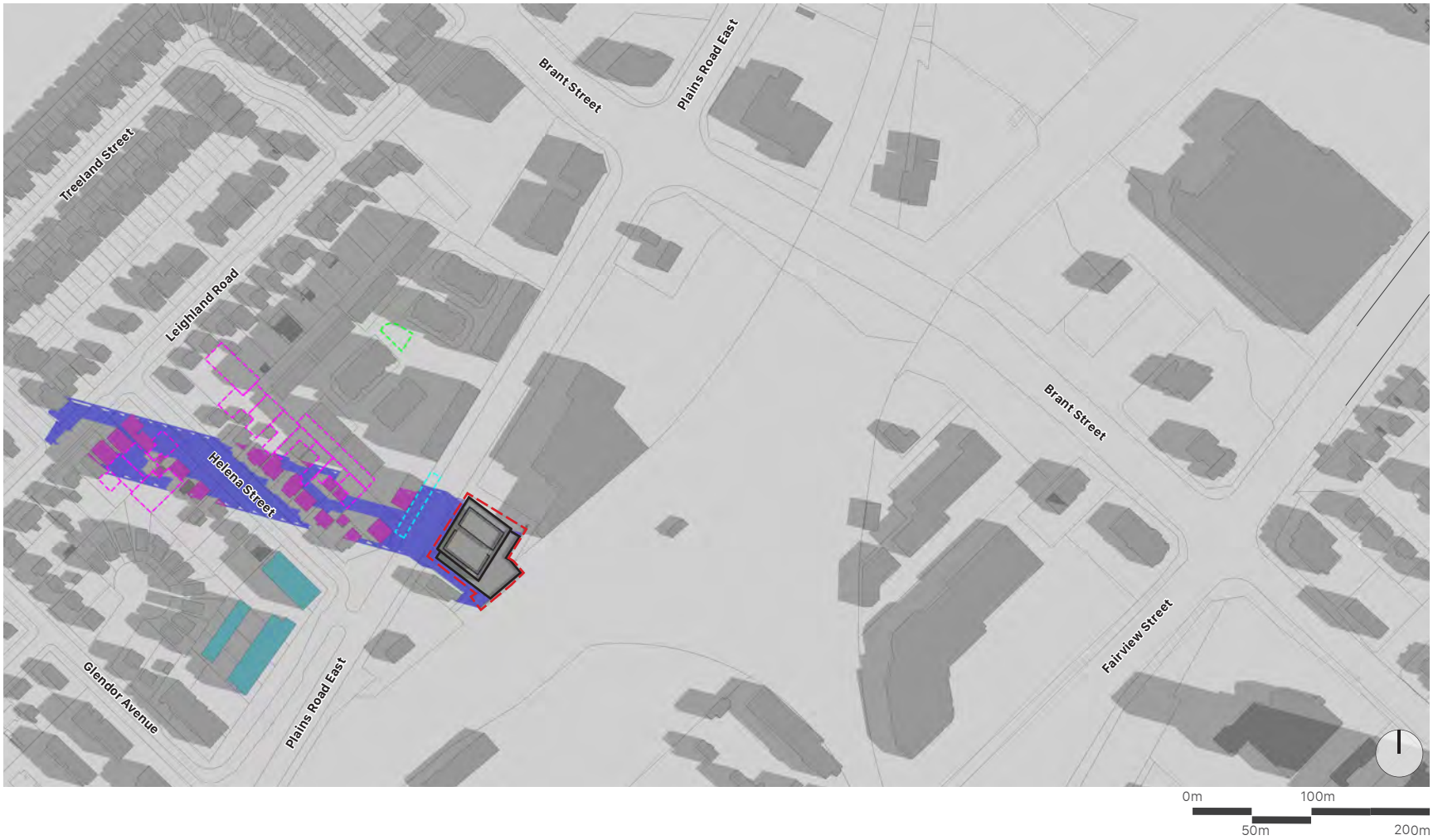
Winter and Summer Solstices:

- December 21st, hourly increments between 11:00am – 3:00pm; and,
- June 21st, hourly increments between 8:00am –7:00pm.

The following features are illustrated within the drawings:

- Development site boundaries (red dashed lines);
- Footprint and mass of the building proposed (thick black solid lines);
- Footprint and mass of existing buildings (thin black solid lines);
- Any Parks, Natural Heritage Systems, Major Parks or Open Space designated lands, Key Civic and Cultural Spaces, or Places where Children Play (thick green dashed lines);
- Public Realm and Sidewalks (thick blue dashed lines);
- Private Outdoor Amenity Space (thick pink dashed lines);
- Shadows cast by existing buildings on all surfaces (black/grey);
- Net New Shadows cast by the proposed building on ground surfaces (blue); and
- Net New Shadows cast by the proposed building on roof surfaces (purple).

March 21st - 9:00am



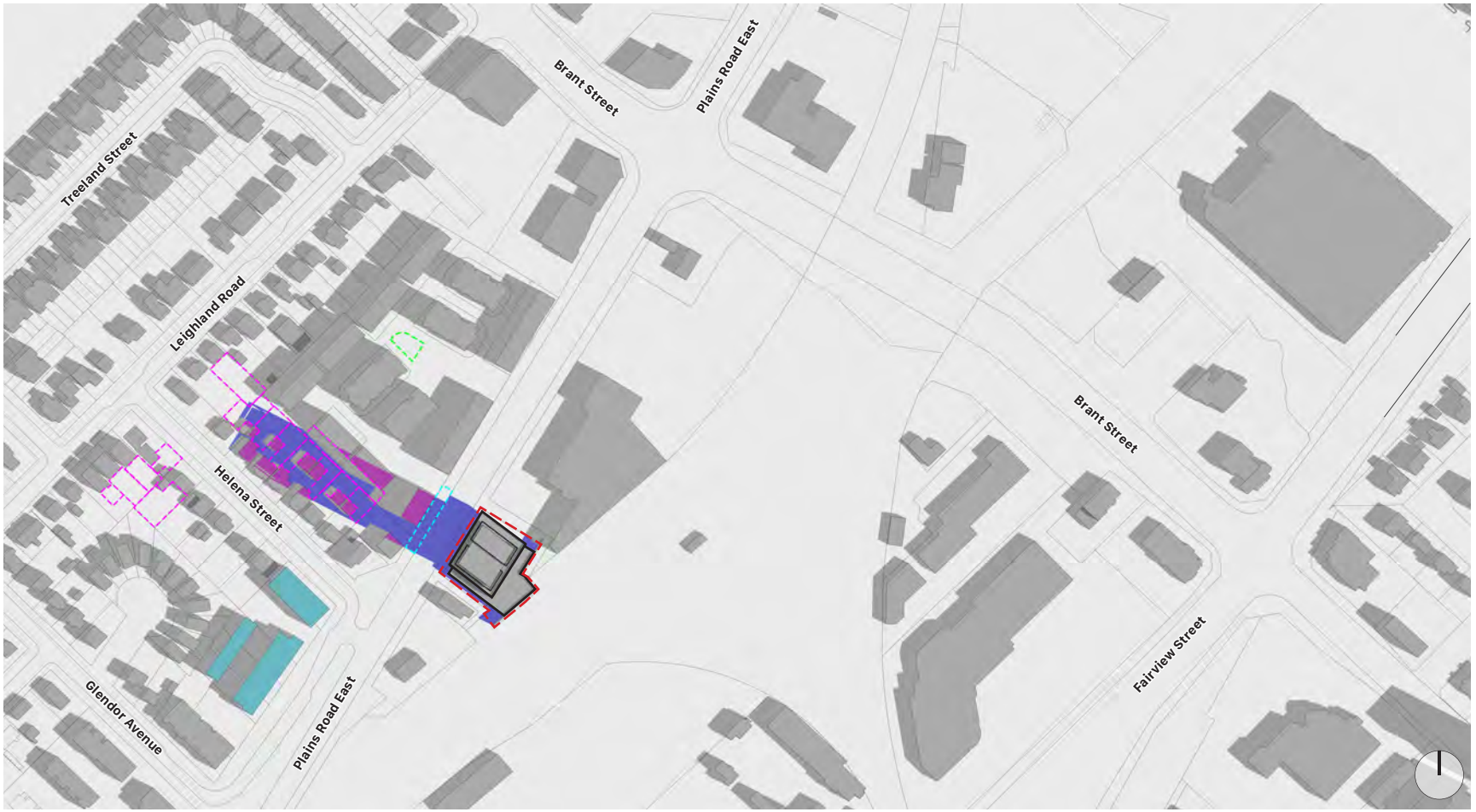
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 10:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 11:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 12:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 1:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 2:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 3:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 4:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 5:00pm



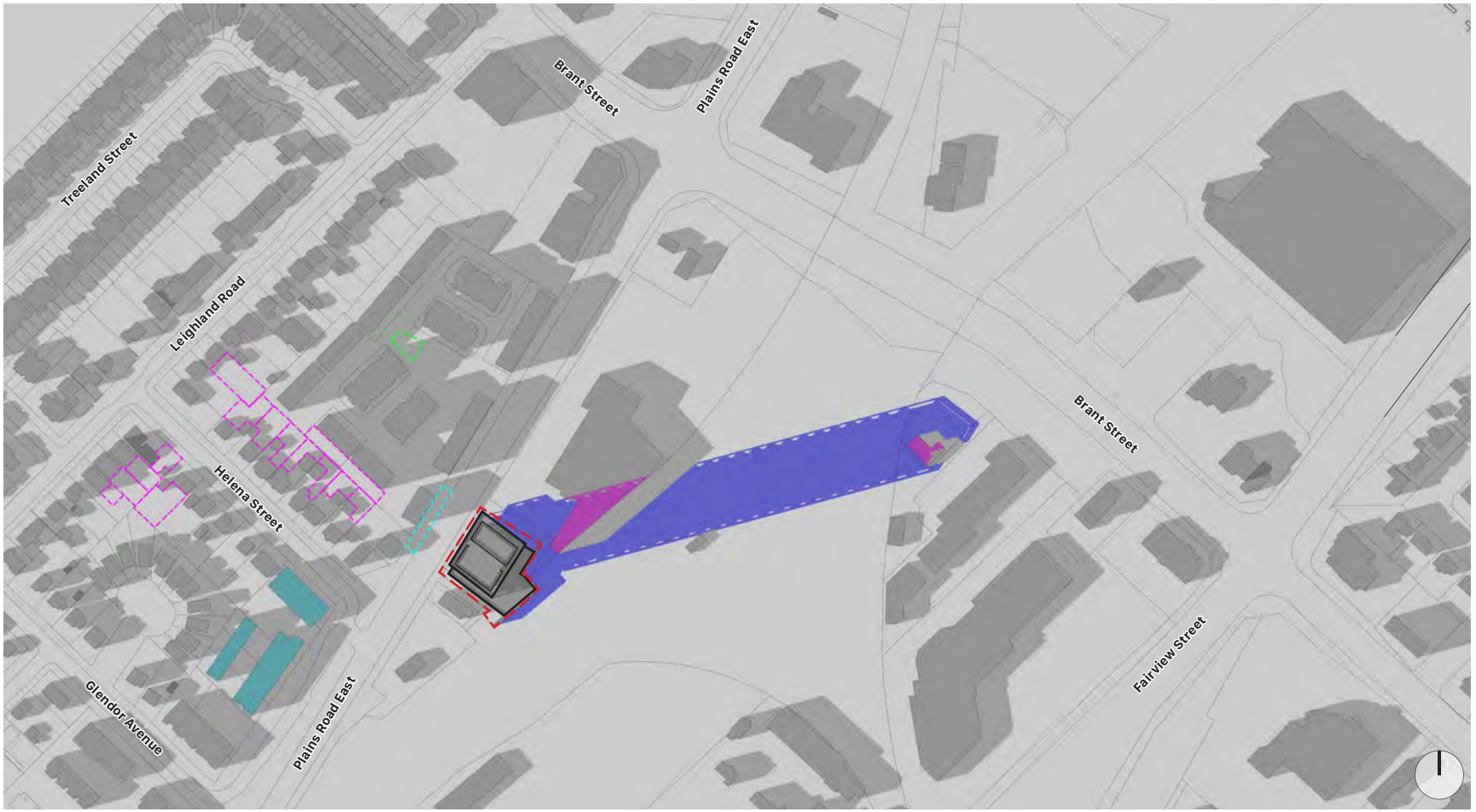
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

March 21st - 6:00pm



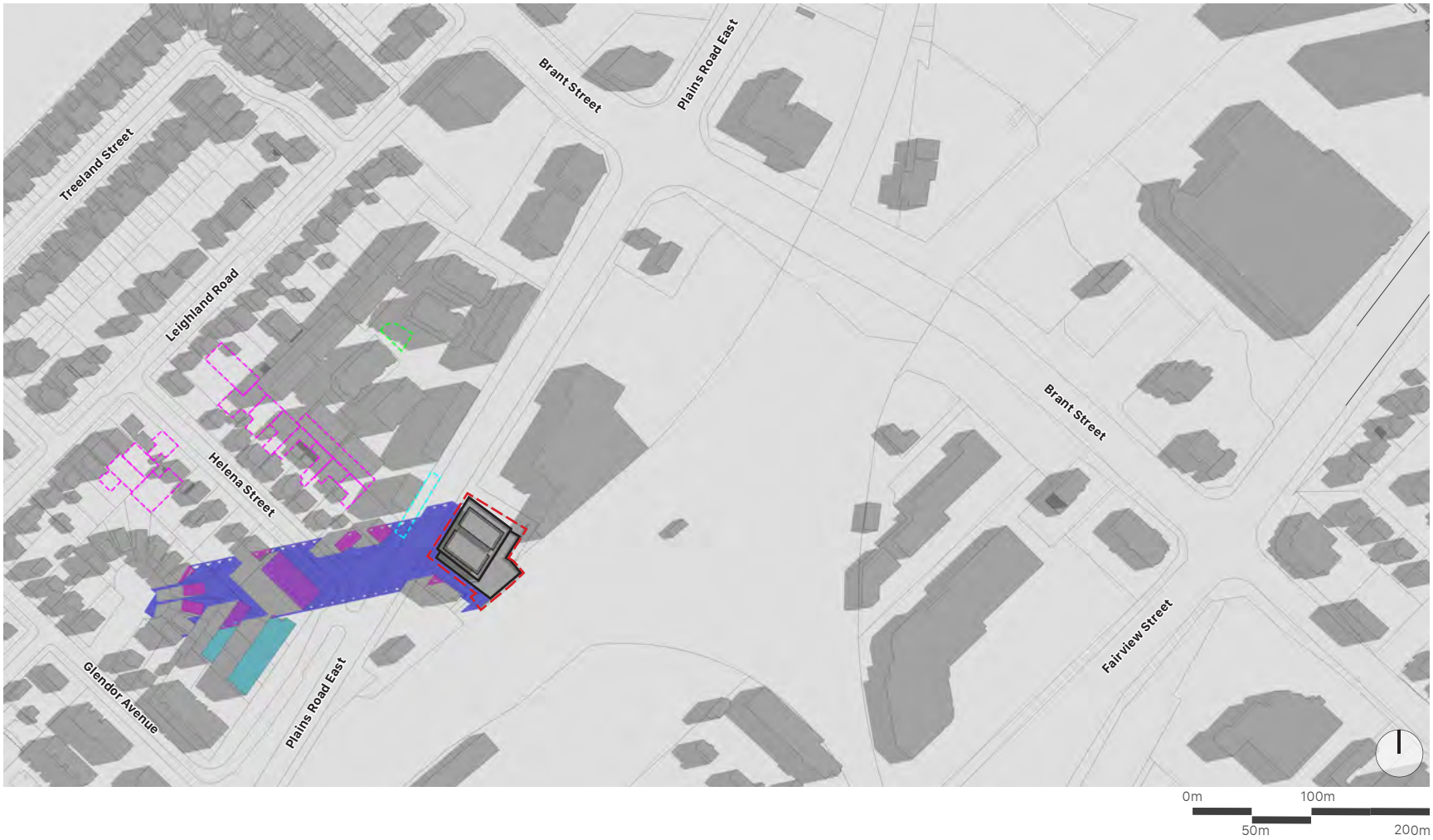
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 8:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 9:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 10:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 11:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 12:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 1:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 2:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 3:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 4:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 5:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 6:00pm



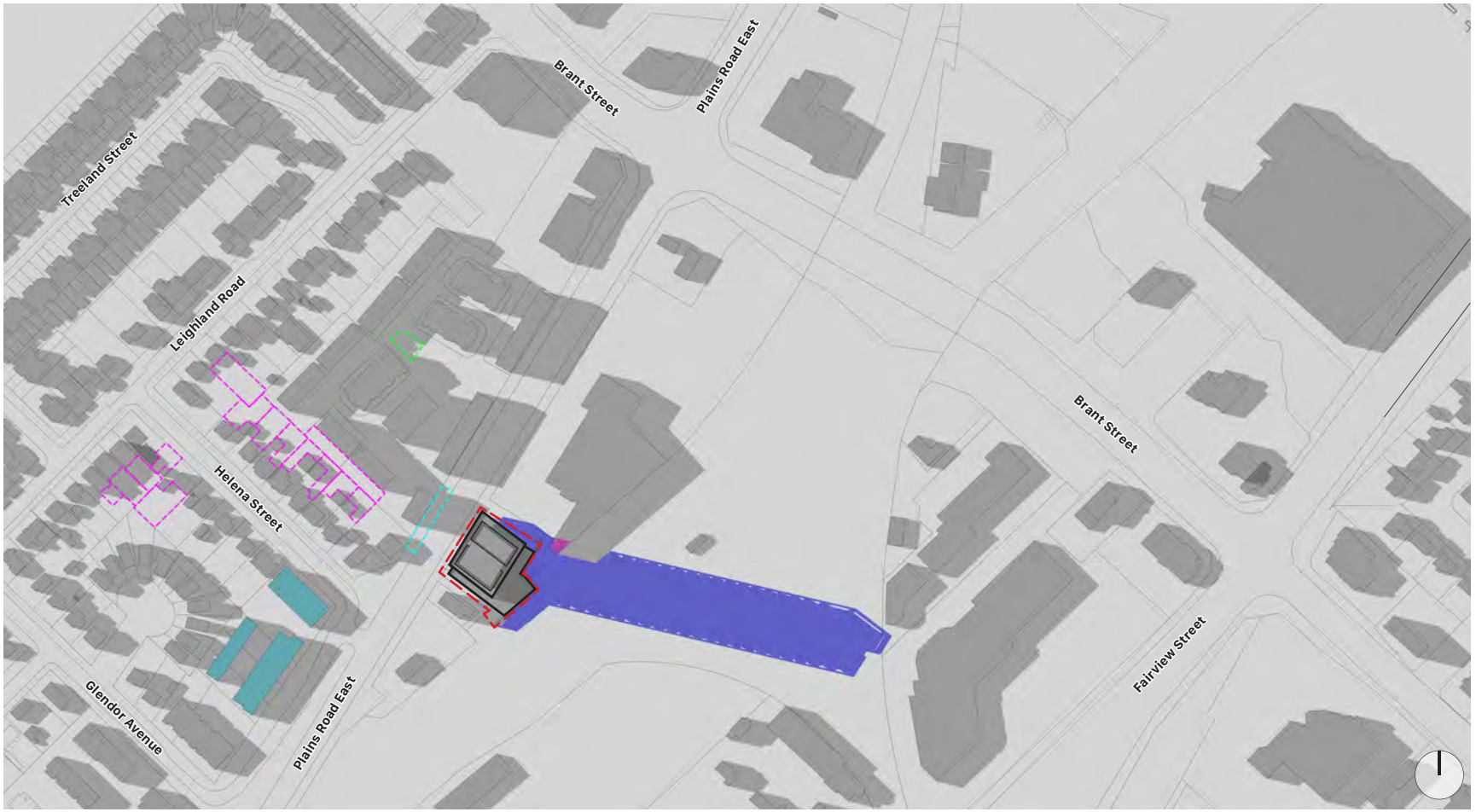
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

June 21st - 7:00pm



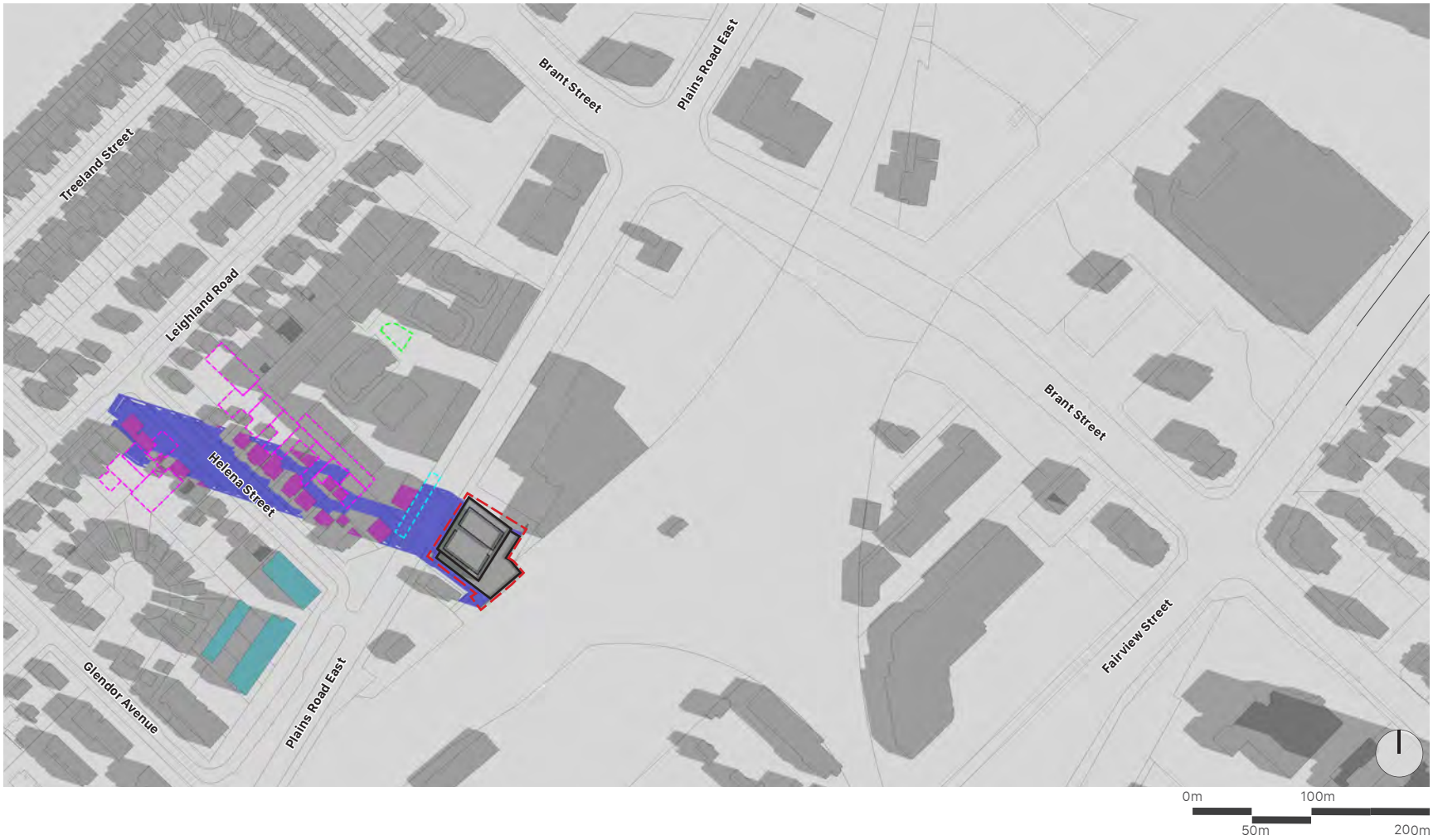
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 9:00am



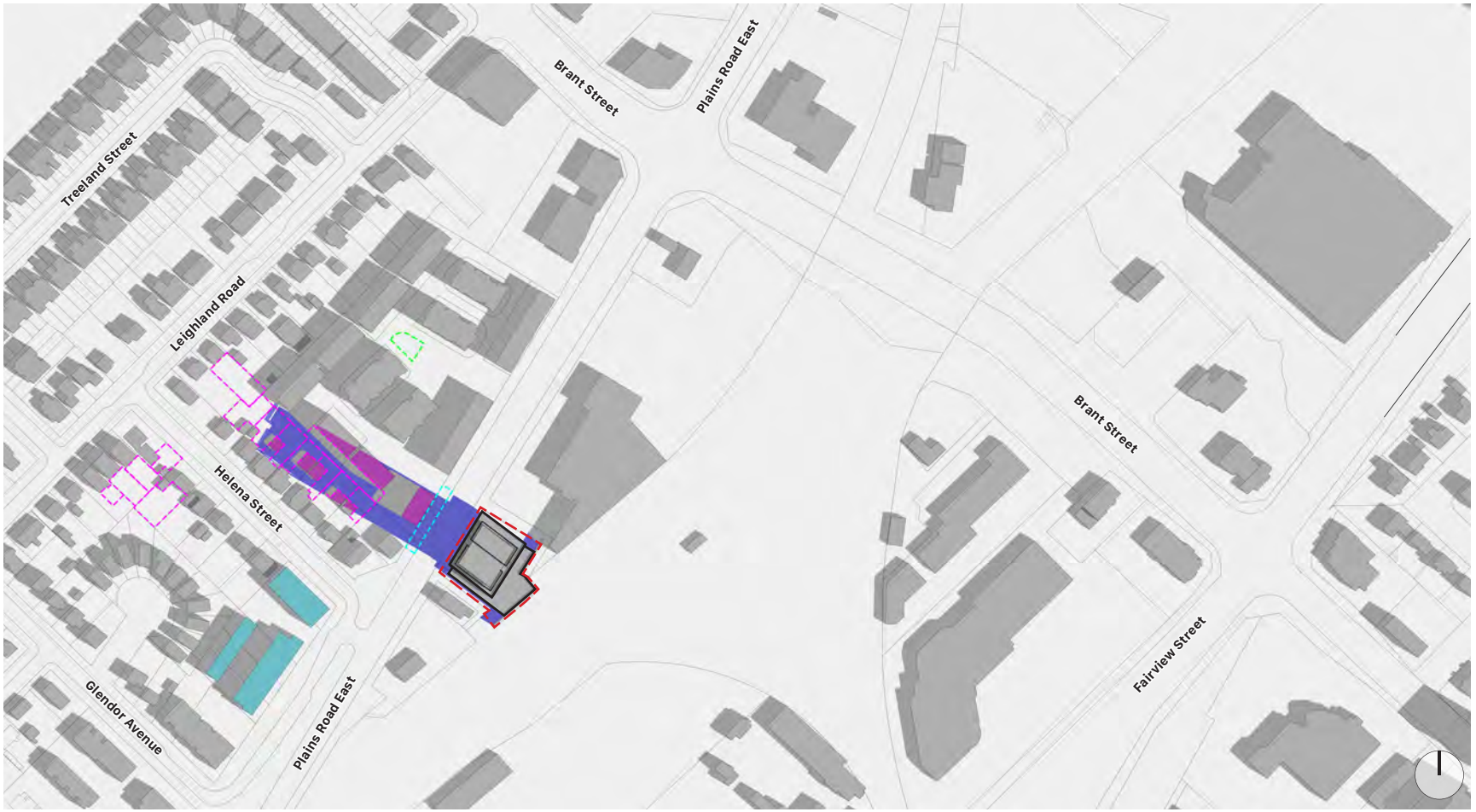
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 10:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 11:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 12:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 1:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 2:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 3:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 4:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 5:00pm



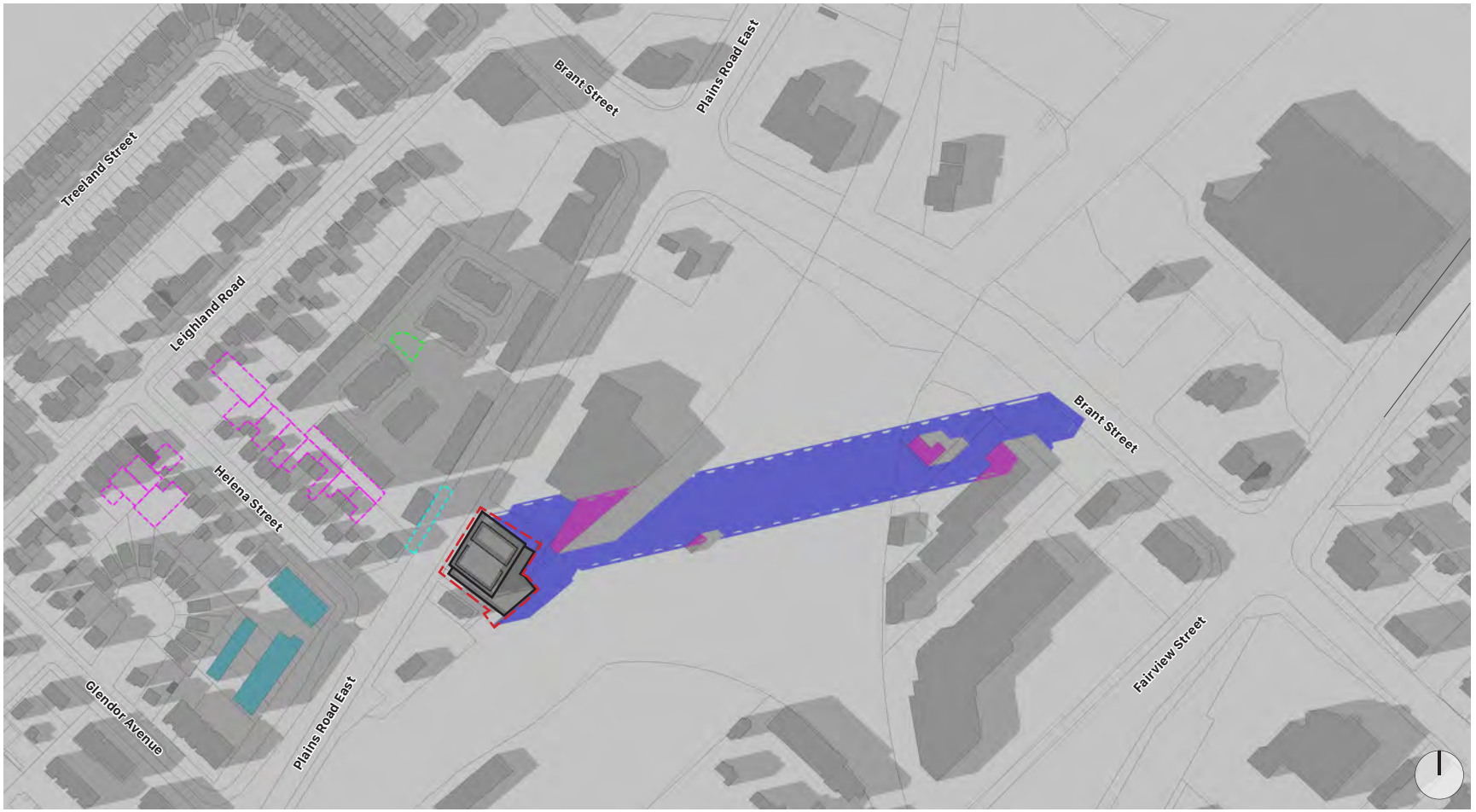
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

September 21st - 6:00pm



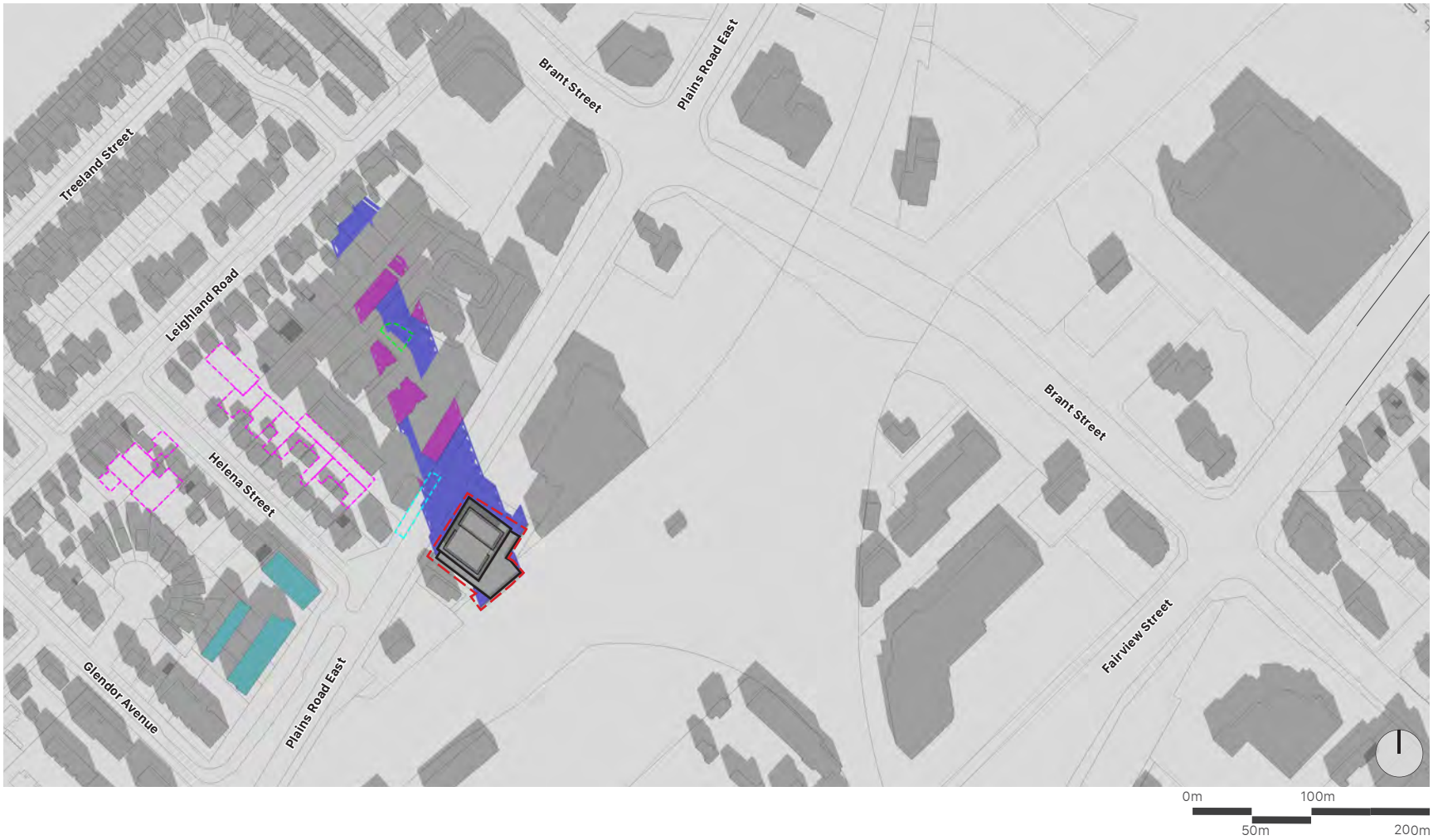
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

December 21st - 11:00am



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

December 21st - 12:00pm



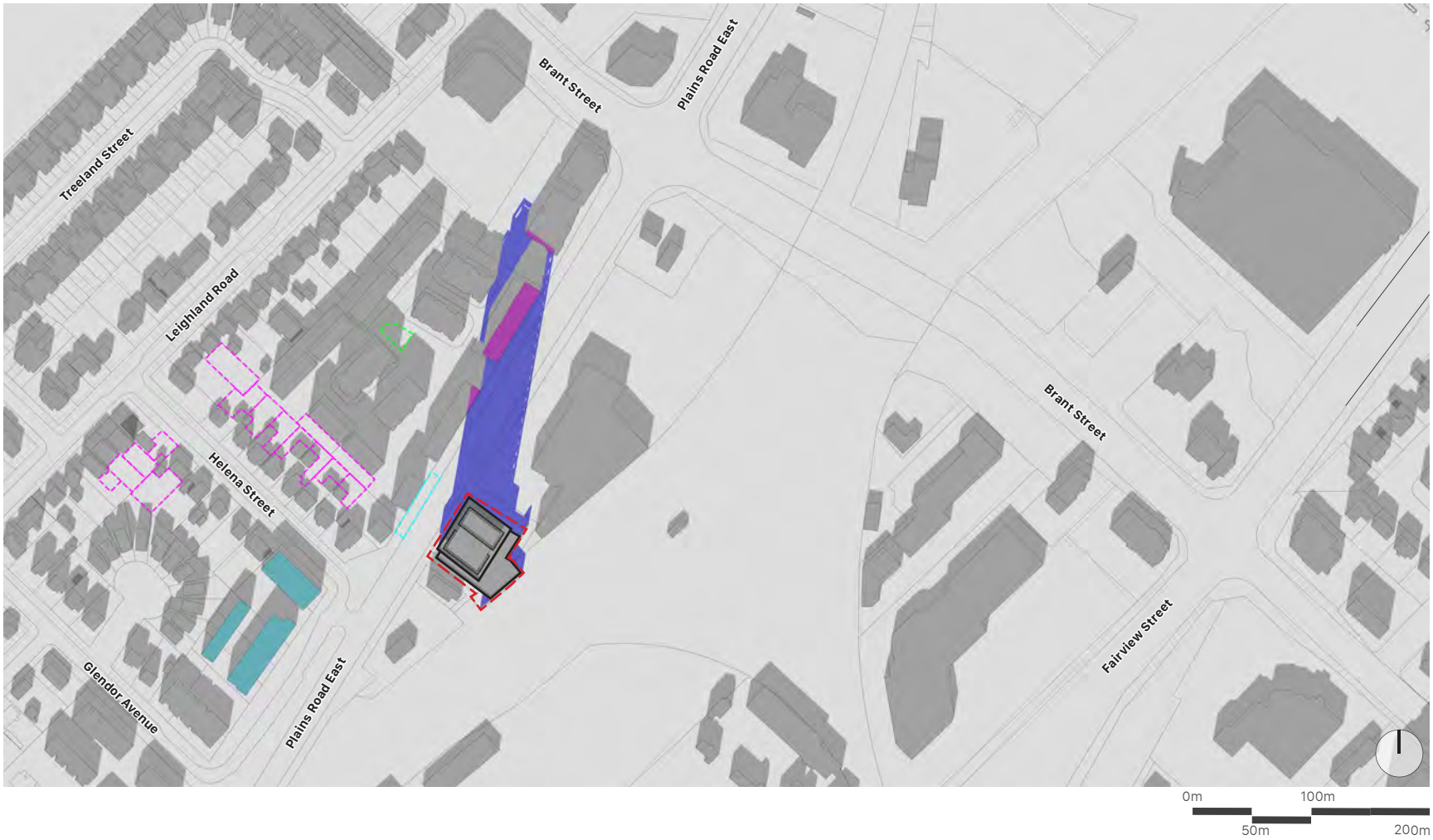
Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

December 21st - 1:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

December 21st - 2:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

December 21st - 3:00pm



Legend

- Subject Site
- Existing Building
- Approved Development
- Proposed Development
- Net New Shadows Cast on Roof Surfaces
- Net New Shadows Cast on Ground Surfaces
- Shadows Cast by Existing and Approved Buildings on All Surfaces

Identified Areas

- Private Outdoor Amenity Space
- Sidewalk - Opposite Boulevard
- Playground

Appendix A

Sun Access Factor Calculations

Private Outdoor Amenity Spaces

Area 1 - 1044 Helena Street
Total Outdoor Amenity Area (A_T) = ~507 sm

360 Pearl Street				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	283	0.56	744	372
March 21st 10:00am	461	0.91	958	479
March 21st 11:00am	497	0.98	1,001	501
March 21st 12:00pm	504	0.99	1,010	505
March 21st 1:00pm	506	1.00	1,013	507
March 21st 2:00pm	507	1.00	1,014	507
March 21st 3:00pm	507	1.00	1,004	502
March 21st 4:00pm	497	0.98	993	497
March 21st 5:00pm	496	0.98	980	490
March 21st 6:00pm	484	0.95	-	-
			Sum of ($A_{S(interval)}$)	**4,358.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**484.28**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.96**

Private Outdoor Amenity Spaces

Area 2 - 1358 Leighland Road
Total Outdoor Amenity Area (A_T) = ~201 sm

390 Pearl Street				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	0	0.00	167	84
March 21st 10:00am	167	0.83	349	175
March 21st 11:00am	182	0.91	366	183
March 21st 12:00pm	184	0.92	369	185
March 21st 1:00pm	185	0.92	371	186
March 21st 2:00pm	186	0.93	373	187
March 21st 3:00pm	187	0.93	374	187
March 21st 4:00pm	187	0.93	372	186
March 21st 5:00pm	185	0.92	371	186
March 21st 6:00pm	186	0.93	-	-
			Sum of ($A_{S(interval)}$)	**1,556.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**172.89**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.86**

Private Outdoor Amenity Spaces

Area 3 -1354 Leighland Road
Total Outdoor Amenity Area (A_T) = ~269 sm

2069-2079 Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	0	0.00	243	122
March 21st 10:00am	243	0.90	497	249
March 21st 11:00am	254	0.94	515	258
March 21st 12:00pm	261	0.97	526	263
March 21st 1:00pm	265	0.99	533	267
March 21st 2:00pm	268	1.00	537	269
March 21st 3:00pm	269	1.00	532	266
March 21st 4:00pm	263	0.98	492	246
March 21st 5:00pm	229	0.85	335	168
March 21st 6:00pm	106	0.39	-	-
			Sum of ($A_{S(interval)}$)	**2,105.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**223.89**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.87**

Private Outdoor Amenity Spaces

Area 4 - 1358 Leighland Road
Total Outdoor Amenity Area (A_T) = ~299 sm

374 Martha Street				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	65	0.22	364	182
March 21st 10:00am	299	1.00	598	299
March 21st 11:00am	299	1.00	598	299
March 21st 12:00pm	299	1.00	598	299
March 21st 1:00pm	299	1.00	595	298
March 21st 2:00pm	296	0.99	582	291
March 21st 3:00pm	286	0.96	548	274
March 21st 4:00pm	262	0.88	478	239
March 21st 5:00pm	216	0.72	375	188
March 21st 6:00pm	159	0.53	-	-
			Sum of ($A_{S(interval)}$)	**2,368.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**263.11**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.88**

Private Outdoor Amenity Spaces

Area 5 - 1348 Leighland Road
Total Outdoor Amenity Area (A_T) = ~111 sm

2076-2099 Bates Common, 389-406 Almas Common & 384-401 Deltor Common				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	105	0.95	216	108
March 21st 10:00am	111	1.00	222	111
March 21st 11:00am	111	1.00	222	111
March 21st 12:00pm	111	1.00	222	111
March 21st 1:00pm	111	1.00	222	111
March 21st 2:00pm	111	1.00	222	111
March 21st 3:00pm	111	1.00	219	110
March 21st 4:00pm	108	0.97	207	104
March 21st 5:00pm	99	0.89	185	93
March 21st 6:00pm	86	0.77	-	-
			Sum of ($A_{S(interval)}$)	**968.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**107.61**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.97**

Private Outdoor Amenity Spaces

Area 6 - 1019 Helena Street
Total Outdoor Amenity Area (A_T) = ~209 sm

2107-2119 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	0	0.00	0	0
March 21st 10:00am	0	0.00	209	105
March 21st 11:00am	209	1.00	413	207
March 21st 12:00pm	204	0.98	403	202
March 21st 1:00pm	199	0.95	392	196
March 21st 2:00pm	193	0.92	380	190
March 21st 3:00pm	187	0.89	366	183
March 21st 4:00pm	179	0.86	331	166
March 21st 5:00pm	152	0.73	241	121
March 21st 6:00pm	89	0.43	-	-
			Sum of ($A_{S(interval)}$)	**1,367.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**151.94**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.73**

Private Outdoor Amenity Spaces

Area 7 - 1023 Helena Street
Total Outdoor Amenity Area (A_T) = ~207 sm

2093-2101 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	26	0.13	26	13
March 21st 10:00am	0	0.00	181	91
March 21st 11:00am	181	0.87	360	180
March 21st 12:00pm	179	0.86	357	179
March 21st 1:00pm	178	0.86	359	180
March 21st 2:00pm	181	0.87	361	181
March 21st 3:00pm	180	0.87	358	179
March 21st 4:00pm	178	0.86	346	173
March 21st 5:00pm	168	0.33	317	159
March 21st 6:00pm	149	0.72	-	-
			Sum of ($A_{S(interval)}$)	**1,332.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**148.06**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.72**

Private Outdoor Amenity Spaces

Area 8 - 1027 Helena Street
Total Outdoor Amenity Area (A_T) = ~228 sm

2083 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	19	0.08	19	10
March 21st 10:00am	0	0.00	228	114
March 21st 11:00am	228	1.00	449	225
March 21st 12:00pm	221	0.97	431	216
March 21st 1:00pm	210	0.92	412	206
March 21st 2:00pm	202	0.89	389	195
March 21st 3:00pm	187	0.82	354	177
March 21st 4:00pm	167	0.73	285	143
March 21st 5:00pm	118	0.52	159	80
March 21st 6:00pm	41	0.18	-	-
			Sum of ($A_{S(interval)}$)	**1,363.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**151.44**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.66**

Private Outdoor Amenity Spaces

Area 9 - 1031 Helena Street
Total Outdoor Amenity Area (A_T) = ~222 sm

2072 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	17	0.08	17	9
March 21st 10:00am	0	0.00	187	94
March 21st 11:00am	187	0.84	367	184
March 21st 12:00pm	180	0.81	357	179
March 21st 1:00pm	177	0.80	349	175
March 21st 2:00pm	172	0.77	342	171
March 21st 3:00pm	170	0.77	334	167
March 21st 4:00pm	164	0.74	312	156
March 21st 5:00pm	148	0.67	271	136
March 21st 6:00pm	123	0.55	-	-
			Sum of ($A_{S(interval)}$)	**1,268.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**140.89**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.63**

Private Outdoor Amenity Spaces

Area 10 - 1033 Helena Street
Total Outdoor Amenity Area (A_T) = ~315 sm

2083 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	138	0.44	139	70
March 21st 10:00am	1	0.00	305	153
March 21st 11:00am	304	0.97	599	300
March 21st 12:00pm	295	0.94	580	290
March 21st 1:00pm	285	0.90	563	282
March 21st 2:00pm	278	0.88	545	273
March 21st 3:00pm	267	0.85	518	259
March 21st 4:00pm	251	0.80	469	235
March 21st 5:00pm	218	0.69	373	187
March 21st 6:00pm	155	0.49	-	-
			Sum of ($A_{S(interval)}$)	**2,045.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**227.28**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.72**

Private Outdoor Amenity Spaces

Area 11 - 1039 Helena Street
Total Outdoor Amenity Area (A_T) = ~352 sm

2072 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	129	0.37	179	90
March 21st 10:00am	50	0.14	380	190
March 21st 11:00am	330	0.94	658	329
March 21st 12:00pm	328	0.93	654	327
March 21st 1:00pm	326	0.93	647	324
March 21st 2:00pm	321	0.91	640	320
March 21st 3:00pm	319	0.91	629	315
March 21st 4:00pm	310	0.88	571	286
March 21st 5:00pm	261	0.74	457	229
March 21st 6:00pm	196	0.56	-	-
			Sum of ($A_{S(interval)}$)	**2,407.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**267.50**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.76**

Private Outdoor Amenity Spaces

Area 12 - 1045 Helena Street
Total Outdoor Amenity Area (A_T) = ~363 sm

2083 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	221	0.61	414	207
March 21st 10:00am	193	0.53	528	264
March 21st 11:00am	335	0.92	665	333
March 21st 12:00pm	330	0.91	660	330
March 21st 1:00pm	330	0.91	654	327
March 21st 2:00pm	324	0.89	644	322
March 21st 3:00pm	320	0.88	631	316
March 21st 4:00pm	311	0.86	599	300
March 21st 5:00pm	288	0.79	556	278
March 21st 6:00pm	268	0.74	-	-
			Sum of ($A_{S(interval)}$)	**2,675.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**297.28**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.82**

Private Outdoor Amenity Spaces

Area 13 - 1376 Leighland Road
Total Outdoor Amenity Area (A_T) = ~543sm

2072 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	124	0.23	558	279
March 21st 10:00am	434	0.80	977	489
March 21st 11:00am	543	1.00	1,086	543
March 21st 12:00pm	543	1.00	1,086	543
March 21st 1:00pm	543	1.00	1,086	543
March 21st 2:00pm	543	1.00	1,086	543
March 21st 3:00pm	543	1.00	1,083	542
March 21st 4:00pm	540	0.99	1,064	532
March 21st 5:00pm	524	0.97	998	499
March 21st 6:00pm	474	0.87	-	-
			Sum of ($A_{S(interval)}$)	**4,512.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**501.33**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.92**

Private Outdoor Amenity Spaces

Area 14 - 1401 Plains Road East
Total Outdoor Amenity Area (A_T) = ~554 sm

2083 Old Lakeshore Road				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	0	0.00	0	0
March 21st 10:00am	0	0.00	272	136
March 21st 11:00am	272	0.49	826	413
March 21st 12:00pm	554	1.00	1,108	554
March 21st 1:00pm	554	1.00	1,108	554
March 21st 2:00pm	554	1.00	1,108	554
March 21st 3:00pm	554	1.00	1,108	554
March 21st 4:00pm	554	1.00	1,108	554
March 21st 5:00pm	554	1.00	1,090	545
March 21st 6:00pm	536	0.97	-	-
			Sum of ($A_{S(interval)}$)	**3,864.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**429.33**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.77**

Places Where Children Play - Playground

1401 Plains Road East
Total Area (A_T) = ~208 sm

2093-2101 Old Lakeshore Road, Approved POPS				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	201	0.97	409	205
March 21st 10:00am	208	1.00	416	208
March 21st 11:00am	208	1.00	416	208
March 21st 12:00pm	208	1.00	408	204
March 21st 1:00pm	200	0.96	341	171
March 21st 2:00pm	141	0.68	205	103
March 21st 3:00pm	64	0.31	101	51
March 21st 4:00pm	37	0.18	104	52
March 21st 5:00pm	67	0.32	88	44
March 21st 6:00pm	21	0.10	-	-
			Sum of ($A_{S(interval)}$)	**1,244.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**138.22**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.66**

Places Where Children Play - Playground

1401 Plains Road East
Total Area (A_T) = ~208 sm

2093-2101 Old Lakeshore Road, Approved POPS				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
September 21st 9:00am	208	1.00	416	208
September 21st 10:00am	208	1.00	416	208
September 21st 11:00am	208	1.00	416	208
September 21st 12:00pm	208	1.00	395	198
September 21st 1:00pm	187	0.90	310	155
September 21st 2:00pm	123	0.59	175	88
September 21st 3:00pm	52	0.25	93	47
September 21st 4:00pm	41	0.20	114	57
September 21st 5:00pm	73	0.35	73	37
September 21st 6:00pm	0	0.00	-	-
			Sum of ($A_{S(interval)}$)	**1,204.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**133.78**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.64**

Places Where Children Play - Playground

1401 Plains Road East
Total Area (A_T) = ~208 sm

2093-2101 Old Lakeshore Road, Approved POPS				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1+test2)}$)	Interval Average ($A_{S(interval)}$)
December 21st 11:00am	0	0.00	70	35
December 21st 12:00pm	70	0.34	128	64
December 21st 1:00pm	58	0.28	77	39
December 21st 2:00pm	19	0.09	19	10
December 21st 3:00pm	0	0.00	-	-
			Sum of ($A_{S(interval)}$)	**147.00**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**36.75**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.18**

Public Realm and Sidewalks

Opposite Boulevards
Total Boulevards Area (A_T) = ~336 sm

Opposite Boulevards				
Test Time	Areas in Sunshine ($A_{S(test)}$)	Sun Access Factor Per Hour ($A_{S(test)}$) / (A_T)	Sunshine Per Interval ($A_{S(test1 +test2)}$)	Interval Average ($A_{S(interval)}$)
March 21st 9:00am	0	0.00	61	31
March 21st 10:00am	61	0.18	145	73
March 21st 11:00am	84	0.25	245	123
March 21st 12:00pm	161	0.48	448	224
March 21st 1:00pm	287	0.85	623	312
March 21st 2:00pm	336	1.00	672	336
March 21st 3:00pm	336	1.00	561	281
March 21st 4:00pm	225	0.67	324	162
March 21st 5:00pm	99	0.29	106	53
March 21st 6:00pm	7	0.02	-	-
			Sum of ($A_{S(interval)}$)	**1,592.50**
			Average Area in Sunshine ($A_{S(average)}$)=[sum of ($A_{S(interval)}$)] / [# of intervals]	**176.94**
			Sun Access Factor ($A_{S(average)}$) / A_T	**0.53**



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