

SHADOW STUDY
22072 - 1995 DUNDAS MISSISSAUGA
TORONTO, ONTARIO

DATE 9 DECEMBER 2024



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Sun/Shadow Study

Introduction

Sun angles used in this study are based on the latitude and longitude of the proposed development at 1995 Dundas Street East in Mississauga, Ontario as follows:

Latitude: 43.622296064260645
Longitude: -79.57098858946509

The base plan was derived from the City of Mississauga Open Data Catalogue. The drawing was imported into Revit and developed into a 3D mapping model showing the context and the proposed buildings.

The key plan shown on Page 2 of the submitted Shadow Study by Raw Design Architects shows the areas surrounding the proposed development that were included in the study as set out in the “Standards for Shadow Studies” of the City of Mississauga dated June 2014.

Key Plan



- PROPERTY LINE
- COMMUNAL OUTDOOR AMENITY AREA: MARKLAND WOOD GOLF CLUB
- PARK: ETOBICOKE CREEK

Shadow Analysis

Page 6 to 17 of the study shows the existing shadows of the surrounding context and the incremental shadows of the proposed development.

- Pages 6 to 10 show the shadows on 21 June at the following times: 05:37, 07:07, 07:20, 08:20, 09:20, 10:20, 11:20, 12:20, 13:20: 14:20, 15:20, 16:20, 17:20, 18:20, 19:20:19:33, and 21:03.
- Pages 11 to 14 to show the shadows on 21 September at the following times: 07:05, 08:35, 09:12, 10:12, 11:12, 12:12, 13:12, 14:12, 15:12, 16:12, 17:12, 17:48, and 19:18.
- Pages 15 to 17 show the shadow on 21 December at the following times: 07:49, 09:19, 10:17, 11:17, 12:17, 13:17, 14:17, 15:15, and 16:45.

Areas Analyzed and Reviewed for Shadow Impact Criteria
3.2 Communal Outdoor Amenity Areas

Markland Wood Golf Club

With respect to shadow impacts on the Markland Wood Golf Club to the north with their golf courses located on both sides of Etobicoke Creek:

June 21st

There is no shadow impact on the Markland Wood Golf Club. Sun Access Factor is 100% from the development site, therefore the criterion of having a Sun Access Factor of at least 50% is met.

September 21st

There is no shadow impact on the Markland Wood Golf Club. Sun Access Factor is 100% from the development site, therefore the criterion of having a Sun Access Factor of at least 50% is met.

December 21st

There is minimal shadow impact on the golf course at 9:19am. Sun Access Factor is 98.8% from the development site, therefore the criterion of having a Sun Access Factor of at least 50% is met.

Park/Open Space (Markland Wood Golf Club) - June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	43,456.63	0	43456.63
	7:20	43,456.63	0	43456.63
	8:20	43,456.63	0	43456.63
	9:20	43,456.63	0	43456.63
	10:20	43,456.63	0	43456.63
	11:20	43,456.63	0	43456.63
	12:20	43,456.63	0	43456.63
	13:20	43,456.63	0	43456.63
	14:20	43,456.63	0	43456.63
	15:20	43,456.63	0	43456.63
	16:20	43,456.63	0	43456.63
	17:20	43,456.63	0	43456.63
	18:20	43,456.63	0	43456.63
	19:20	43,456.63	0	43456.63
	19:33	43,456.63	0	43456.63
			0	651849.45 SQM
		At		43456.63
		As(ave)		43456.63
Sun Access Factor = As(ave) / At				100.0%

Park/Open Space (Markland Wood Golf Club) - September				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	43,456.63	0	43456.63
	9:12	43,456.63	0	43456.63
	10:12	43,456.63	0	43456.63
	11:12	43,456.63	0	43456.63
	12:12	43,456.63	0	43456.63
	13:12	43,456.63	0	43456.63
	14:12	43,456.63	0	43456.63
	15:12	43,456.63	0	43456.63
	16:12	43,456.63	0	43456.63
	17:12	43,456.63	0	43456.63
	17:48	43,456.63	0	43456.63
			0	478022.93 SQM
		At		43456.63
		As(ave)		43456.63
Sun Access Factor = As(ave) / At				100.0%

Park/Open Space (Markland Wood Golf Club) - December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	43,456.63	3514.91	39941.72
	10:17	43,456.63	0	43456.63
	11:17	43,456.63	0	43456.63
	12:17	43,456.63	0	43456.63
	13:17	43,456.63	0	43456.63
	14:17	43,456.63	0	43456.63
	15:15	43,456.63	0	43456.63
			3514.91	300681.5 SQM
		At		43,456.63
		As(ave)		42954.5
Sun Access Factor = As(ave) / At				98.8%



3.2 Communal Outdoor Amenity Areas (CONT.)

Proposed Linear POPS

With respect to shadow impacts on the proposed linear POPS located on the southern portion of the Subject Site:

June 21st

The proposed development begins to shadow the proposed linear POPS predominately in the evening. Sun Access Factor is 70.1 % from the development site, therefore the criterion of having the Sun Access Factor of at least 50% is met.

September 21st

The proposed development begins to shadow the proposed linear POPS predominately in the evening. Sun Access Factor is 82.0 % from the development site, therefore the criterion of having the Sun Access Factor of at least 50% is met.

December 21st

The proposed development begins to shadow the proposed linear POPS predominately in the evening. Sun Access Factor is 98.9 % from the development site, therefore the criterion of having the Sun Access Factor of at least 50% is met.

Proposed POPS - June					
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)	
June 21	7:07	1662.51	0	1662.51	
	7:20	1662.51	0	1662.51	
	8:20	1662.51	0	1662.51	
	9:20	1662.51	0	1662.51	
	10:20	1662.51	0	1662.51	
	11:20	1662.51	0	1662.51	
	12:20	1662.51	0	1662.51	
	13:20	1662.51	0	1662.51	
	14:20	1662.51	0	1662.51	
	15:20	1662.51	654.31	1008.2	
	16:20	1662.51	1156.49	506.02	
	17:20	1662.51	1327.75	334.76	
	18:20	1662.51	1412.67	249.84	
	19:20	1662.51	1464.28	198.23	
	19:33	1662.51	1447.08	215.43	
		7462.58	17475.07	SQM	
		At		1662.51	
		As(ave)		1165.004667	
		Sun Access Factor = As(ave) / At			70.1%

Proposed POPS - September					
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)	
September 21	8:35	1662.51	0	1662.51	
	9:12	1662.51	0	1662.51	
	10:12	1662.51	0	1662.51	
	11:12	1662.51	0	1662.51	
	12:12	1662.51	0	1662.51	
	13:12	1662.51	0	1662.51	
	14:12	1662.51	0	1662.51	
	15:12	1662.51	24.57	1637.94	
	16:12	1662.51	759.89	902.62	
	17:12	1662.51	1043.6	618.91	
	17:48	1662.51	1129.47	533.04	
		2957.53	15330.08	SQM	
		At		1662.51	
		As(ave)		1393.643636	
		Sun Access Factor = As(ave) / At			83.8%

Proposed POPS - December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	1662.51	0	1662.51
	10:17	1662.51	0	1662.51
	11:17	1662.51	0	1662.51
	12:17	1662.51	0	1662.51
	13:17	1662.51	0	1662.51
	14:17	1662.51	0	1662.51
	15:15	1662.51	124.08	1538.43
		124.08	11513.49	SQM
			At	1662.51
			As(ave)	1644.78429
			Sun Access Factor = As(ave) / At	
			98.9%	



3.2 Communal Outdoor Amenity Areas (CONT.)

Proposed Private Outdoor Amenity Areas

With respect to shadow impacts on the proposed outdoor amenity areas located on Level 1, Levels 5, 13, and 17:

Level 1 (Ground Floor)

The proposed outdoor amenity area at Level 1 was analyzed to confirm a 50% sun access factor as part of the communal outdoor amenity areas. This area failed to meet the criteria on September 21st, and December 21st, as the sun access factors were less than 50%. Shadows cast by the proposed development resulted in a sun access factor of 69.1% on June 21st, 24.8% on September 21st, and 1.1% on December 21st. However, in our opinion the condition is considered to be acceptable as it will have a limited impact on the utility of this space. When programming the outdoor amenity space at the detailed design stage, shadow implications will be considered.

Ground Floor Outdoor Amenity - June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	339	0	339
	7:20	339	7.5	331.5
	8:20	339	37.22	301.78
	9:20	339	108.95	230.05
	10:20	339	127.36	173.09
	11:20	339	165.91	214
	12:20	339	125	214
	13:20	339	241.29	97.71
	14:20	339	339	0
	15:20	339	245.73	93.27
	16:20	339	124.54	214.46
	17:20	339	34.84	304.16
	18:20	339	11.69	327.31
	19:20	339	4.39	334.61
	19:33	339	2.37	336.63
		1575.79		3511.57 SQM
		At	339	
		As(ave)	234.1046667	
		Sun Access Factor = As(ave) / At		69.1%

Ground Floor Outdoor Amenity - September				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	339	165.62	173.38
	9:12	339	221.5	117.5
	10:12	339	266.9	72.1
	11:12	339	339	0
	12:12	339	339	0
	13:12	339	339	0
	14:12	339	339	0
	15:12	339	289.41	49.59
	16:12	339	244.59	94.41
	17:12	339	156.31	182.69
	17:48	339	103.31	235.69
		2803.64		925.36 SQM
		At	339	
		As(ave)	84.12363636	
		Sun Access Factor = As(ave) / At		24.8%

Ground Floor Outdoor Amenity - December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	339	339	0
	10:17	339	339	0
	11:17	339	339	0
	12:17	339	339	0
	13:17	339	339	0
	14:17	339	339	0
	15:15	339	312.71	26.29
		2346.71		26.29 SQM
		At	339	
		As(ave)	3.755714286	
		Sun Access Factor = As(ave) / At		1.1%

5th Floor Terrace (North) - June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	742	168.76	573.24
	7:20	742	190.22	551.78
	8:20	742	197.29	544.71
	9:20	742	311.24	430.76
	10:20	742	464.43	277.57
	11:20	742	642.43	99.57
	12:20	742	515.88	226.12
	13:20	742	289.40	452.6
	14:20	742	143.17	598.83
	15:20	742	461.93	280.07
	16:20	742	742	0
	17:20	742	742	0
	18:20	742	684.34	57.66
	19:20	742	536.59	205.41
	19:33	742	494.53	247.47
		6584.21		4545.79 SQM
		At	742	
		As(ave)	303.0526667	
		Sun Access Factor = As(ave) / At		40.8%

5th Floor Terrace (North) - September				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	742	497.67	244.33
	9:12	742	559.36	182.64
	10:12	742	670.04	71.96
	11:12	742	676.69	65.31
	12:12	742	504.70	237.3
	13:12	742	322.99	419.01
	14:12	742	454.11	287.89
	15:12	742	727.26	14.74
	16:12	742	742	0
	17:12	742	742	0
	17:48	742	742	0
		6638.82		1523.18 SQM
		At	742	
		As(ave)	138.4709091	
		Sun Access Factor = As(ave) / At		18.7%

5th Floor Terrace (North) - December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	742	742	0
	10:17	742	742	0
	11:17	742	612.47	129.53
	12:17	742	448.22	293.78
	13:17	742	564.81	177.19
	14:17	742	668.17	73.83
	15:15	742	742	0
		4519.67		674.33 SQM
		At	742	
		As(ave)	96.33285714	
		Sun Access Factor = As(ave) / At		13.0%

Level 3

The proposed outdoor amenity area at Level 3 was analyzed to confirm a 50% sun access factor as part of the communal outdoor amenity areas. This area failed to meet the criteria on June 21st, September 21st, and December 21st, as the sun access factors were less than 50%. Shadows cast by the proposed development resulted in a sun access factor of 17.7% on June 21st, 13.1% on September 21st, and 3.3% on December 21st. However, in our opinion the condition is considered to be acceptable as it will have a limited impact on the utility of this space. When programming the outdoor amenity space at the detailed design stage, shadow implications will be considered.

3rd Floor Terrace - June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	1478	1478	0
	7:20	1478	1478	0
	8:20	1478	1478	0
	9:20	1478	1478	0
	10:20	1478	1478	0
	11:20	1478	691.82	786.18
	12:20	1478	345.87	1132.13
	13:20	1478	701.43	776.57
	14:20	1478	793.74	684.26
	15:20	1478	1075.93	402.07
	16:20	1478	1342.13	135.87
	17:20	1478	1461.58	16.42
	18:20	1478	1478	0
	19:20	1478	1478	0
	19:33	1478	1478	0
		18236.5		3933.5 SQM
		At	1478	
		As(ave)	262.2333333	
		Sun Access Factor = As(ave) / At		17.7%

3rd Floor Terrace - September				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	1478	1478	0
	9:12	1478	1478	0
	10:12	1478	1478	0
	11:12	1478	1215.88	262.12
	12:12	1478	1186.29	291.71
	13:12	1478	1139.87	338.13
	14:12	1478	1053.12	424.88
	15:12	1478	993.51	484.49
	16:12	1478	1213.48	264.52
	17:12	1478	1406.19	71.81
	17:48	1478	1478	0
		14120.34		2137.66 SQM
		At	1478	
		As(ave)	194.3327273	
		Sun Access Factor = As(ave) / At		13.1%

3rd Floor Terrace - December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	1478	1478	0
	10:17	1478	1478	0
	11:17	1478	1478	0
	12:17	1478	1388.88	89.12
	13:17	1478	1308.41	169.59
	14:17	1478	1393.86	84.14
	15:15	1478	1478	0
		10003.15		342.85 SQM
		At	1478	
		As(ave)	48.97857143	
		Sun Access Factor = As(ave) / At		3.3%

5th Floor Terrace (South) - June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	612	612	0
	7:20	612	611.00	1
	8:20	612	605.55	6.45
	9:20	612	571.62	40.38
	10:20	612	438.69	173.31
	11:20	612	279.24	332.76
	12:20	612	135.33	476.67
	13:20	612	61.25	550.75
	14:20	612	0	612
	15:20	612	24.48	587.52
	16:20	612	48.44	563.56
	17:20	612	60.91	551.09
	18:20	612	95.97	516.03
	19:20	612	133.91	478.09
	19:33	612	149.95	462.05
		3828.34		5351.66 SQM
		At	612	
		As(ave)	356.7773333	
		Sun Access Factor = As(ave) / At		58.3%

5th Floor Terrace (South) - September				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	612	595.35	16.65
	9:12	612	588.63	23.37
	10:12	612	549.86	62.14
	11:12	612	346.07	265.93
	12:12	612	201.72	410.28
	13:12	612	86.45	525.55
	14:12	612	34.38	577.62
	15:12	612	0	612
	16:12	612	23.65	588.35
	17:12	612	36.69	575.31
	17:48	612	46.56	565.44
		2509.36		4222.64 SQM
		At	612	
		As(ave)	383.8763636	
		Sun Access Factor = As(ave) / At		62.7%

5th Floor Terrace (South) - December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	612	351.84	260.16
	10:17	612	261.08	350.92
	11:17	612	145.44	466.56
	12:17	612	86.28	525.72
	13:17	612	99.18	512.82
	14:17	612	72.56	539.44
	15:15	612	108.18	503.82
		1124.56		3159.44 SQM
		At	612	
		As(ave)	451.3485714	
		Sun Access Factor = As(ave) / At		73.7%



3.2 Communal Outdoor Amenity Areas (CONT.)

Level 13

The proposed outdoor amenity area at Level 13 was analyzed to confirm a 50% sun access factor as part of the communal outdoor amenity areas. This area was found to meet the criteria on June 21st, September 21st, and December 21st. Shadows cast by the proposed development resulted in a sun access factor of 81.4% on June 21st, 86.7% on September 21st, and 74.3% on December 21st.

13th Floor Terrace- June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	918	218.68	699.32
	7:20	918	212.34	705.66
	8:20	918	92.31	825.69
	9:20	918	84.07	833.93
	10:20	918	7.52	910.48
	11:20	918	2.98	915.02
	12:20	918	4.57	913.43
	13:20	918	1.54	916.46
	14:20	918	3.29	914.71
	15:20	918	22.57	895.43
	16:20	918	46.39	871.61
	17:20	918	129.79	788.21
	18:20	918	195.58	722.42
	19:20	918	739.95	178.05
	19:33	918	799.82	118.18
		2561.4	11208.6 SQM	
		At	918	
		As(ave)	747.24	
		Sun Access Factor = As(ave) / At		
		81.4%		

13th Floor Terrace- September				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	918	342.53	575.47
	9:12	918	209.39	708.61
	10:12	918	92.85	825.15
	11:12	918	86.84	831.16
	12:12	918	53.29	864.71
	13:12	918	17.82	900.18
	14:12	918	21.26	896.74
	15:12	918	36.85	881.15
	16:12	918	64.06	853.94
	17:12	918	138.47	779.53
	17:48	918	275.71	642.29
			1339.07	8758.93 SQM
			At	918
			As(ave)	796.2663636
			Sun Access Factor = As(ave) / At	
		86.7%		

13th Floor Terrace- December				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
December 21	9:19	918	475.45	442.55
	10:17	918	307.78	610.22
	11:17	918	259.8	658.2
	12:17	918	179.26	738.74
	13:17	918	94.13	823.87
	14:17	918	128.95	789.05
	15:15	918	207.99	710.01
			1653.36	4772.64 SQM
			At	918
			As(ave)	681.8057143
			Sun Access Factor = As(ave) / At	
		74.3%		

3.3 Public Realm

Universal Drive Opposite Boulevard

The opposite boulevard on Universal Drive was analyzed to confirm adequate sunlight on sidewalks and boulevards in mixed-use, commercial, employment, and high-density streets as part of the public realm. Although the opposite boulevard had full sunlight on four consecutive hourly test time on 21 September, between 9:12 am to 12:12 pm, this area failed to meet the shadow impact criteria as the opposite boulevard did not have full sunlight between 12:12 pm and 2:12 pm.

Dundas Street East Opposite Boulevard

The opposite boulevard on Dundas Street East was analyzed to confirm adequate sunlight on sidewalks and boulevards in mixed-use, commercial, employment, and high-density streets as part of the public realm. The opposite boulevard was found to meet the criteria on 21 September as there no incremental shades from the proposed development from 8:35 am to 4:12 pm.

Universal Drive Opposite Boulevard				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	9:12	3196.82	0	3196.82
	10:12	3196.82	0	3196.82
	11:12	3196.82	0	3196.82
	12:12	3196.82	528.95	2667.87
	13:12	3196.82	1378.45	1818.37
	14:12	3196.82	1757.87	1438.95
Dundas Street East Opposite Boulevard				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
September 21	8:35	1051.8	0	1051.8
	9:12	1051.8	0	1051.8
	10:12	1051.8	0	1051.8
	11:12	1051.8	0	1051.8
	12:12	1051.8	0	1051.8
	13:12	1051.8	0	1051.8
	14:12	1051.8	0	1051.8
	15:12	1051.8	0	1051.8
	16:12	1051.8	0	1051.8

Level 17

The proposed outdoor amenity area at Level 17 was analyzed to confirm a 50% sun access factor as part of the communal outdoor amenity areas. This area was found to meet the criteria on June 21st, September 21st, and December 21st. Shadows cast by the proposed development resulted in a sun access factor of 70.9% on June 21st, 86.0% on September 21st, and 61.9% on December 21st.

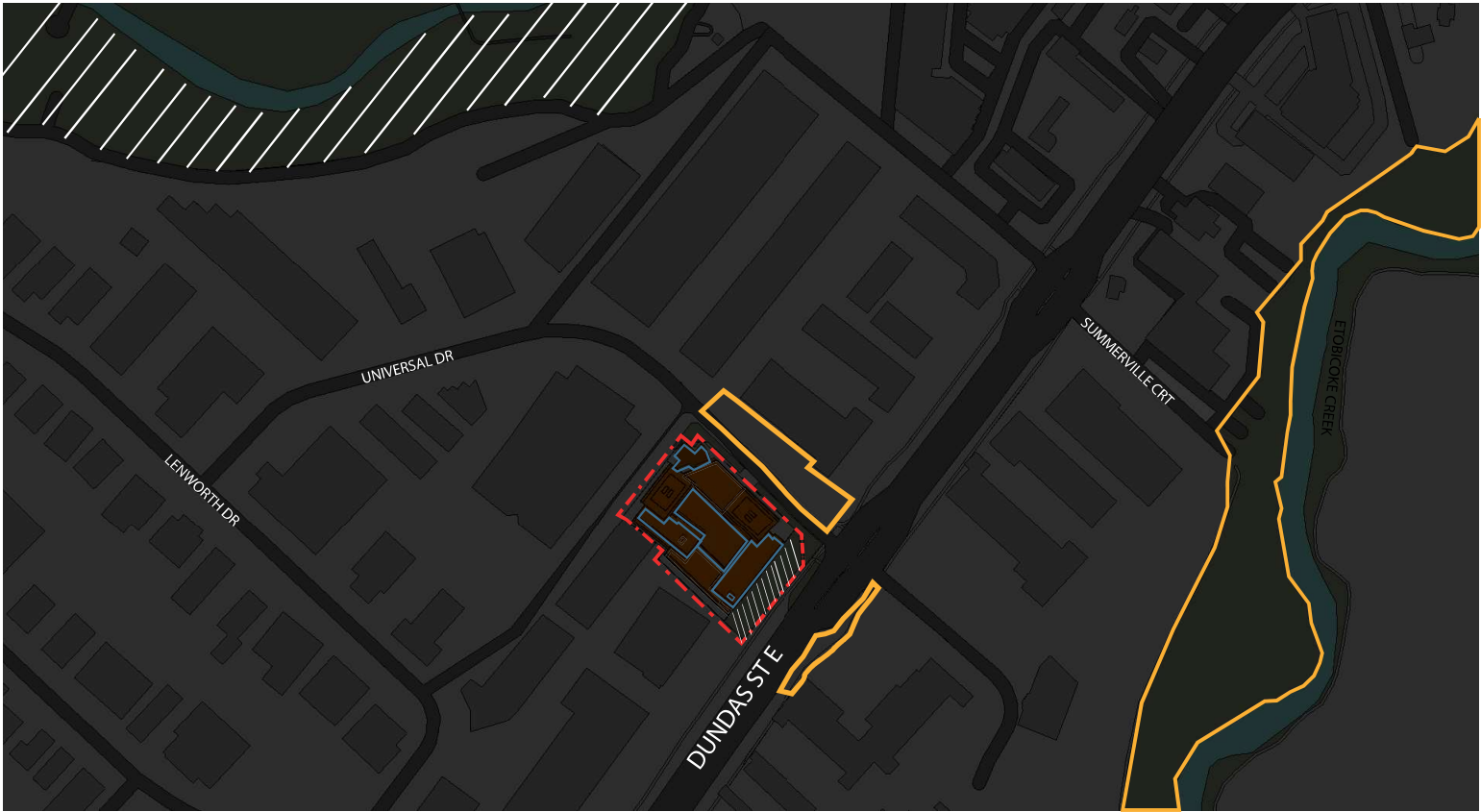
17th Floor Terrace- June				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	594	594	0
	7:20	594	594	0
	8:20	594	585.2	8.8
	9:20	594	122.77	471.23
	10:20	594	83.25	510.75
	11:20	594	19.87	574.13
	12:20	594	5.11	588.89
	13:20	594	0.73	593.27
	14:20	594	1.62	592.38
	15:20	594	13.05	580.95
	16:20	594	21.83	572.17
	17:20	594	71.12	522.88
	18:20	594	121.25	472.75
	19:20	594	149.28	444.72
	19:33	594	206.2	387.8
		2589.28	6320.72 SQM	
	At		594	
	As(ave)	421.3813333		
Sun Access Factor = As(ave) / At				
		70.9%		

17th Floor Terrace - September					
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)	
September 21	8:35	594	260.72	333.28	
	9:12	594	124.91	469.09	
	10:12	594	53.22	540.78	
	11:12	594	40.05	553.95	
	12:12	594	22.12	571.88	
	13:12	594	22.48	571.52	
	14:12	594	44.74	549.26	
	15:12	594	85.69	508.31	
	16:12	594	36.01	557.99	
	17:12	594	81.63	512.37	
	17:48	594	143.13	450.87	
			914.7	5619.3 SQM	
		At		594	
		As(ave)	510.8454545		
	Sun Access Factor = As(ave) / At				
		86.0%			

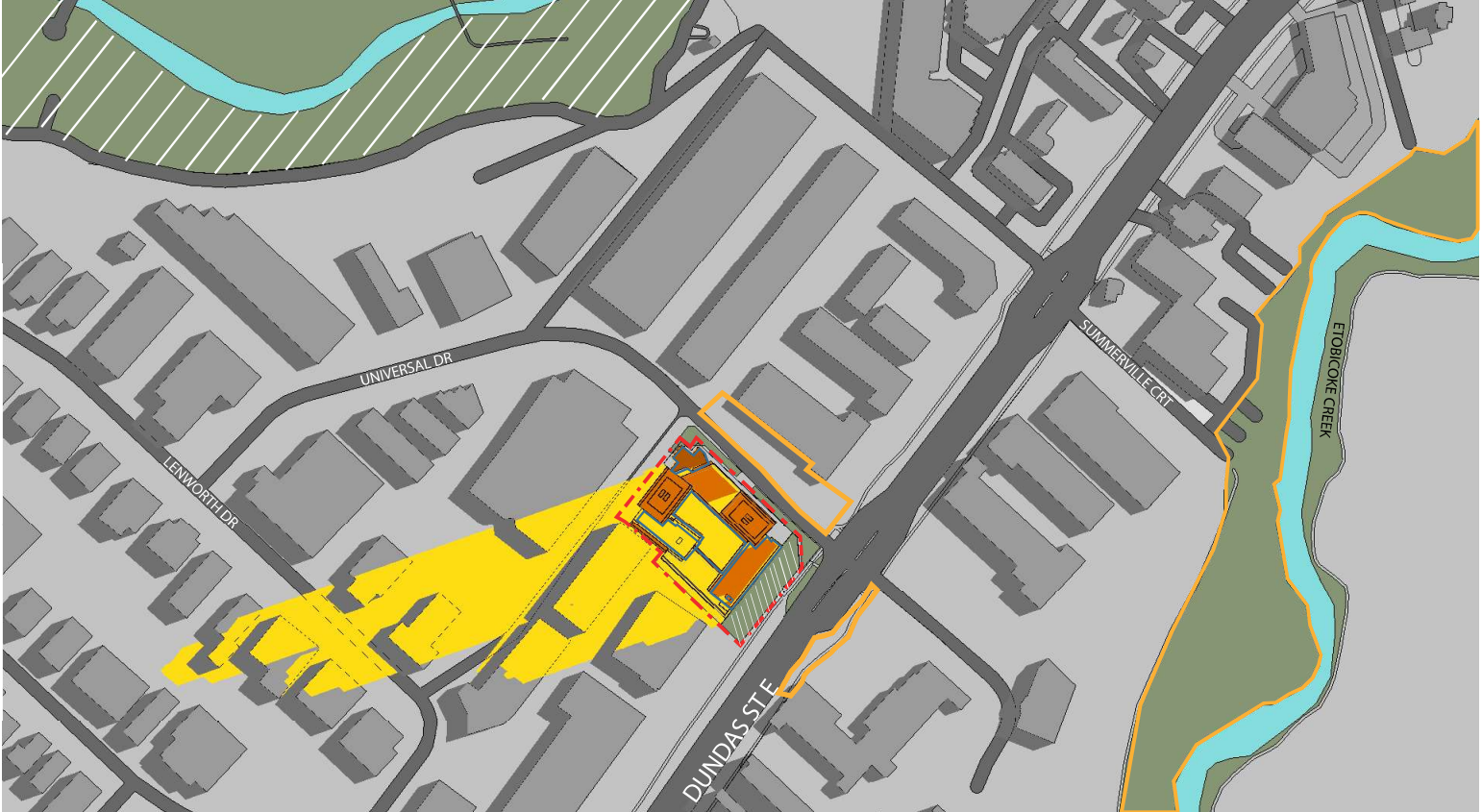
17th Floor Terrace - December					
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)	
December 21	9:19	594	240.45	353.55	
	10:17	594	181.04	412.96	
	11:17	594	179.43	414.57	
	12:17	594	169.76	424.24	
	13:17	594	210.05	383.95	
	14:17	594	257.63	336.37	
	15:15	594	347.69	246.31	
			1586.05	2571.95 SQM	
		At		594	
		As(ave)	367.4214286		
	Sun Access Factor = As(ave) / At				
		61.9%			

Etobicoke Creek				
Date	Time	Total Area (At)	Shadow Area	Sun Area (As)
June 21	7:07	27956.3	0	27956.3
	7:20	27956.3	0	27956.3
	8:20	27956.3	0	27956.3
	9:20	27956.3	0	27956.3
	10:20	27956.3	0	27956.3
	11:20	27956.3	0	27956.3
	12:20	27956.3	0	27956.3
	13:20	27956.3	0	27956.3
	14:20	27956.3	0	27956.3
	15:20	27956.3	0	27956.3
	16:20	27956.3	0	27956.3
	17:20	27956.3	0	27956.3
	18:20	27956.3	0	27956.3
	19:20	27956.3	20.27	27936.03
	19:33	27956.3	1528.76	26427.54
			1549.03	417795.47 SQM
		At		27956.3
		As(ave)		27853.03133
		Sun Access Factor = As(ave) / At		

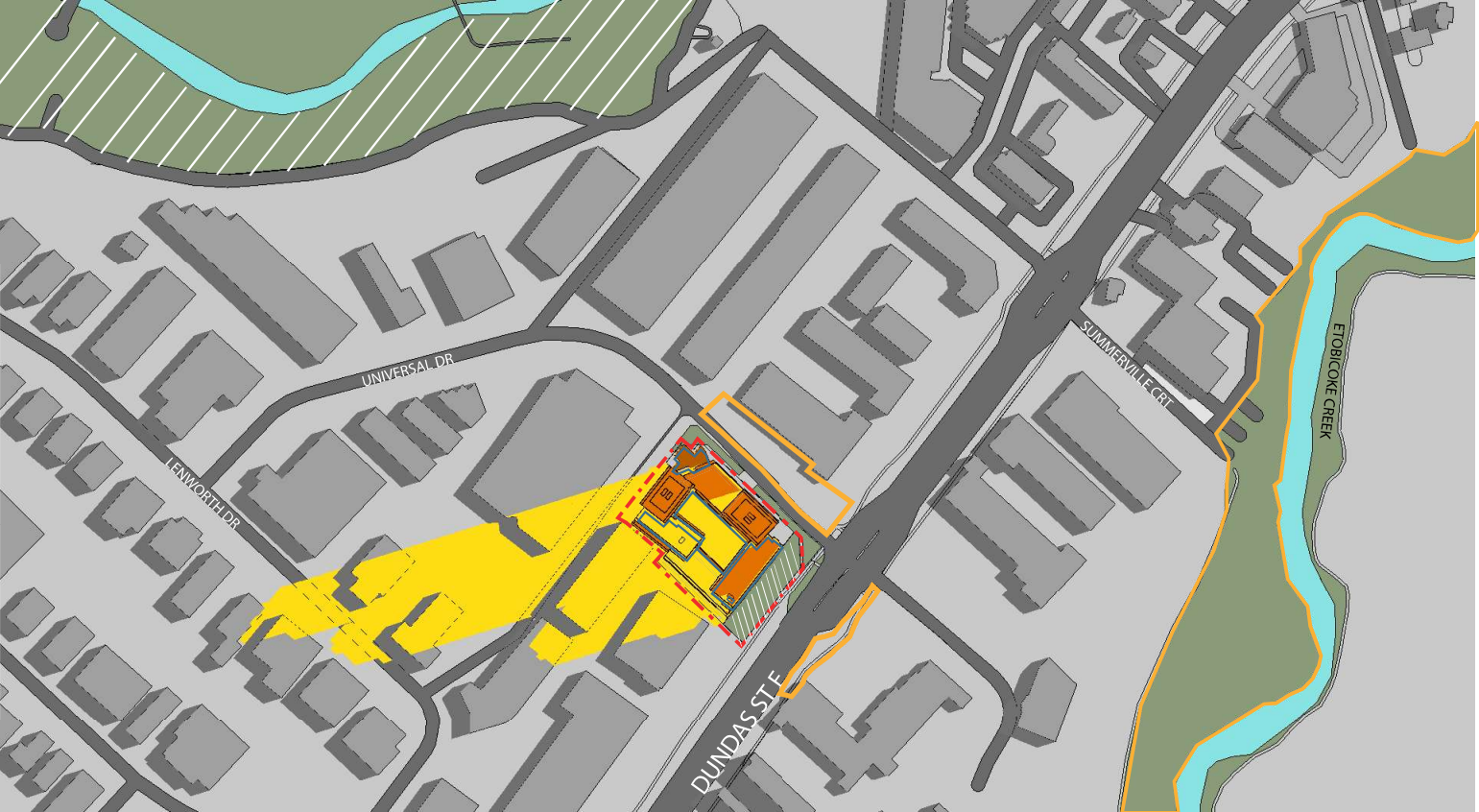




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07:07

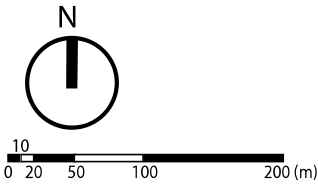


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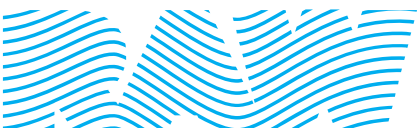
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- EXISTING BUILDING
- SHADOW OF EXISTING BUILDING
- PROPERTY LINE
- PROPOSED NEW BUILDING
- SHADOW OF PROPOSED NEW BUILDING
- RIVER/WATERBODY
- PARKS/OPEN SPACE
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- 3.2 POPS/ COMMUNAL OUTDOOR SPACE
- 3.3 PUBLIC REALM



JUNE 21
UTC - 4 HOURS

22072 1995 DUNDAS MISSISSAUGA
SHADOW STUDY
9 DECEMBER, 2024





09:20



10:20

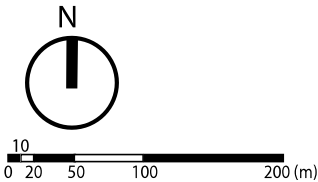


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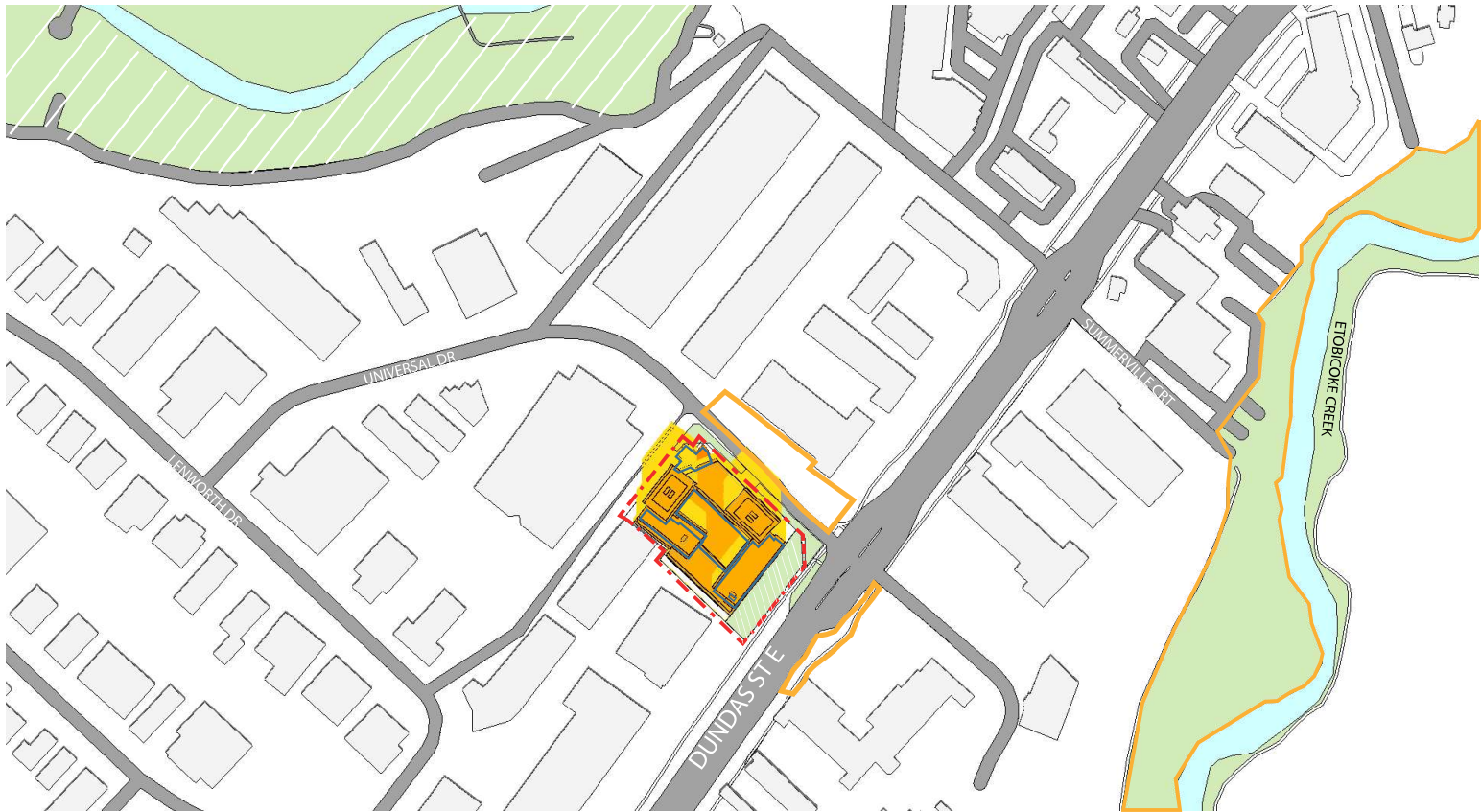
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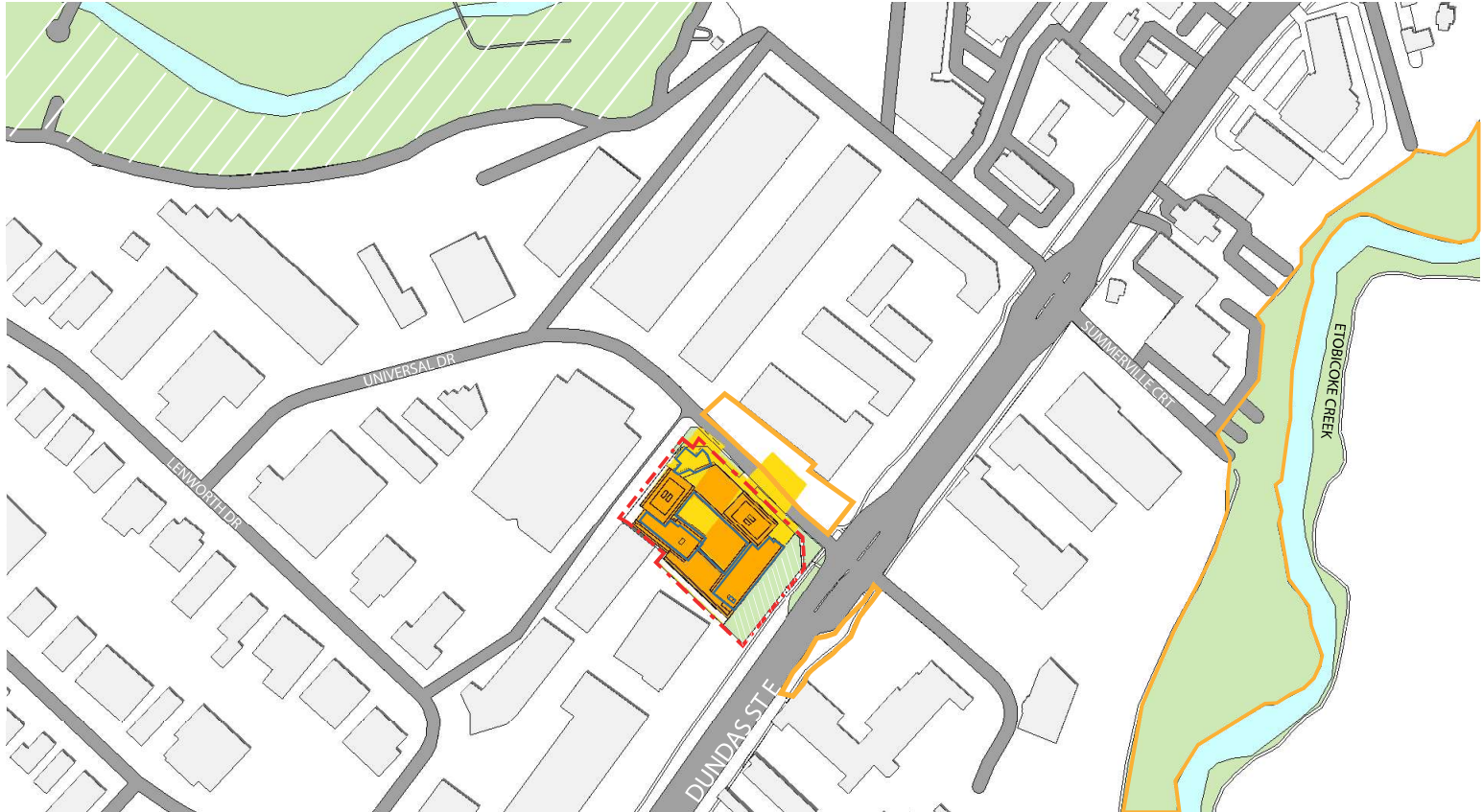
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9 DECEMBER, 2024

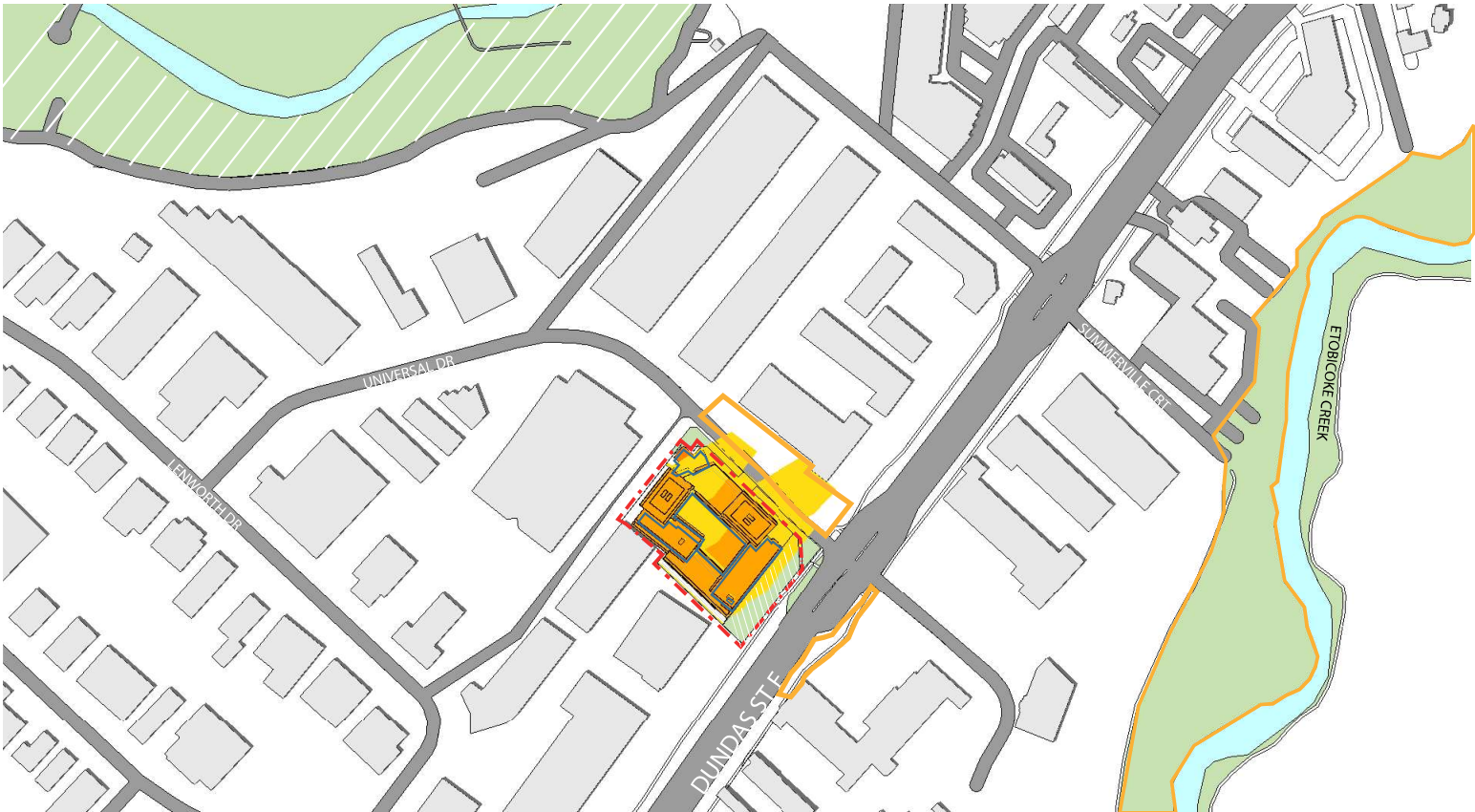




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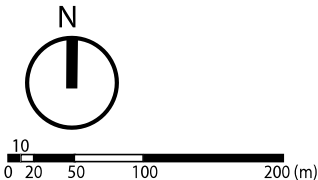


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16:20

- EXISTING BUILDING
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JUNE 21
UTC - 4 HOURS

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9 DECEMBER, 2024

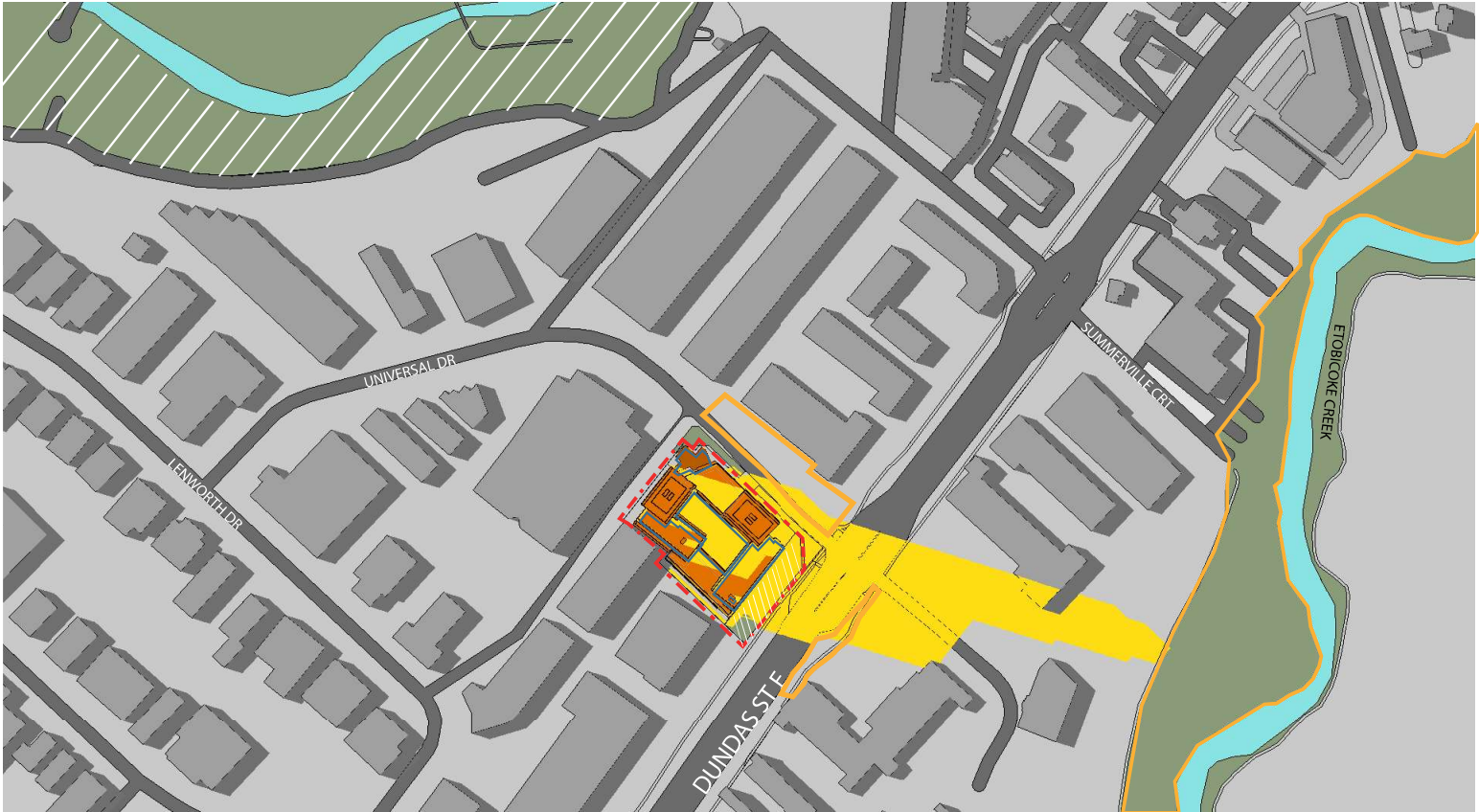




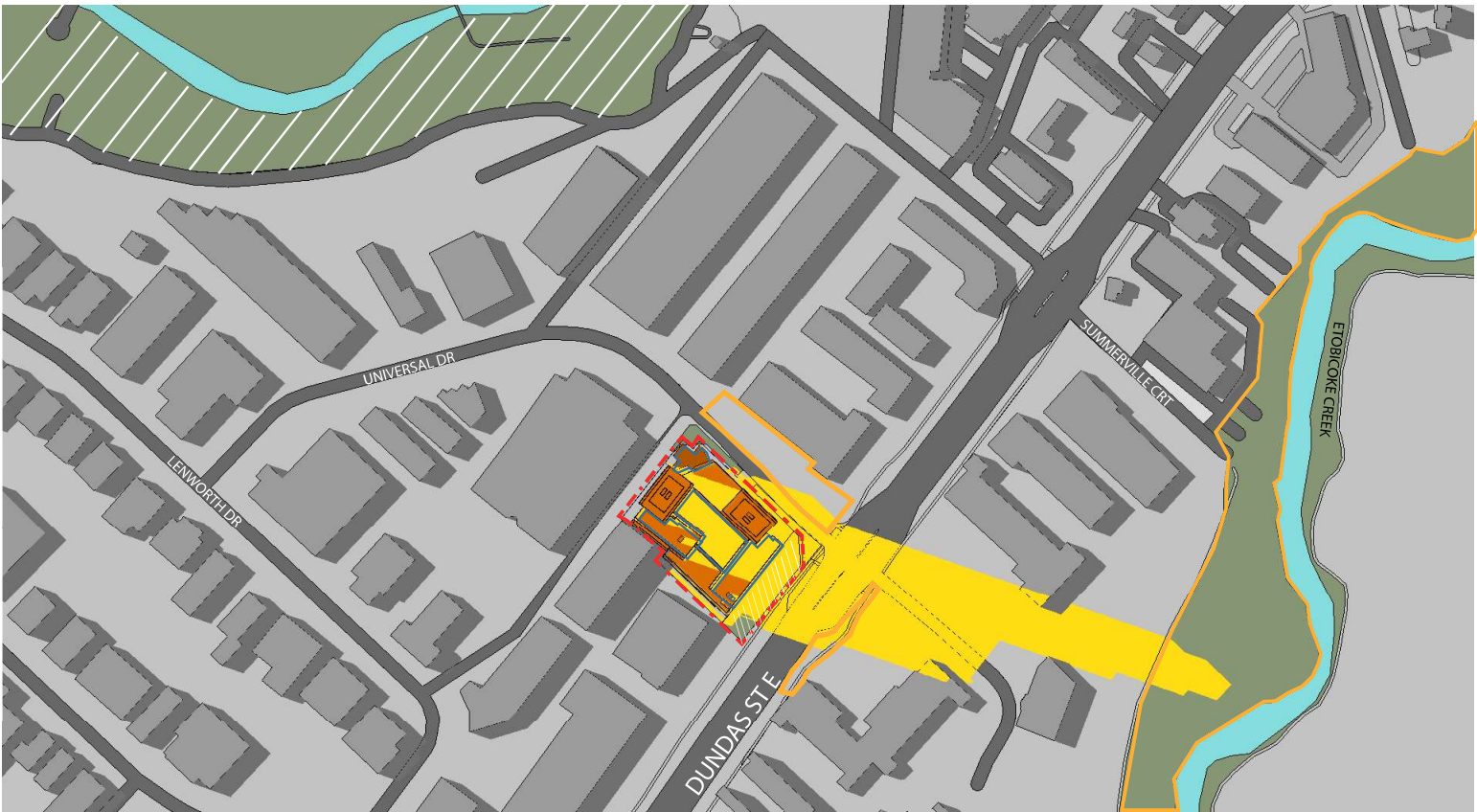
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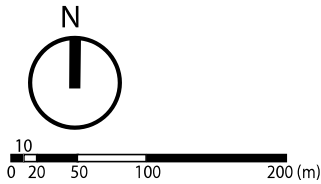


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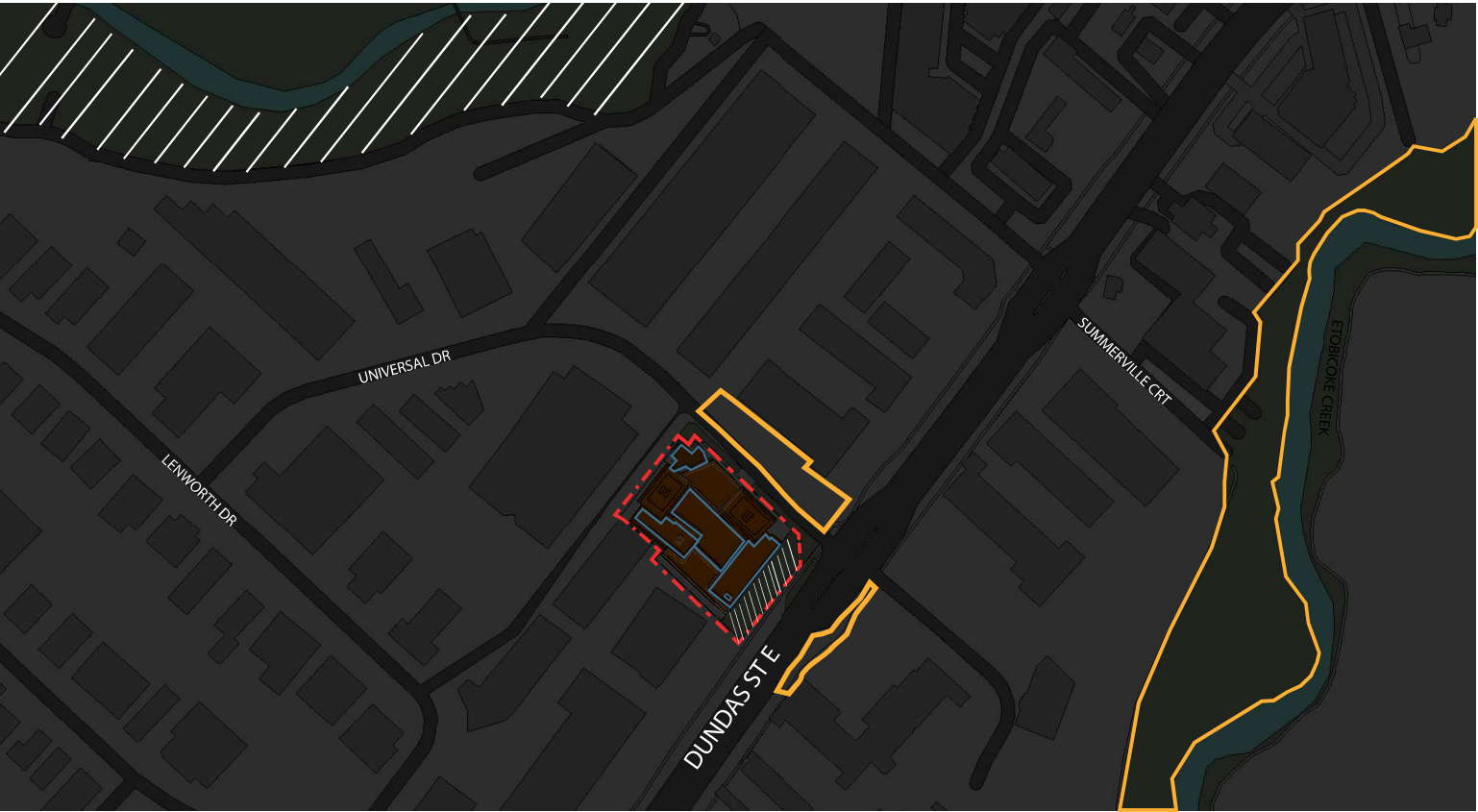
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JUNE 21
UTC - 4 HOURS

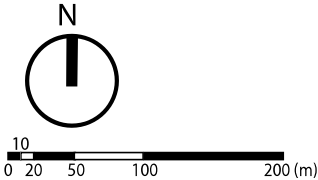
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9 DECEMBER, 2024





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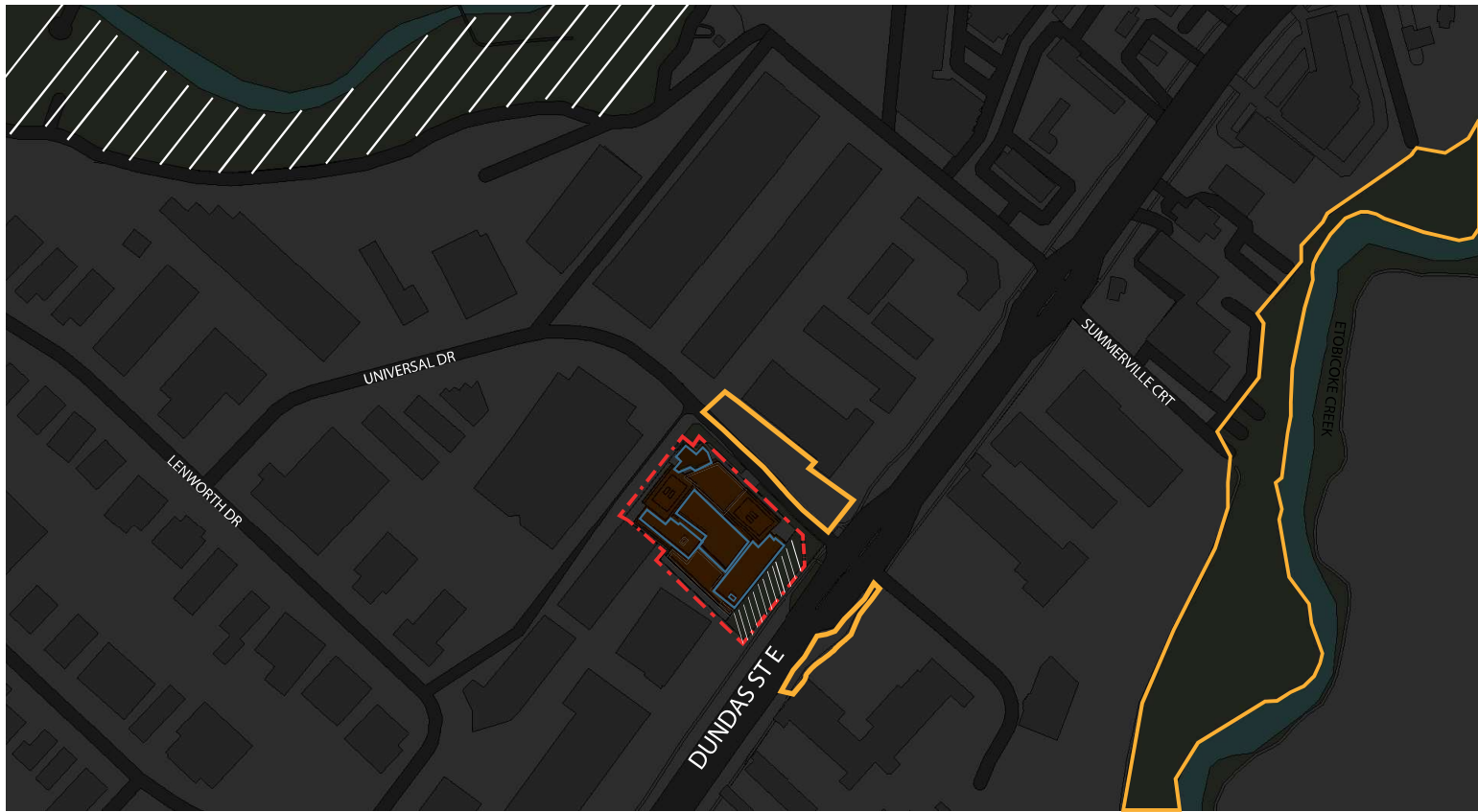
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JUNE 21
UTC - 4 HOURS

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9 DECEMBER, 2024





07:05



8:35

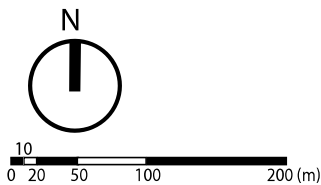


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10:12

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SEPTEMBER 21
UTC - 4 HOURS

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SHADOW STUDY
9 DECEMBER, 2024





11:12



12:12

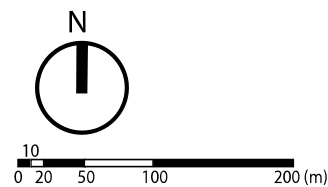


13:12



14:12

- EXISTING BUILDING
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SEPTEMBER 21
UTC - 4 HOURS

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SHADOW STUDY
9 DECEMBER, 2024





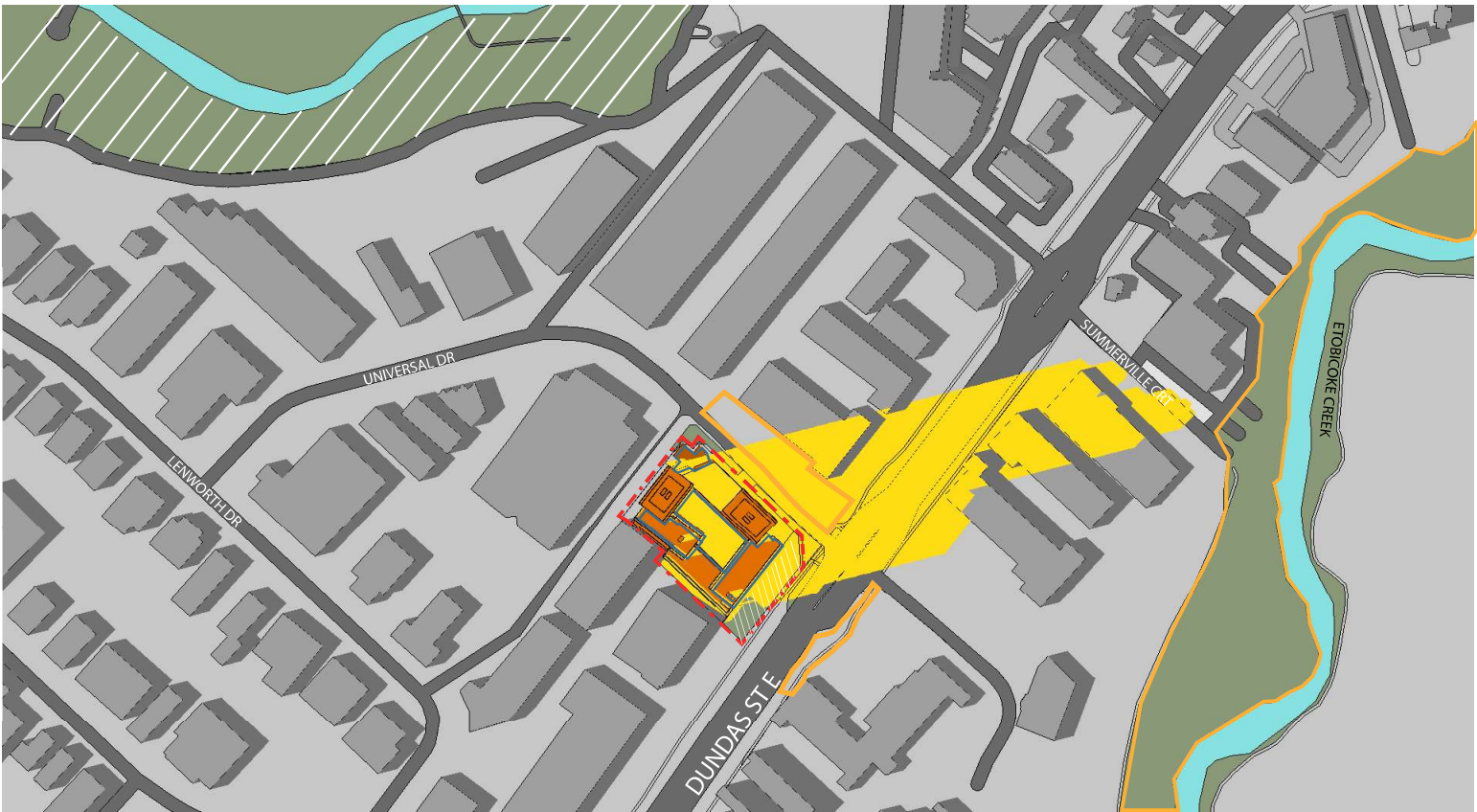
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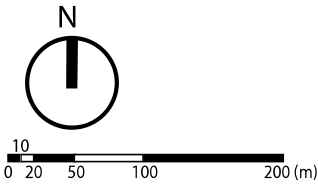


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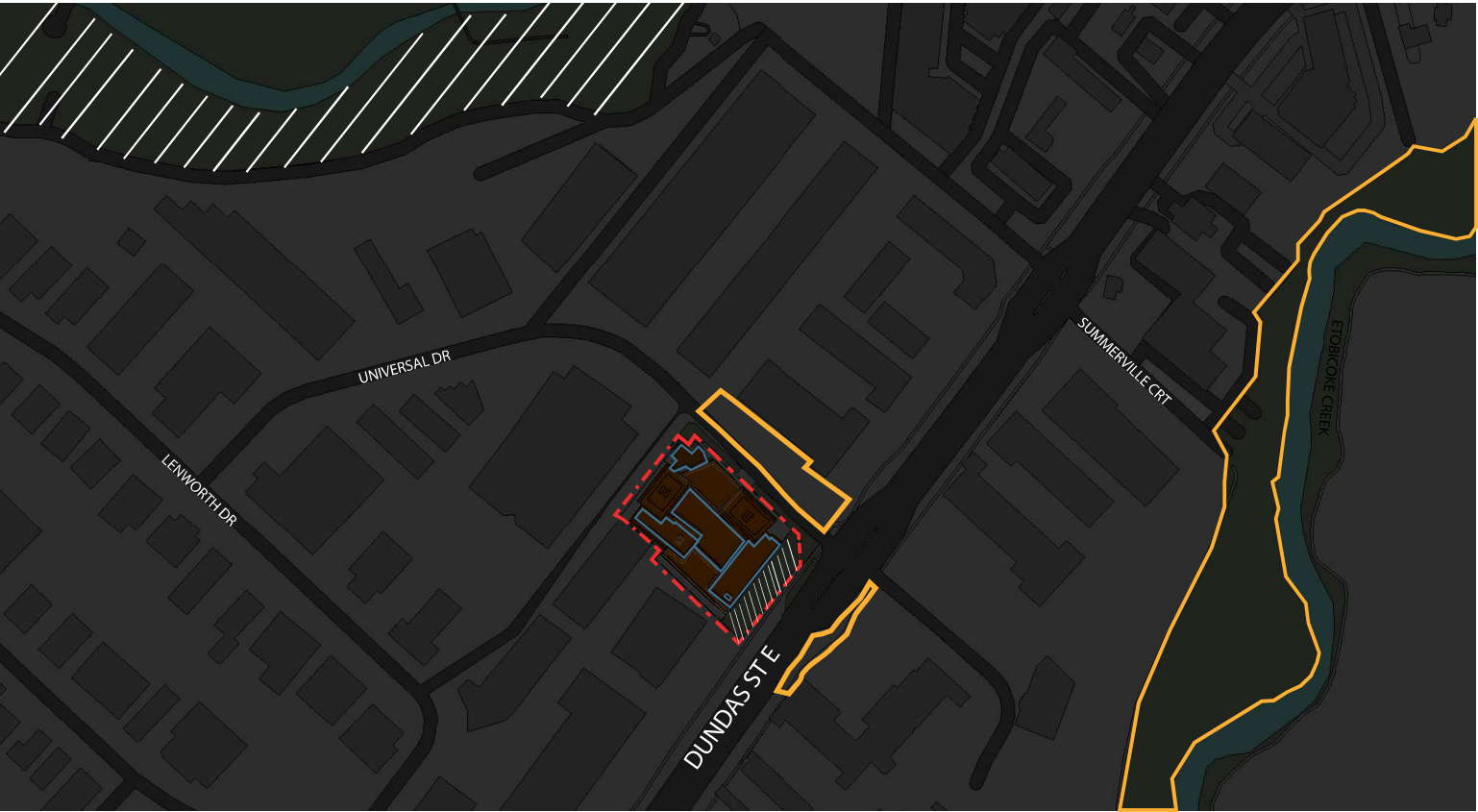
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SEPTEMBER 21
UTC - 4 HOURS

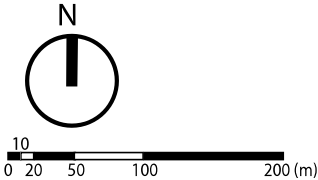
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9 DECEMBER, 2024





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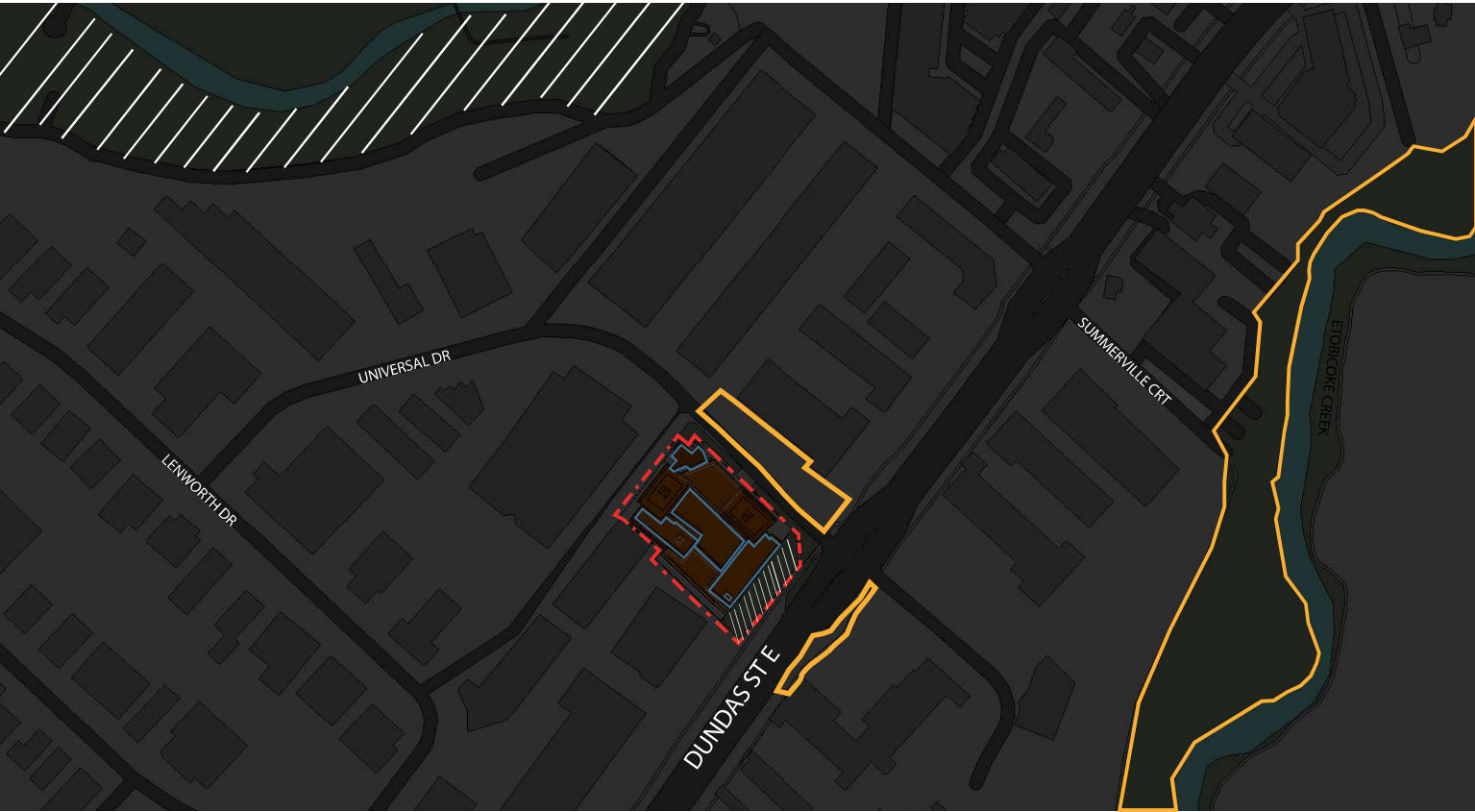
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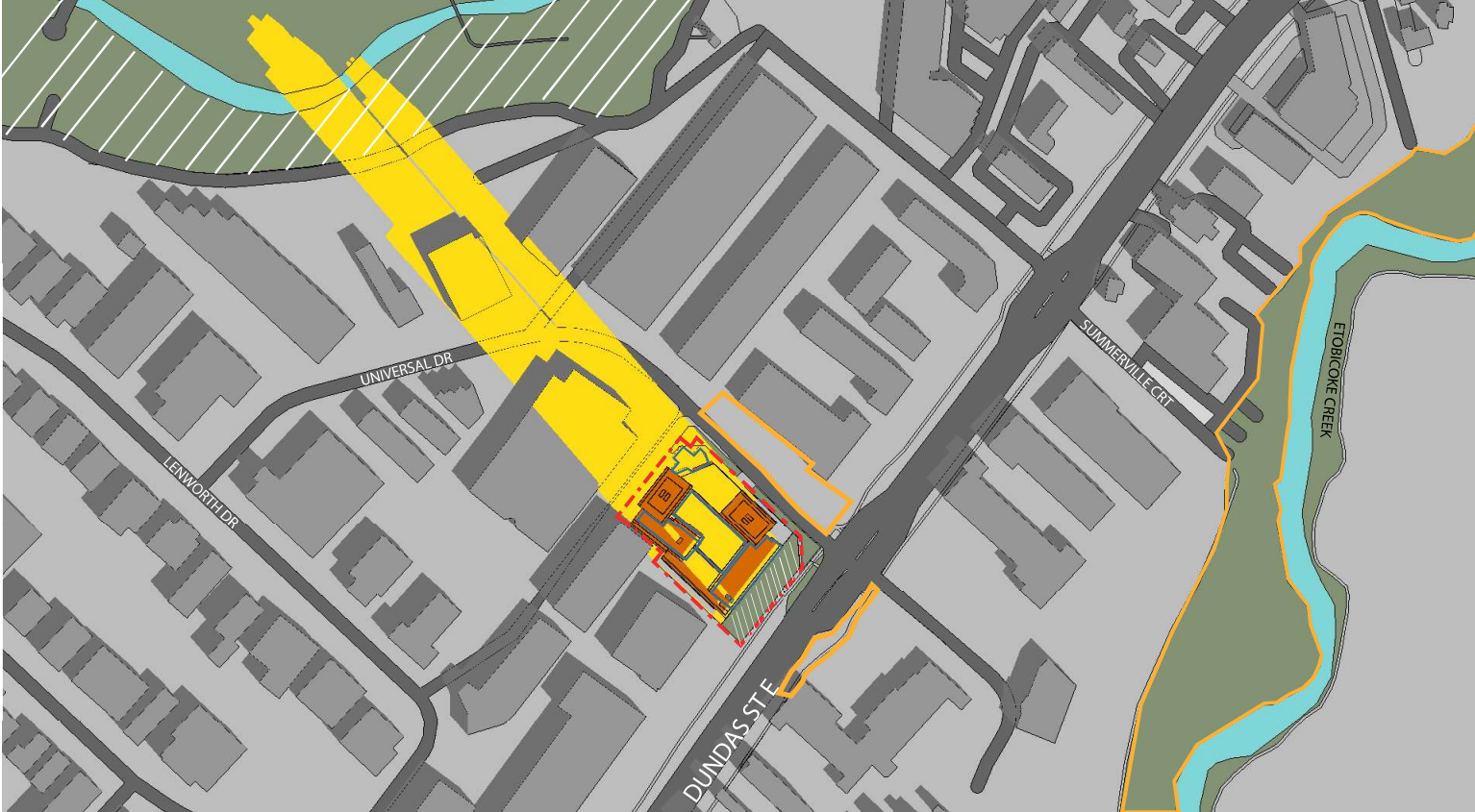
SEPTEMBER 21
UTC - 4 HOURS

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9 DECEMBER, 2024





7:49



9:19

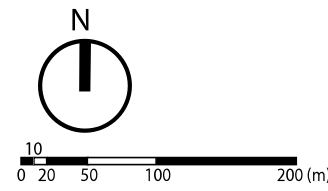


10:17



11:17

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DECEMBER 21
UTC - 5HOURS

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SHADOW STUDY
9 DECEMBER, 2024

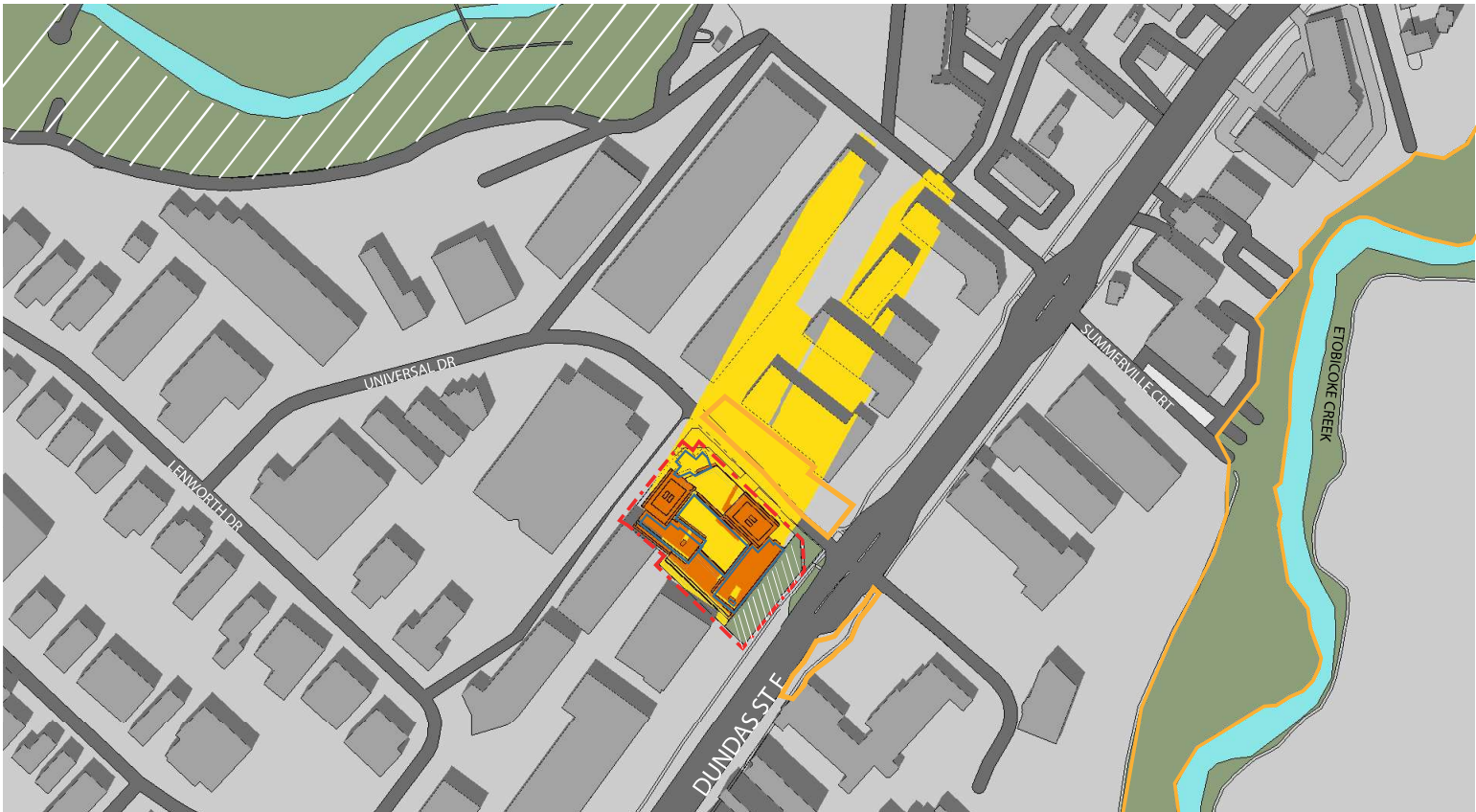




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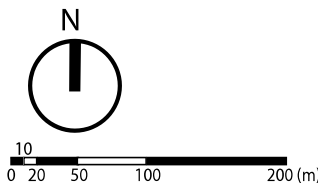


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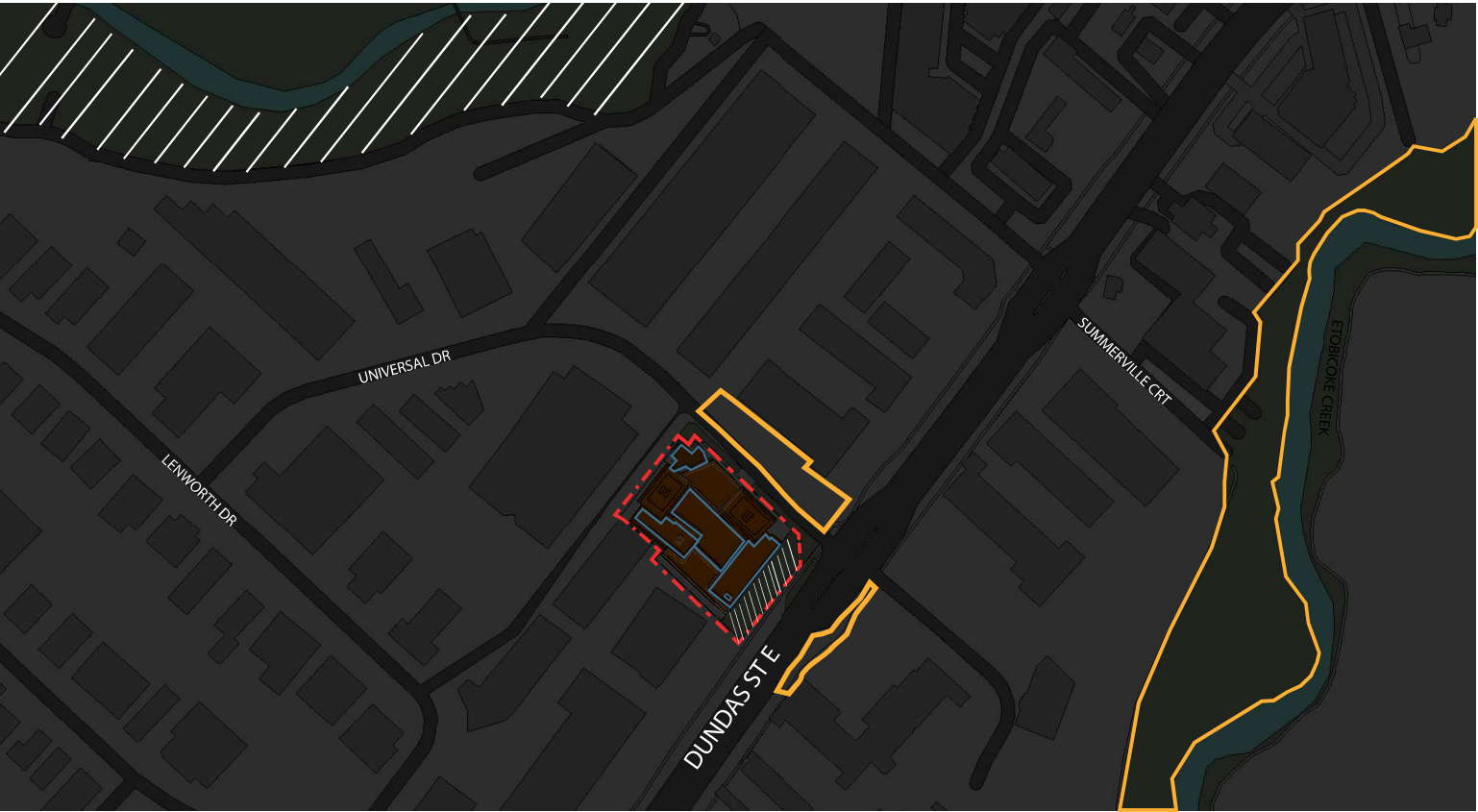
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DECEMBER 21
UTC - 5HOURS

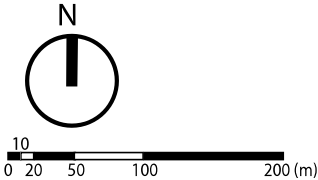
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SHADOW STUDY
9 DECEMBER, 2024





16:45

- EXISTING BUILDING
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DECEMBER 21
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