

74 Berkeley Street, Toronto, ON M5A 2W7 Tel: 647-795-8153 | www.pecg.ca

Hydrogeological Investigation

100 Mapleview Drive (Park Place), City of Barrie, Ontario

Palmer Project #

Prepared For

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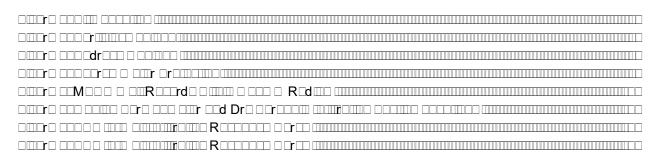
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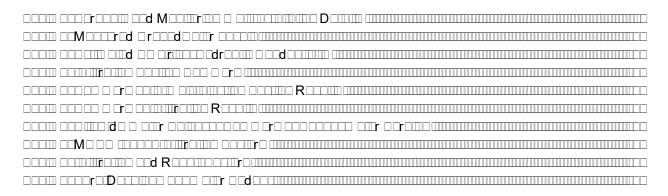
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1. Introduction

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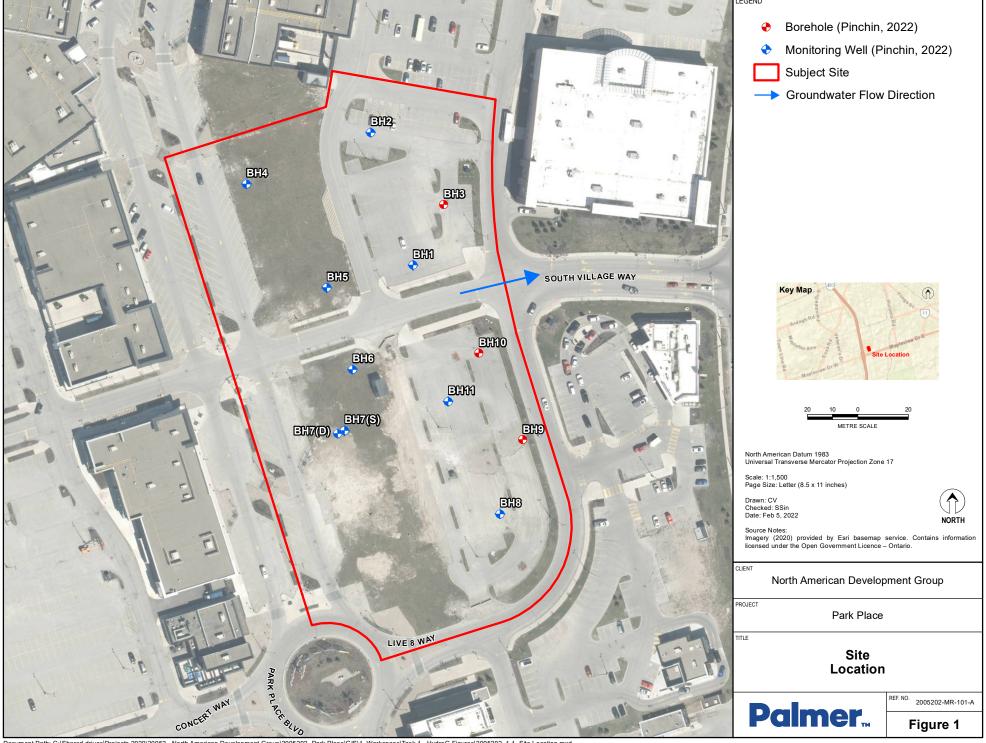
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1.1 Scope of Work

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2. Hydrogeological Conditions

2.1 Regional Conditions

2.1.1 Physiography and Geology

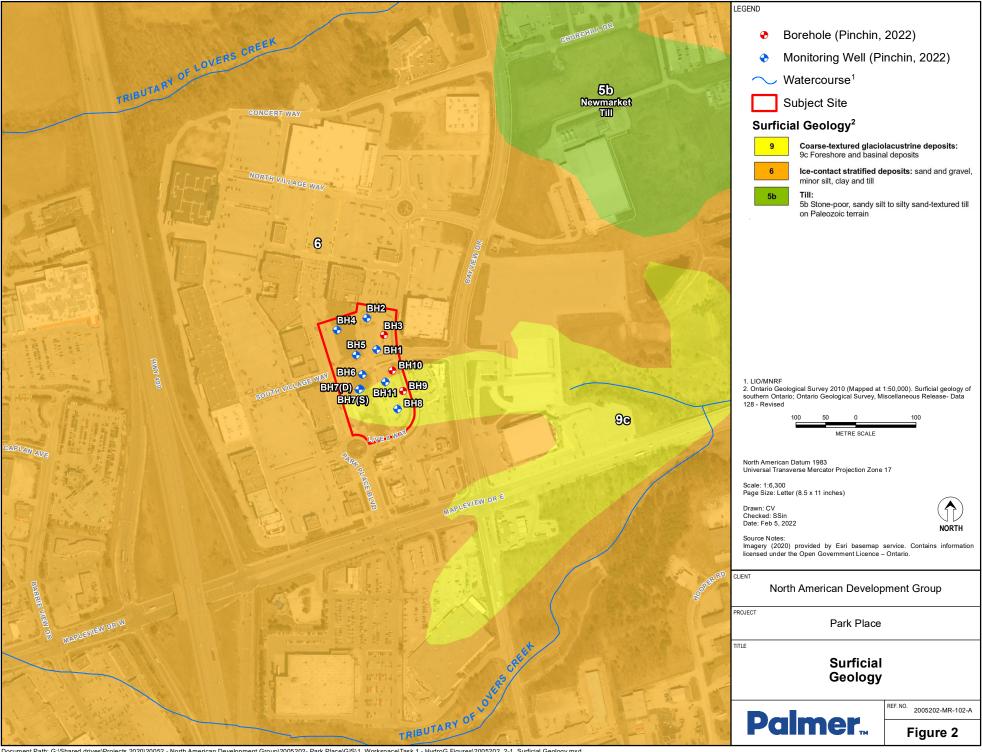
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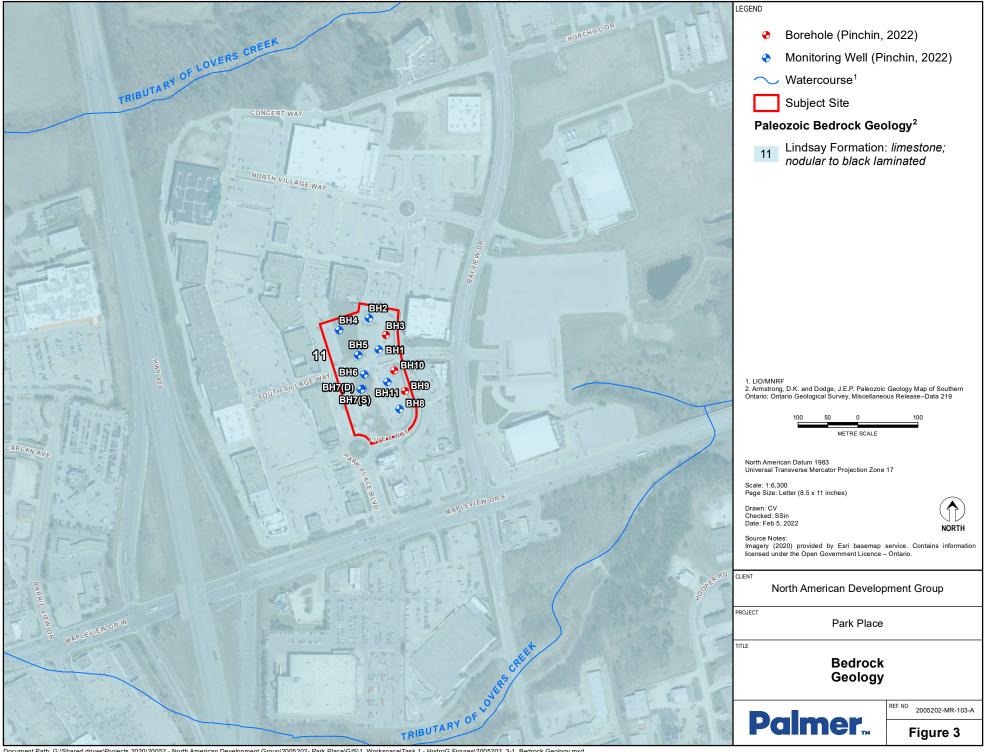
2.1.2 Hydrogeology

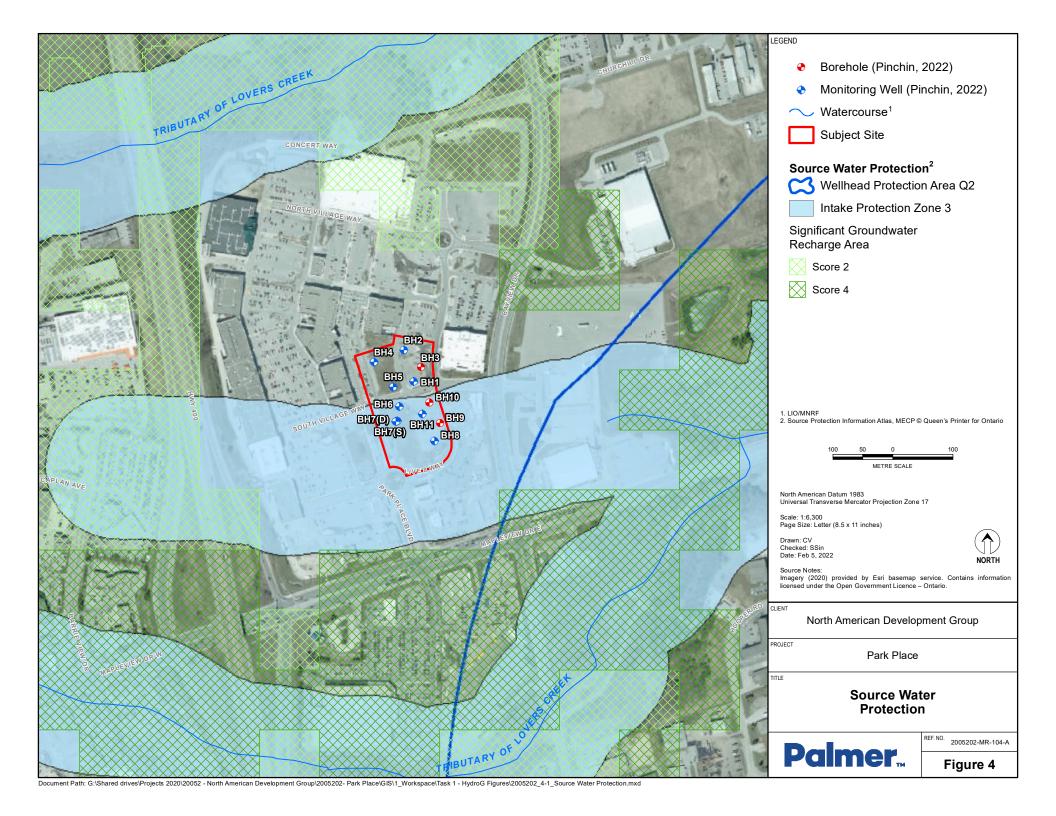


2.1.3 Environmental Features and Drainage

2.1.4 Source Water Protection









2.2 Site Specific Conditions

2.2.1 Borehole Drilling and Monitoring Well Installation

Table 1. Borehole and Monitoring Well Installation Details

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2.2.2 Geology and Soil Profile



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2.2.3 Groundwater Levels and Flow

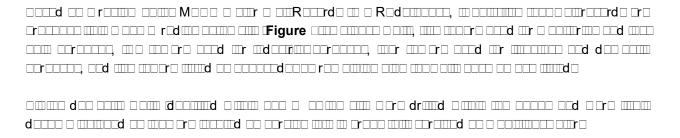


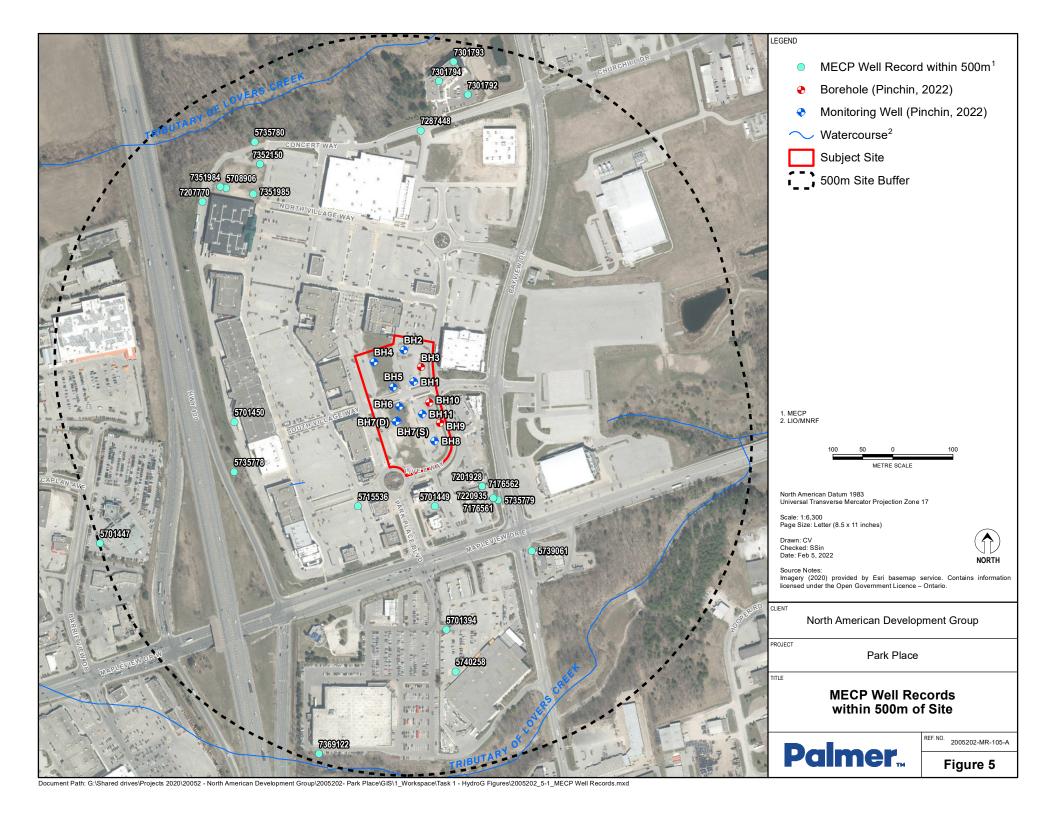
Table 2. Measured Groundwater Levels

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Note: Water level units are in meters below ground surface (mbgs) or meters above sea level (mASL)

2.2.4 MECP Water Well Records







2.2.5 Hydraulic Conductivity

2.2.5.1 Empirical Analysis

$$K\left(Sauerbrei, 1932\right) = \frac{\rho g}{\mu} \left[(3.75 \times 10^{-5}) \times \tau \right] \left[\frac{n^3}{(1-n)^2} \right] d_{17}^2 \; \frac{cm}{s}$$

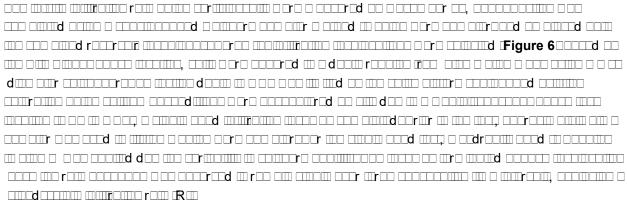
Table 3. Estimated Empirical Hydraulic Conductivity

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2.2.5.2 In-Situ Infiltration Testing

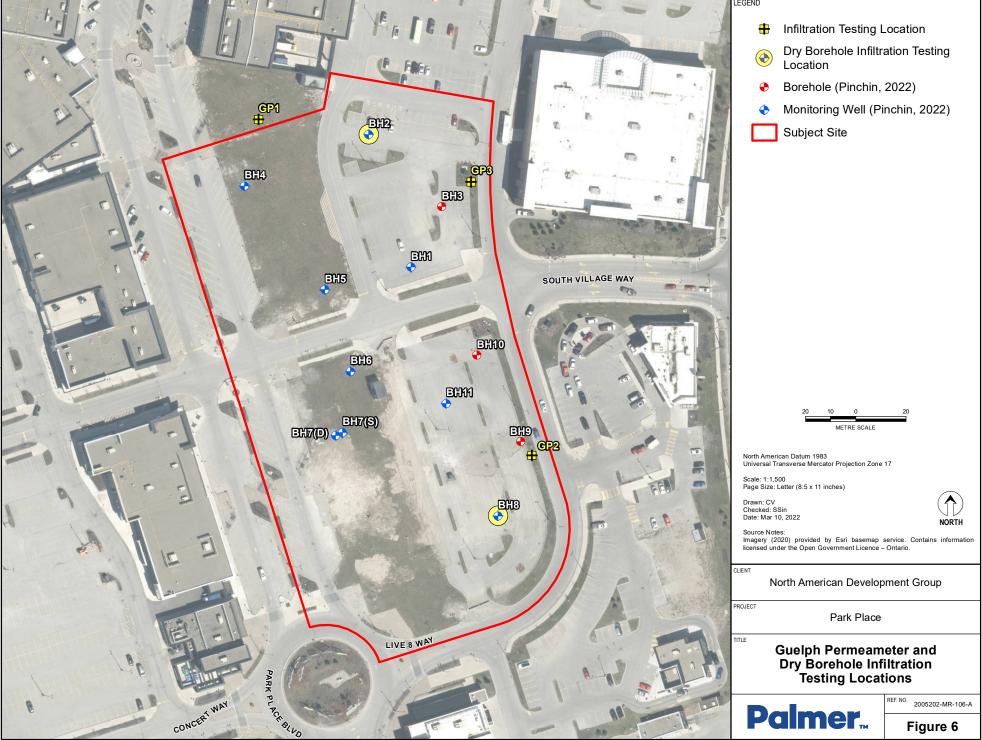
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Table 4. Infiltration Testing Summary

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Dry Borehole Infiltration Testing

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Table 5. Summary of In-Well Injection Testing Results

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Figure 7. BH8 In-Well Infiltration Response Curve

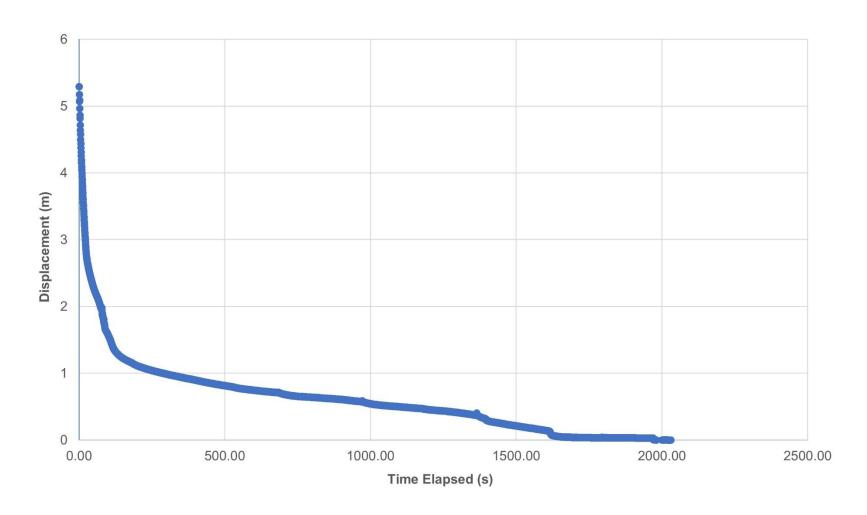
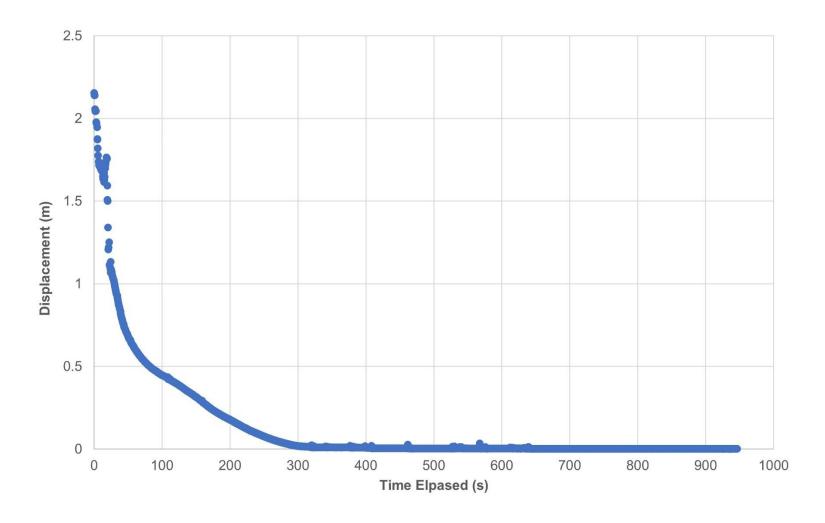




Figure 8. BH2 In-Well Infiltration Response Curve





Summary of Infiltration Results

Table 6. Summary of Infiltration Results

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3. Hydrogeological Conceptual Model



4. Preliminary Water Balance Assessment

4.1 Site Wide Water Balance

4.1.1 Pre-Development Water Balance

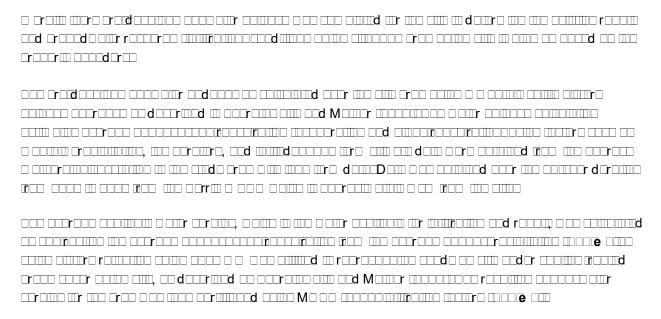
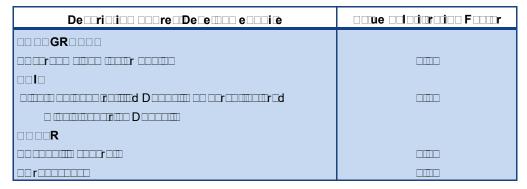


Table 7. Sitewide Water Balance: Summary of Annual Water Surplus

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Table 8. MOEE (1995) Infiltration Factors



Note: Reproduced from MOEE (1995), Technical Guidelines for the Preparation of Hydrogeological Studies for Land Development Applications.

Table 9. Infiltration and Runoff Factors

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April 26, 2022



Table 10: Pre-Development Water Budget

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4.2 Low Impact Development

5. Preliminary Dewatering Assessment

6. Impact Assessment and Hydrogeological Design Considerations

6.1 Assessment of Impacts

6.1.1 Aquifers and Natural Environmental Features



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6.1.2 Source Water Protection

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6.1.3 Private Water Wells

7. Conclusions and Recommendations

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8. Signatures

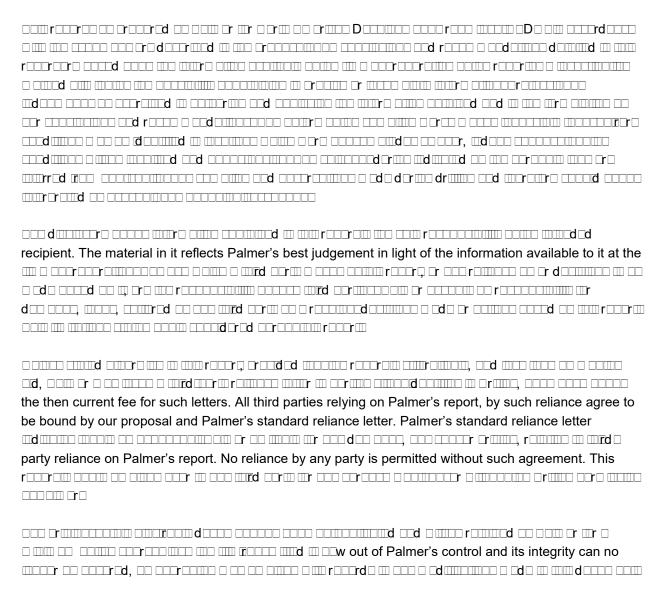
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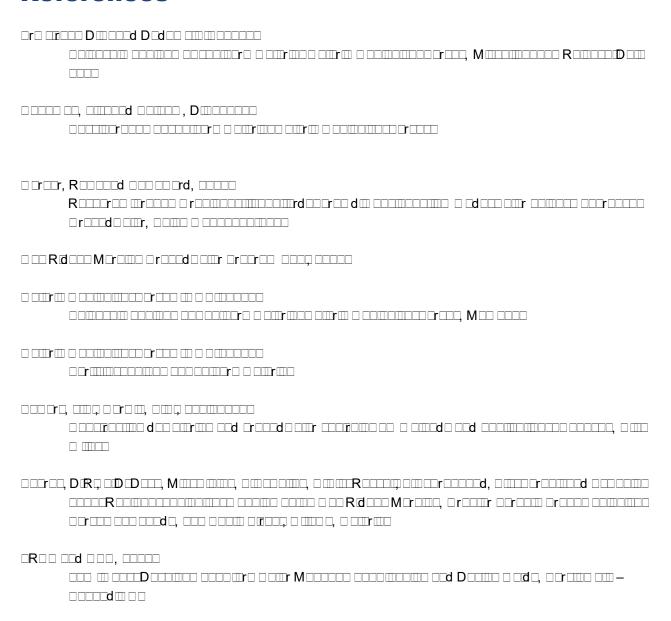


Limitations of Report





References





Appendix A



PROPOSED MULTI UNIT RESIDENTIAL INTENSIFICATION DEVELOPMENT PARK PLACE, BARRIE

NORTH AMERICAN DEVELOPMENT GROUP

ARCHITECTURAL DRAWING LIST

A000 COVER SHEET
A001 DEVELOPMENT STATISTICS

A101 CONTEXT PLAN
A102 BLOCK PLAN
A103 SITE PLAN

A301 ELEVATIONS - PHASE 1A & 1B A302 ELEVATIONS - PHASE 1A & 1B A303 ELEVATIONS - PHASE 2

A401 BUILDING SECTIONS - PHASE 1A & 1B A402 BUILDING SECTIONS - PHASE 2

CONSULTANTS LIST

PLANNING CONSULTANTS
R.G. RICHARDS & ASSOCIATES
6163 PEBBLEWOODS DR.
GREELY, ONTARIO K4P 0A1
TEL: 416-219-5122

PLANNING CONSULTANTS IPS CONSULTING INC. 647 WELHAM RD., SUITE 9, BARRIE, ONTARIO L4N 0B7 TEL: 705-812-3281

SITE SERVICES & GRADING ENGINEERS SABOURIN KIMBLE & ASSOCIATES LTD. 110 OLD KINGSTON RD. AJAX, ONTARIO L1T 2Z9 TEL: 905-426-9451

ELECTRICAL ENGINEER
HAMMERSCHLAG & JOFFE INC.
43 LESMILL ROAD
NORTH YORK, ONTARIO M3B 2T8
TEL: 416-444-9263

ARCHITECT
PETROFF PARTNERSHIP ARCHITECTS
260 TOWN CENTRE BLVD. SUITE 300
MARKHAM, ONTARIO L3R-8H8
TEL: 905-470-7000

LANDSCAPE ARCHITECTS
STUDIO TLA
20 CHAMPLAIN BLVD., SUITE 102
TORONTO, ONTARIO M3H 2Z1
TEL: 416-638-4911

TRANSPORTATION ENGINEER
BA CONSULTING GROUP
45 ST.CLAIR AVE. WEST, SUITE 300
TORONTO, ONTARIO M4V 1K9
TEL: 416-961-7110

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This drawing shall not be reproduced in whole or in part without the written approval of the Architect.

This drawing must be read in the context of all the other drawings which constitute the document.

COVER SHEET

SCALE: AS NOTED

PROPOSED MULTI-UNIT
RESIDENTIAL DEVELOPMENT
PARK PLACE BARRIE

100 MAPLEVIEW DRIVE EAST, BARRIE, ON FOR: NORTH AMERICAN DEVELOPMENT GROUP

PETROFF

260 TOWN CENTRE BLVD, SUITE 300 MARKHAM, ON L3R H8H PH: 905-470-7000 www.petroff.com

DRAWN BY PETROFF
CHECKED BY AH

DATE
USSUED

PROJECT NO.

DVG. NO.

A000

PHASE 1B (BLDG. B) PHASE 2 (BLDG. C) TOTALS 1,650m2 2,385m2 6,200m2	2,165m2	A
175m2 975m2 2,310m2 13,395m2 12,815m2 33,200m2 16-STOREYS 6 & 12-STOREYS 16-STOREYS (max.)	6,990m2	FIAL GFA ¹ GFA ¹ GHT
Proposed 60.0m	Proposed 24.0m Pr 1,375m2	PEN SPACE AREA ²
1,000m2 650m2 1,850m2 100 90 240	200m2 50	NITY AREA ³ ING
1 definition: shall mean the total area of all floors in a building, excepting a acc of the exterior walls, but exclusive of any part of a building which is used atomotive purposes defined in Section 3.0 in this By-law, for storage, stairwells, the entire building. In addition to the exceptions, in calculating the gross floor as which are in excess of the minimum corridor areas required under the	sured from the outside face of cles other than for the automont of providing services for the e of the gross corridor areas wi	residential building, me e or parking of motor veh ical or electrical equipme ling, apartment", the pan
by a recreational amenity shall not be included. ensification blocks, calculation includes outdoor roof amenity) bs, flowers and trees and may include incidental landscaping accessories ds, paths, walkways, patios and hard-surfaced play areas, but shall not	and the area occupied by a least to residential intensite wn and ornamental shrubs, fl	he Ontario Building Cod Open Space (note: as real of lean space comprised of lean grades, soulders, scul
ing or assembly room within a building which may be a common area amenity area. (By-law 2017-041)	n addition to any outdoor ame	ccupants of the building, a - Outdoor
private garage or the roof of a parking structure, which includes landscape r surface, provided such surface is not used for vehicular use. (2017- 041)	ve paving or other similar sur	include areas of decorate LOPMENT STATS. EE 1A
99 units 109 spaces (1.1 spaces/ unit) ³ 52 spaces (4.5 spaces/ 1000 sq.ft.)	ENTIAL UNITS 99 to RESIDENTIAL 109 RETAIL 52 :	IL NUMBER OF RESII (ING PROPOSED FOI (ING PROPOSED FOI
±16,488m2 (177,475 SF) ±7,405m2 (79,710 SF) ±6,294m2 (67,750 SF) ±1,111m2 (11,960 SF)	$\frac{1}{1}$ s and $\frac{1}{1}$ Retail) ² $\frac{1}{1}$ $\frac{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$ $\frac{1}{1}$	L GFA (no exclusions L COMBINED GLA (F DENTIAL GLA ² JL GLA
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±27,067m2 (291,347 SF)		ING PROPOSED FOR LL GFA (no exclusions LL COMBINED GLA (F
±12,660m2 (136,272 SF) ±12,465m2 (134,172 SF) ±195m2 (2,100 SF)	±12	IL COMBINED GLA (F DENTIAL GLA ² IL GLA ELOPMENT STATS.
179 units 197 spaces (1.1 spaces/ unit) ³ 54 spaces (4.5 spaces/ 1000 sq.ft.)	ENTIAL UNITS 179 RESIDENTIAL 197 RETAIL 54	ELOPMENT STATS. E 2 IL NUMBER OF RESIL SING PROPOSED FOI SING PROPOSED FOI
±29,372m2 (316,158 SF) ±12,756m2 (137,304 SF)	±29 es and Retail) ² ±12	L GFA (no exclusions
±11,716m2 (126,110 SF) ±1,040m2 (11,194 SF)	±1,(DENTIAL GLA ² IL GLA
475 units 523 spaces (1.1 spaces/ unit) ³ 116 spaces (4.5 spaces/ 1000 sq.ft.)	ENTIAL UNITS 475	BINED TOTALS FOR IL NUMBER OF RESII (ING PROPOSED FOI (ING PROPOSED FOI
±72,927m2 (784,980 SF) ±32,821m2 (353,286 SF) ±30,475m2 (328,032 SF)	es and Retail) ² ±32 ±30	L GFA (no exclusions L COMBINED GLA (F DENTIAL GLA ²
±2,346m2 (25,254 SF) oor measured from exterior surface of exterior walls , all shafts and stairs on each floor are included in GFA.	ate of the area of each floor n	IL GLA Area (GFA) is the aggregation balconies and terraces.
, all straits and stairs or leach floor are included in GFA. le area of all floors in a residential building, whether at, exterior walls, centerline of suite-to-suite demising wall LA excludes parking, loading, balconies, corridors,	.A) is the aggregate of the and the exterior faces of the exter tridor wall. Residential GLA e	iross Leasable Area (G w grade, measured from
	Type 'B' (3.1m wide) erall parking count	wide) and i us 3% of ov

PHASE 1A - RESIDENT	IAL STATS. (**AT-G	RADE RETAIL EXCLUDED)		
FLOOR LEVEL	UNIT COUNT	GFA (m2/ sq.ft.)	GLA (m2/ sq.ft.)	EFFICIENCY (%)
P2 - PARKING LEVEL	-	3,525 (37,945)	-	-
P1 - PARKING LEVEL	-	3,525 (37,945)	-	-
GROUND FLOOR	-	520 (5,600) ⁽¹⁾	-	-
2ND FLOOR	20	1,470 (15,825)	1,276 (13,735)	87%
3RD FLOOR	20	1,470 (15,825)	1,276 (13,735)	87%
4TH FLOOR	20	1,470 (15,825)	1,276 (13,735)	87%
5TH FLOOR	20	1,470 (15,825)	1,276 (13,735)	87%
6TH FLOOR	19	1,460 (15,715)	1,190 (12,810)	82%

6,294 (67,750)

99 14,910 (160,490) Area excludes: retail, parking ramp and loading PHASE 1B - RESIDENTIAL STATS. (**AT-GRADE RETAIL EXCLUDED)

	FLOOR LEVEL	UNIT COUNT	GFA (m2/ sq.ft.)	GLA (m2/ sq.ft.)	EFFICIENCY (%)
	P3 - PARKING LEVEL		3,925 (42,250)		
	P2 - PARKING LEVEL	-	3,945 (42,465)	-	-
	P1 - PARKING LEVEL	-	3,945 (42,465)	-	-
	GROUND FLOOR	-	500 (5,380) ⁽¹⁾	-	-
Σ	2ND FLOOR	19	1,346 (14,488)	1,197 (12,884)	89%
MUIDO	3RD FLOOR	19	1,346 (14,488)	1,197 (12,884)	89%
PO	4TH FLOOR	19	1,346 (14,488)	1,197 (12,884)	89%
	5TH FLOOR	19	1,346 (14,488)	1,197 (12,884)	89%
	6TH FLOOR	11	790 (8,500)	688 (7,405)	87%
	7TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	8TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	9TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	10TH FLOOR	11	790 (8,500)	698 (7,513)	88%
ÆR	11TH FLOOR	11	790 (8,500)	698 (7,513)	88%
TOWER	12TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	13TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	14TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	15TH FLOOR	11	790 (8,500)	698 (7,513)	88%
	16TH FLOOR	11	790 (8,500)	698 (7,513)	88%

	TOTALS	197	26,390 (284,050)	12,465 (134,172)	-				
	Area excludes: retail, parking ramp and loading								
	PHASE 2 - RESIDENTIAL STATS. (**AT-GRADE RETAIL EXCLUDED)								
	FLOOR LEVEL	UNIT COUNT	GFA (m2/ sq.ft.)	GLA (m2/ sq.ft.)	EFFICIENCY (%)				
	P3 - PARKING LEVEL	-	4,685 (50,430)						
	P2 - PARKING LEVEL	-	4,685 (50,430)	-	-				
	P1 - PARKING LEVEL	-	4,685 (50,430)	-	-				
	GROUND FLOOR	-	455 (4,895) ⁽¹⁾	-	-				
I≊	2ND FLOOR	25	1,875 (20,182)	1,658 (17,846)	88%				
PODIUM	3RD FLOOR	25	1,875 (20,182)	1,658 (17,846)	88%				
	4TH FLOOR	25	1,875 (20,182)	1,658 (17,846)	88%				
	5TH FLOOR	25	1,875 (20,182)	1,658 (17,846)	88%				
	6TH FLOOR	19	1,468 (15,800)	1,256 (13,520)	85%				
l	7TH FLOOR	10	750 (8,700)	638 (6,865)	85%				
黑	8TH FLOOR	10	750 (8,700)	638 (6,865)	85%				
OWER	9TH FLOOR	10	750 (8,700)	638 (6,865)	85%				
ĭ	10TH FLOOR	10	750 (8,700)	638 (6,865)	85%				
	11TH FLOOR	10	750 (8,700)	638 (6,865)	85%				
	12TH FLOOR	10	750 (8,700)	638 (6,865)	85%				
	TOTALS	179	27,978 (301,152)	11,716 (126,110)	-				

1. Area excludes: retail, parking ramp and loading

UNIT MIX BREAKDOWN SUMMARY				
PHASE 1A				
UNIT TYPE	COUNT	%		
STUDIO	10	10		
1-BEDROOM	56	56		
1-BED+DEN	17	17		
2-BEDROOM	11	11		
2-BED+DEN	5	5		
TOTALS	99			

	0.00.0		0.0	010010
	1-BEDROOM	124	63	1-BEDROOM
	1-BED+DEN	8	4	1-BED+DEN
	2-BEDROOM	64	32.5	2-BEDROOM
	2-BED+DEN	0	0	2-BED+DEN
	TOTALS	197		TOTALS

1	ISSUED FOR COORDINATION	FEB.11.2022	ОН
NO.	REVISIONS MARK VOID ALL COPIES PREVIOUS FINAL DATE	DATE	BY

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STATISTICS

PROPOSED MULTI-UNIT RESIDENTIAL DEVELOPMENT PARK PLACE BARRIE

100 MAPLEVIEW DRIVE EAST, BARRIE, ON FOR: NORTH AMERICAN DEVELOPMENT GROUP

PETROFF

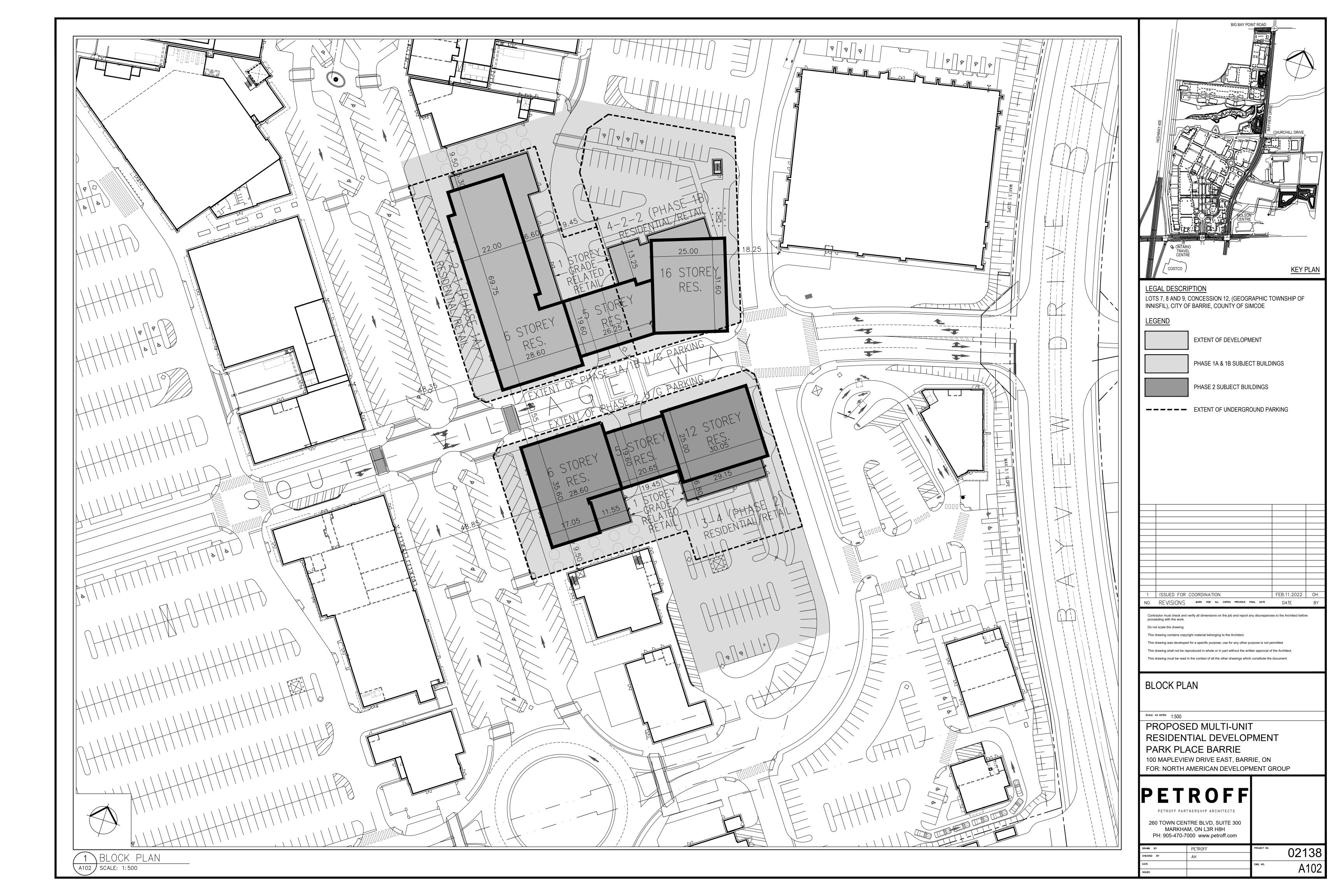
260 TOWN CENTRE BLVD, SUITE 300 MARKHAM, ON L3R H8H

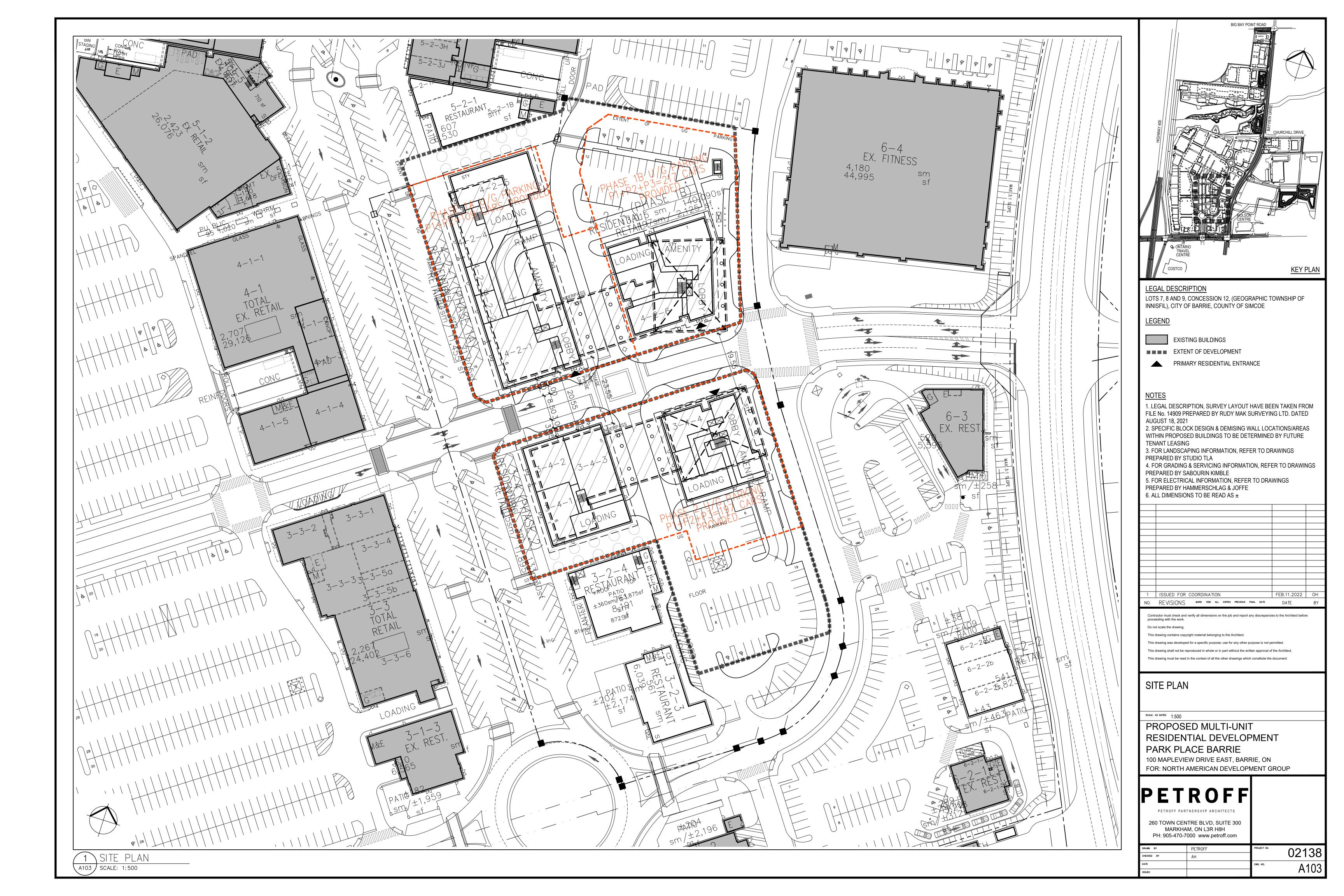
PETROFF PARTNERSHIP ARCHITECTS

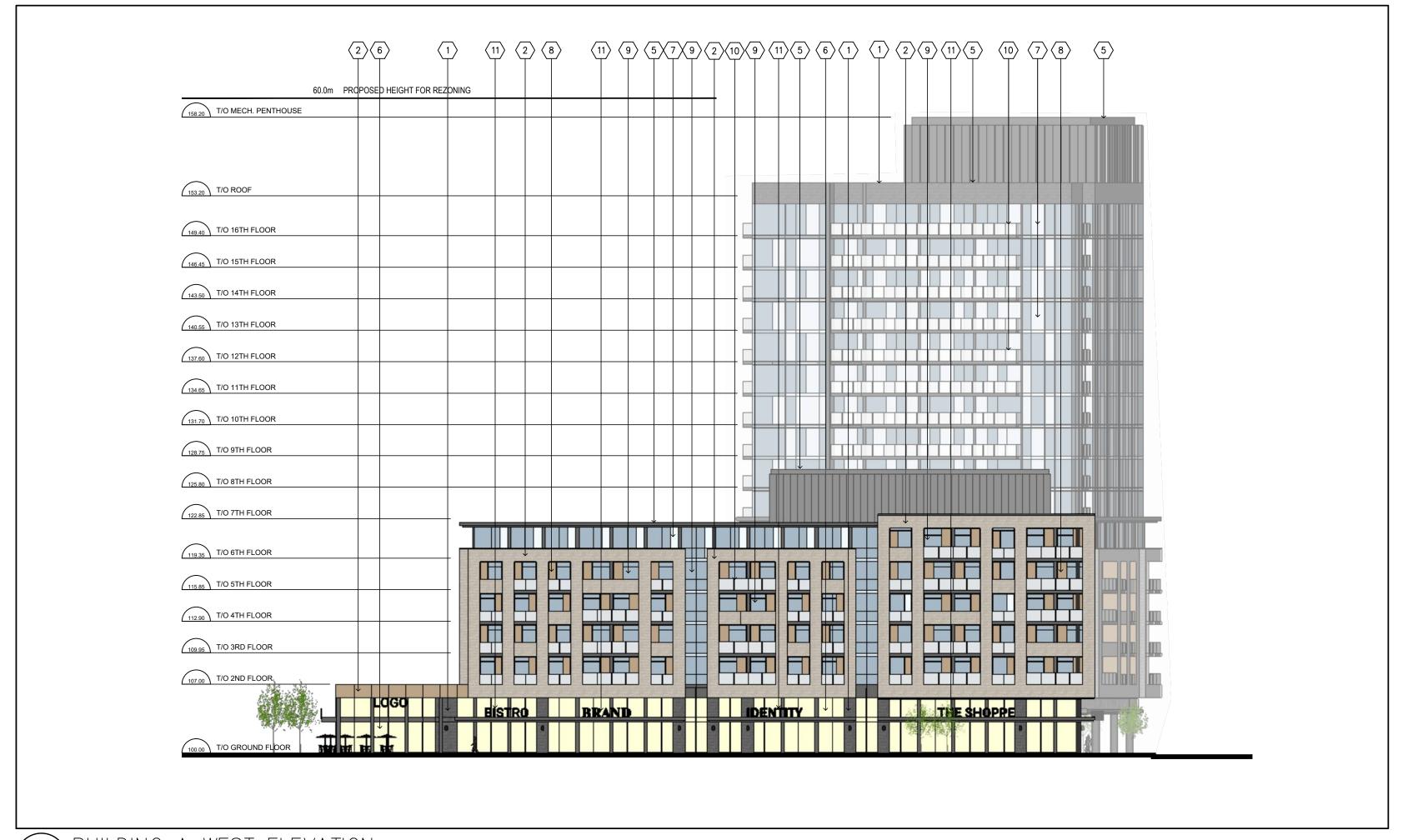
PH: 905-470-7000 www.petroff.com

DRAWN BY	PETROFF	PROJECT NO.		
CHECKED BY	AH		0213	
DATE		DWG. NO.	۸۸۸	
ISSUED			AUU	

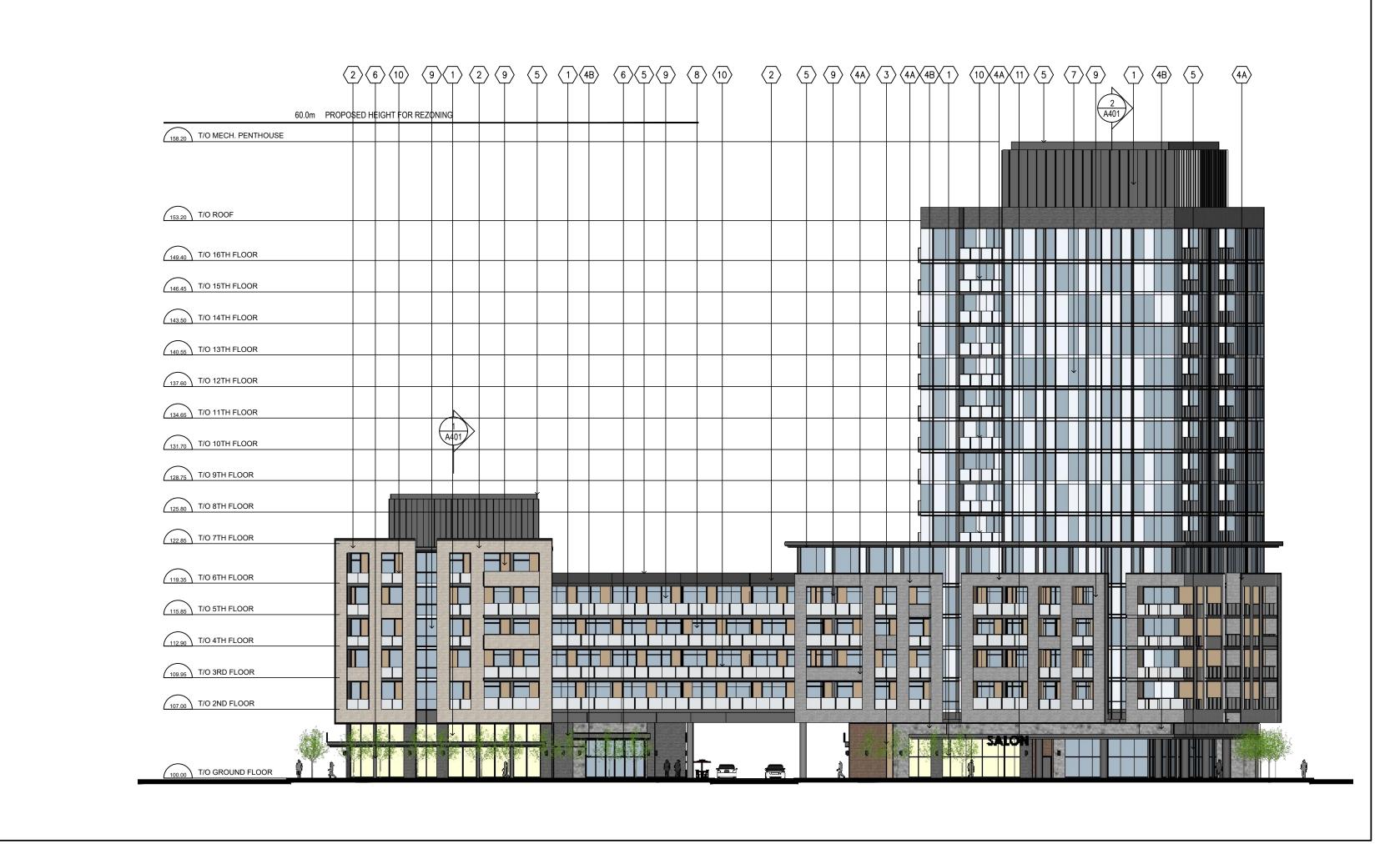








1 BUILDING A WEST ELEVATION A301 | SCALE: 1:300

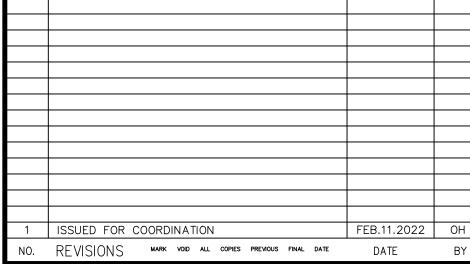


MATERIAL LEGEND

- (1) FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: CHARCOAL FINISH, DARK GREY MORTAR
- 2 FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE
- 3 FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE

COLOUR: LIGHT BROWN/TAN FINISH, BEIGE MORTAR

- COLOUR: MEDIUM BROWN FINISH, BEIGE/TAN MORTOR 4A FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE
- COLOUR: WHITE/LIGHT GREY, LIGHT GREY MORTOR 4B FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL
- PRECAST CONCRETE COLOUR: WHITE/LIGHT MOTTLED GREY, LIGHT GREY MORTOR
- 5 PRE-FINISHED PANEL SIDING OR ACM PANEL COLOUR: CHARCOAL FINISH
- 6 LOW-E CLEAR STOREFRONT GLAZING IN PRE-FINISHED ALUMINUM STOREFRONT FRAMES COLOUR: DARK GREY
- 7 NSULATED BACK PAINTED WHITE SPANDRAL GLAZING IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY
- 8 INSULATED METAL SPANDREL PANEL (WOOD GRAIN FINISH) IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY
- 9 LOW-E CLEAR GLAZING IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY
- CLEAR TEMPERED GLASS BALCONY GUARDRAIL IN PRE-FINISHED ALUMINUM RAILING SYSTEM
- 11 TENANT SIGNAGE INDIVIDUAL LETTER SIGN OR LOGO



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BUILDING 'A' (PHASE 1A & 1B) WEST & SOUTH ELEVATIONS

PROPOSED MULTI-UNIT RESIDENTIAL DEVELOPMENT PARK PLACE BARRIE

100 MAPLEVIEW DRIVE EAST, BARRIE, ON FOR: NORTH AMERICAN DEVELOPMENT GROUP

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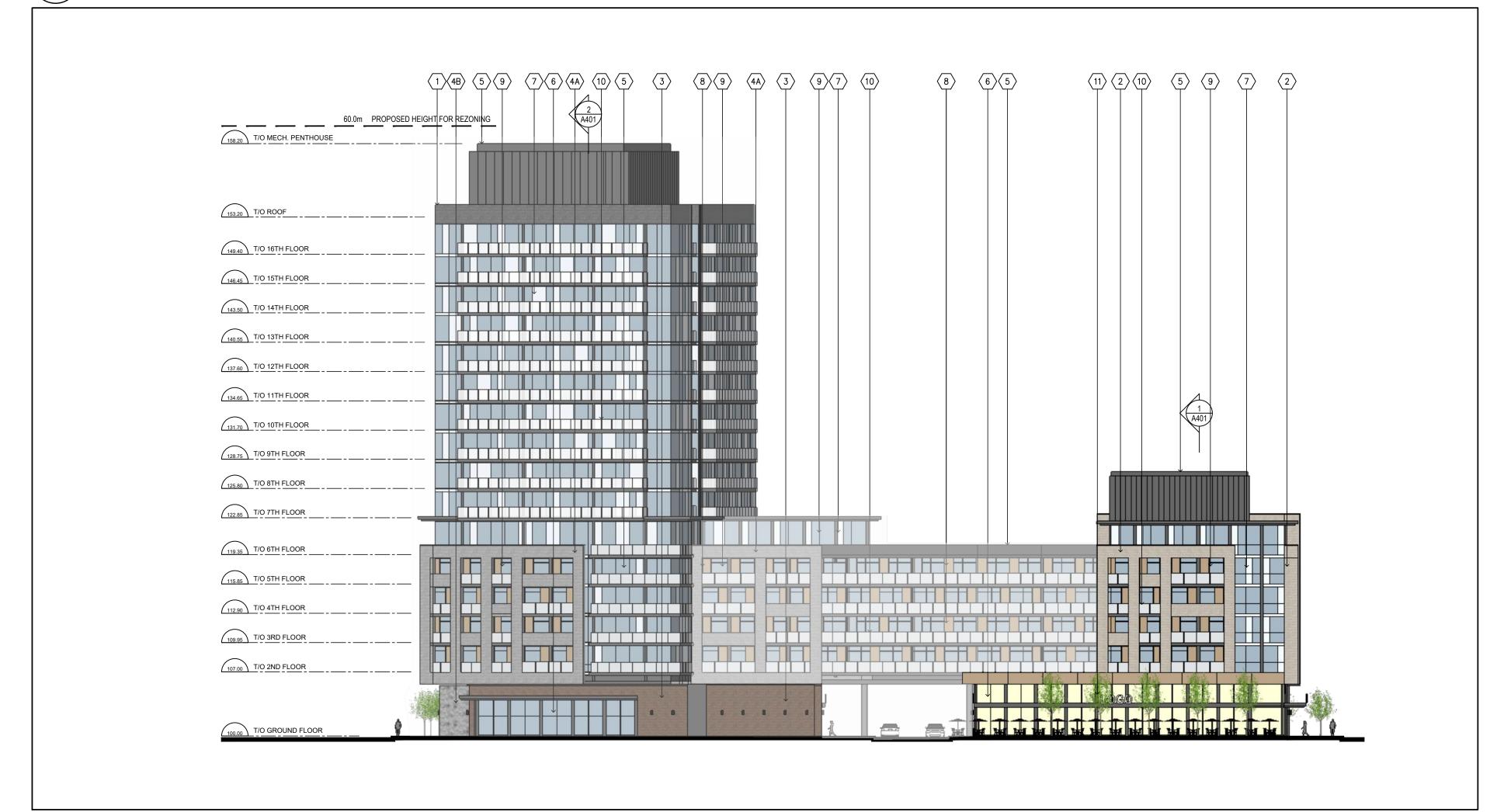
02138 HECKED BY A301

A301 | SCALE: 1:300

2 BUILDING A SOUTH ELEVATION



A302 | SCALE: 1:300

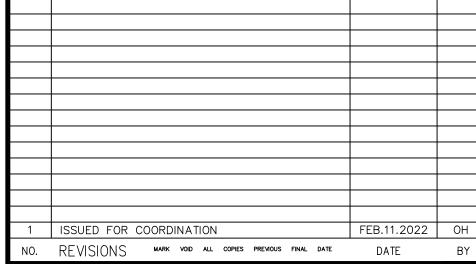


MATERIAL LEGEND

- (1) FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: CHARCOAL FINISH, DARK GREY MORTAR
- 2 FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: LIGHT BROWN/TAN FINISH, BEIGE MORTAR
 - 3 FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: MEDIUM BROWN FINISH, BEIGE/TAN MORTOR
- 4A FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: WHITE/LIGHT GREY, LIGHT GREY MORTOR
- 4B FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: WHITE/LIGHT MOTTLED GREY, LIGHT GREY MORTOR
- 5 PRE-FINISHED PANEL SIDING OR ACM PANEL COLOUR: CHARCOAL FINISH

COLOUR: DARK GREY

- 6 LOW-E CLEAR STOREFRONT GLAZING IN PRE-FINISHED ALUMINUM STOREFRONT FRAMES
- 7 INSULATED BACK PAINTED WHITE SPANDRAL GLAZING IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY
- 8 INSULATED METAL SPANDREL PANEL (WOOD GRAIN FINISH) IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY
- 9 LOW-E CLEAR GLAZING IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY
- CLEAR TEMPERED GLASS BALCONY GUARDRAIL IN PRE-FINISHED ALUMINUM RAILING SYSTEM
- 11 TENANT SIGNAGE INDIVIDUAL LETTER SIGN OR LOGO



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BUILDING 'A' (PHASE 1A & 1B) EAST & NORTH ELEVATIONS

PROPOSED MULTI-UNIT RESIDENTIAL DEVELOPMENT PARK PLACE BARRIE

100 MAPLEVIEW DRIVE EAST, BARRIE, ON FOR: NORTH AMERICAN DEVELOPMENT GROUP

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2 BUILDING A NORTH ELEVATION A302 | SCALE: 1:300



1 BUILDING B WEST ELEVATION A303 SCALE: 1:300

3 BUILDING B EAST ELEVATION

A303 | SCALE: 1:300



3 9 6 1150.0m PROPOSED HEIGHT FOR REZONING 145.20 T/O PENTHOUSE 141.40 T/O ROOF 137.60 T/O 12TH FLOOR 134.65 T/O 11TH FLOOR 131.70 T/O 10TH FLOOR 128.75 T/O 9TH FLOOR 125.80 T/O 8TH FLOOR 122.85 T/O 7TH FLOOR T/O 6TH FLOOR 115.85 T/O 5TH FLOOR 112.90 T/O 4TH FLOOR 109.95 T/O 3RD FLOOR 107.00 T/O 2ND FLOOR 00 00 T/O GROUND FLOOR RAMP & ACCESS TO-PARKING GARAGE

2 BUILDING B SOUTH ELEVATION A303 SCALE: 1:300



MATERIAL LEGEND

(1) FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: CHARCOAL FINISH, DARK GREY MORTAR

2 FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE

COLOUR: LIGHT BROWN/TAN FINISH, BEIGE MORTAR (3) FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE

COLOUR: MEDIUM BROWN FINISH, BEIGE/TAN MORTOR 4A FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: WHITE/LIGHT GREY, LIGHT GREY MORTOR

4B FULL BED MASONRY BRICK VENEER AND/OR ARCHITECTURAL PRECAST CONCRETE COLOUR: WHITE/LIGHT MOTTLED GREY, LIGHT GREY MORTOR

5 PRE-FINISHED PANEL SIDING OR ACM PANEL COLOUR: CHARCOAL FINISH

COLOUR: DARK GREY

6 LOW-E CLEAR STOREFRONT GLAZING IN PRE-FINISHED ALUMINUM STOREFRONT FRAMES

7 INSULATED BACK PAINTED WHITE SPANDRAL GLAZING IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY

INSULATED METAL SPANDREL PANEL (WOOD GRAIN FINISH) IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY

9 LOW-E CLEAR GLAZING IN THERMALLY BROKEN PRE-FINISHED ALUMINUM WINDOW WALL SYSTEM COLOUR: DARK GREY

(10) CLEAR TEMPERED GLASS BALCONY GUARDRAIL IN PRE-FINISHED ALUMINUM RAILING SYSTEM

11 TENANT SIGNAGE - INDIVIDUAL LETTER SIGN OR LOGO

ISSUED FOR COORDINATION

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BUILDING 'B' (PHASE 2) **ELEVATIONS**

PROPOSED MULTI-UNIT RESIDENTIAL DEVELOPMENT PARK PLACE BARRIE

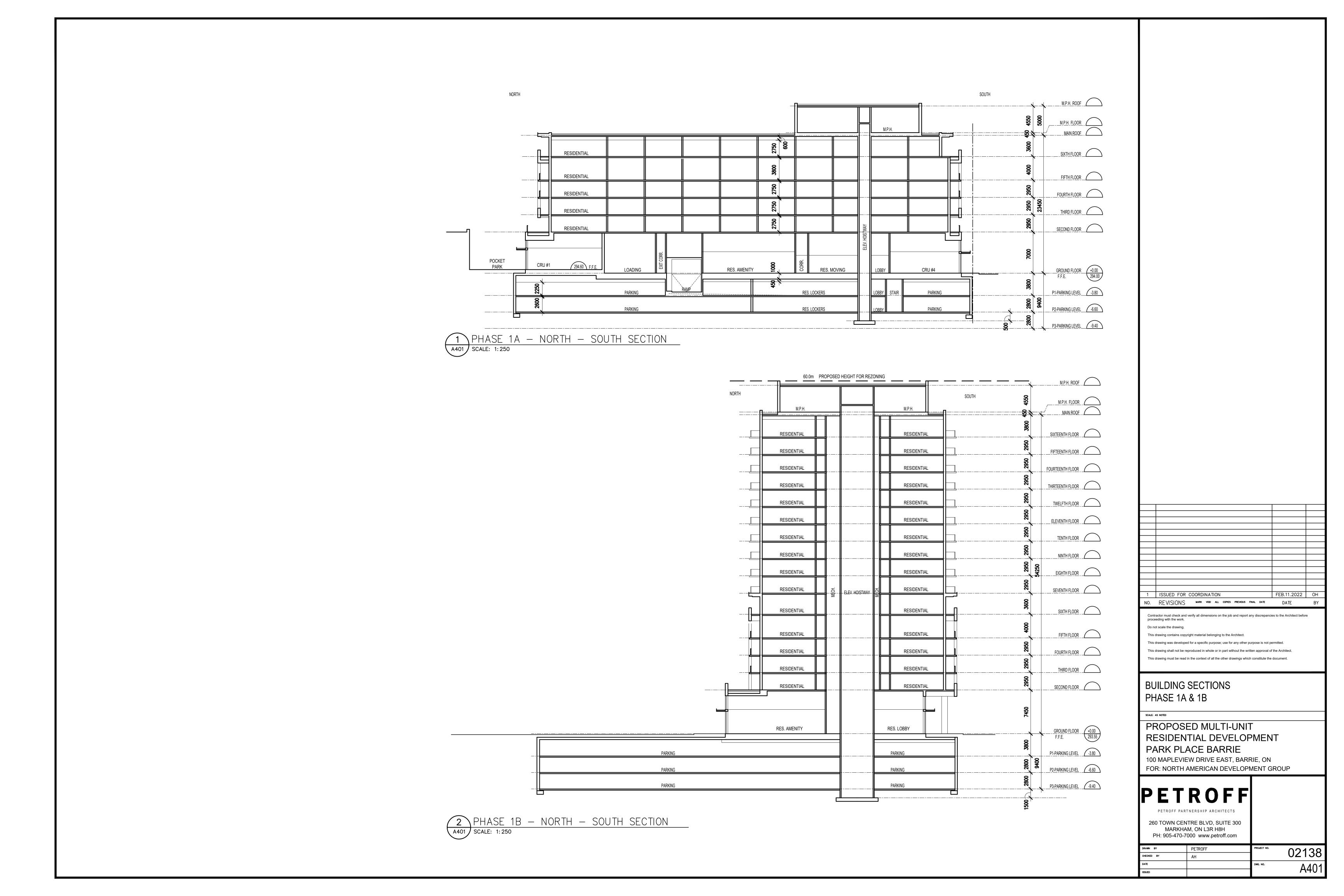
100 MAPLEVIEW DRIVE EAST, BARRIE, ON FOR: NORTH AMERICAN DEVELOPMENT GROUP

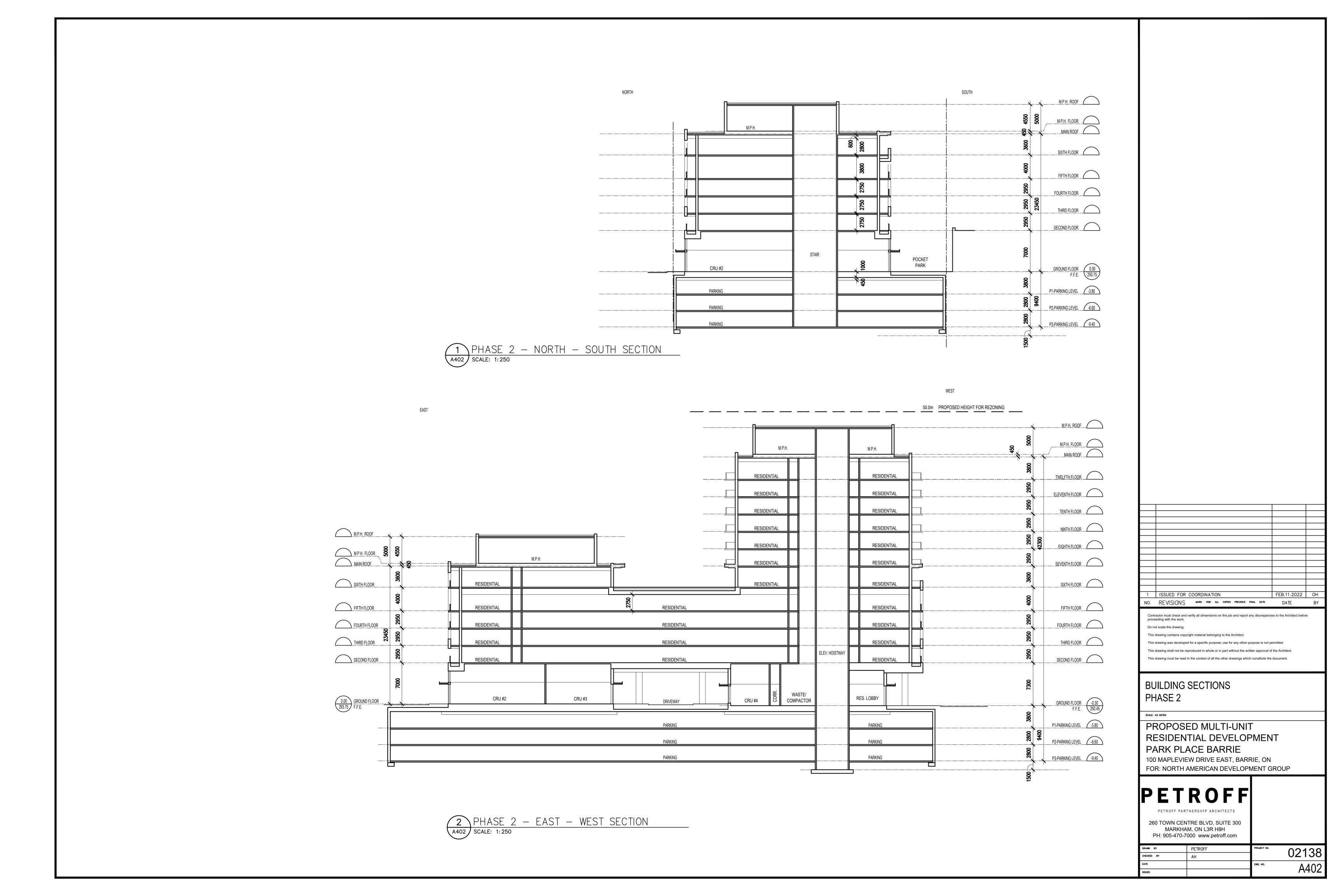
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02138 HECKED BY

4 BUILDING B NORTH ELEVATION A303 | SCALE: 1:300







Appendix B

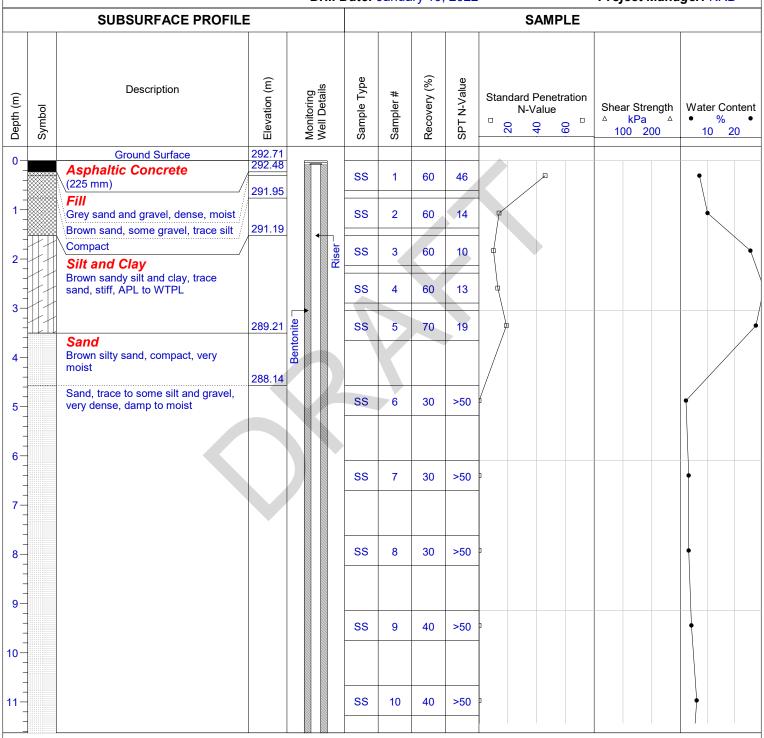


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 10, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 292.71 masl

Top of Casing Elevation: 292.60 masl



Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 10, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 292.71 masl

Top of Casing Elevation: 292.60 masl

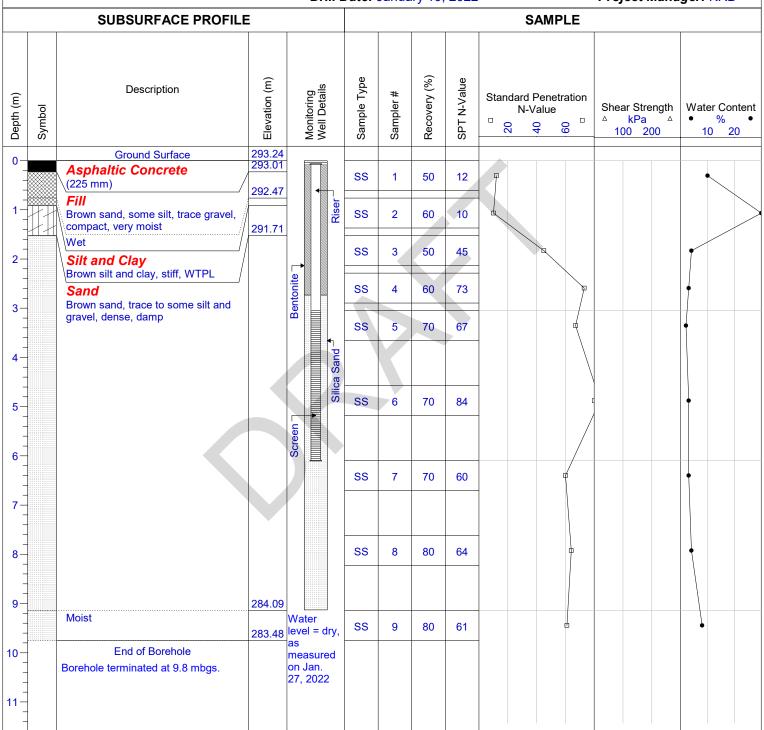


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 10, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.24 masl

Top of Casing Elevation: 293.14 masl



Project #: 296908.005 **Logged By:** KS

Project: Preliminary Geotechnical InvestigationClient: North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 12, 2022 Project Manager: KRD

Caround Surface 292.28 See Caround Surface Caround Surface 292.28 See Caround Surface Caround Surface Caround Surface 292.28 See Caround Surface Caround Surfa					Drill l	Date:	Janua	ıry 12,	2022		Project Mana	ger: KRD
Cround Surface 292.28 Asphaltic Concrete (17.5 mm) 291.52 SS 1 30 >50 SS 2 90 6 SS 3 50 6 SS 5 20 >50 SS 5 20 >50 SS 5 20 >50 SS 5 20 SS 20	SUBSURFACE PROFILE					SAMPLE						
Asphaltic Concrete (175 mm) Fill Grey sand and gravel, very dense, moist Brown silty sand, loose, wet 200.45 Silt and Clay From silt and day, trace sand and gravel, firm to stiff, APL to WTPL 289.23 Sand Brown sand, trace to some silt and gravel, occasional cobbles, very dense, damp Silt and Clay From Silt and Cl	Depth (m)	Symbol	Description		Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	N-Value	△ kPa △	Water Content
1	0-			292.28	*							
Grey sand and gravel, very dense, moist Brown silty sand, loose, wet 290.45 Silt and Clay Silt and clay, trace sand and gravel, occasional cobbles, very dense, damp Sand Brown sand, trace to some silt and gravel, occasional cobbles, very dense, damp SS 2 90 6 8 SS 3 50 6 SS 4 80 18 SS 5 20 >50 SS 6 60 >50 SS 7 70 81 SS 8 9 80 >50 SS 9 80 >50	-		\(175 mm)	291.52		SS	1	30	>50			
Sift and Clay Brown sitt and clay, trace sand and gravel, firm to stiff, APL to WTPL 289.23 Sand Brown sand, trace to some sitt and gravel, occasional cobbles, very dense, damp SS 6 60 >50 SS 7 70 81 SS 8 90 77 SS 9 80 >50 SS 9 80 S	1-	-	Grey sand and gravel, very dense, moist			SS	2	90	6			
Sand Brown sand, trace to some silt and gravel, occasional cobbles, very dense, damp SS 5 20 >50	2-			290.45		SS	3	50	6			
Sand Brown sand, trace to some silt and gravel, occasional cobbles, very dense, damp SS 5 20 >50 SS 5 20 >50 SS 6 60 >50 SS 7 70 81 SS 8 9 80 >50 SS 9 80 >50	3-		gravel, firm to stiff, APL to WTPL	289.23		SS	4	80	18			
4 - dense, damp	-	-	Brown sand, trace to some silt and			SS	5	20	>50			
8	4-	-	dense, damp		P							
8	5-	-			Installe	SS	6	60	>50			
8	6-	-			ing Well							
8	-	-			Monitor	SS	7	70	81			•
9- 10- 10-	7-	-			<u>8</u> 							
SS 9 80 >50 F	8-					SS	8	90	77			•
SS 9 80 >50 F	9-	-										
	-					SS	9	80	>50			•
11————————————————————————————————————	10-	-										
	11-	-				SS	10	80	83			
	-				<u> </u>							

Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: N/A

Grade Elevation: 292.28 masl

Top of Casing Elevation: N/A

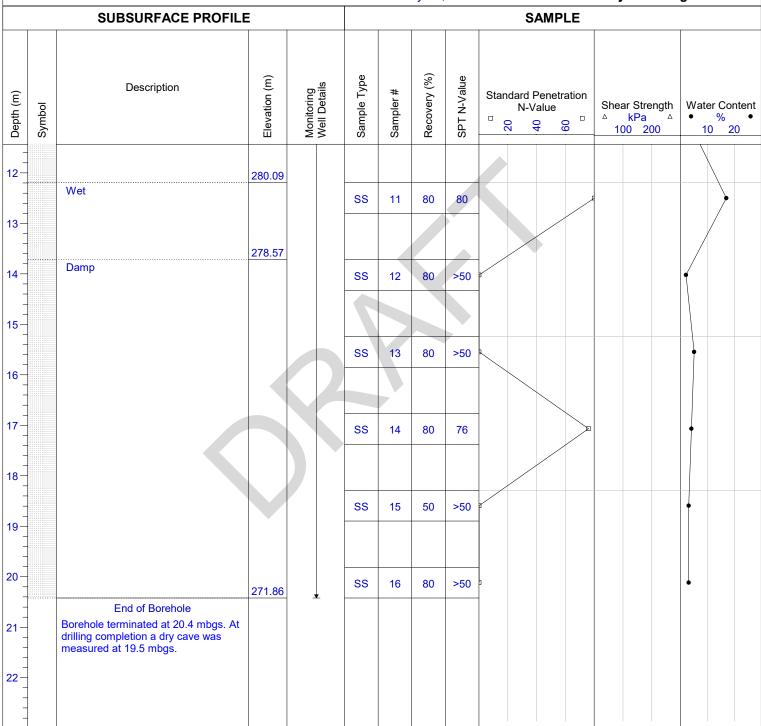


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 12, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: N/A

Grade Elevation: 292.28 masl

Top of Casing Elevation: N/A

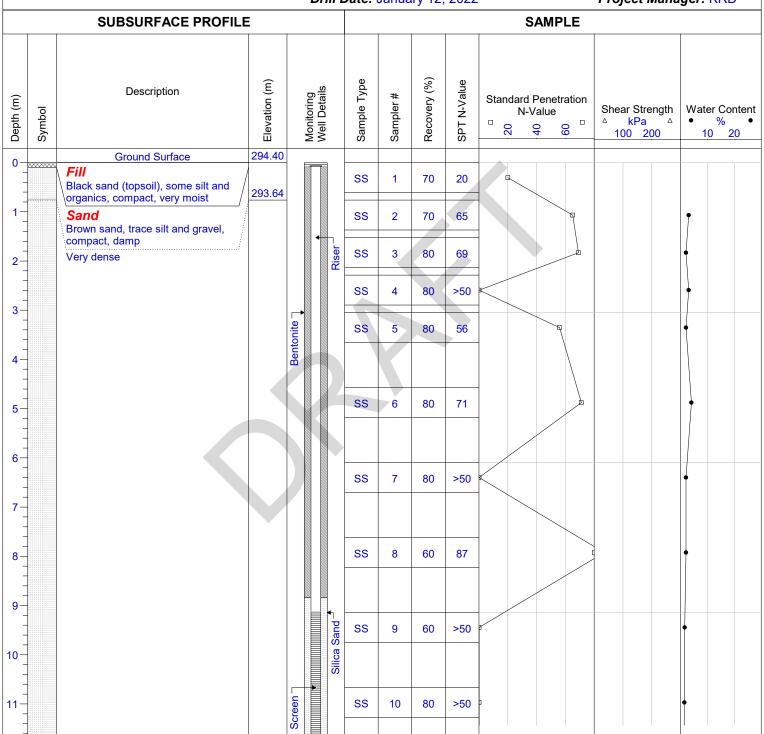


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 12, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 294.40 masl

Top of Casing Elevation: 295.23 masl



Project #: 296908.005 **Logged By:** KS

Project: Preliminary Geotechnical InvestigationClient: North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 12, 2022 Project Manager: KRD

	Drill Date: January 12, 2022 Project Manager: KRD							ger: KRD			
SUBSURFACE PROFILE					SAMPLE						
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength [△] kPa [△] 100 200	Water Content • % 10 20
12-				Water							
13-		End of Borehole Borehole terminated at 12.8 mbgs.	281.60	level = dry, as measured on Jan. 27, 2022.	SS	11	80	>50			
15-					1						
17-				K							
18-											
20 -											
22-											

Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 294.40 masl

Top of Casing Elevation: 295.23 masl

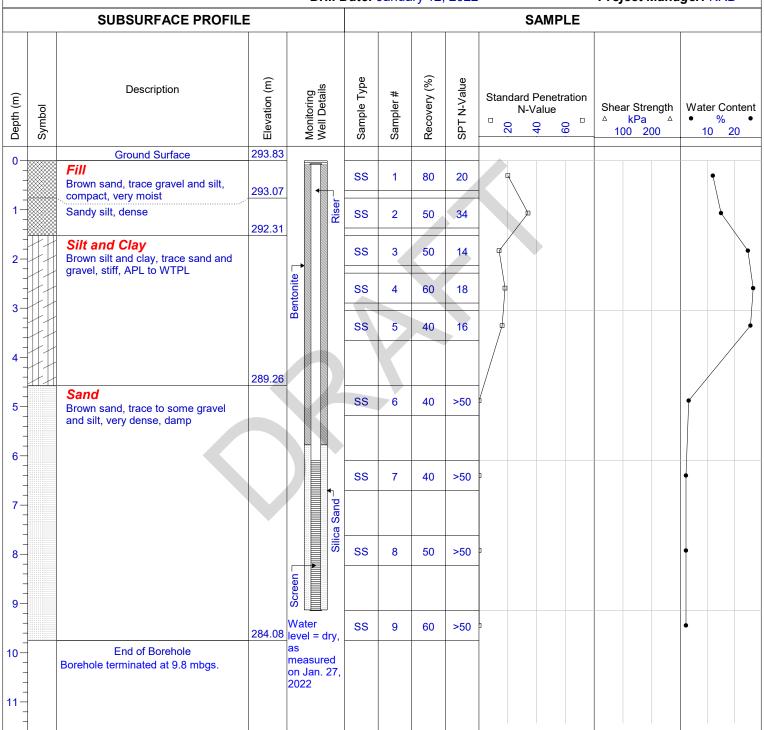


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 12, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.83 masl

Top of Casing Elevation: 294.63 masl

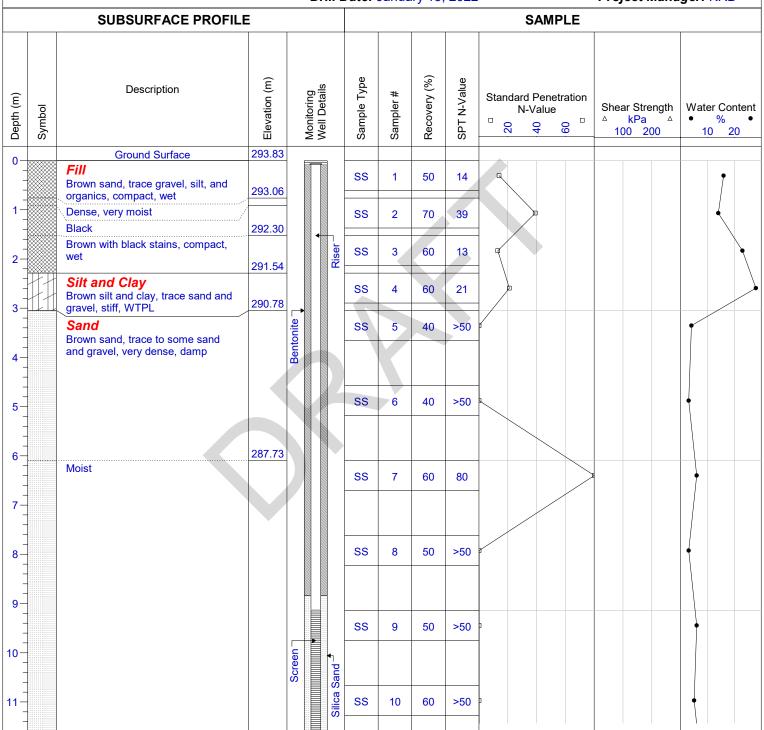


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 13, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.83 masl

Top of Casing Elevation: 294.61 masl

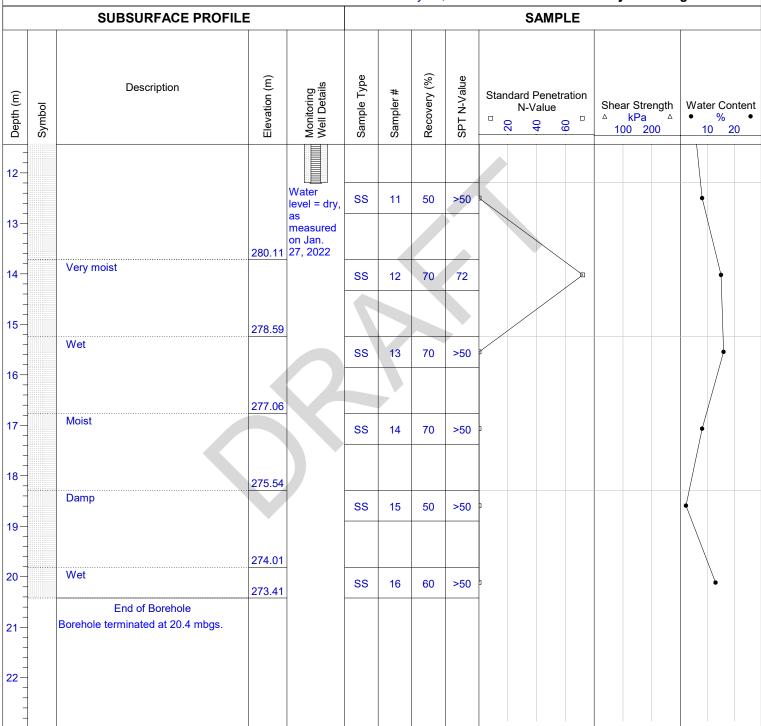


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 13, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.83 masl

Top of Casing Elevation: 294.61 masl



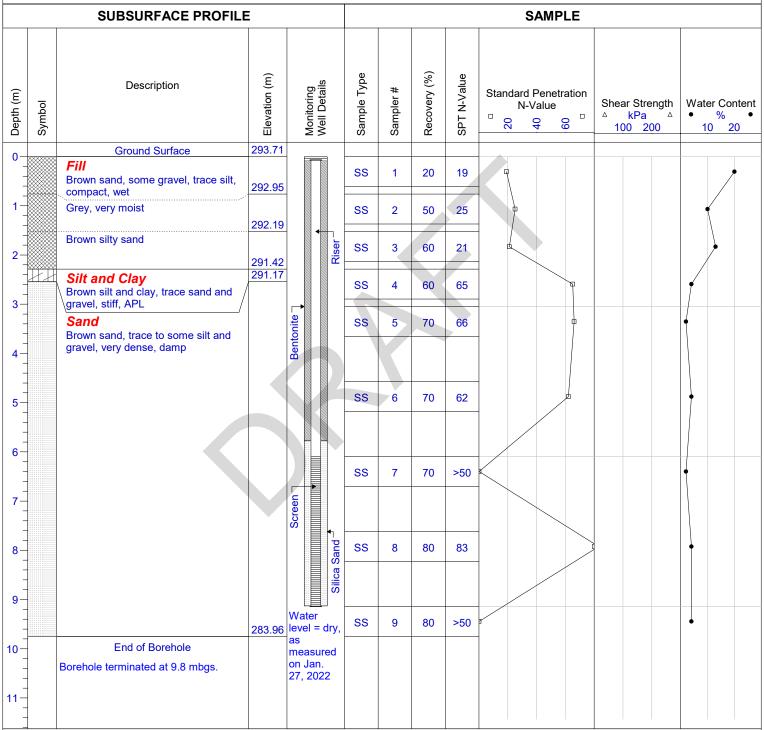
Log of Borehole: MW7 (Shallow)

Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 14, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.71 masl

Top of Casing Elevation: 294.52 masl



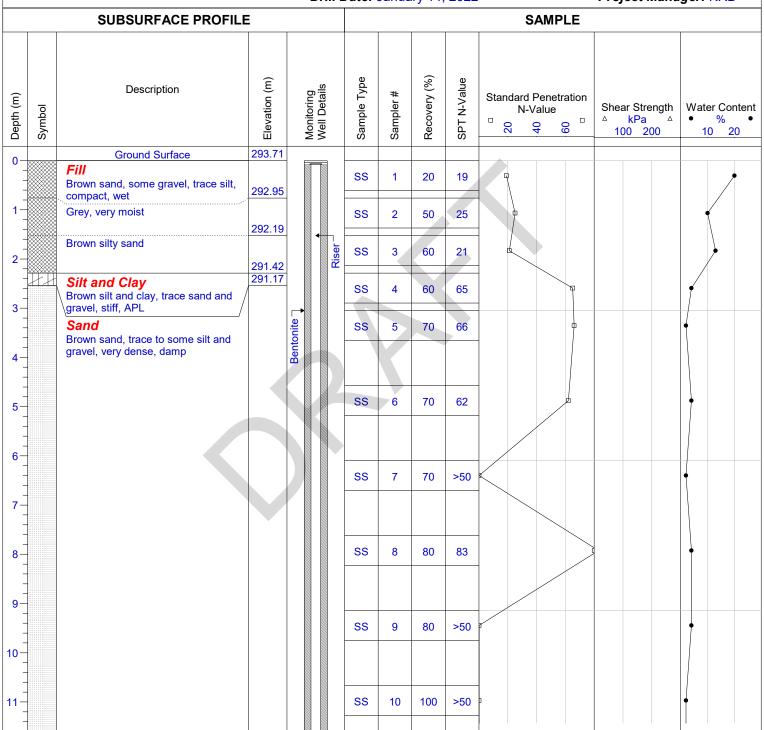
Log of Borehole: MW7 (Deep)

Project #: 296908.005 **Logged By:** KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 14, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.71 masl

Top of Casing Elevation: 294.56 masl



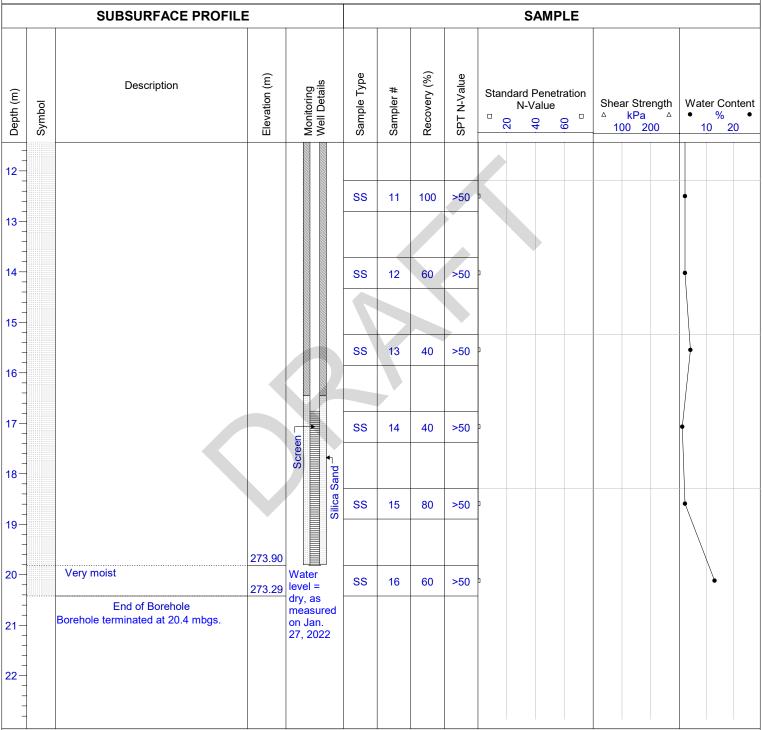
Log of Borehole: MW7 (Deep)

Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 14, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.71 masl

Top of Casing Elevation: 294.56 masl

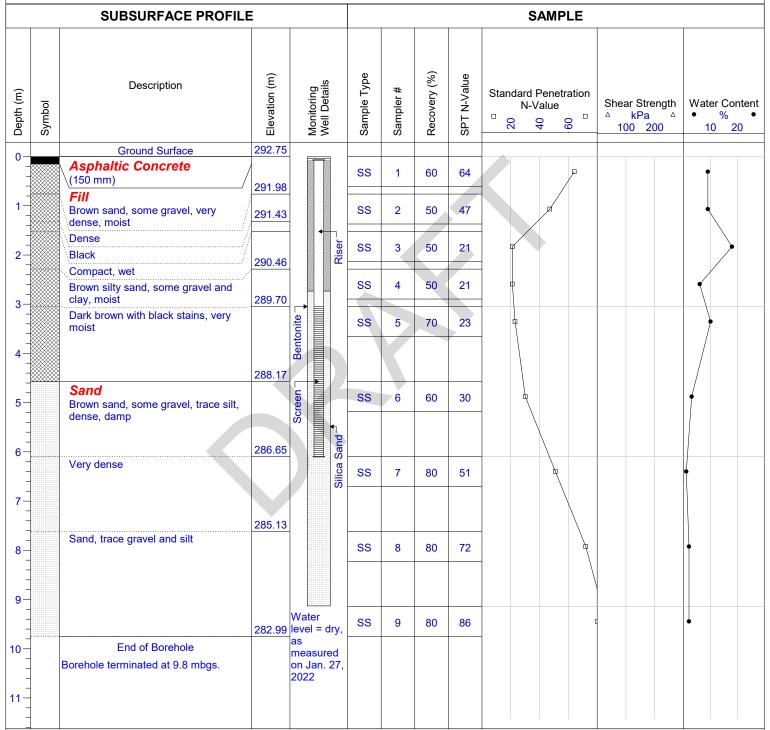


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 14, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 292.75 masl

Top of Casing Elevation: 292.65 masl



Project #: 296908.005 **Logged By:** KS

Project: Preliminary Geotechnical InvestigationClient: North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 14, 2022 Project Manager: KRD

	Drill Date: January 14, 2022 Project Manager: KRD										
SUBSURFACE PROFILE						SAMPLE					
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength [△] kPa [△] 100 200	Water Content • % • • 10 20
0-		Ground Surface	292.55	*							
-		Asphaltic Concrete (175 mm) Fill	291.78		SS	1	60	48			•
1-		Brown sand, some gravel, trace silt, dense, moist	291.02		SS	2	60	33			
2-		Very moist Wet	290.26		SS	3	60	15	E		}
3-		Black, very moist	289.50		SS	4	60	25			
-		Brown silty sand, trace gravel and organics		pe	SS	5	60	29			•
4-		_	287.97	No Monitoring Well Installed							
5-	-	Sand Brown sand, some gravel, compact, damp		W buind	SS	6	40	11			
6-			286.45	lo Monit	,						
-		Sand, trace to some silt and gravel, very loose			SS	7	80	2			
7-			284.93								
8-	-	Very dense			SS	8	70	80			
9-											
- 	-		282.79	•	SS	9	80	87			•
10-		End of Borehole Borehole terminated at 9.8 mbgs.									
11-											

Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: N/A

Grade Elevation: 292.55 masl

Top of Casing Elevation: N/A



Project #: 296908.005 **Logged By:** KS

Project: Preliminary Geotechnical InvestigationClient: North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 18, 2022 Project Manager: KRD

Drili Dat							Date: January 18, 2022 Project Manager: KRD						
SUBSURFACE PROFILE					SAMPLE								
Depth (m)	Symbol	Description	Elevation (m)	Monitoring Well Details	Sample Type	Sampler #	Recovery (%)	SPT N-Value	Standard Penetration N-Value	Shear Strength [△] kPa [△] 100 200	Water Content • % • 10 20		
0-		Ground Surface	292.96	*									
-	-	Asphaltic Concrete (125 mm)	292.50 292.20		SS	1	60	>50			•		
1-		Fill Brown sand, some gravel, very dense, moist	291.44		SS	2	80	27					
2-		Dark grey/black Brown, compact, very moist	290.52		SS	3	80	18					
3-	-	Sand, some gravel and silt, wet Sand Brown sand, some gravel, trace silt,	289.91		SS	4	60	31					
-		dense, damp Sand, trace gravel			SS	5	70	46			•		
4-	-		288.39	P									
5-		Very dense		Installe	SS	6	70	75			•		
6-			286.87	No Monitoring Well Installed	,								
-	-	Moist		Monitor	SS	7	70	65			•		
7-			285.34	8 									
8-		Damp			SS	8	60	77			•		
9-	-												
-	-				SS	9	70	>50					
10-	_												
11-					SS	10	80	>50					
	1		1	<u> </u>	1								

Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: N/A

Grade Elevation: 292.96 masl

Top of Casing Elevation: N/A

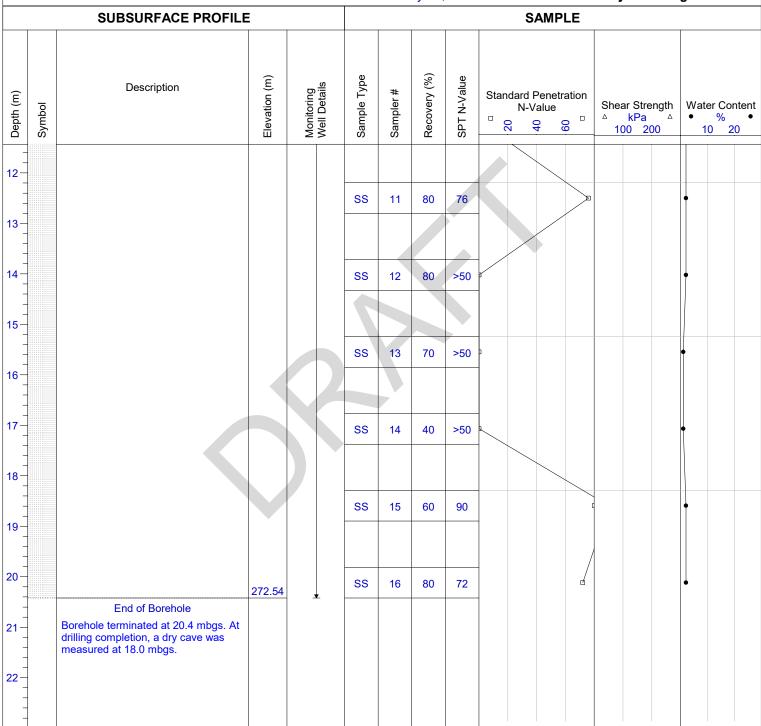


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 18, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: N/A

Grade Elevation: 292.96 masl

Top of Casing Elevation: N/A

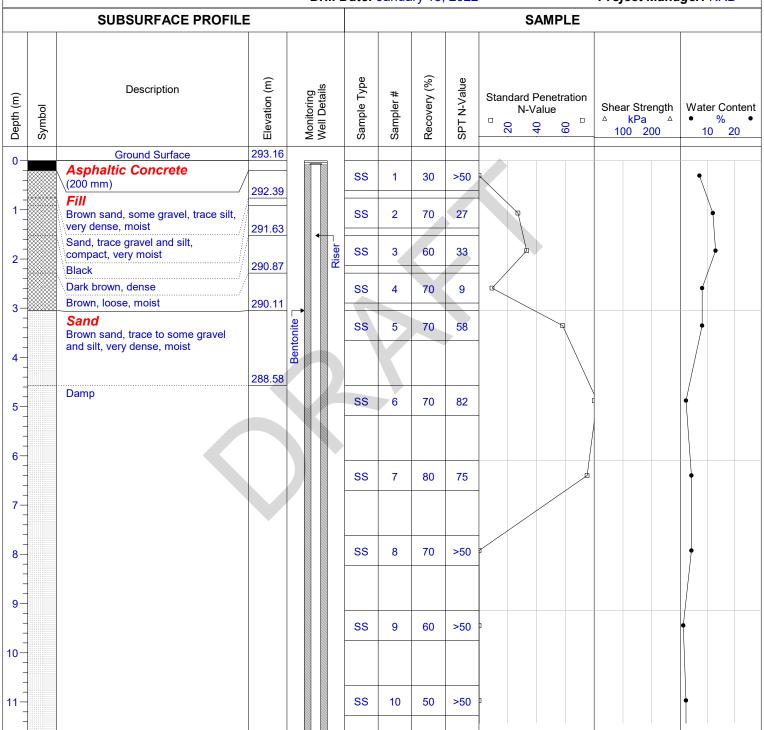


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 18, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

Grade Elevation: 293.16 masl

Top of Casing Elevation: 293.02 masl

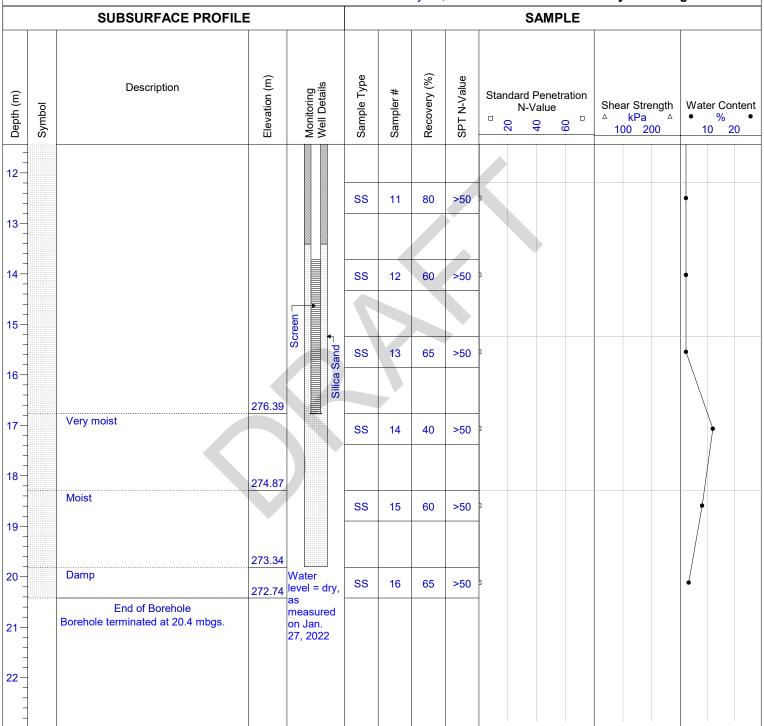


Project #: 296908.005 Logged By: KS

Project: Preliminary Geotechnical Investigation **Client:** North American Development Group

Location: 100 Mapleview Drive East, Barrie, Ontario

Drill Date: January 18, 2022 Project Manager: KRD



Contractor: Pontil Drilling Ltd.

Drilling Method: Split Spoon / Hollow Stem Auger

Well Casing Size: 51 mm

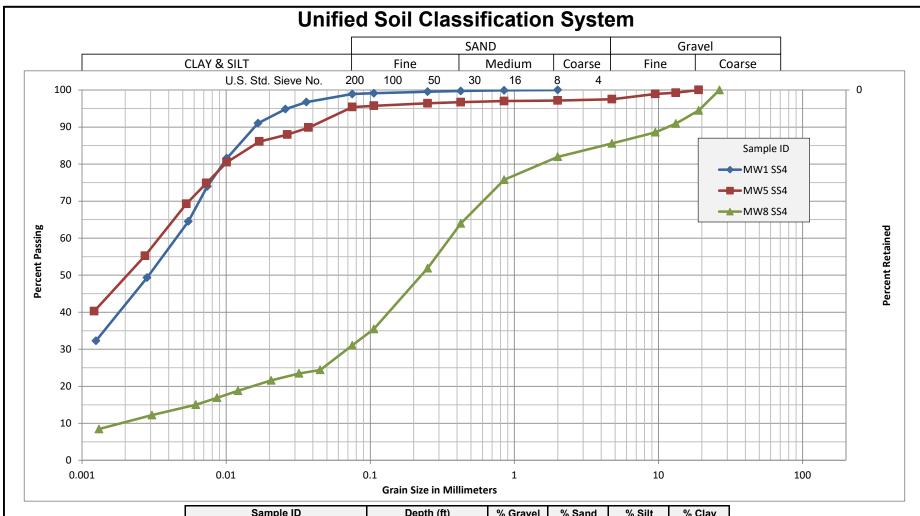
Grade Elevation: 293.16 masl

Top of Casing Elevation: 293.02 masl



Appendix C

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Sample ID	Depth (ft)	% Gravel	% Sand	% Silt	% Clay
MW1 SS4	7.5-9.5	0.0	1.1	58.9	40.0
MW5 SS4	7.5-9.5	3.0	1.6	47.4	48.0
MW8 SS4	7.5-9.5	14.0	55.0	21.0	10.0

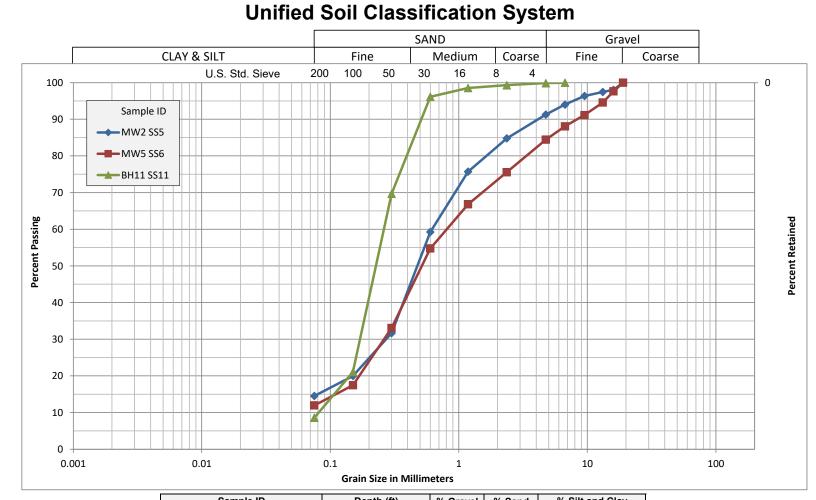


PARTICLE SIZE DISTRIBUTION ANALYSIS

Preliminary Geotechnical Investigation at 100 Mapleview Drive, Barrie, ON North American Development Group

Figure No. 2						
296908.005						
Reviewed By:						
More information available upon request						

in Waterloo - 225 Labrador Drive, Unit
1, Waterloo, Ontario N2K 4M8



Sample ID	Depth (ft)	% Gravel	% Sand	% Silt and Clay
MW2 SS5	10.0-12.0	8.7	76.8	14.5
MW5 SS6	15.0-17.0	15.6	72.5	11.9
BH11 SS11	40.0-42.0	0.1	91.2	8.6



Pinchin Waterloo - 225 Labrador Drive, Unit 1, Waterloo, Ontario N2K 4M8

PARTICLE SIZE DISTRIBUTION ANALYSIS

Preliminary Geotechnical Investigation 100 Mapleview Drive, Barrie, ON North American Development Group

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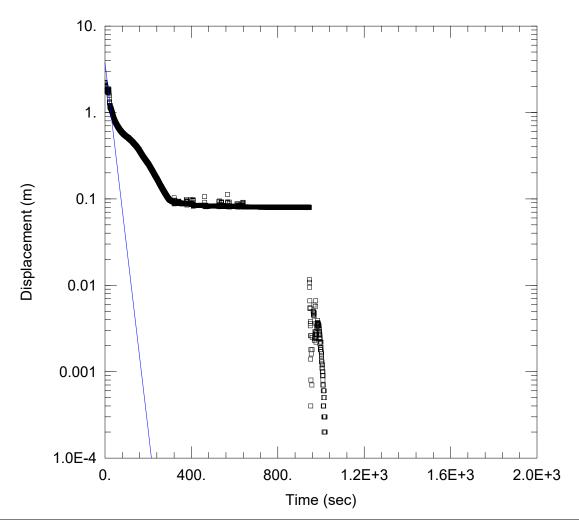
296908.005

Reviewed By:

More information available upon request



Appendix D



DRY BOREHOLE INFILTRATION TEST

Data Set: G:\...\BH2.aqt

Date: 03/09/22 Time: 16:02:22

PROJECT INFORMATION

Company: Palmer

Client: North American Development Gro

Project: 2005202

Location: Park Place, Barrie, ON

Test Well: BH2

Test Date: 2022-03-01

AQUIFER DATA

Saturated Thickness: 6. m Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH2)

Initial Displacement: 2.232 m

Total Well Penetration Depth: 3.05 m

Casing Radius: 0.0254 m

Static Water Column Height: <u>0.</u> m

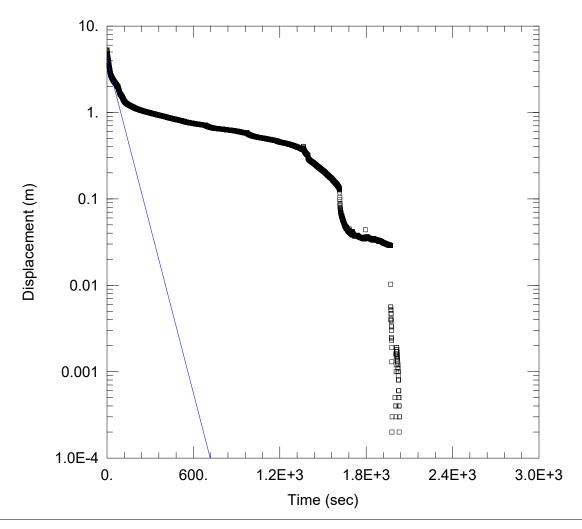
Screen Length: 3.05 m Well Radius: 0.0254 m Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Unconfined

Solution Method: Bouwer-Rice

K = 1.713E-5 m/sec y0 = 3.761 m



BOREHOLE INFILTRATION TEST ANALYSIS

Data Set: G:\...\BH8.aqt

Date: 03/09/22 Time: 16:02:36

PROJECT INFORMATION

Company: Palmer

Client: North American Development Gro

Project: 2005202

Location: Park Place, Barrie, ON

Test Well: BH8

Test Date: 2022-03-01

AQUIFER DATA

Saturated Thickness: 6. m Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (BH8)

Initial Displacement: 5.291 m

Total Well Penetration Depth: 3.05 m

Casing Radius: 0.0254 m

Static Water Column Height: <u>0.</u> m

Screen Length: 3.05 m Well Radius: 0.0254 m Gravel Pack Porosity: 0.

SOLUTION

Aquifer Model: Confined

Solution Method: Bouwer-Rice

K = 5.187E-6 m/sec y0 = 4.111 m