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**Memorandum**

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**To:** City of Mississauga **Date:** 2022-07-20  
**From:** Caterina Cuda (Turner Fleischer Architects Inc.) **Project Name:** 325 Burnhamthorpe Road W  
**Subject:** Shadow Study Response **Proj. No.:** 20.107

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Turner Fleischer Architects Inc. have prepared a shadow study for the Proposed Development located at 325 Burnhamthorpe Road West in the City of Mississauga.

The attached drawings follow the City of Mississauga comments for a sun/shadow study to illustrate the development’s impact on the surrounding context – including neighbouring buildings, the public realm, and public and private open space – at various times of day, throughout the year. The studies have been prepared in accordance with the City’s Urban Design Terms of Reference – Standards for Shadow Studies.

**Test Times**

Sun/Shadow tests have been prepared for June 21, September 21 and December 21 at the following times:

- Solar Noon (SN)
- Hourly intervals before and after Solar Noon (SN), up to and including 1.5 hours after sunrise and 1.5 hours before sunset. (Sunset and Sunrise times are marked by an asterisk \* below)

	June 21	September 21	December 21
	5:37 a.m.		
	7:07 a.m.*		
	7:20 a.m.	7:04 a.m.	
	8:20 a.m.	8:35 a.m.*	7:49 a.m.
	9:20 a.m.	9:12 a.m.	9:19 a.m.*
	10:20 a.m.	10:12 a.m.	10:17 a.m.
	11:20 a.m.	11:12 a.m.	11:17 a.m.
	12:20 p.m.	12:12 p.m.	12:17 p.m.
Solar Noon (SN)	1:20 p.m.	1:12 p.m.	1:17 p.m.
	2:20 p.m.	2:12 p.m.	2:17 p.m.
	3:20 p.m.	3:12 p.m.	3:15 p.m.*
	4:20 p.m.	4:12 p.m.	4:45 p.m.
	5:20 p.m.	5:12 p.m.	
	6:20 p.m.	5:48 p.m.*	
	7:20 p.m.	7:18 p.m.	
	7:33 p.m.*		
	9:03 p.m.		

**Principals** / Peter Turner M.C.P [U.D.], OAA, AANB, AAPEI, NSAA, AAA, ARCHITECT AIBC, FRAIC, OPPI / Russell Fleischer OAA, MAA, AANB, NSAA, AAPEI, ARCHITECT AIBC, AAA, SAA, NWTAA, MRAIC / John Chow OAA, AAPEI, MAA, NLAA, ARCHITECT AIBC, AAA, SAA, NWTAA, AANB, MRAIC / Jeremy Pope OAA, NSAA, ARCHITECT AIBC, AAA, SAA, AANB, MRAIC, AIA / Ellen Bensky CEO, CFO / Steve Nonis OAA, AANB, AAPEI, AAA, MRAIC / **Design Director** / Michele Gucciardi M.Arch., OAA / **Senior Associates** / Gino Di Vizio LIC. TECH. OAA / Brent Mauti CTO, OAA, AAA, MRAIC, NCARB, AIA / **Associates** / Geoffrey Holt LIC. TECH. OAA / Raza Mehdi OAA, MRAIC / Anita Yu OAA, MRAIC / Nick Bowker DIP. ARCH. TECH., OAAAS

**Residential Private Outdoor Amenity Areas**

The submitted drawings (SPA811 - SPA822) show that on June 21 and September 21, the new shadows generated from the proposed development on the private residential amenity spaces west and east of the site do not exceed one hour in duration, and do not result in less than 2 hours of direct sunlight.

**Communal Outdoor Amenity Areas**

The attached drawings show that on June 21, September 21 and December 21, the new shadows generated from the proposed development on Communal Outdoor Amenity Areas allows for full sun for over 50% of the time.

**Public Realm**

The attached drawings show that on September 21, the new shadows generated from the proposed development on the Public Realm, including Mississauga Celebration Square North and Mississauga Celebration Square South, and Community Common Park (P-471) allows for full sun for over 50% of the time.

In conclusion, based on the City's Standards for Shadow Studies, the new shadows generated by the proposed development minimally impact the surrounding context; the development allows for adequate sunlight on the neighbouring Residential Private Outdoor Amenity Areas, Communal Outdoor Amenity Areas and the Public Realm.