

Date: December 8, 2023
To: Raad Akrawi, 12714001 Canada Inc.
From: Bomo Dambo, EIT, JLR
Rani Nahas, P.Eng., JLR
CC: Carmine Zayoun, 12714001 Canada Inc.
Karla Ferrey, P.Eng., JLR
Subject: 3070 Navan Development Blocks 14, 15, 16, and 17 – Trip Generation Technical Memorandum
JLR No.: 29899-005

Introduction

From the information provided, it is our understanding that the proponent is moving forward with the site plan applications for Blocks 14, 15, 16, and 17 of the 3079 Navan development. Blocks 14, 15, and 17 are each comprised of two 4-storey condo buildings with approximately 83 to 96 total units per block. Access to the main apartment building and its underground parking will be provided via the internal subdivision. Block 16 is a commercial block consisting of a gas station and drive-through restaurant. The proposed Site Plan is provided in **Attachment A**. The Transportation Impact Assessment (TIA) for the entirety of the 3079 Navan development (i.e., the condo buildings, gas station, and subdivision) was previously submitted in September 2022.

As part of the Site Plan Phase 1 comments, City staff indicated that a technical memorandum outlining the projected site trip generation for each Block will be required to satisfy the transportation analysis component of this application.

As such, the following technical memorandum has been prepared to determine the projected site-generated traffic from Blocks 14, 15, 16 and 17, and provide recommendations, as required.

Trip Generation Analysis

The latest Site Plan indicates the following for each block:

- Block 14 will consist of two 4-storey condominium buildings (Building A and Building B)
 - Building A – 48 units
 - Building B – 36 units with a 10,000 square feet commercial and office space
- Block 15 will consist of two 4-storey condominium building (Building C and Building D)
 - Building C – 36 units with a 10,000 square feet commercial and office space
 - Building D – 47 units
- Block 16 is a commercial block and will consist of:
 - A gasoline service station
 - A fast-food restaurant with drive-through
- Block 17 will consist of two 4-storey condominium buildings (Building E and Building F)
 - Building E – 48 units
 - Building F – 48 units

Consistent with the City's Transportation Impact Assessment (TIA) Guidelines, projected site-generated traffic was estimated using appropriate trip generation rates from the 11th Edition of the Institute of Transportation Engineers (ITE) Trip Generation Manual for commercial trips and the latest TRANS Trip Generation Manual Summary Report, dated October

21, 2020 for residential trips. Based on the location and type of development envisioned, the following **Table 1** summarizes the appropriate trip generation rates for estimating projected site-generated traffic.

Note that in the initial TIA, the trip generation rates used were from the 10th Edition of the ITE Trip Generation Manual. Since then, the 11th Edition has been released and was used for this exercise. As such, there are slight discrepancies between the trip generation rates between the TIA submitted in September 2022 and the following memo.

Table 1: ITE and TRANS Peak Hour Trip Generation Rates

Land Use	ITE Land Use Code	AM Peak Hour	PM Peak Hour
Multifamily Housing (Mid-Rise)	ITE 221 TRANS Study Table 3 & 4 Person Trips	$T_P = 0.80(U) \times 0.50$	$T_P = 0.90(U) \times 0.44$
Gasoline/Service Station with Convenience Market	ITE 945 General Urban/Suburban Vehicle Trips	$T_A = 91.35(X);$ $T_F = n/a$	$T_A = 78.95(X);$ $T_F = n/a$
Fast Food Restaurant with Drive-Through Window	ITE 934 General Urban/Suburban Vehicle Trips	$T_A = 44.61(X);$ $T_F = n/a$	$T_A = 33.03(X);$ $T_F = n/a$
Notes:	T_A = Average Vehicle Trips T_F = Vehicle Trips by Fitted Curve X = 1,000 ft ² of Gross Floor Area (GFA) T_P = Average Person Trips U = Per Unit		

Based on the foregoing, the projected weekday morning and afternoon peak hour person trip generation for the proposed development is summarized in **Table 2**.

Table 2: Modified Peak Hour Person Trips

Block	Land Use	Supply	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
			In	Out	Total	In	Out	Total
14	Multifamily Housing (Mid-Rise)	84 units	10	24	34	19	14	33
15	Multifamily Housing (Mid-Rise)	83 units	10	23	33	19	14	33
17	Multifamily Housing (Mid-Rise)	96 units	11	27	38	22	16	38
16	Gasoline/Service Station with Convenience Market	2,982 ft ²	174	175	349	150	151	301
	Fast Food Restaurant with Drive-Through Window	3,897 ft ²	113	110	223	85	80	165
Total Person Trips			318	359	677	295	275	570
10% Multi-Purpose Trip Reduction			-32	-36	-68	-29	-27	-56
Total 'New' Person Trips			286	323	609	266	248	514

As summarized in **Table 2**, Block 14 is projected to generate an approximate two-way total of 34 and 33 person trips/h during the weekday morning and afternoon peak hours, respectively. Block 15 is projected to generate an approximate two-way total of 33 person trips/h during both weekday peak hours. Block 17 is projected to generate an approximate two-way total of 38 person trips/h during both weekday peak hours. Block 16 is projected to generate an approximate two-way total of 572 and 466 person trips/h during the weekday morning and afternoon peak hours, respectively.

In total, Blocks 14 to 17 are projected to generate an approximate two-way total of 609 and 514 person trips/h during the weekday morning and afternoon peak hours, respectively including a 10% multi-purpose trip reduction.

Directional splits (i.e., inbound vs. outbound trips) were obtained from the TRANS Trip Generation Manual Summary Report. Additionally, given the proposed development is considered mixed-use, a ‘multi-purpose’ trip reduction of 10% was assumed to account for the internal trips between residential and commercial land uses.

Travel Mode Shares

To determine the number of person trips arriving/departing by travel mode, total projected person trips were subdivided by percent mode shares. To remain consistent with previously completed and approved work, the mode shares for each land use identified in the TIA has been carried forward within this memo. The following **Table 3**, **Table 4**, **Table 5**, **Table 6**, **Table 7**, and **Table 8** summarize the appropriate mode share values that were used for analysis purposes, based on the proposed land uses.

Given the nature of the proposed land uses, it should be noted that a percentage of the projected site-generated trips can be attributed to ‘pass-by’ traffic (i.e., a quick diversion to/from the subject development on someone’s otherwise, normal daily commute). This additional ‘pass-by’ traffic does not impact overall network capacity, as this traffic already exists and is using the adjacent transportation network; however, ‘pass-by’ trips do impact the performance of turning movements at intersections within close proximity to the proposed development, typically where development site access/egress is provided. As such, and for analysis purposes, it was assumed approximately 80% and 50% of projected site-generated traffic will be comprised of ‘pass-by’ trips for the proposed gas station/convenience store and the fast-food restaurant land uses, respectively.

Table 3: Projected Modal Site Generated Trips – Multifamily Housing (Mid-Rise) – Block 14

Travel Mode	Mode Share	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
		In	Out	Total	In	Out	Total
Auto Driver	50%	5	11	16	9	7	16
Auto Passenger	10%	1	3	4	2	2	4
Transit	30%	3	6	9	5	3	8
Non-motorized	10%	0	2	2	1	1	2
Total Person Trips	100%	9	22	31	17	13	30
Total ‘New’ Vehicle Trips		5	11	16	9	7	16

As shown in **Table 3**, Block 14 is projected to generate approximately two-way vehicle volumes of 16 veh/h during both weekday morning and afternoon peak hours. With regard to active modes, Block 14 is projected to generate approximately two-way person trips of 2 persons/h, during both weekday morning and afternoon peak hours. With regard to transit trips during weekday morning and afternoon peak hour, Block 14 is projected to generate approximately two-way person trips of 9 persons/h and 8 persons/h, respectively.

Table 4: Projected Modal Site Generated Trips – Multifamily Housing (Mid-Rise) – Block 15

Travel Mode	Mode Share	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
		In	Out	Total	In	Out	Total
Auto Driver	50%	5	11	16	9	7	16
Auto Passenger	10%	1	2	3	2	2	4
Transit	30%	3	6	9	5	3	8
Non-motorized	10%	0	2	2	1	1	2
Total Person Trips	100%	9	21	30	17	13	30
Total 'New' Vehicle Trips		5	11	16	9	7	16

As shown in **Table 4**, Block 15 is projected to generate approximately two-way vehicle volumes of 16 veh/h during both weekday morning and afternoon peak hours. With regard to active modes, Block 15 is projected to generate approximately two-way person trips of 2 persons/h, during both weekday morning and afternoon peak hours. With regard to transit trips during weekday morning and afternoon peak hours, Block 15 is projected to generate approximately two-way person trips of 9 persons/h and 8 persons/h, respectively.

Table 5: Projected Modal Site Generated Trips – Multifamily Housing (Mid-Rise) – Block 17

Travel Mode	Mode Share	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
		In	Out	Total	In	Out	Total
Auto Driver	50%	5	12	17	10	7	17
Auto Passenger	10%	1	3	4	2	2	4
Transit	30%	3	7	10	6	4	10
Non-motorized	10%	1	2	3	2	1	3
Total Person Trips	100%	10	24	34	20	14	34
Total 'New' Vehicle Trips		5	12	17	10	7	17

As shown in **Table 5**, Block 17 is projected to generate approximately two-way vehicle volumes of 17 veh/h during both weekday morning and afternoon peak hours. With regard to active modes, Block 17 is projected to generate approximately two-way person trips of 3 persons/h, during both weekday morning and afternoon peak hours. With regard to transit trips during both weekday morning and afternoon peak hours, Block 17 is projected to generate approximately two-way person trips of 10 persons/h.

Table 6: Projected Modal Site Generated Trips – Gasoline Service Station – Block 16

Travel Mode	Mode Share	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
		In	Out	Total	In	Out	Total
Auto Driver	70%	110	111	221	95	96	191

Auto Passenger	15%	24	24	48	21	21	42
Transit	5%	8	8	16	6	6	12
Non-motorized	10%	15	15	30	13	13	26
Total Person Trips	100%	157	158	315	135	136	271
<i>Less Pass-by 80%</i>		-88	-88	-176	-76	-76	-152
Total 'New' Vehicle Trips		22	23	45	19	20	39

As shown in **Table 6**, the gasoline service station in Block 16 is projected to generate approximately two-way vehicle volumes of 45 veh/h during the weekday morning peak hour and 39 veh/h during the afternoon peak hour. With regard to active modes, the gas station is projected to generate approximately two-way person trips of 30 persons/h and 26 persons/h during the weekday morning and afternoon peak hours, respectively. With regard to transit trips during both weekday morning and afternoon peak hours, the gasoline service station in Block 16 is projected to generate approximately two-way transit trips of 16 and 12 person trips/h, respectively.

Table 7: Projected Modal Site Generated Trips – Fast Food Restaurant – Block 16

Travel Mode	Mode Share	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
		In	Out	Total	In	Out	Total
Auto Driver	60%	62	60	122	47	44	91
Auto Passenger	10%	10	10	20	8	7	15
Transit	20%	20	20	40	15	14	29
Non-motorized	10%	10	9	19	7	7	14
Total Person Trips	100%	102	99	201	77	72	149
<i>Less Pass-by 50%</i>		-31	-31	-62	-23	-23	-46
Total 'New' Vehicle Trips		31	29	60	24	21	45

As shown in **Table 7**, the fast-food restaurant in Block 16 is projected to generate approximately two-way vehicle volumes of 60 veh/h during the weekday morning peak hour and 45 veh/h during the afternoon peak hour. With regard to active modes, the restaurant is projected to generate approximately two-way person trips of 19 persons/h and 14 persons/h during the weekday morning and afternoon peak hours, respectively. With regard to transit trips, the restaurant is projected to generate approximately two-way person trips of 40 persons/h and 29 persons/h during the weekday morning and afternoon peak hours, respectively.

Table 8: Projected Modal Site Generated Trips – Block 16 Total

Travel Mode	AM Peak Hour (Person Trips/h)			PM Peak Hour (Person Trips/h)		
	In	Out	Total	In	Out	Total
Auto Driver	172	171	343	142	140	282
Auto Passenger	34	34	68	29	28	57
Transit	28	28	56	21	20	41
Non-motorized	25	24	49	20	20	40

Total Person Trips	259	257	516	212	208	420
<i>Less Pass-by 50%</i>	-119	-119	-238	-99	-99	-198
Total 'New' Vehicle Trips	53	52	105	43	41	84

As shown in **Table 8 Table 7**, Block 16, in total, is projected to generate approximately two-way vehicle volumes of 105 veh/h during the weekday morning peak hour and 84 veh/h during the afternoon peak hour. With regard to active modes, Block 16 is projected to generate approximately two-way person trips of 49 persons/h and 40 persons/h during the weekday morning and afternoon peak hours, respectively. With regard to transit trips, Block 16 is projected to generate approximately two-way person trips of 56 persons/h and 41 persons/h during the weekday morning and afternoon peak hours, respectively.

Findings and Conclusions

Based on the foregoing, the following conclusions are made:

- Block 14 is projected to generate approximate two-way vehicle volumes of 16 veh/h during both weekday morning and afternoon peak hours.
- Block 15 is projected to generate approximate two-way vehicle volumes of 16 veh/h during both weekday morning and afternoon peak hours.
- Block 16 is projected to generate approximate two-way vehicle volumes of 105 veh/h during the weekday morning peak hour and 84 veh/h during the afternoon peak hour.
- Block 17 is projected to generate approximate two-way vehicle volumes of 17 veh/h during both weekday morning and afternoon peak hours.

Sincerely,

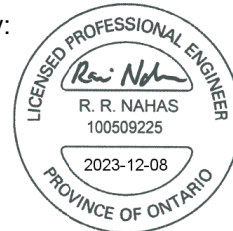
J.L. RICHARDS & ASSOCIATES LIMITED

Prepared by:



Bomo Dambo, EIT
Transportation Engineer-In-Training

Reviewed by:



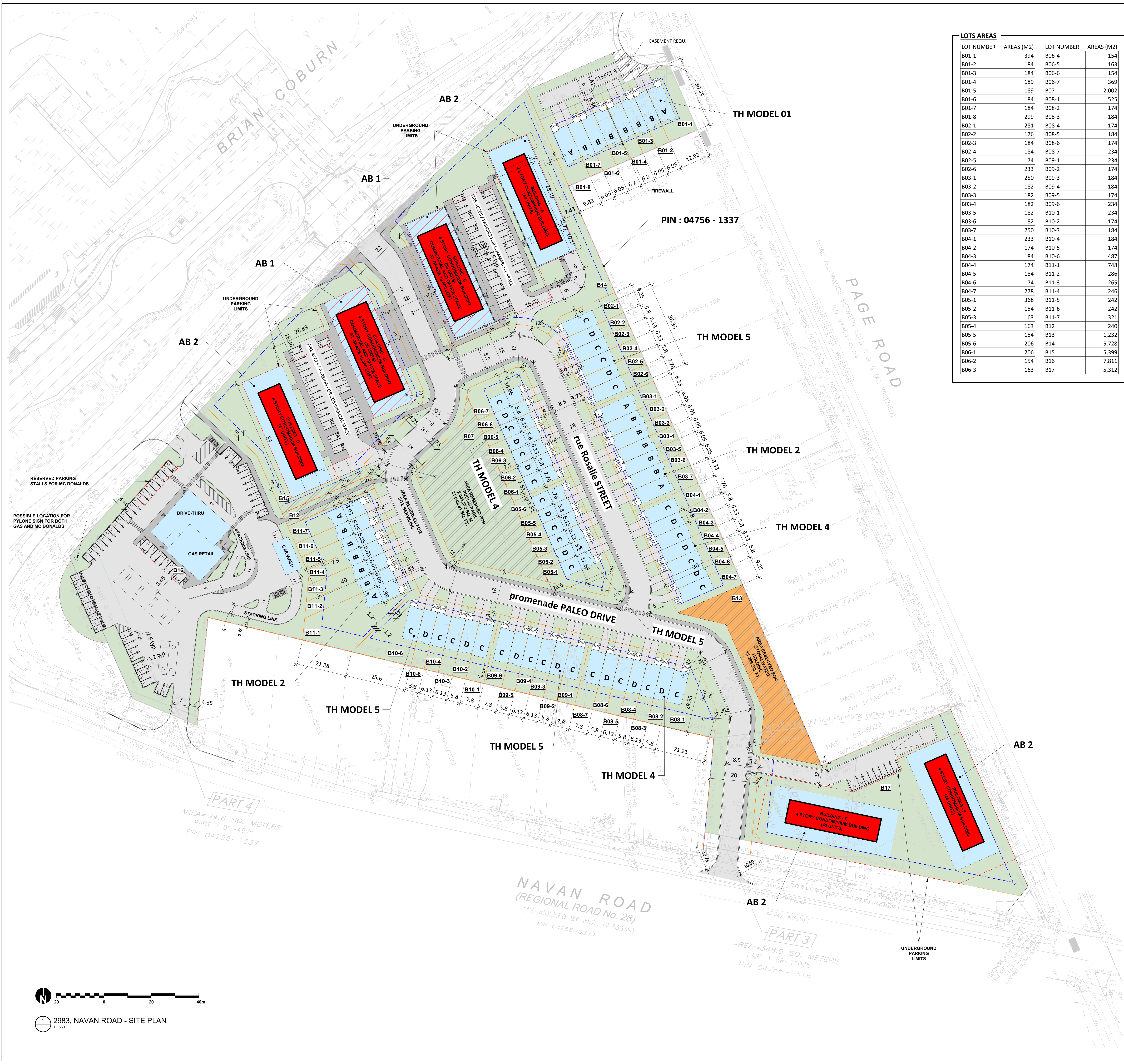
Rani Nahas, P.Eng.
Transportation Engineer

Attachments

3070 Navan Development Blocks 14, 15, 16 and 17
Trip Generation Technical Memorandum

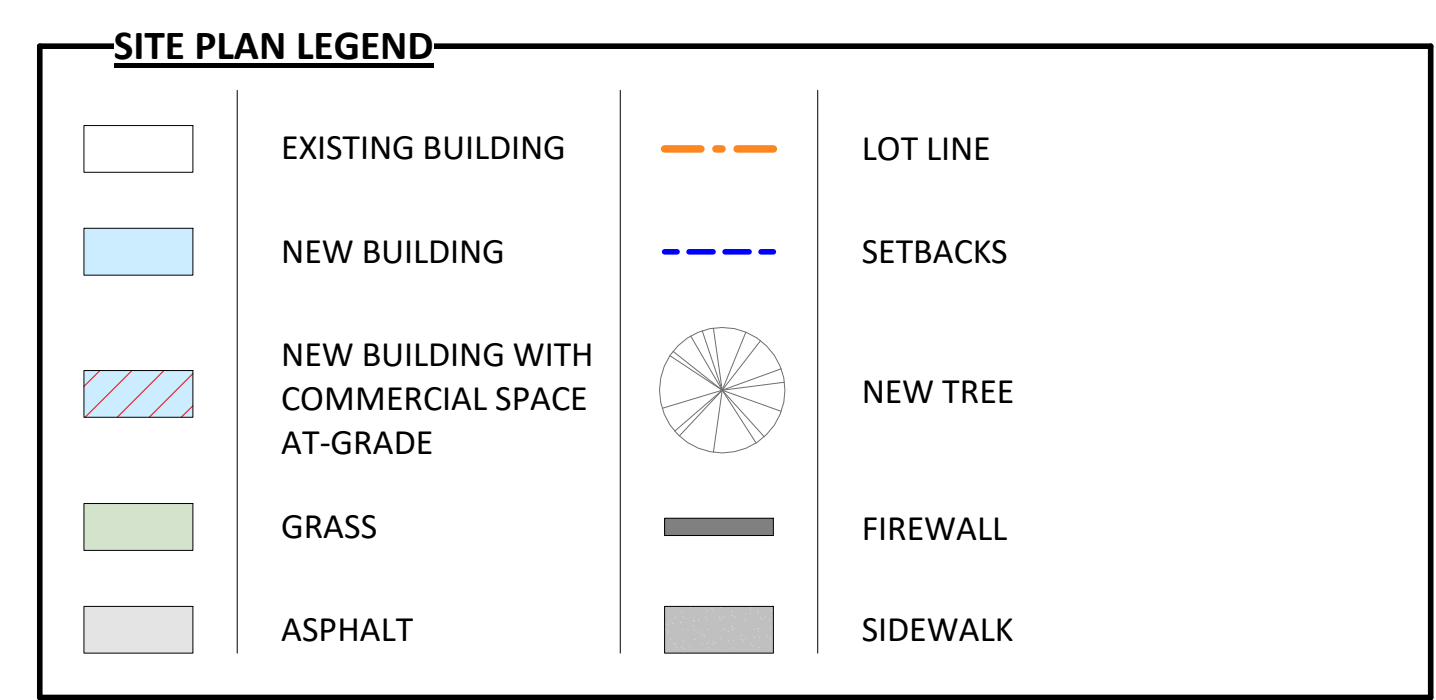
Attachment A

Site Plan



LOTS AREAS

LOT NUMBER	AREAS (M2)	LOT NUMBER	AREAS (M2)
B01-1	394	B06-4	154
B01-2	184	B06-5	163
B01-3	184	B06-6	154
B01-4	189	B06-7	369
B01-5	189	B07	2,002
B01-6	184	B08-1	525
B01-7	184	B08-2	174
B01-8	299	B08-3	184
B02-1	281	B08-4	174
B02-2	176	B08-5	184
B02-3	184	B08-6	174
B02-4	184	B08-7	234
B02-5	174	B09-1	234
B02-6	233	B09-2	174
B03-1	250	B09-3	184
B03-2	182	B09-4	184
B03-3	182	B09-5	174
B03-4	182	B09-6	234
B03-5	182	B10-1	234
B03-6	182	B10-2	174
B03-7	250	B10-3	184
B04-1	233	B10-4	184
B04-2	174	B10-5	174
B04-3	184	B10-6	487
B04-4	174	B11-1	748
B04-5	184	B11-2	286
B04-6	174	B11-3	265
B04-7	278	B11-4	246
B05-1	368	B11-5	242
B05-2	154	B11-6	242
B05-3	163	B11-7	321
B05-4	163	B12	240
B05-5	154	B13	1,232
B05-6	206	B14	5,728
B06-1	206	B15	5,399
B06-2	154	B16	7,811
B06-3	163	B17	5,312



SITE INFORMATION & DEVELOPMENT STATISTICS

LOTS	PIN
	04756-0303
	04756-0315
	04756-0316
	04756-1337

ZONING: GM(2546) H(14.5)

SITE AREA

TOTAL SITE AREA: ~53,441.14 m² (5.34ha)
 TOTAL DEVELOPABLE AREA: ~45,956.28 m² (4.59ha)
 NET SITE AREA: ~38,956.28 m² (3.89ha)

UNITS

TOWNHOUSES: 67 UNITS

BLOCK 01:
 1 X RESIDENTIAL APARTMENT BUILDING: 48 UNITS
 1 X MIXED USE BUILDING: 36 UNITS
 COMMERCIAL SPACES: ~929 m²

BLOCK 02:
 1 X RESIDENTIAL APARTMENT BUILDING: 47 UNITS
 1 X MIXED USE BUILDING: 36 UNITS
 COMMERCIAL SPACES: ~929 m²

BLOCK 03:
 2 X RESIDENTIAL APARTMENT BUILDING: 96 UNITS

TOTAL NUMBER OF UNITS: 330 UNITS
 TOTAL COMMERCIAL SPACES: ~1,858 m²

	REQUIRED	PROVIDED
MAXIMUM DENSITY	NO MAX.	84.8 units/net ha
MINIMUM LOT WIDTH	NO MIN.	5.8 m
MINIMUM LOT AREA	NO MIN.	174 m ²
MAXIMUM BUILDING HEIGHT	14.5 m	14.5 m

SETBACKS

MINIMUM FRONT YARD:	3 m	3 m
MINIMUM CORNER SIDE YARD:	3 m	3 m
MINIMUM INTERIOR SIDE YARD:		
NON-RESIDENTIAL OR MIXED-USE:	5 m	5 m
LOW-RISE RESIDENTIAL :	1.2 m	1.2 m
MID-RISE RESIDENTIAL :	3 m	3 m
MINIMUM REAR YARD:		
ABUTTING A STREET:	3 m	3 m
FROM A RESIDENTIAL ZONE:	7.5 m	7.5 m
FOR A RESIDENTIAL BUILDING:	7.5 m	7.5 m

PARKING RATES

R9 - TOWNHOUSES:	1 p/unit = 67	67 (GARAGES)
VISITOR:	0	67 DRIVE AISLES

BLOCK 14:

R12 - APARTEMENTS	1.2 p/unit = 101	101 (UNDERGROUND)
VISITOR:	0.2 p/unit = 17	17 (UNDERGROUND)
N79 - RETAIL STORE:	3.4 p/100 m ² GFA = 32	32 (EXTERIOR)
TOTAL:		150

BLOCK 15:

R12 - APARTEMENTS	1.2 p/unit = 100	100 (UNDERGROUND)
VISITOR:	0.2 p/unit = 17	17 (UNDERGROUND)
N79 - RETAIL STORE:	3.4 p/100 m ² GFA = 32	32 (EXTERIOR)
TOTAL:		150

BLOCK 18:

R12 - APARTEMENTS	1.2 p/unit = 116	145 (UNDERGROUND)
VISITOR:	0.2 p/unit = 17	17 (8 EXT. + 12 UND.)
TOTAL:		162

GROSS FLOOR AREA

TOWNHOUSE A:	267 m ²
TOWNHOUSE B:	239 m ²
TOWNHOUSE C:	232 m ²
TOWNHOUSE C (CORNER UNIT):	236 m ²
TOWNHOUSE D:	225 m ²
TOTAL MODEL 01 (ABBBBBBA)	1,968 m ²
TOTAL MODEL 02 (ABBBBBBA)	1,729 m ²
TOTAL MODEL 03 (ABBBBB)	1,490 m ²
TOTAL MODEL 04 (CDDCCDC)	1,611 m ²
TOTAL MODEL 05 (CDDCCDC)	1,386 m ²

MIXED USE BUILDING (TOTAL OF 2 BUILDINGS): TOTAL: 4,130 m²

RESIDENTIAL: 3,201 m²
 COMMERCIAL: 929 m²

RESIDENTIAL APARTMENT BUILDING (TOTAL OF 4 BUILDINGS): TOTAL: 4,130 m²

RESIDENTIAL: 4,130 m²

- NOTE**
- ASSUMES TYPICAL RESIDENTIAL FLOOR HEIGHT OF 3m.
 - THE BASE PLAN (LOT LINES, EXISTING ROADS AND SURROUNDING AREAS) IS BASED ON THE TOPOGRAPHICAL PLAN OF SURVEY, SURVEYED STANTEC GEOMATICS LTD.
 - DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048.

NAVAN ROAD DEVELOPMENT

2983, Navan Road, Orleans, ON K1C 7G4

OWNER: Group of Heafey Group

788, BOUL. SAINT-JOSEPH, SUITE 100 GATINEAU, QC J8Y 4B8

ARCHITECTURAL: PMA ARCHITECTES

(418) 851-8954
 INFO@PMAARCHITECTES.COM
 3070, CHEMIN DES QUATRE-BOURGEOIS QUÉBEC (QC) G1W 2M4
 PMAARCHITECTES.COM

ENGINEERS / PLANNER: J.L. Richards

1985 CARLING AVENUE, SUITE 700, OTTAWA, ON K1Z 6R1

SURVEYOR: Stantec

1331 GLYDE AVENUE, SUITE 400, OTTAWA, ON K2C 3G4

KEY PLAN

ARCHITECT SEAL

REVISIONS

NO	DESCRIPTION	DATE
1	FOR CITY REVIEW	2022-11-28
2	FOR COORDINATION	2022-11-08
3	FOR COORDINATION	2022-11-01
4	FOR COORDINATION	2022-09-14
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99	FOR COORDINATION	2022-09-14
100	FOR COORDINATION	2022-09-14

IT IS THE RESPONSIBILITY OF THE APPROPRIATE CONTRACTOR TO CHECK AND VERIFY ALL DIMENSIONS ON THE SITE AND TO REPORT ALL ERRORS AND/OR OMISSIONS TO THE ARCHITECT. ALL CONTRACTORS MUST COMPLY WITH ALL PERTINENT CODES AND BY-LAWS. DO NOT SCALE DRAWINGS.

THIS DOCUMENT AND ITS CONTENT IS COPYRIGHTED. ANY REPRODUCTION IS PROHIBITED UNLESS GRANTED BY THE ARCHITECT.

DO NOT USE FOR CONSTRUCTION

DATE: 2023-11-29
 DESIGNED: PP

PROJECT No: 20554
 CHECKED: PM

SHEET TITLE: SITE PLAN

SHEET No: A100