MGA

DRAWING LIST

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MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A000
COVER SHEET

PROJECT NARRATIVE

The Parkway Revitalization and Development is located at Pandora Avenue & Cook Street, at the site of what is known to the community as the Wellburns Building. Originally named Parkway apartments, the two-storey masonry building was constructed in 1911 by William Ridgway-Wilson. At the corner of the North Park neighbourhood, the building is a gateway feature to both the neighbourhood and the centre of Victoria.

The new development proposes a 4 & 6 storey volume stepping back from the existing heritage building to the north & west, and from Franklin Green Park to the south & east. 103 purpose-built rental apartments are proposed with a retail / commercial space being maintained on the existing ground floor of the Wellburn's Building and the addition of a cafe space in the ground floor of the new addition facing Cook Street. A mews separating the historic and modern buildings at street level serves as the residential entrance to the building and provides access to a west facing courtyard. Public access to and from Franklin Green Park is provided through a wide pedestrian walkway along the north edge of the site. One level of underground parking will be provided below the project site.

A priority of the project is to conserve the heritage value of the Wellburn's building through retaining 50% of the existing volume, including the historic facades facing Pandora Ave & Cook St and the north-east wall facing the residential mews. All character-defining elements in these locations will be preserved along with any in-kind repairs, as required. The original use of the building will remain with opportunities for multiple retail spaces on the ground floor & residential suites above. The building will be Designated Heritage with the Heritage Registry.

The new development will be clad in a large format, pearl coloured, ultra high performance concrete panel. It will borrow elements from its historic counterpart, including the running bond pattern of the glazed white brick, the rhythm, proportion & angles of the projecting oriel windows and the recessed entryways of the existing storefronts.

To create a strong visual connection with the surrounding context, juliet balconies will be provided in the living spaces of the suites directly facing Franklin Green Park & Harris Green Park. An accessible roof deck will also be provided for all residential tenants of the building, facing onto Franklin Green Park.

PROJECT NAME
Parkway

PROJECT ADDRESS
1050 Pandora Ave + 1518 Cook Street

LEGAL DESCRIPTION
Lots 1 and 2, Suburban Lot 15, Victoria, VIP73211

PROJECT TEAM

OWNER
Pandora Cook Development Corp.
District Developments Corp.
200- 8809 Heather Street, Vancouver, BC, V6P 3T1

Primary Contact	Andrew Rennison
	604-736-1866

AGENT
DISTRICT DEVELOPMENTS CORP.
200- 8809 Heather Street, Vancouver, BC, V6P 3T1

Primary Contact	Jessica Gibson
	604-322-5762

ARCHITECT
MGA | Michael Green Architecture
1535 West 3rd Avenue, Vancouver, BC, V6J 1J8

Architect	Michael Green
Contact	Jordan Van Dijk
	604-336-4770

PROPOSED ZONING
New Site-Specific Zone
Changed from R-2 (Two Family Dwelling District) at 1518 Cook Street, and CA-1 (Pandora Avenue Special Commercial District) at 1050 Pandora Avenue.

SITE AREA
2879 m^2

AVERAGE GRADE
27.54m (See A004 for average grade calculations)
Note that the project ground floor is set at a geodetic elevation of 27.56m and building levels are dimensioned from that elevation.

PROPOSED HEIGHT
20.22 m taken from average grade. Note that 321mm parapet is excluded from proposed height.

ALLOWABLE HEIGHT
30m/ 8-10 storeys per OCP

APPLICABLE BUILDING CODE
BCBC 2018

STREETS FACING
Pandora Avenue to the South
Cook Street to the East

OCCUPANCY CLASSIFICATIONS
3.2.2.50. Group C, up to 6 Storeys,
Sprinklered- Residential Occupancies
3.2.2.50. Group E, up to 6 Storeys,
Sprinklered- Mercantile Occupancies,
Located below the third storey.
3.2.2.82 Group F, Division 3, Up to 6 Storeys,
Sprinklered- Below Grade Parkade.

1 **SITE LOCATION PLAN**
A001 1:1000

AREA CALCULATIONS

LEVEL 0	2,713.6	m2
LEVEL 1	1832.82	m2
LEVEL 2	1990.02	m2
LEVEL 3	1408.55	m2
LEVEL 4	1399.30	m2
LEVEL 5	921.02	m2
LEVEL 6	860.58	m2
PROPOSED FSR	**8,412.3**	**m2**
ALLOWABLE FSR	9,330	m2
PROPOSED FSR RATIO	**2.9**	
ALLOWABLE FSR RATIO	3.3	

UNIT TYPES	No#	%
STUDIO	4	4%
STUDIO & DEN	7	7%
1 BED	53	51%
1 B & DEN	24	23%
2 BED	11	11%
2 BED & DEN	4	4%
TOTAL	103	

PROPOSED HEIGHT
20.221m

TOTAL RESIDENTIAL AREA
5884 m2

TOTAL RESIDENTIAL UNITS
103

TOTAL PARKING SPACES
44 PROVIDED
93 REQUIRED

TOTAL COMMERCIAL AREA
1054 m2

888.1	m2	RETAIL
165.7	m2	CAFÉ
55.6	m2	OUTDOOR SEATING

ORIGINAL HERITAGE BUILDING AREA
1891.9m2

TOTAL AREA TO BE RETAINED
947.6m2 | 50%

TOTAL BIKE PARKING
172

154	SHORT-TERM
18	LONG-TERM

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2					1		1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 B&D A	61.5	1						1
1 B&D B	51.6				1			1
1 B&D C	62.2	1	2	2	2			7
1 B&D D	59.1		1					1
1 B&D E	51.4				1		1	2
1 B&D F	54.2			1		1		2
1 B&D G	51.0				1			1
1 B&D H	58.0		1					1
1 B&D I	62.2		1	1	1			3
1 B&D J	93.9		1					1
1 B&D K	81.2		1					1
1 B& D L	73.0	2						2
1 B&D M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 B&D A	90.8		1					1
2 B&D B	96.1			1	1			2
2 B&D C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

PARKING CALCULATIONS

RESIDENTIAL PARKING

	Parking Rate	# of Units	Required	Provided
<45m2	0.50	5	2.5	3
45-70m2	0.60	85	51.0	23
>70m2	1.00	13	13.0	7
		TOTAL RESIDENTIAL PARKING	67	33

VISITOR PARKING	Parking Rate	# of Units		
Visitor Parking	0.10	103	10	4

COMMERCIAL PARKING

		Total Area (m2)		
Retail/ Grocery	1/ 80m2	888	11	2
Restaurant	1/ 40m2	221.7	6	3
		TOTAL COMMERCIAL PARKING	17	5
CARSHARE PARKING				
Modo Carshare Parking Stalls				2
		TOTAL PARKING	**93**	**44**

BIKE PARKING | LONG TERM

		# of Units		
Residential	1 / unit <45m2	5	5	20
	1.25/unit >45m2	98	123	122
		Total Area (m2)		
Restaurant	1/ 400m2	221.7	1	6
Retail/ Grocery	1/ 200m2	888	5	6
		TOTAL LONG TERM BIKE PARKING	**133**	**154**
		FLOOR-MOUNTED RACKS		78
		FLOOR-MOUNTED CARGO RACKS		40
		WALL-MOUNTED RACKS		36

BIKE PARKING | SHORT TERM

		Total Area (m2)	Total Units		
Residential	.1 /unit	-	103	10	10
Restaurant	1/ 100m2	221.7		3	3
Retail/ Grocery	1/ 200m2	888		5	5
		TOTAL SHORT TERM BIKE PARKING		**18**	**18**

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MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

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PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A001
PROJECT DESCRIPTION

SYMBOL LEGEND

Symbol	Description
LS	LIGHT STANDARD
1' 3 3/4" [0.40m] BIRCH	TREE (TYPE & DIAMETER)
	FIRE HYDRANT
	WATER VALVE
	WATER MAIN
52' 3 9/16" [15.94m]	CATCH BASIN & ELEVATION @ RIM
	MANHOLE
	GAS METER
	BOLLARD
UP	UTILITY POLE
MW	MONITORING WELL
	UTILITY POLE ANCHOR
52' 3 9/16" [15.94m]+	SURVEYED GEODETIC SPOT ELEVATION
EL. -1'-0" [-305mm] GEO. 52' [15.85m]	PROPOSED GRADE

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

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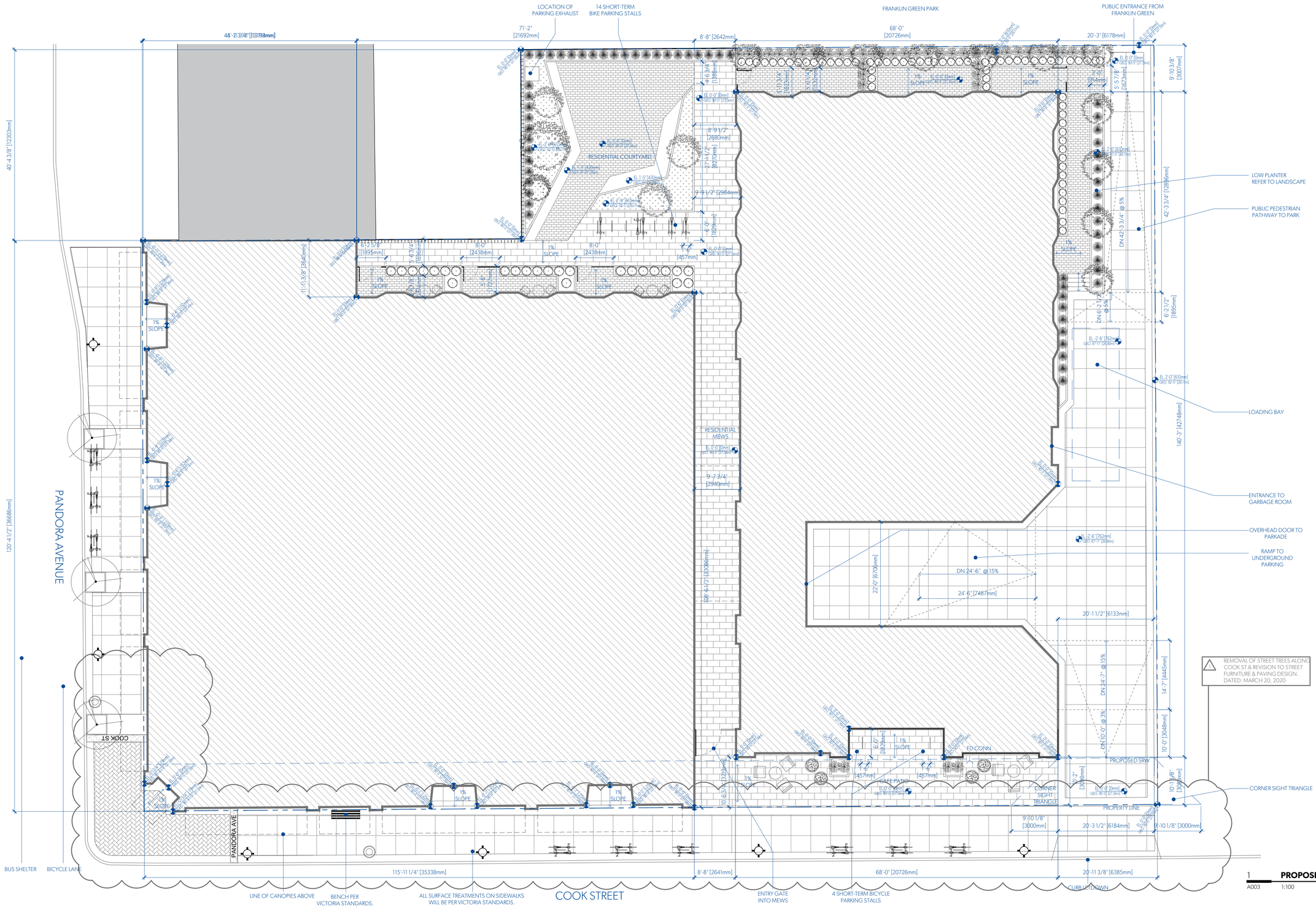
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

1 **EXISTING SITE PLAN**
A002 1:100

A002
EXISTING SITE PLAN



1 **PROPOSED SITE PLAN**
A003 1:100

MGA

PROJECT INFORMATION TABLE

ZONE	NEW SITE SPECIFIC ZO CORE RESIDENTIAL	
SITE AREA	2879.0	m2
TOTAL FLOOR AREA	8412	m2
COMMERCIAL FLOOR AREA	1054	m2
FLOOR SPACE AREA	3.3	
SITE COVERAGE	70%	
OPEN SITE SPACE	22%	
HEIGHT OF BUILDING	20.22 m	
NUMBER OF STOREYS	6	
PARKING STALLS ON SITE	44	
TOTAL BICYCLE PARKING	172	
LONG-TERM FLOOR MOUNTED	78	
LONG-TERM WALL MOUNTED	36	
LONG-TERM CARGO	40	
SHORT-TERM BIKE PARKING	18	
EXISTING BUILDING SETBACK		
EAST	0m	
SOUTH	0m	
NORTH	29.78m	
WEST (ADJOINING SOUTH PL)	0m	
WEST (ADJOINING NORTH PL)	12.04m	
PROPOSED BUILDING SETBACK		
EAST (FROM 6 STOREY VOL.)	13.13m	
EAST (FROM 4 STOREY VOL.)	3.08m	
SOUTH (FROM 6 STOREY VOL.)	4.01m	
SOUTH (FROM 4 STOREY VOL.)	38.04m	
NORTH (FROM 6 STOREY VOL.)	7.6m	
NORTH (FROM 4 STOREY VOL.)	6.18m	
WEST (FROM 6 STOREY VOL.)	3.33m, 15.9m	
WEST (FROM 4 STOREY VOL.)	2.96m	
RESIDENTIAL USE DETAILS		
TOTAL NUMBER OF UNITS	103	
UNIT TYPE		
STUDIO	4	
STUDIO & DEN	7	
1 BED	53	
1 B & DEN	24	
2 BED	11	
2 BED & DEN	4	
GROUND-ORIENTATED UNITS	8	
MINIMUM UNIT FLOOR AREA	36.2 m2	(1 BED H)
TOTAL RESIDENTIAL FLOOR AREA	5884	m2

SYMBOL LEGEND

- LS — LIGHT STANDARD
- 3 3/4" [0.40m] BIRCH — TREE (TYPE & DIAMETER)
- FIRE HYDRANT
- WATER VALVE
- WATER MAIN
- 52' 3 9/16" [15.94m] — CATCH BASIN & ELEVATION @ RIM
- MH — MANHOLE
- GM — GAS METER
- BOLLARD
- UP — UTILITY POLE
- MW — MONITORING WELL
- UTILITY POLE ANCHOR
- 52' 3 9/16" [15.94m] — SURVEYED GEODETIC SPOT ELEVATION
- EL -1'-0" [305mm] GEO 90°-0" [27.56m] — PROPOSED GRADE

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

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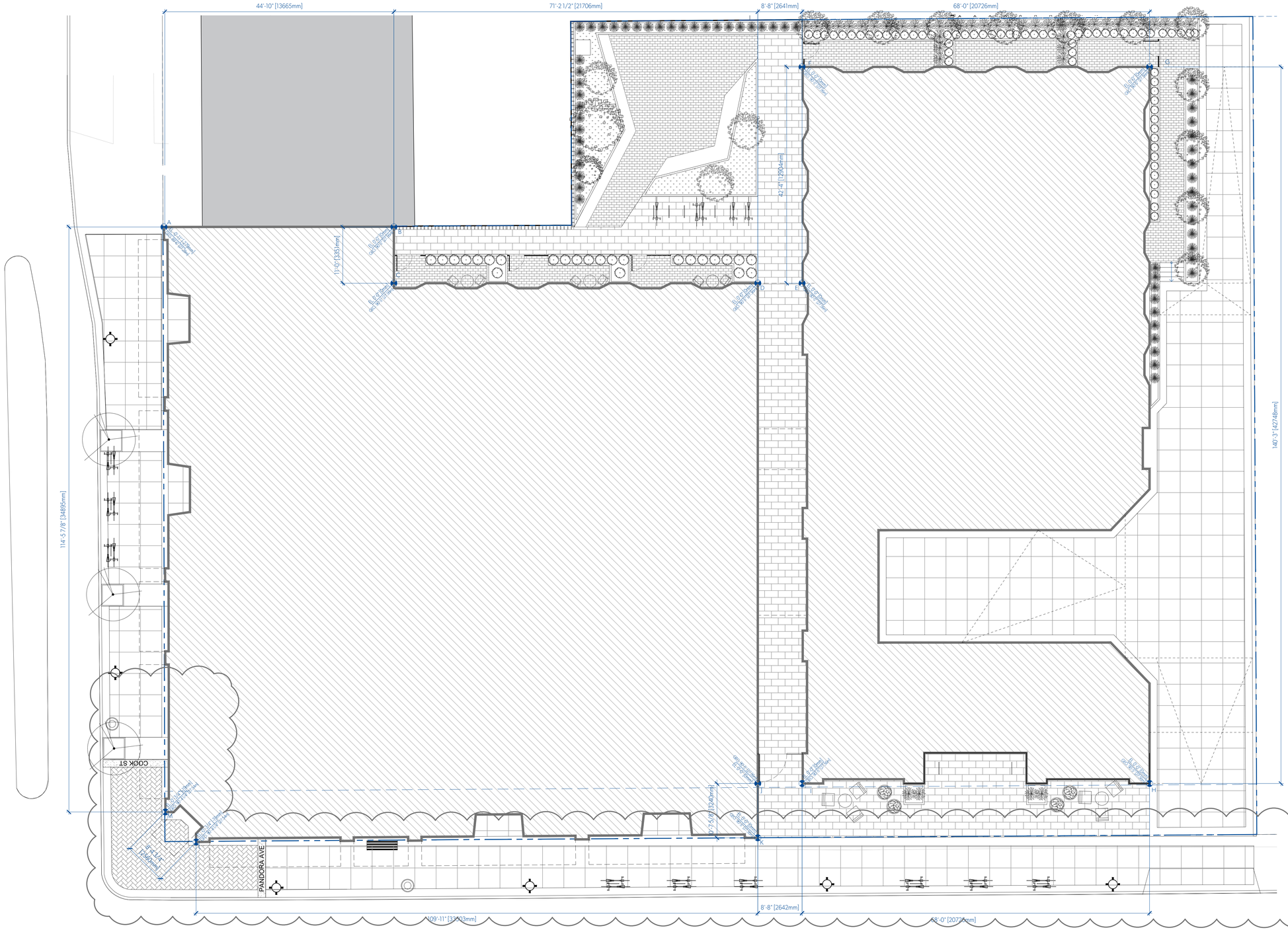
2018-001

A003
PROPOSED SITE PLAN



REMOVAL OF STREET TREES ALONG COOK ST & REVISION TO STREET FURNITURE & PAVING DESIGN. DATED: MARCH 20, 2020

1 **AVERAGE GRADE CALC.**
A004 1:100

MGA

AVERAGE GRADE CALCULATIONS

GRADE POINTS		x DIST. BETWEEN PTS			TOTAL
POINTS A & B	(27.28m + 27.56m)	x 0.5	x 13.65m	=	374.28
POINTS B & C	(27.56m + 27.56m)	x 0.5	x 3.40m	=	93.81
POINTS C & D	(27.56m + 27.56m)	x 0.5	x 21.71m	=	598.33
POINTS D& E	(27.56m + 27.56m)	x 0.5	x 2.64m	=	72.76
POINTS E & F	(27.56m + 27.56m)	x 0.5	x 12.90m	=	355.63
POINTS F & G	(27.56m + 27.56m)	x 0.5	x 20.73m	=	571.21
POINTS G & H	(27.56m + 27.56m)	x 0.5	x 42.75m	=	1178.13
POINTS H & I	(27.56m + 27.56m)	x 0.5	x 20.73m	=	571.21
POINTS I & J	(27.56m + 27.56m)	x 0.5	x 2.64m	=	72.76
POINTS J & K	(27.56m + 27.56m)	x 0.5	x 3.24m	=	89.29
POINTS K & L	(27.56m + 27.54m)	x 0.5	x 33.50m	=	922.93
POINTS L & M	(27.54m + 27.54m)	x 0.5	x 2.56m	=	70.50
POINTS M & A	(27.54m + 27.28m)	x 0.5	x 34.90m	=	956.61
TOTAL					5927.45

BLDG PERIMETER
TOTAL= 215.34m

AVG GRADE = 5927.45/215.34m=**27.54m**

MICHAEL GREEN ARCHITECTURE
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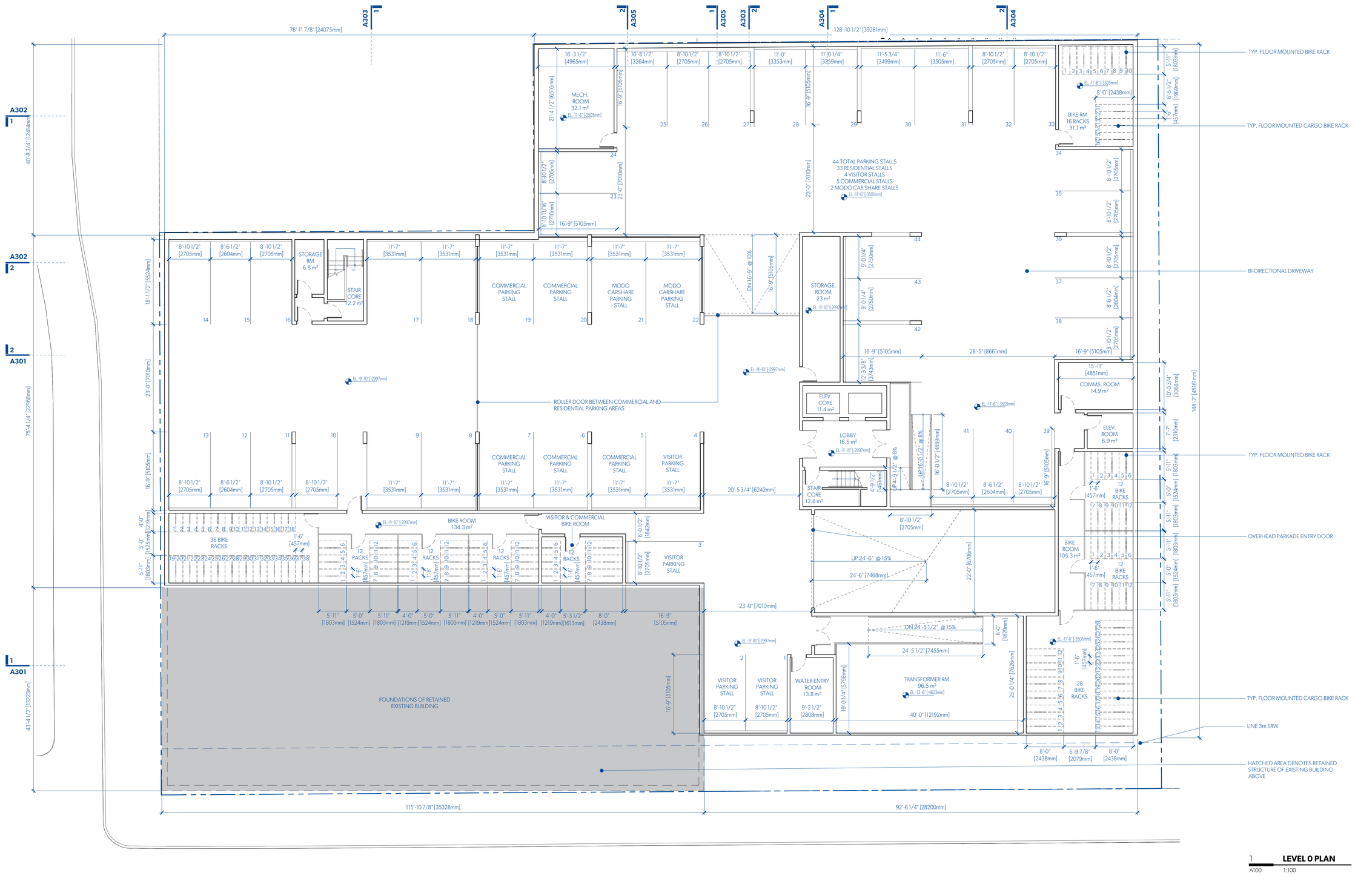
A004
AVERAGE GRADE CALC.



1 **LEVEL 0 PLAN**
A100 1:100

MGA

PARKING CALCULATIONS

RESIDENTIAL	Parking Rate	# of Units	Stalls req'd / Stalls prov'd
<45m2	0.50	5	3 / 3
45-70m2	0.60	85	51 / 23
>70m2	1.00	13	13 / 7
TOTAL RESIDENTIAL PARKING			67 / 33
VISITOR	Parking Rate	# of Units	Stalls req'd / Stalls prov'd
Visitor Parking	0.10	103	10 / 4
COMMERCIAL	Parking Rate	Area (m2)	Stalls req / Stalls prov'd
Retail/Grocery	1/ 80m2	888	11 / 2
Restaurant	1/ 40m2	222	6 / 3
TOTAL COMMERCIAL PARKING			17 / 5
CAR SHARE			Stalls prov'd
Modo Car Share			2
TOTAL PARKING			**93 / 44**

BICYCLE PARKING | LONG TERM

RESIDENTIAL	Parking Rate	# of Units	Stalls req'd	Stalls prov'd
	1 / unit <45m2	5	5	20
	1.25 / unit >45m2	98	123	122
		area (m2)		
RESTAURANT	1/ 400m2	221.7	1	6
RETAIL/GROCERY	1/ 200m2	888	5	6
TOTAL LONG TERM BIKE PARKING			**133**	**154**
FLOOR MOUNTED RACKS				78
FLOOR MOUNTED CARGO RACKS				40
WALL MOUNTED RACKS				36

BICYCLE PARKING | SHORT TERM

	Parking Rate	area (m2)	Stalls req'd	Stalls prov'd
RESIDENTIAL	.1 / unit		10	10
RESTAURANT	1/ 100m2	222	3	3
RETAIL/GROCERY	1/ 200m2	888	5	5
TOTAL SHORT TERM BIKE PARKING			**18**	**18**

MICHAEL GREEN ARCHITECTURE
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1050 PANDORA AVE + 1518 COOK STREET
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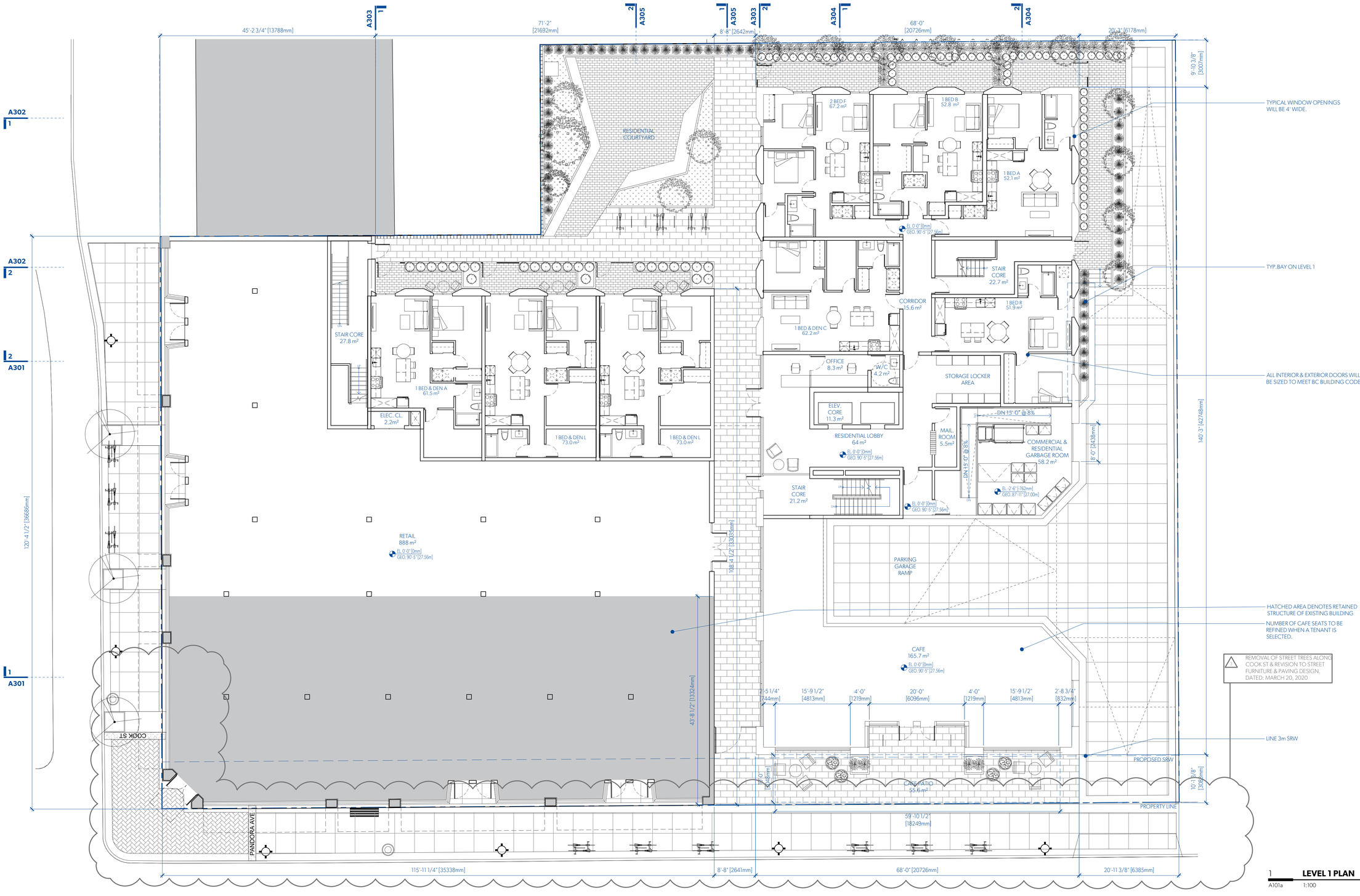
2018-001

A100
LEVEL 0 PLAN



1 **LEVEL 1 PLAN**
A101a 1:100

MGA

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2					1		1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 BED A	61.5	1						1
1 BED B	51.6				1			1
1 BED C	62.2	1	2	2	2			7
1 BED D	59.1		1					1
1 BED E	51.4				1		1	2
1 BED F	54.2			1		1		2
1 BED G	51.0				1			1
1 BED H	58.0		1					1
1 BED I	62.2		1	1	1			3
1 BED J	93.9		1					1
1 BED K	81.2		1					1
1 BED L	73.0	2						2
1 BED M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 BED A	90.8		1					1
2 BED B	96.1			1	1			2
2 BED C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A101
LEVEL 1 PLAN

1 **LEVEL 2 PLAN**
A102 1:100

MGA

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2					1		1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 B&D A	61.5	1						1
1 B&D B	51.6					1		1
1 B&D C	62.2	1	2	2	2			7
1 B&D D	59.1		1					1
1 B&D E	51.4				1		1	2
1 B&D F	54.2			1		1		2
1 B&D G	51.0				1			1
1 B&D H	58.0		1					1
1 B&D I	62.2		1	1	1			3
1 B&D J	93.9		1					1
1 B&D K	81.2		1					1
1 B& D L	73.0	2						2
1 B&D M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 B&D A	90.8		1					1
2 B&D B	96.1			1	1			2
2 B&D C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

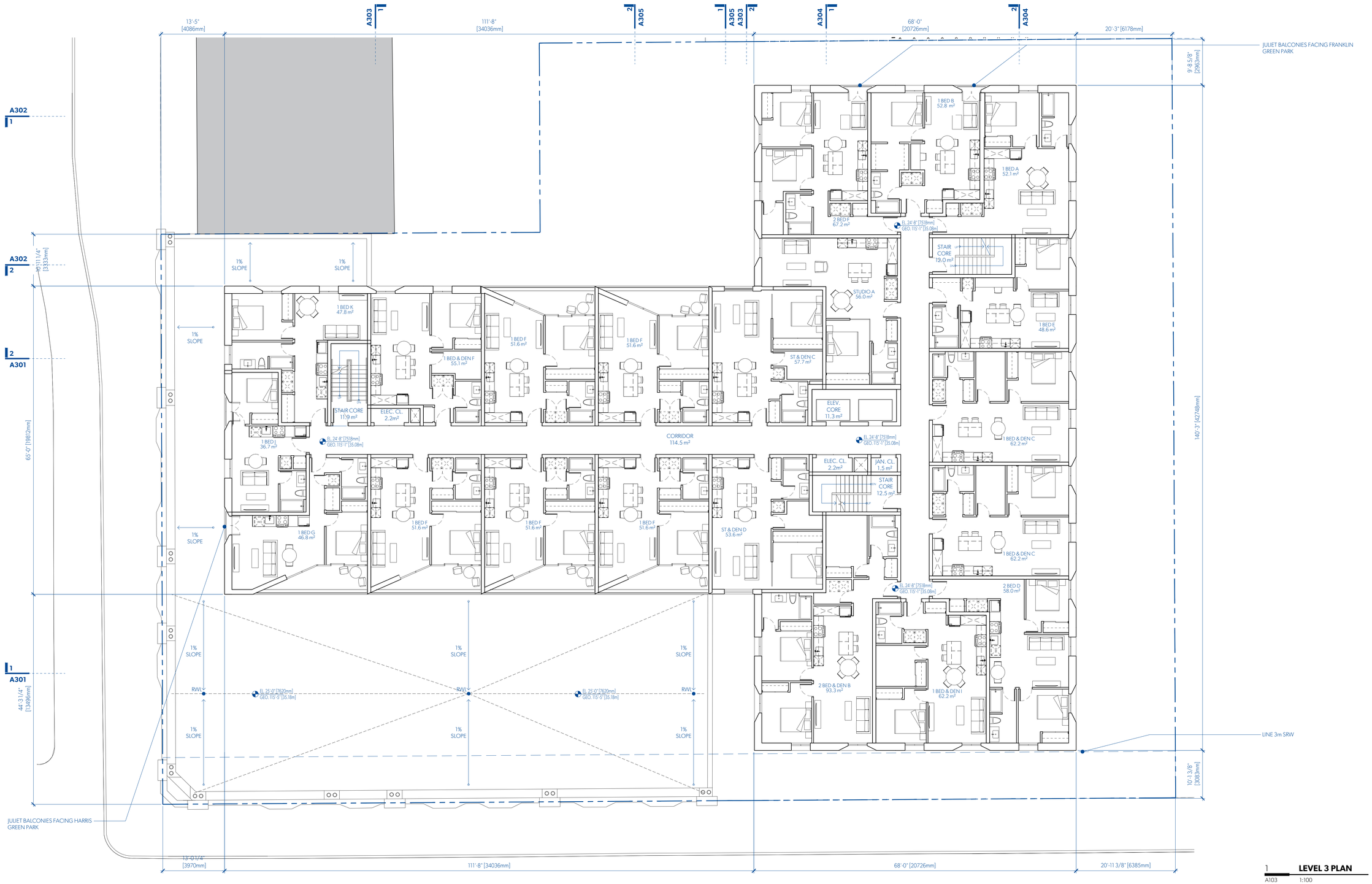
85° N

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A102
LEVEL 2 PLAN



1 **LEVEL 3 PLAN**
A103 1:100

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2					1		1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 B&D A	61.5	1						1
1 B&D B	51.6				1			1
1 B&D C	62.2	1	2	2	2			7
1 B&D D	59.1		1					1
1 B&D E	51.4				1		1	2
1 B&D F	54.2			1		1		2
1 B&D G	51.0				1			1
1 B&D H	58.0		1					1
1 B&D I	62.2		1	1	1			3
1 B&D J	93.9		1					1
1 B&D K	81.2		1					1
1 B& D L	73.0	2						2
1 B&D M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 B&D A	90.8		1					1
2 B&D B	96.1			1	1			2
2 B&D C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A103
LEVEL 3 PLAN

MGA

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2					1		1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 B&D A	61.5	1						1
1 B&D B	51.6					1		1
1 B&D C	62.2	1	2	2	2			7
1 B&D D	59.1		1					1
1 B&D E	51.4				1		1	2
1 B&D F	54.2			1		1		2
1 B&D G	51.0				1			1
1 B&D H	58.0		1					1
1 B&D I	62.2		1	1	1			3
1 B&D J	93.9		1					1
1 B&D K	81.2		1					1
1 B& D L	73.0	2						2
1 B&D M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 B&D A	90.8		1					1
2 B&D B	96.1			1	1			2
2 B&D C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

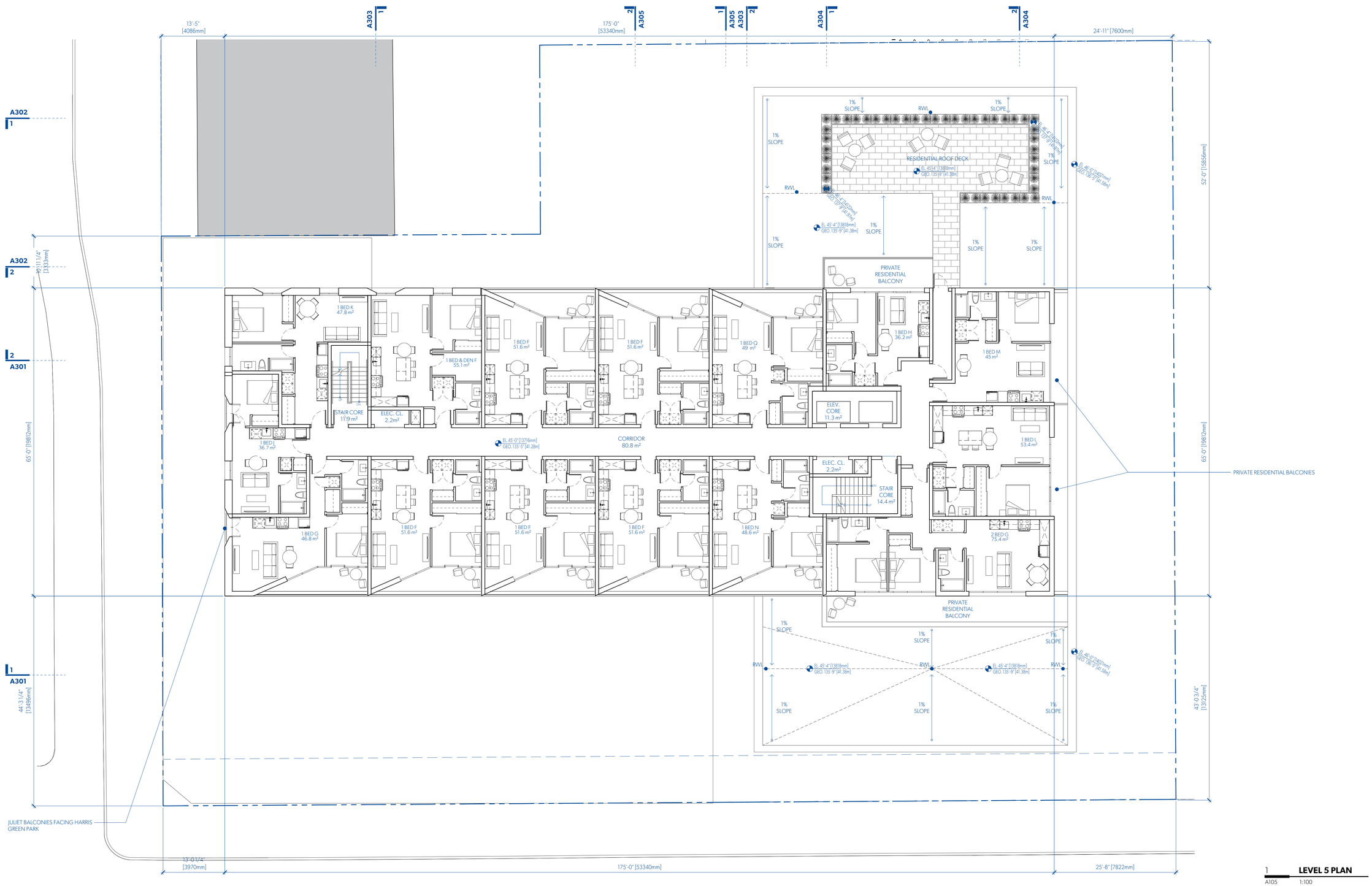
DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

1 A104 **LEVEL 4 PLAN**
1:100

A104
LEVEL 4 PLAN



1 **LEVEL 5 PLAN**
A105 1:100

MGA

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2				1			1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 B&D A	61.5	1						1
1 B&D B	51.6				1			1
1 B&D C	62.2	1	2	2	2			7
1 B&D D	59.1		1					1
1 B&D E	51.4				1		1	2
1 B&D F	54.2			1		1		2
1 B&D G	51.0				1			1
1 B&D H	58.0		1					1
1 B&D I	62.2		1	1	1			3
1 B&D J	93.9		1					1
1 B&D K	81.2		1					1
1 B& D L	73.0	2						2
1 B&D M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 B&D A	90.8		1					1
2 B&D B	96.1			1	1			2
2 B&D C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

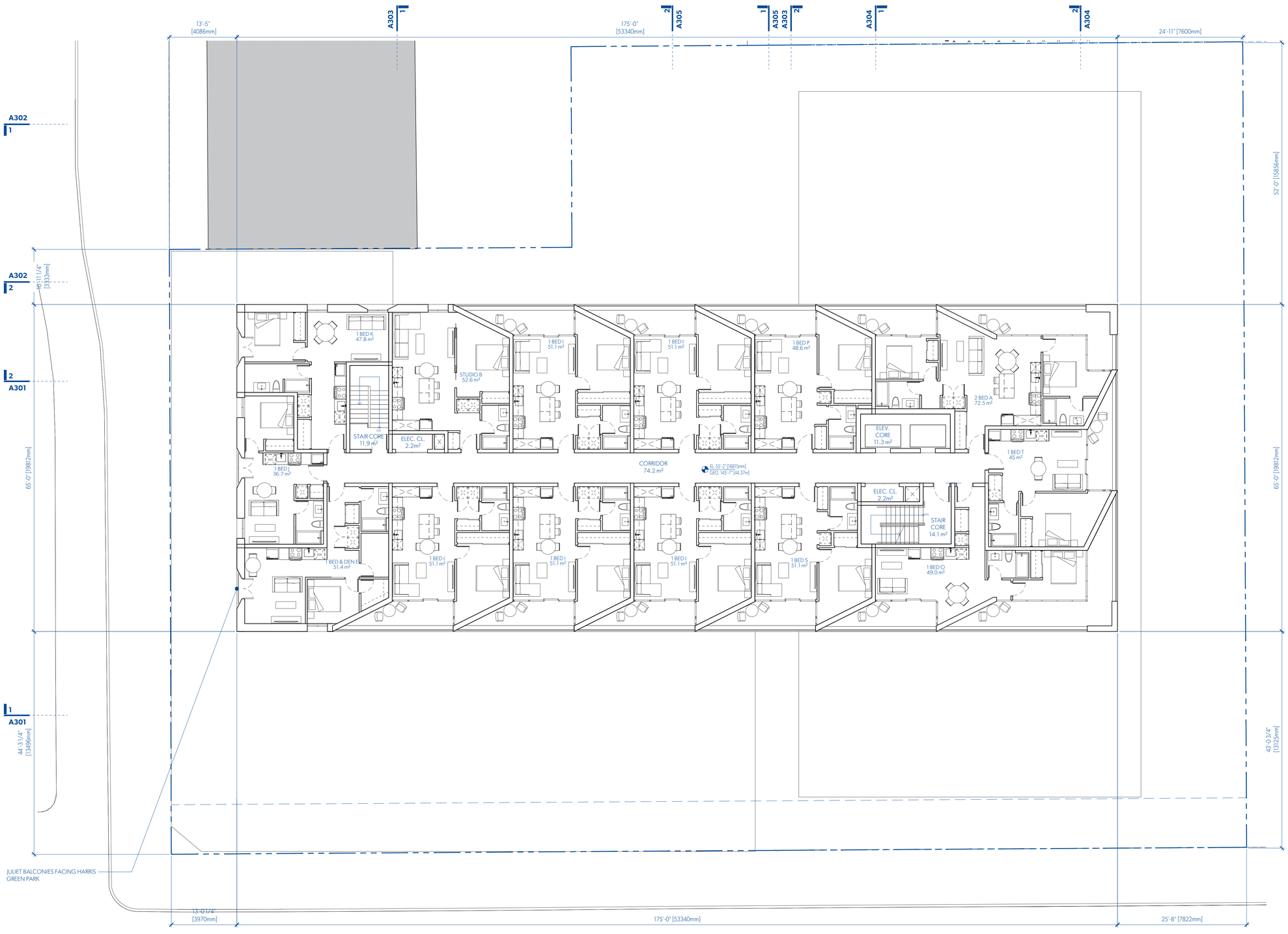
85° N

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A105
LEVEL 5 PLAN



1 **LEVEL 6 PLAN**
A106 1:100

MGA

UNIT CALCULATIONS

CITY	m2	L1	L2	L3	L4	L5	L6	TOTAL
STUDIO A	56.0			1	1			2
STUDIO B	52.6				1		1	2
ST & DEN A	66.0		4					4
ST & DEN B	72.7		1					1
ST & DEN C	57.7			1				1
ST & DEN D	53.6			1				1
1 BED A	52.1	1	1	1	1			4
1 BED B	52.8	1	1	1	1			4
1 BED C	56.1		1					1
1 BED D	48.3		1					1
1 BED E	48.6		1	1	1			3
1 BED F	51.6			5		5		10
1 BED G	46.8			1		1		2
1 BED H	36.2					1		1
1 BED I	51.1				5		5	10
1 BED J	36.7			1	1	1	1	4
1 BED K	47.8			1	1	1	1	4
1 BED L	53.4					1		1
1 BED M	45.0					1		1
1 BED N	48.4					1		1
1 BED O	49.0						1	1
1 BED P	48.6						1	1
1 BED Q	49.0					1		1
1 BED R	51.9	1						1
1 BED S	51.1						1	1
1 BED T	45.0						1	1
1 BED A	61.5	1						1
1 BED B	51.6				1			1
1 BED C	62.2	1	2	2	2			7
1 BED D	59.1		1					1
1 BED E	51.4				1		1	2
1 BED F	54.2			1		1		2
1 BED G	51.0				1			1
1 BED H	58.0		1					1
1 BED I	62.2		1	1	1			3
1 BED J	93.9		1					1
1 BED K	81.2		1					1
1 BED L	73.0	2						2
1 BED M	68.7		1					1
2 BED A	72.5						1	1
2 BED B	68.8		1					1
2 BED C	73.5		1					1
2 BED D	60.0		1	1	1			3
2 BED E	79.5		1					1
2 BED F	67.2	1		1	1			3
2 BED G	75.4					1		1
2 BED A	90.8		1					1
2 BED B	96.1			1	1			2
2 BED C	76.1		1					1
TOTAL UNITS		8	24	21	21	15	14	103

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

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2020-03-20	3	REVISED FOR REZONING
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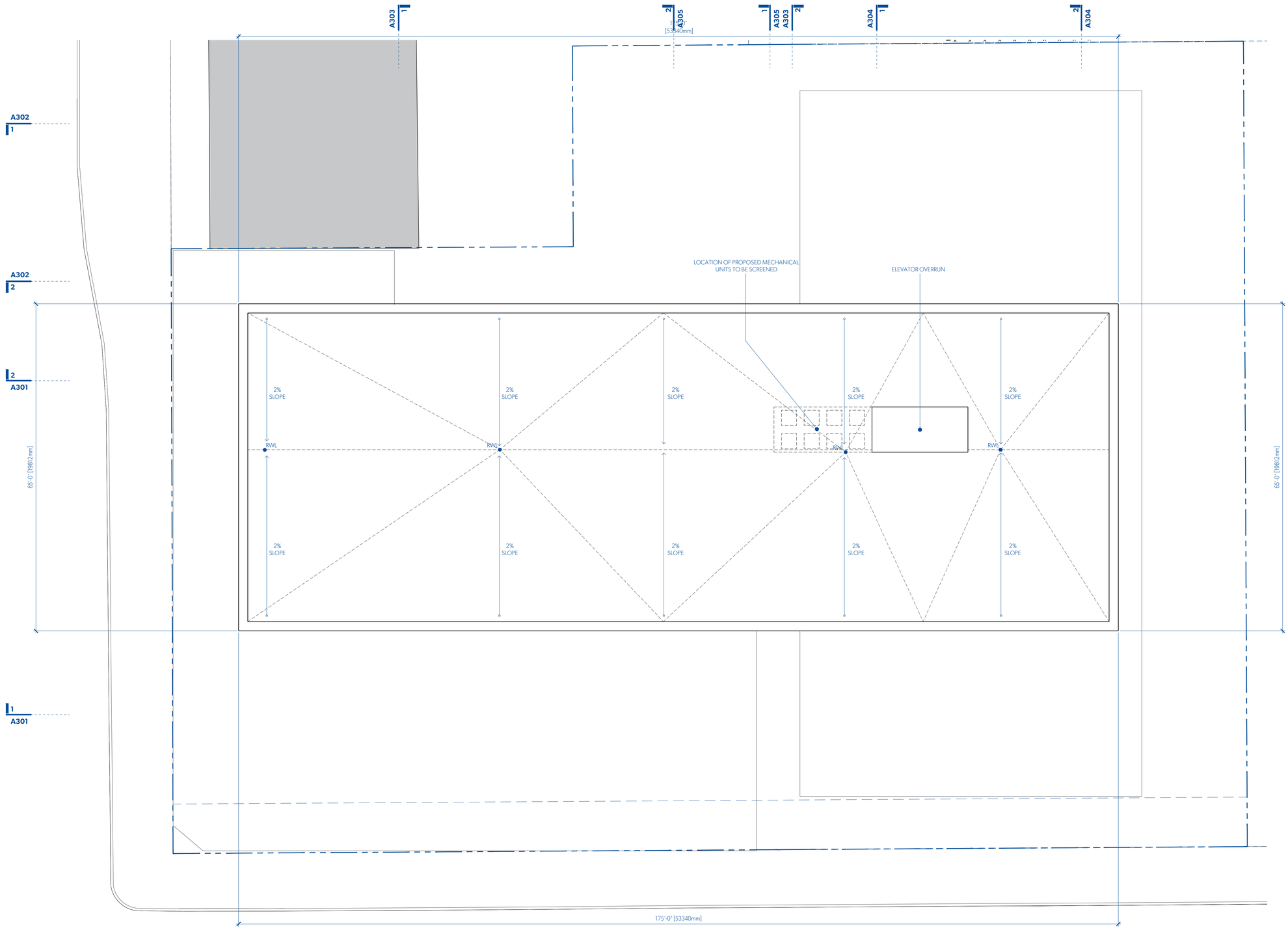
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A106
LEVEL 6 PLAN



1 **ROOF PLAN**
A107 1:100

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

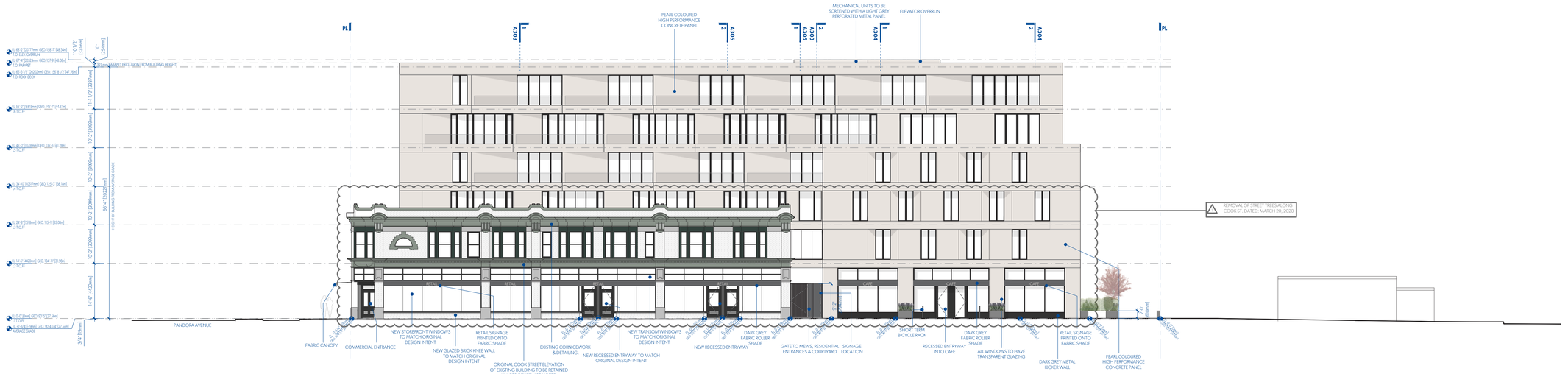
DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A107
ROOF PLAN

1 **SOUTH ELEVATION**
A201 1:150



2 **EAST ELEVATION**
A201 1:150

MGA

MATERIALITY

PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
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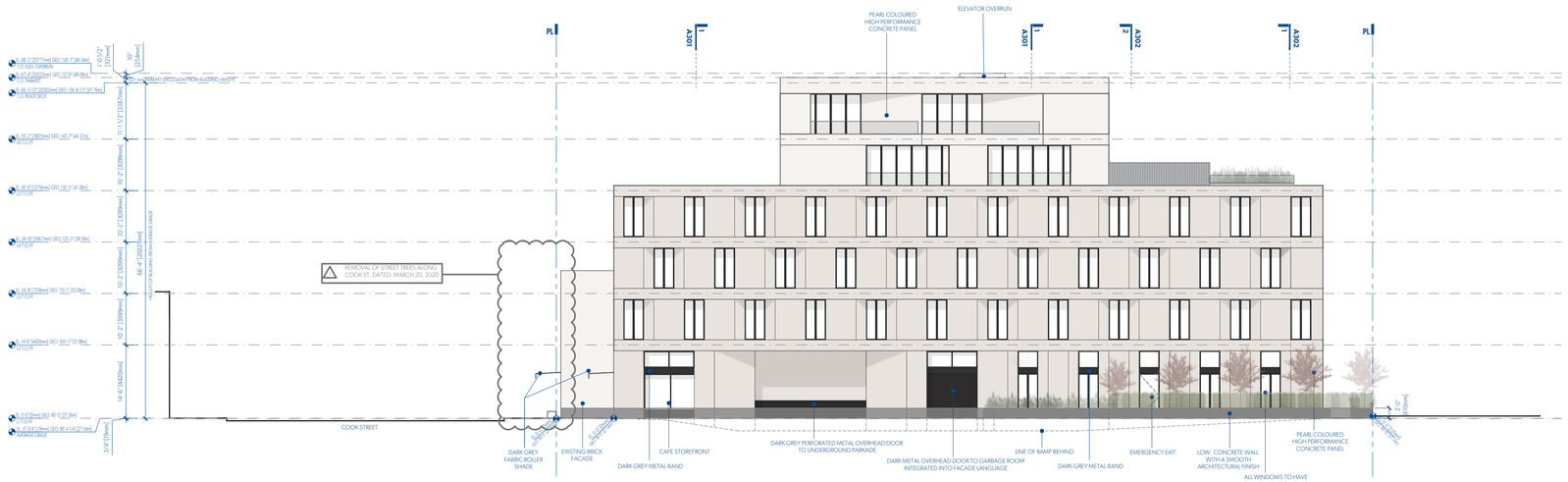
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

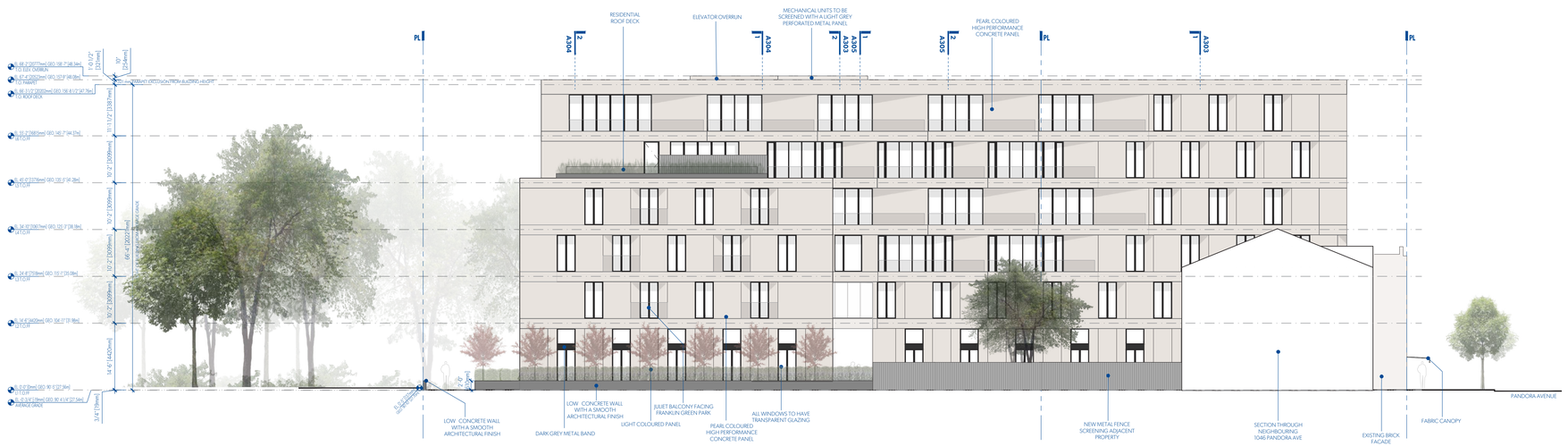
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A201
ELEVATIONS



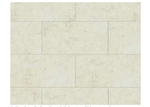
1 **NORTH ELEVATION THROUGH PUBLIC WALKWAY**
A202 1:150



2 **WEST ELEVATION**
A202 1:150

MGA

MATERIALITY



PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

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PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A202
ELEVATIONS

1 **COOK ST ORIGINAL ELEVATION STUDY**
A203 1:100

2 **COOK ST PROPOSED ELEVATION STUDY**
A203 1:100

3 **PANDORA AVE ORIGINAL ELEVATION STUDY**
A203 1:100

4 **PANDORA AVE PROPOSED ELEVATION STUDY**
A203 1:100

MGA

MATERIALITY

PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

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2019-09-13	1	REVISED FOR REZONING
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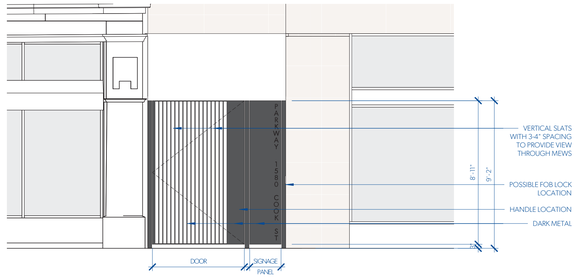
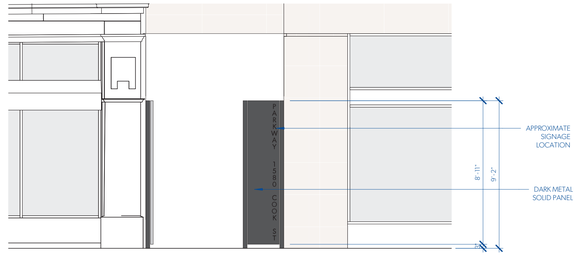
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

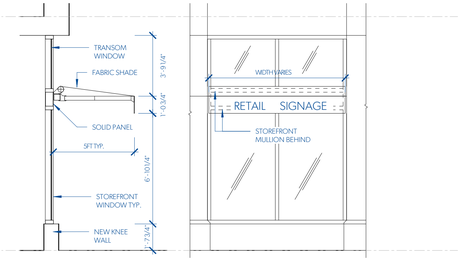
A203
HERITAGE ELEVATION STUDY



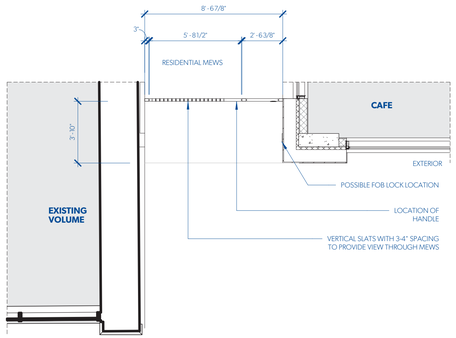
1 **ENTRY GATE (CLOSED) - ELEVATION**
A204 1:50



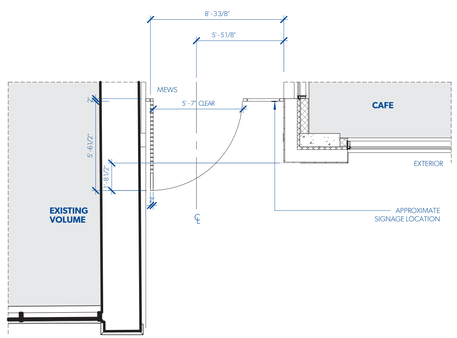
2 **ENTRY GATE (OPEN) - ELEVATION**
A204 1:50



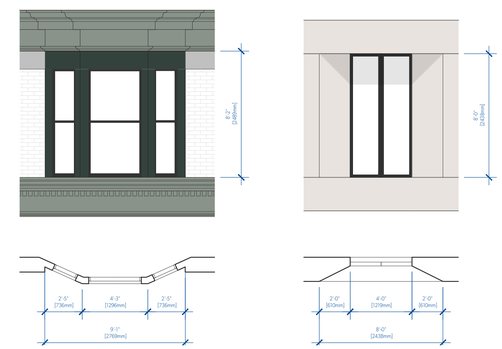
5 **CANOPY & SIGNAGE STUDY**
A204 1:50



3 **ENTRY GATE (CLOSED) - PLAN**
A204 1:50



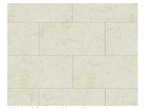
4 **ENTRY GATE (OPEN) - PLAN**
A204 1:50



6 **WINDOW PROPORTION STUDY**
A204 1:50

MGA

MATERIALITY


PEARL COLOURED, ULTRA-HIGH PERFORMANCE CONCRETE PANEL.


TRANSPARENT GLAZING WITH DARK GREY FRAMES .


EXISTING WHITE GLAZED BRICK


EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE


JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
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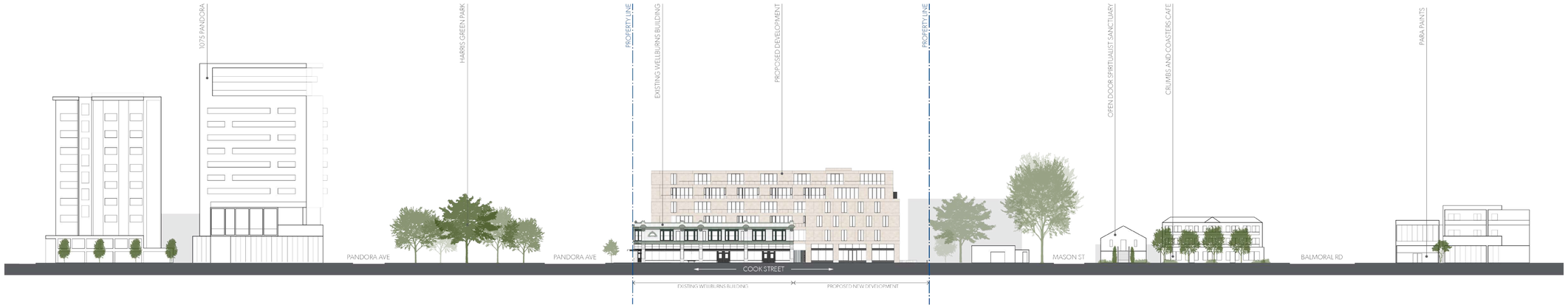
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A204
FACADE STUDIES

1 **PANDORA AVENUE STREETSCAPE**
A251 NTS



2 **COOK STREET STREETSCAPE**
A251 NTS

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

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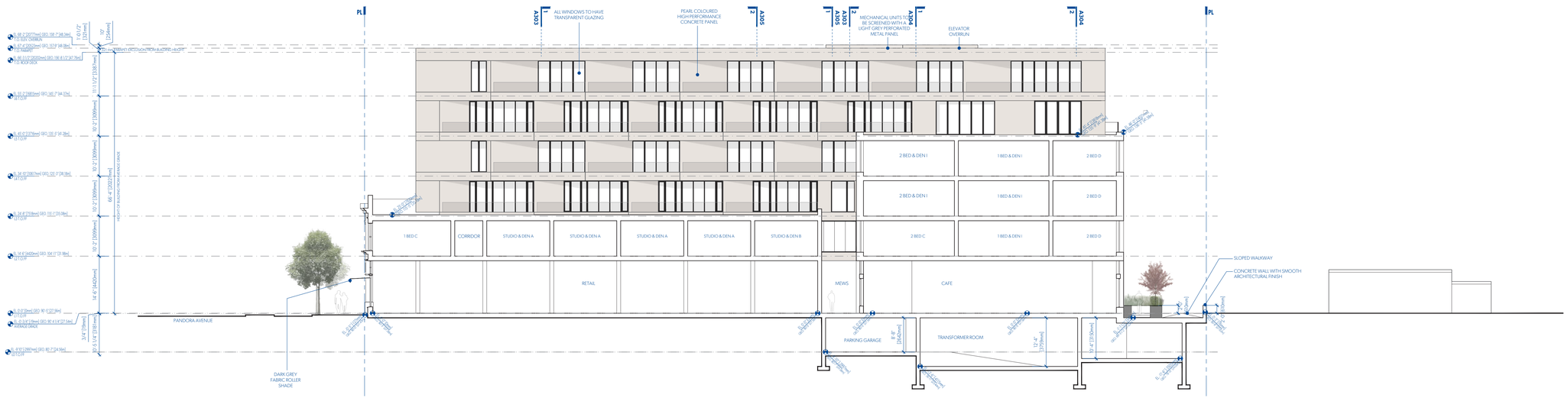
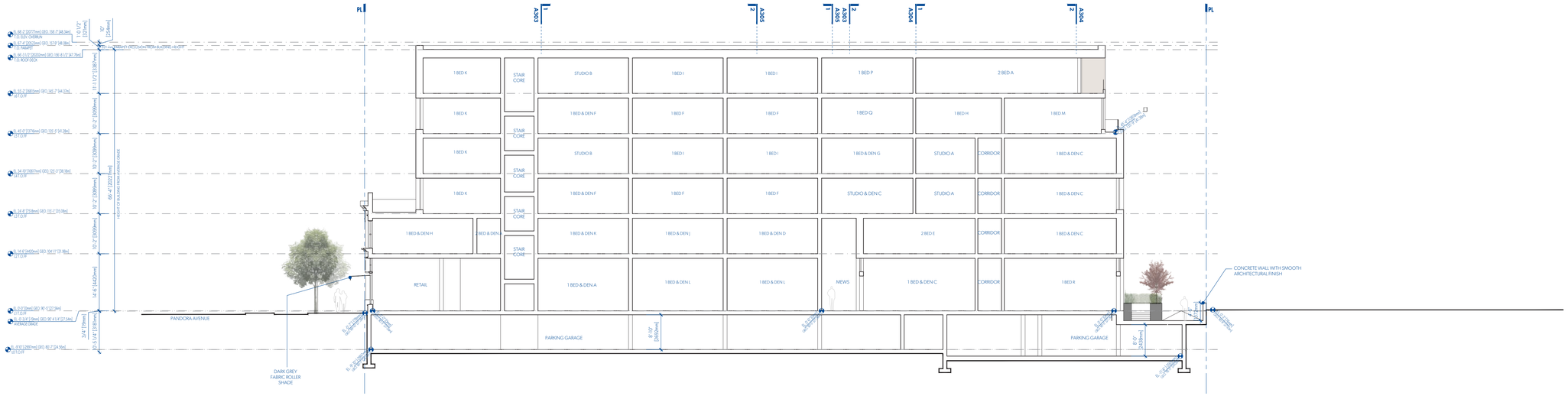
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A251
STREETSCAPE ELEVATIONS



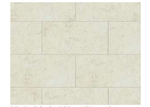
1 **SECTION LOOKING WEST THROUGH EXISTING BUILDING & NEW 4 STOREY VOLUME**
A301 1:150



2 **SECTION LOOKING WEST THROUGH NEW 6 STOREY VOLUME**
A301 1:150

MGA

MATERIALITY


PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.


TRANSPARENT GLAZING WITH DARK GREY FRAMES .


EXISTING WHITE GLAZED BRICK


EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE


JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
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PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
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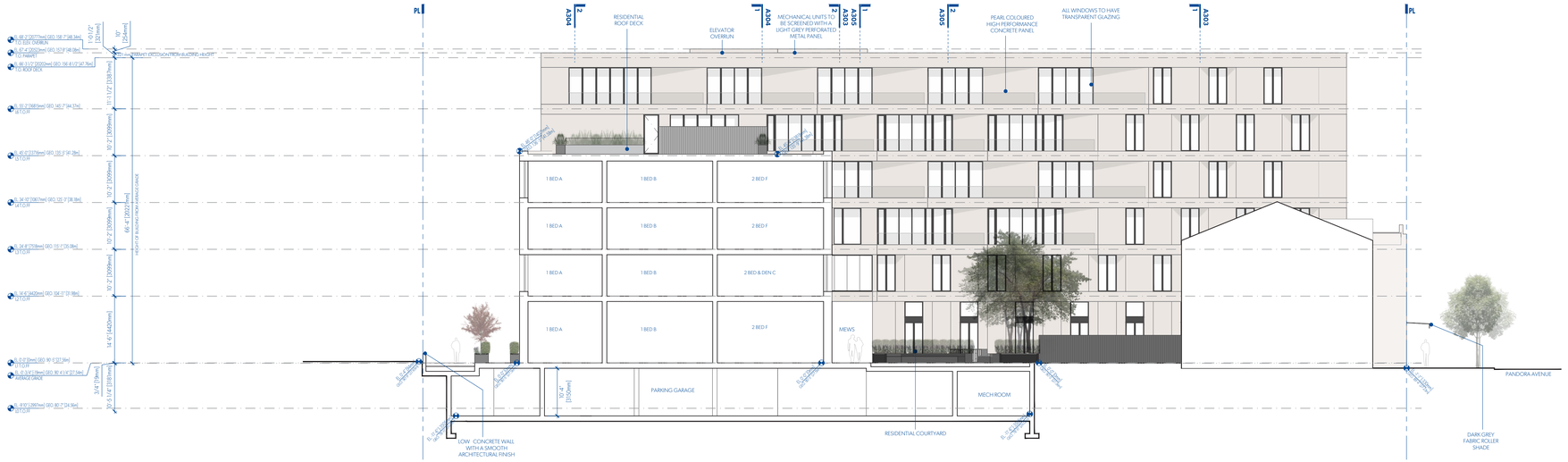
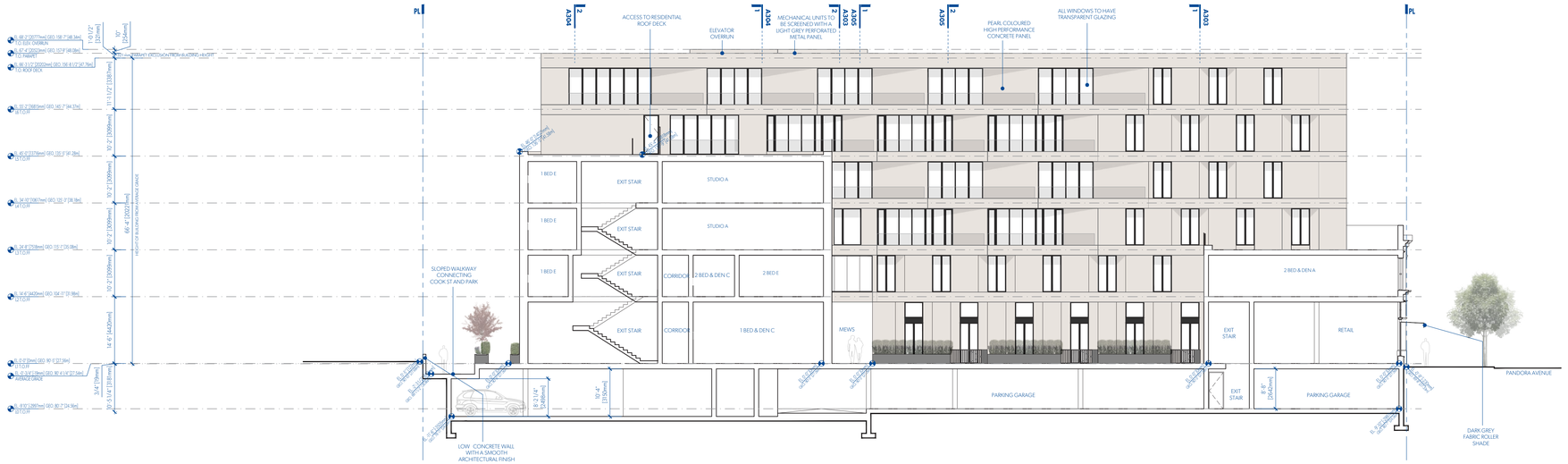
A301
SECTIONS



1 **SECTION LOOKING EAST THROUGH NEW 4 STOREY VOLUME**

A302 1:150

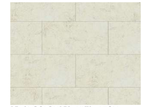


2 **SECTION LOOKING EAST THROUGH NEW 4 STOREY VOLUME & EXISTING BUILDING**

A302 1:150

MGA

MATERIALITY



PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

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PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
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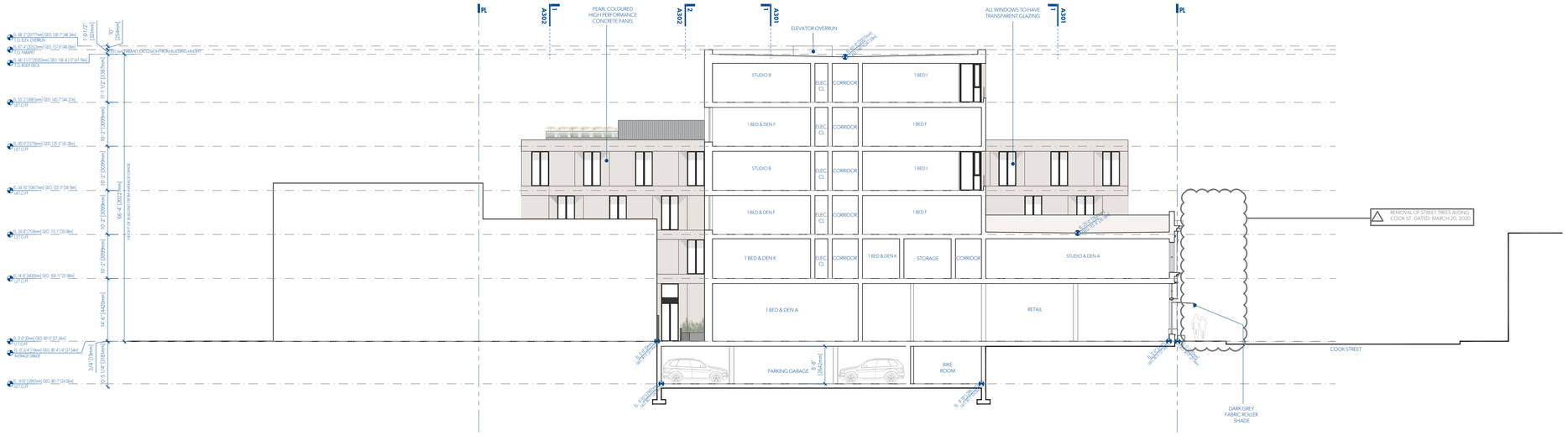
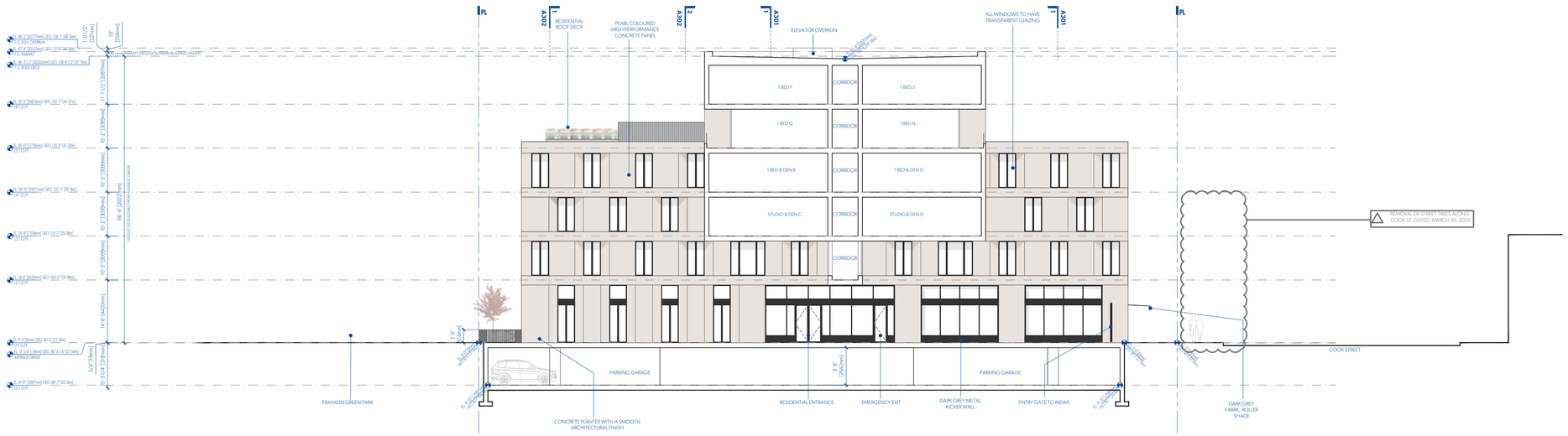
A302
SECTIONS



1 **SECTION LOOKING NORTH THROUGH EXISTING BUILDING & NEW 6 STOREY VOLUME**

A303 1:150

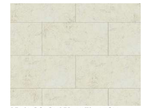


2 **SECTION LOOKING NORTH THROUGH NEW 6 STOREY VOLUME**

A303 1:150

MGA

MATERIALITY



PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
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CANADA V6J 1J8

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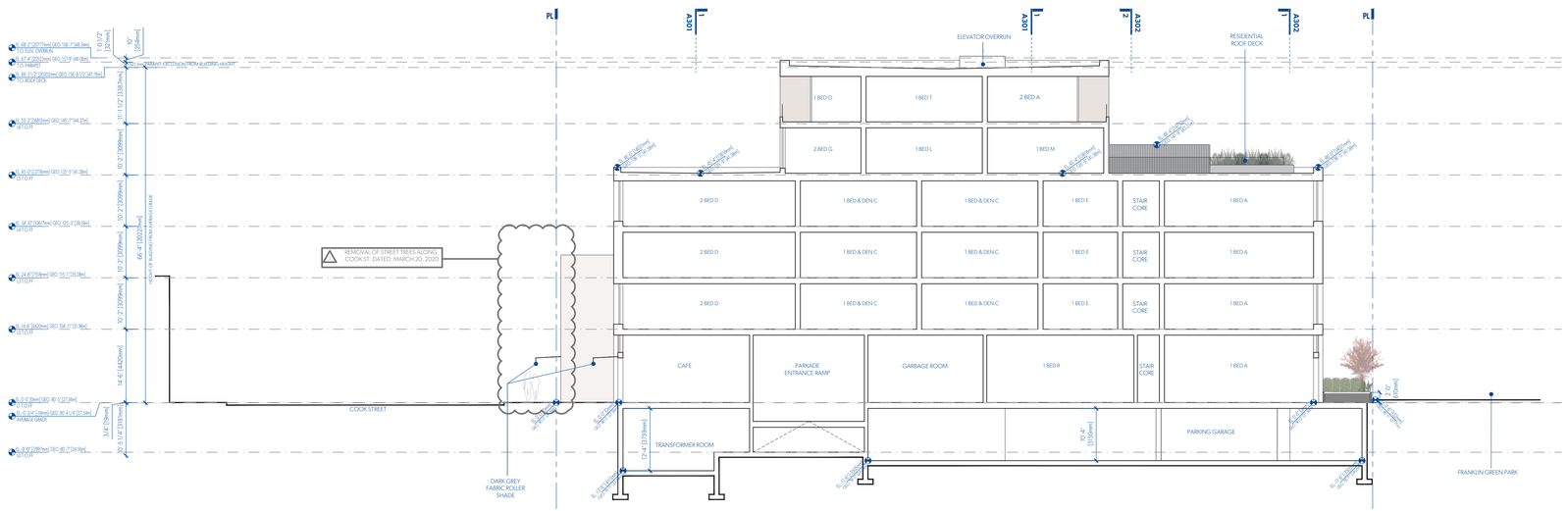
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A303
SECTIONS

1 **SECTION LOOKING NORTH THROUGH NEW 4 & 6 STOREY VOLUME**

A304 1:150

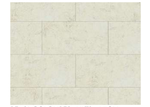


2 **SECTION LOOKING SOUTH THROUGH NEW 4 & 6 STOREY VOLUME**

A304 1:150

MGA

MATERIALITY



PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

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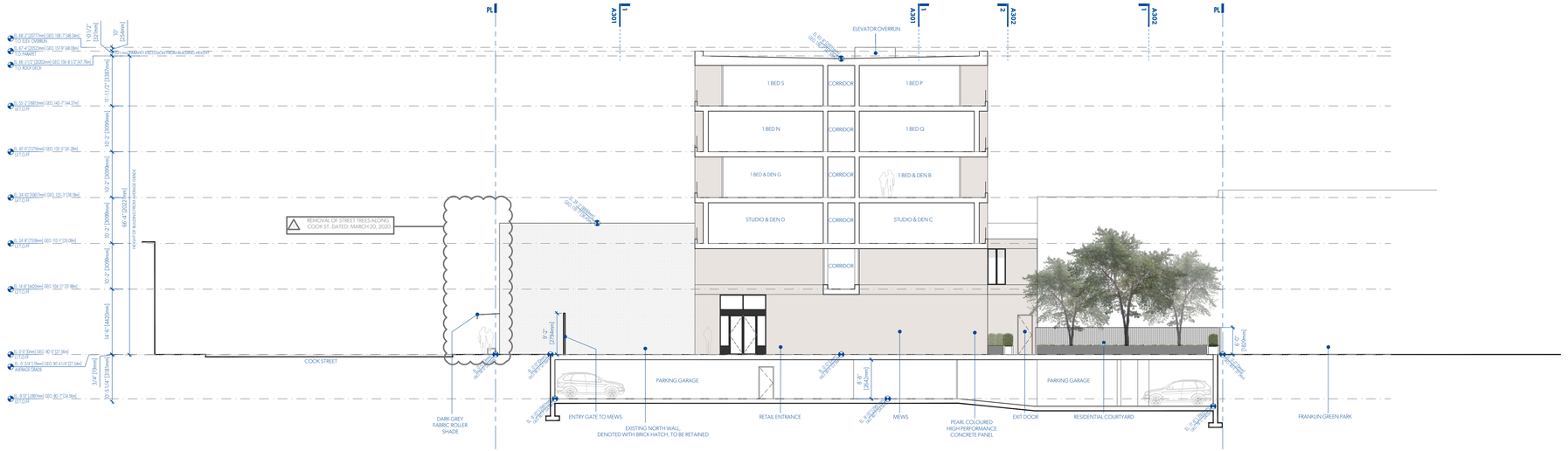
PARKWAY

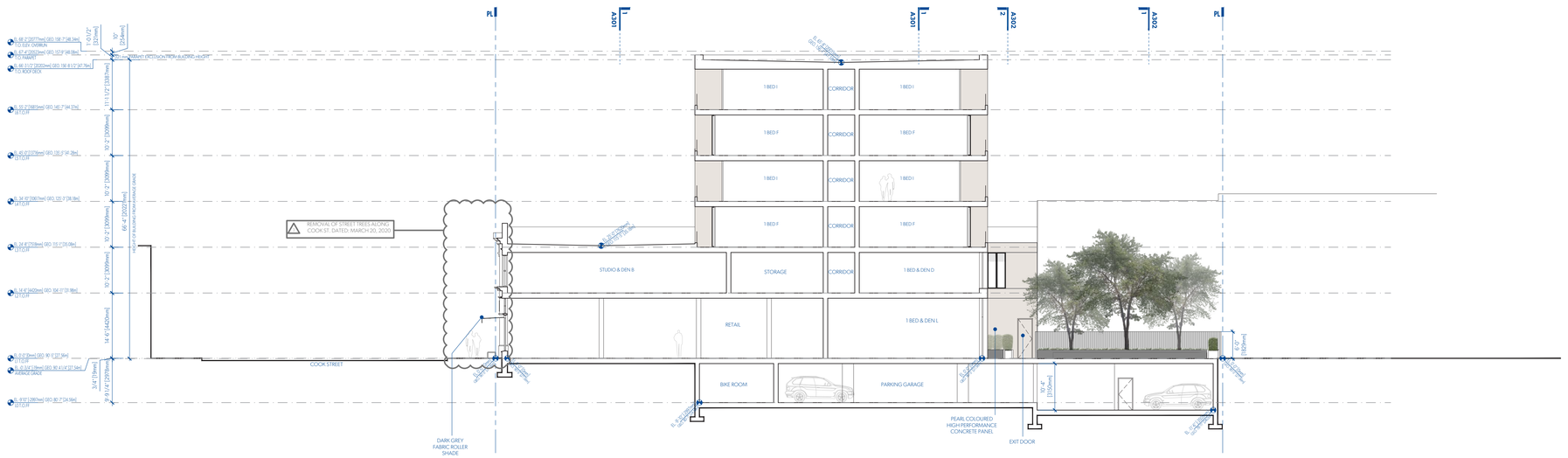
1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A304
SECTIONS



1 **SECTION LOOKING SOUTH THROUGH NEW 6 STOREY VOLUME**

A305 1:150



2 **SECTION LOOKING SOUTH THROUGH EXISTING BUILDING NEW 6 STOREY VOLUME**

A305 1:150

MGA

MATERIALITY

PEARL COLOURED, ULTRA HIGH PERFORMANCE CONCRETE PANEL.

TRANSPARENT GLAZING WITH DARK GREY FRAMES .

EXISTING WHITE GLAZED BRICK

EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE

JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
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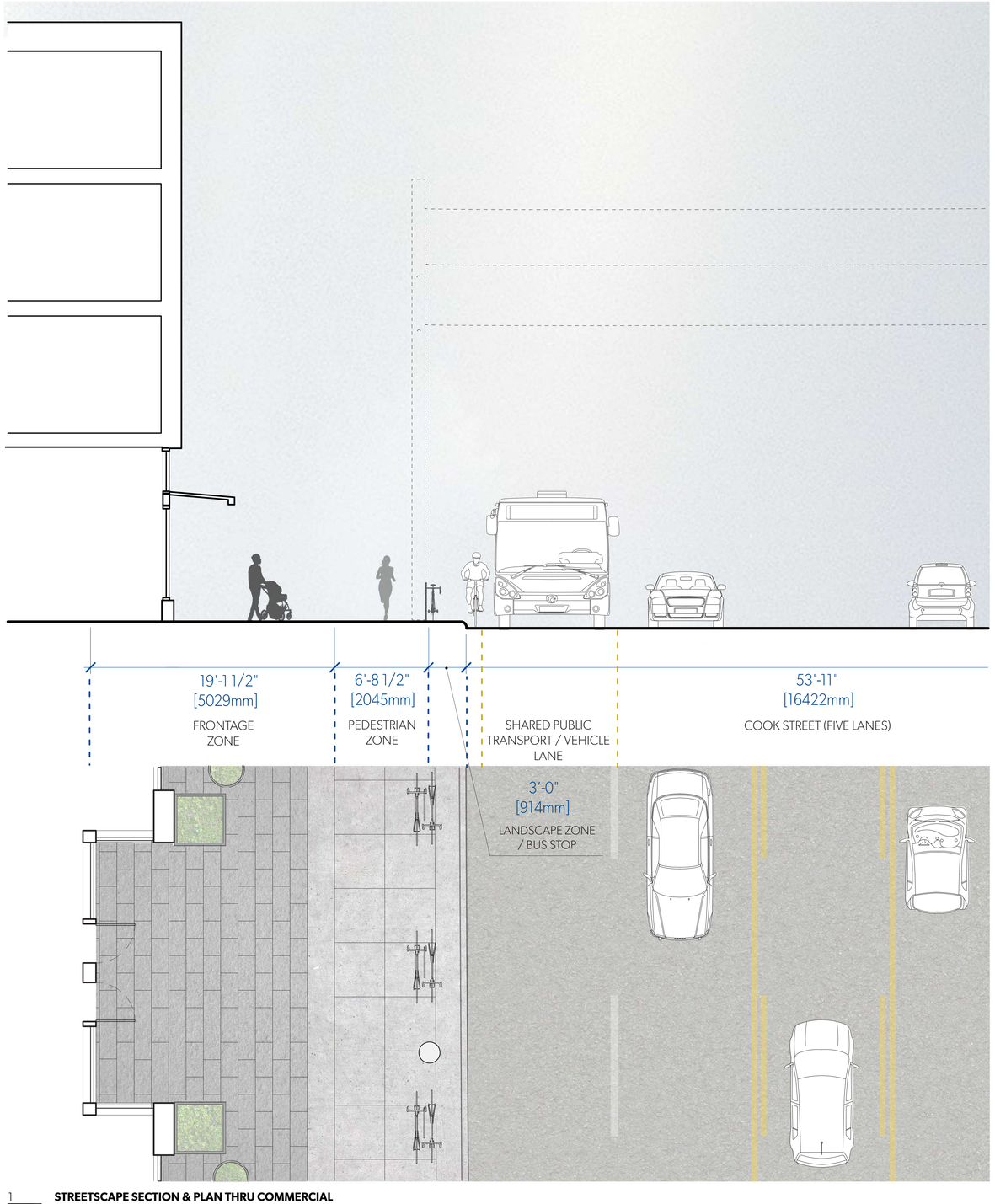
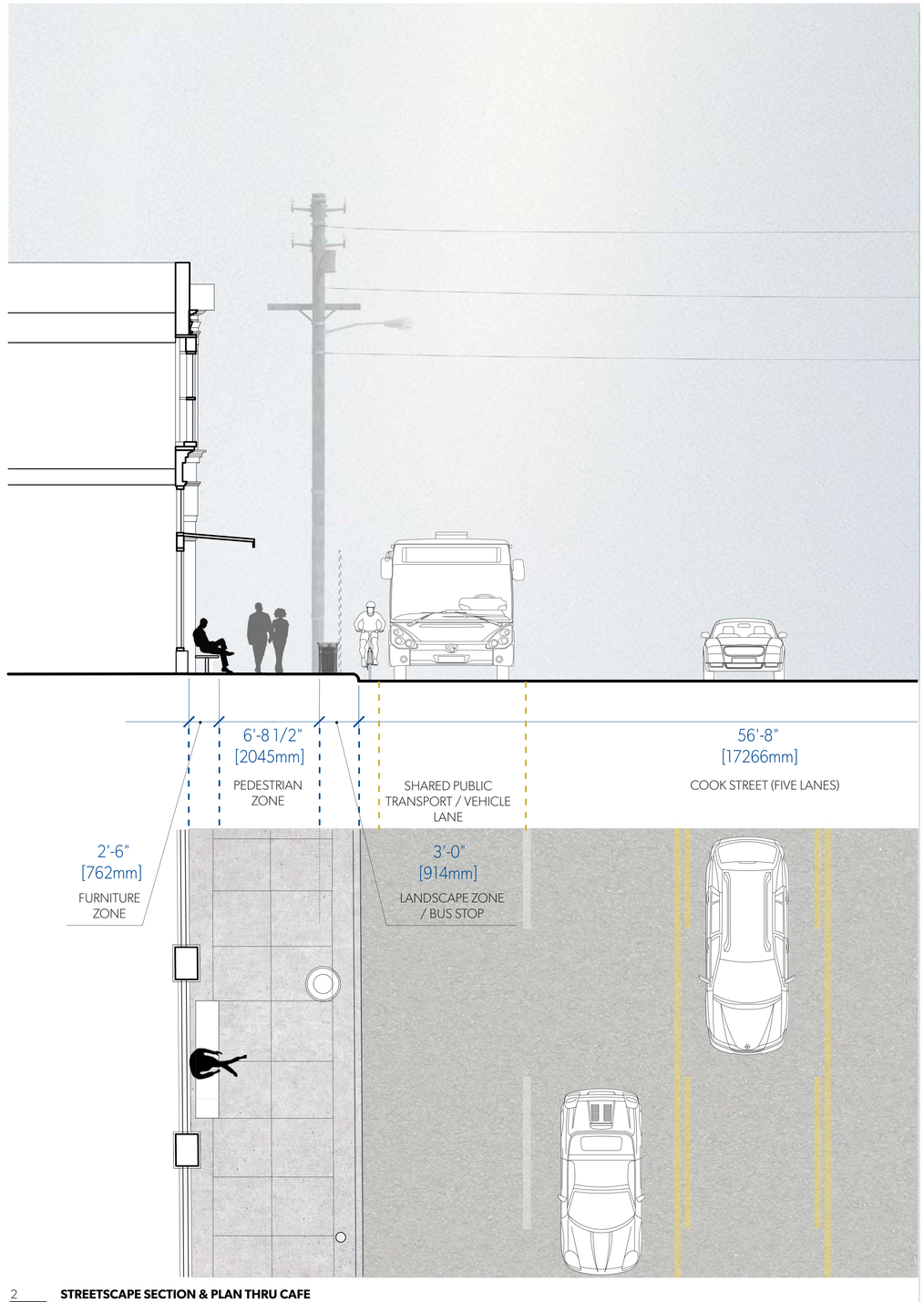
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A305
SECTIONS



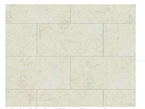
1 **STREETSCAPE SECTION & PLAN THRU COMMERCIAL**
A305 1:50



2 **STREETSCAPE SECTION & PLAN THRU CAFE**
A308 1:50

MGA

MATERIALITY


PEARL COLOURED, ULTRA-HIGH PERFORMANCE CONCRETE PANEL.


TRANSPARENT GLAZING WITH DARK GREY FRAMES .


EXISTING WHITE GLAZED BRICK


EXISTING ORNAMENTAL DETAILING RESTORED TO HERITAGE COLOUR PALETTE


JULIET BALCONIES WITH CLEAR GLASS ON LIVING SPACE WINDOWS FACING FRANKLIN GREEN PARK & HARRIS GREEN PARK

MICHAEL GREEN ARCHITECTURE
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CANADA V6J 1J8

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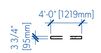
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

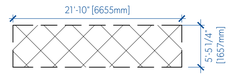
A308
STREETSCAPE CROSS SECTIONS

E



E

F



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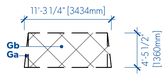

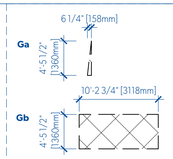

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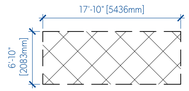

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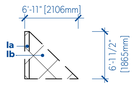

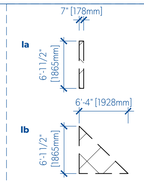

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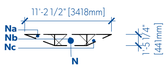

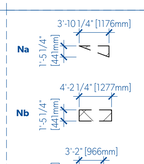

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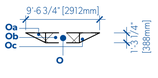

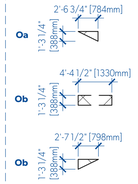

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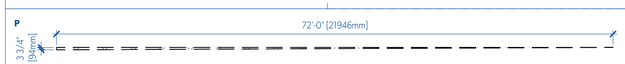

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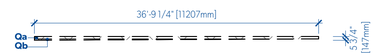

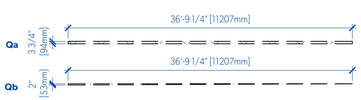

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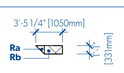

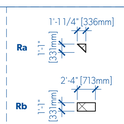

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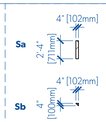
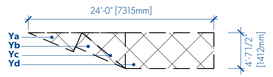
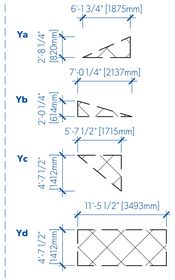


T

Y





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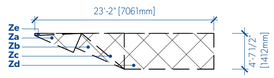

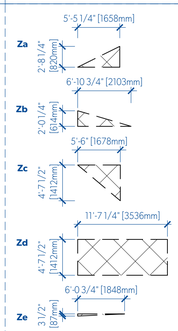

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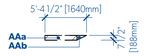
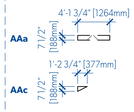
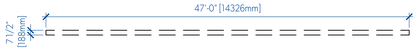




AB1

AJ



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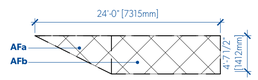
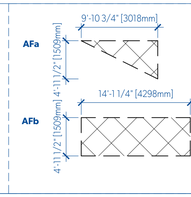
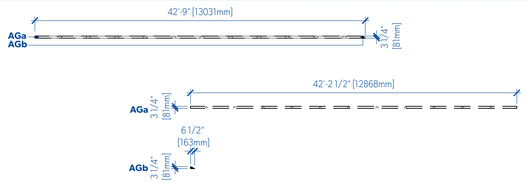
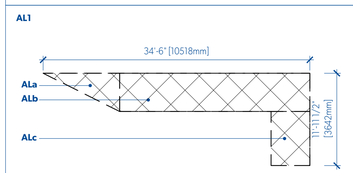


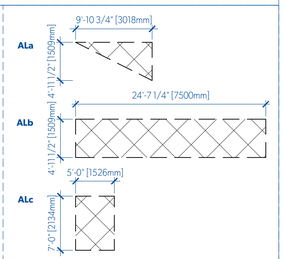


AG1



AL1





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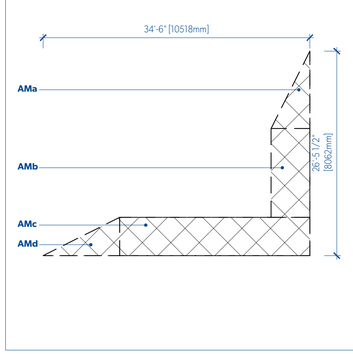
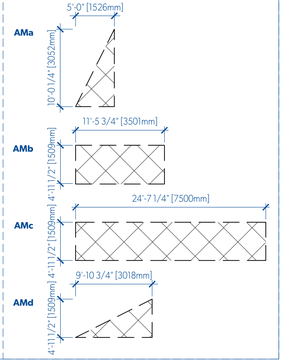




1 **CALCULATIONS LEGEND**
A800 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

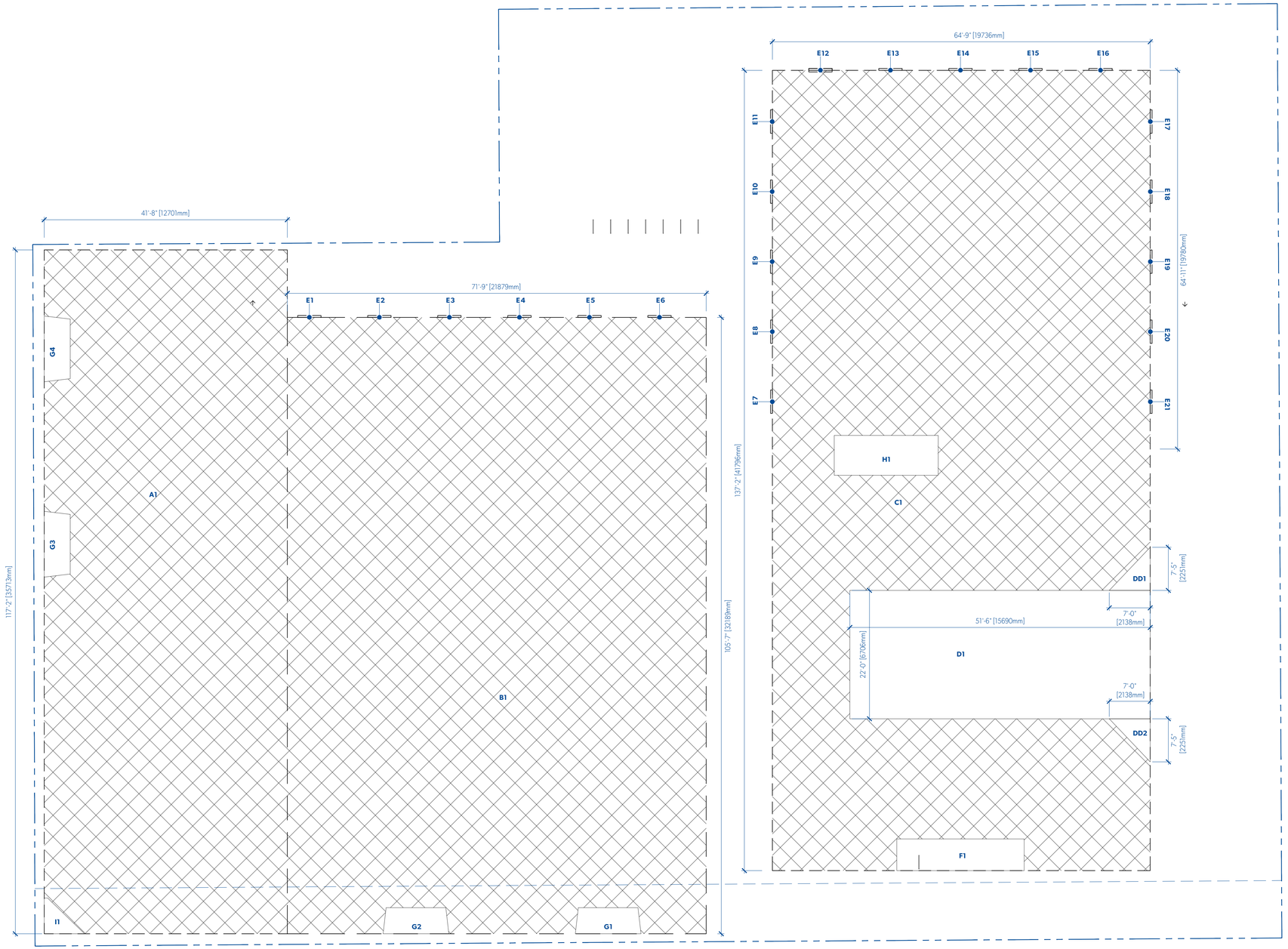
85° N

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A800
CALCULATIONS LEGEND



LEVEL 1

	METRIC (M2)								
	LENGTH		WIDTH		AREA		QTY		TOTAL
GROSS AREA									
A1	35.71	x	12.70	=	453.60 m2	x	1	=	453.60 m2
B1	32.19	x	21.88	=	704.26 m2	x	1	=	704.26 m2
C1	41.80	x	19.74	=	824.89 m2	x	1	=	824.89 m2
E	0.10	x	1.22	=	0.12 m2	x	21	=	2.43 m2
TOTAL GROSS AREA									**1985.18 m2**
AREA DEDUCTIONS									
D1	15.69	x	6.71	=	105.22 m2	x	1	=	105.22 m2
DD1	2.14	x	2.25	=	4.81 m2	x	1	=	4.81 m2
F	6.66	x	1.66	=	11.06 m2	x	1	=	11.06 m2
G	(SEE G CALCULATIONS)			=	4.45 m2	x	4	=	17.81 m2
H	5.44	x	2.08	=	11.32 m2	x	1	=	11.32 m2
I	(SEE I CALCULATIONS)			=	2.13 m2	x	1	=	2.13 m2
TOTAL DEDUCTIONS									**152.36 m2**
TOTAL GROSS AREA									1985.18 m2
TOTAL DEDUCTIONS									- 152.36 m2
TOTAL NET AREA									**1832.82 m2**

G CALCULATIONS

GROSS AREA									
Ga	1.36	x	0.16	=	0.21 m2	x	1	=	0.21 m2
Gb	1.36	x	3.12	=	4.24 m2	x	1	=	4.24 m2
TOTAL NET AREA									**4.45 m2**

I CALCULATIONS

GROSS AREA									
Ia	1.87	x	0.18	=	0.33 m2	x	1	=	0.33 m2
Ib	1.87	x	1.93	=	3.60 m2	x	0.5	=	1.80 m2
TOTAL NET AREA									**2.13 m2**

1 **FSR LEVEL 1**
A801 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

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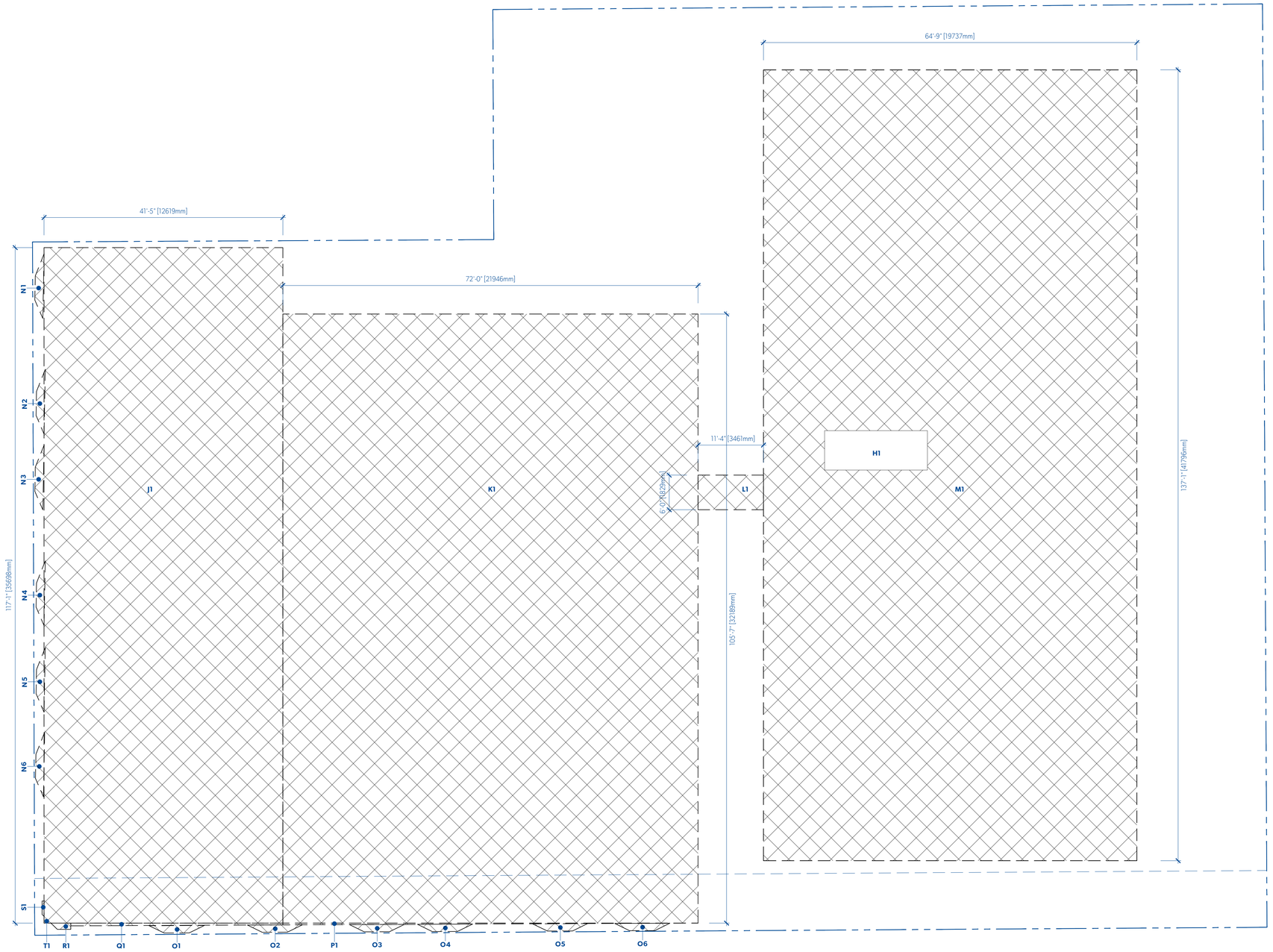
2019-05-15	0	ISSUED FOR REZONING

DATE REVISION DESCRIPTION

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A801
FSR LEVEL 1



LEVEL 2

	METRIC (M2)										
	LENGTH		WIDTH		AREA		QTY		TOTAL	
GROSS AREA										
J1	35.69	x	12.62	=	450.49 m2	x	1	=	450.49 m2	
K1	32.19	x	21.95	=	706.41 m2	x	1	=	706.41 m2	
L1	1.83	x	3.46	=	6.33 m2	x	1	=	6.33 m2	
M1	41.80	x	19.74	=	824.93 m2	x	1	=	824.93 m2	
N	(SEE N CALCULATIONS)			=	1.03 m2	x	6	=	6.17 m2	
O	(SEE O CALCULATIONS)			=	0.82 m2	x	6	=	4.94 m2	
P	0.09	x	21.95	=	2.07 m2	x	0.5	=	1.04 m2	
Q	(SEE Q CALCULATIONS)			=	1.35 m2	x	1	=	1.35 m2	
R	(SEE R CALCULATIONS)			=	0.29 m2	x	1	=	0.29 m2	
S	(SEE S CALCULATIONS)			=	0.08 m2	x	1	=	0.08 m2	
TOTAL GROSS AREA										**2002.02 m2**
AREA DEDUCTIONS										
H	5.44	x	2.08	=	11.32 m2	x	1	=	11.32 m2	
T	0.36	x	0.36	=	1.35 m2	x	0.5	=	0.68 m2	
TOTAL DEDUCTIONS										**12.00 m2**
TOTAL GROSS AREA										2002.02 m2
TOTAL DEDUCTIONS										- 12.00 m2
TOTAL NET AREA										**1990.02 m2**

N CALCULATIONS

GROSS AREA									
Na	0.44	x	1.17	=	0.51 m2	x	0.5	=	0.26 m2
Nb	0.44	x	1.28	=	0.56 m2	x	1	=	0.56 m2
Nc	0.44	x	0.97	=	0.42 m2	x	0.5	=	0.21 m2
TOTAL NET AREA									**1.03 m2**

O CALCULATIONS

GROSS AREA									
Oa	0.39	x	0.78	=	0.30 m2	x	0.5	=	0.15 m2
Ob	0.39	x	1.33	=	0.52 m2	x	1	=	0.52 m2
Oc	0.39	x	0.80	=	0.31 m2	x	0.5	=	0.15 m2
TOTAL NET AREA									**0.82 m2**

Q CALCULATIONS

GROSS AREA									
Qa	0.10	x	11.21	=	1.07 m2	x	1	=	1.07 m2
Qb	0.05	x	11.21	=	0.57 m2	x	0.5	=	0.28 m2
TOTAL NET AREA									**1.35 m2**

R CALCULATIONS

GROSS AREA									
Ra	0.33	x	0.34	=	0.11 m2	x	0.5	=	0.06 m2
Rb	0.33	x	0.71	=	0.23 m2	x	1	=	0.23 m2
TOTAL NET AREA									**0.29 m2**

S CALCULATIONS

GROSS AREA									
Sa	0.71	x	0.10	=	0.07 m2	x	1	=	0.07 m2
Sb	0.10	x	0.10	=	0.01 m2	x	0.5	=	0.01 m2
TOTAL NET AREA									**0.08 m2**

1 **FSR LEVEL 2**
A802 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

DATE	REVISION	DESCRIPTION
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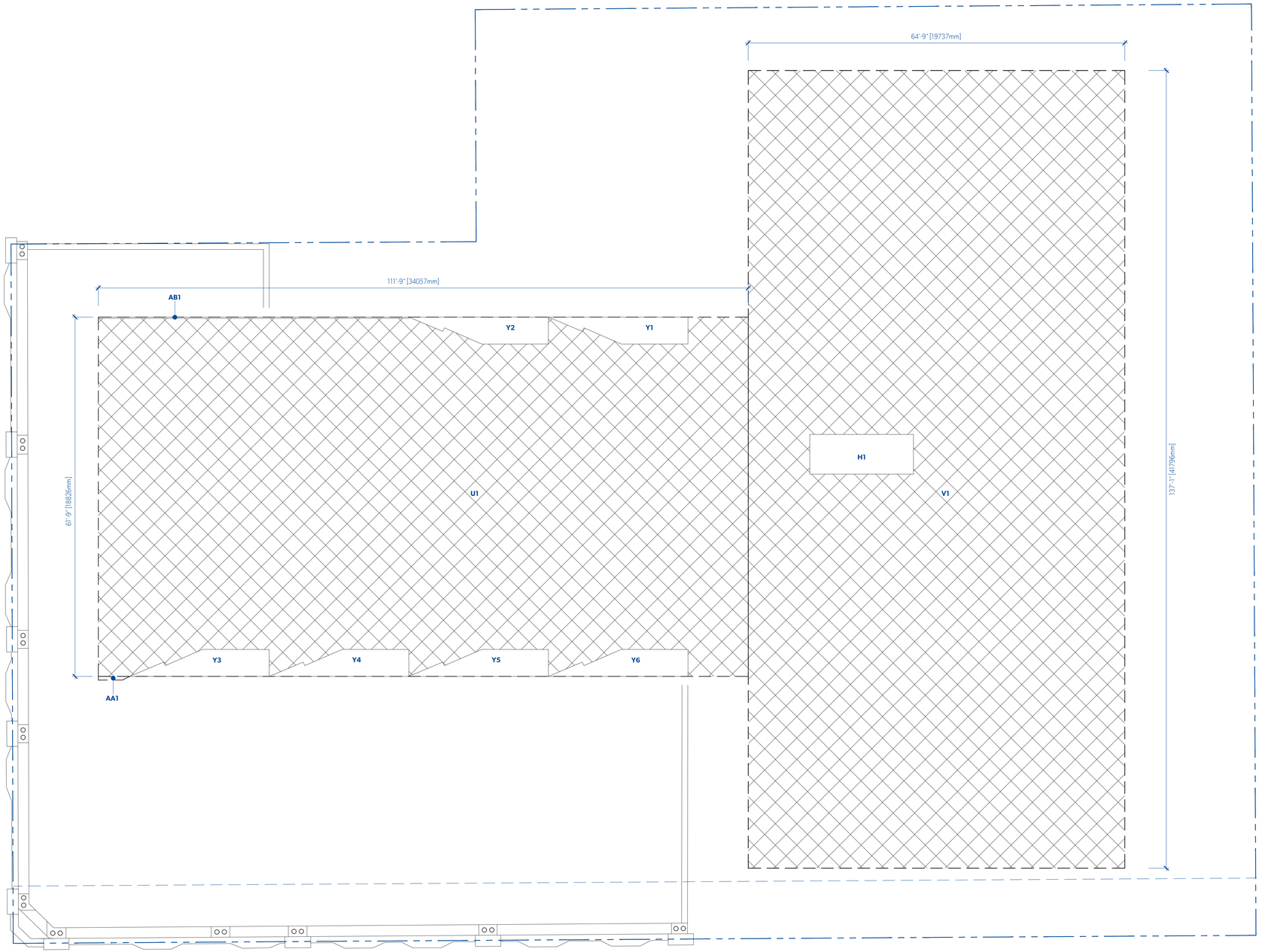
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A802
FSR LEVEL 2



LEVEL 3

	METRIC (M2)								
	LENGTH		WIDTH		AREA		QTY		TOTAL
GROSS AREA									
U1	18.82	x	34.06	=	641.06 m2	x	1	=	641.06 m2
V1	41.80	x	19.74	=	824.93 m2	x	1	=	824.93 m2
AA1	(SEE AA CALCULATIONS)			=	0.28 m2	x	1	=	0.28 m2
TOTAL GROSS AREA									**1466.26 m2**
AREA DEDUCTIONS									
H	5.44	x	2.08	=	11.32 m2	x	1	=	11.32 m2
Y	(SEE Y CALCULATIONS)			=	7.56 m2	x	6	=	45.36 m2
AB1	0.06	x	16.27	=	1.03 m2	x	1	=	1.03 m2
TOTAL DEDUCTIONS									**57.71 m2**
TOTAL GROSS AREA									1466.26 m2
TOTAL DEDUCTIONS								-	57.71 m2
TOTAL NET AREA									**1408.55 m2**

Y CALCULATIONS

GROSS AREA									
Ya	0.82	x	1.88	=	1.54 m2	x	0.5	=	0.77 m2
Yb	0.61	x	2.14	=	1.31 m2	x	0.5	=	0.66 m2
Yc	1.72	x	1.41	=	2.42 m2	x	0.5	=	1.21 m2
Yd	1.41	x	3.49	=	4.92 m2	x	1	=	4.92 m2
TOTAL NET AREA									**7.56 m2**

AA CALCULATIONS

GROSS AREA									
Aaa	0.19	x	1.26	=	0.24 m2	x	1	=	0.24 m2
Aab	0.19	x	0.37	=	0.07 m2	x	0.5	=	0.04 m2
TOTAL NET AREA									**0.28 m2**

1 **FSR LEVEL 3**
A803 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

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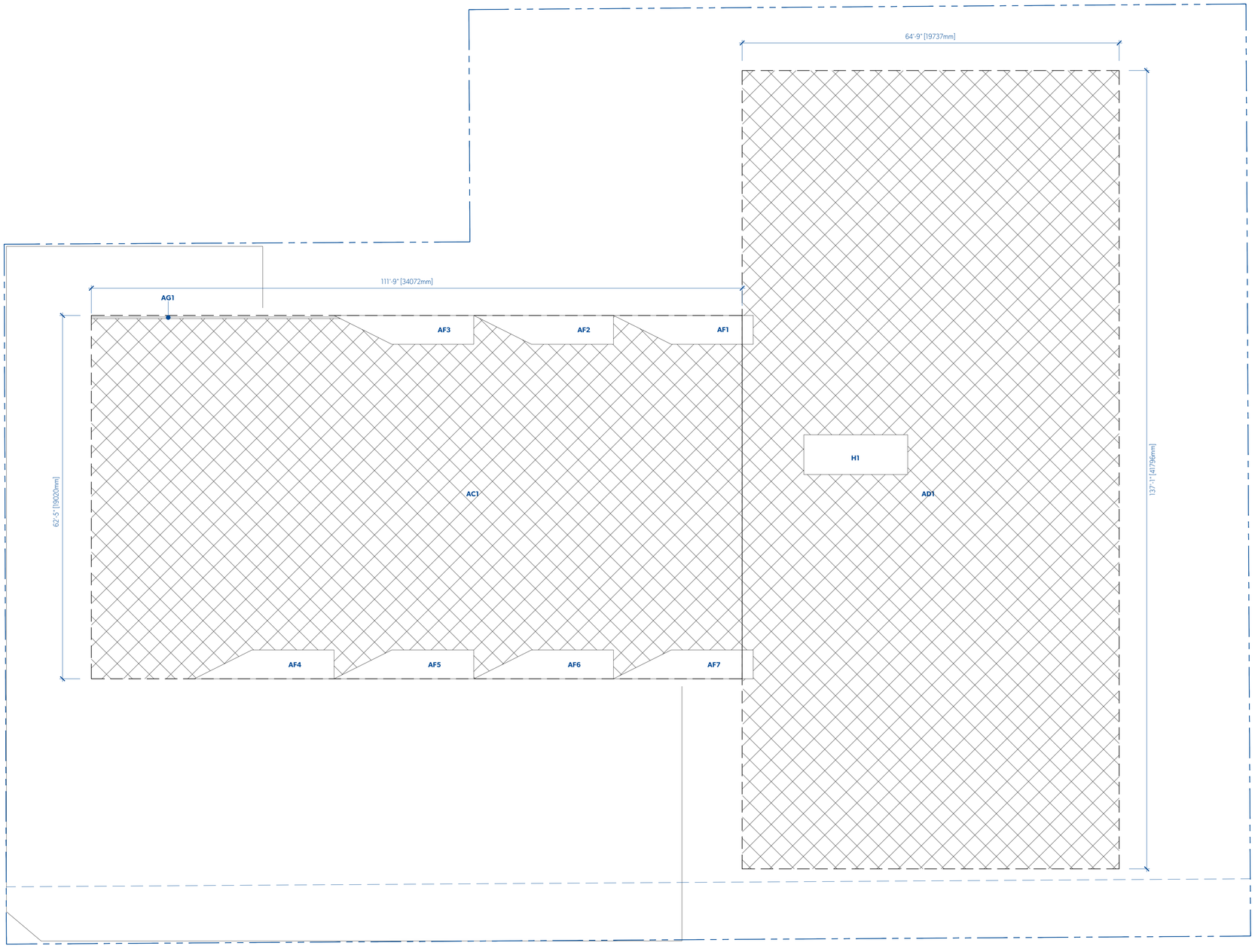
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A803
FSR LEVEL 3



LEVEL 4

	METRIC (M2)								
	LENGTH		WIDTH		AREA		QTY		TOTAL
GROSS AREA									
AC1	19.02	x	34.07	=	648.17 m2	x	1	=	648.17 m2
AD1	41.80	x	19.74	=	824.93 m2	x	1	=	824.93 m2
TOTAL GROSS AREA									**1473.10 m2**
AREA DEDUCTIONS									
H	5.44	x	2.08	=	11.32 m2	x	1	=	11.32 m2
AF	(SEE AF CALCULATIONS)			=	8.78 m2	x	7	=	61.43 m2
AG1	(SEE AG CALCULATIONS)			=	1.04 m2	x	1	=	1.04 m2
TOTAL DEDUCTIONS									**73.79 m2**
TOTAL GROSS AREA									1473.10 m2
TOTAL DEDUCTIONS								-	73.79 m2
TOTAL NET AREA									**1399.30 m2**

AF CALCULATIONS

GROSS AREA									
AFa	1.51	x	3.02	=	4.56 m2	x	0.5	=	2.28 m2
AFb	1.51	x	4.30	=	6.50 m2	x	1	=	6.50 m2
TOTAL NET AREA									**8.78 m2**

AG1 CALCULATIONS

GROSS AREA									
AGa	0.08	x	12.87	=	1.03 m2	x	1	=	1.03 m2
AGb	0.08	x	0.16	=	0.01 m2	x	0.5	=	0.01 m2
TOTAL NET AREA									**1.04 m2**

1 **FSR LEVEL 4**
A804 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

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2019-09-13	1	REVISED FOR REZONING
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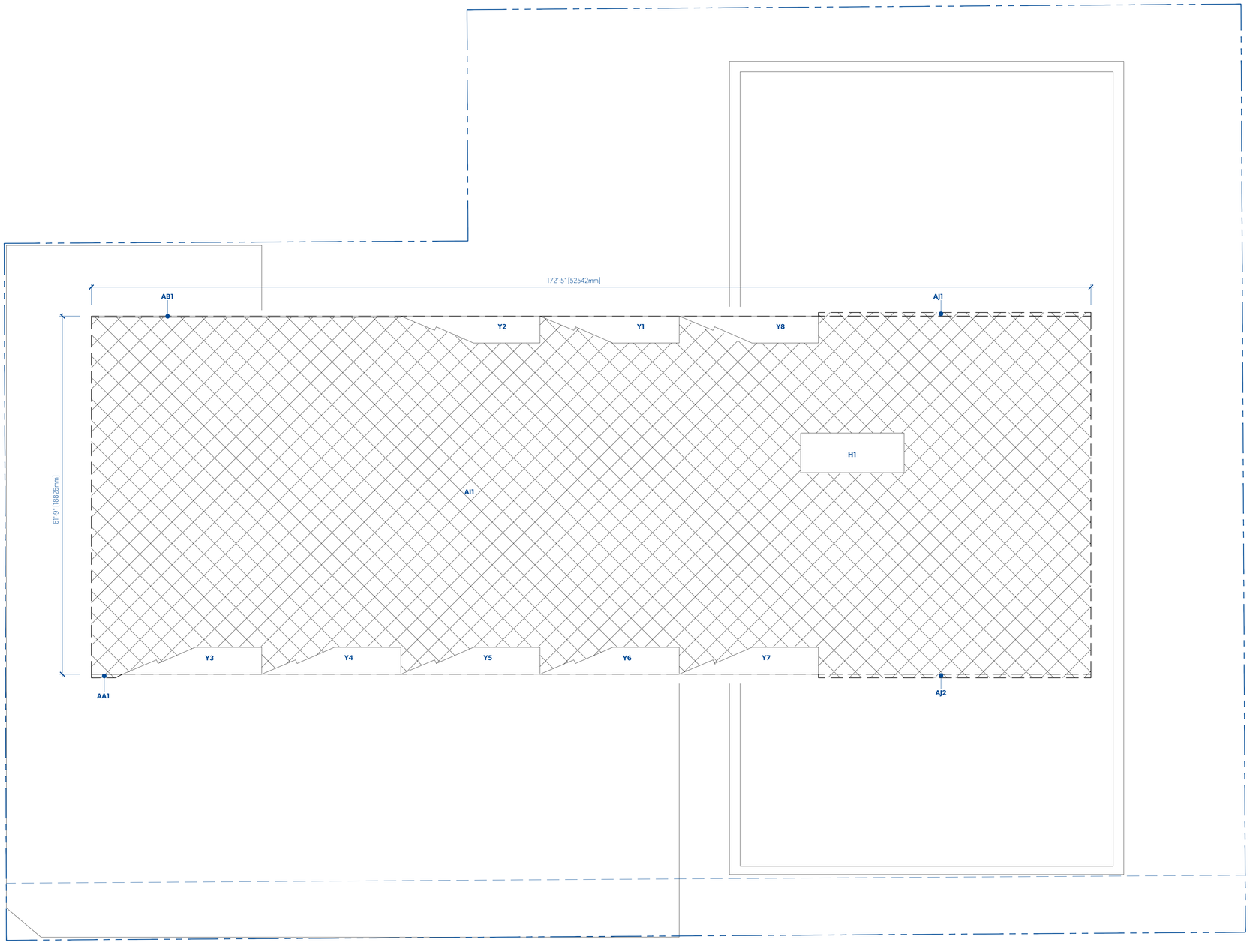
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A804
FSR LEVEL 4



LEVEL 5

	METRIC (M2)								
	LENGTH		WIDTH		AREA		QTY		TOTAL
GROSS AREA									
A1	18.82	x	52.50	=	988.12 m2	x	1	=	988.12 m2
AJ	0.19	x	14.33	=	2.73 m2	x	2	=	5.46 m2
AA1	(SEE AA CALCULATIONS)			=	0.28 m2	x	1	=	0.28 m2
TOTAL GROSS AREA									**993.86 m2**
AREA DEDUCTIONS									
H	5.44	x	2.08	=	11.32 m2	x	1	=	11.32 m2
Y	(SEE Y CALCULATIONS)			=	7.56 m2	x	8	=	60.48 m2
AB1	0.06	x	16.27	=	1.03 m2	x	1	=	1.03 m2
TOTAL DEDUCTIONS									**72.83 m2**
TOTAL GROSS AREA									993.86 m2
TOTAL DEDUCTIONS								-	72.83 m2
TOTAL NET AREA									**921.02 m2**

Y CALCULATIONS

GROSS AREA									
Ya	0.82	x	1.88	=	1.54 m2	x	0.5	=	0.77 m2
Yb	0.61	x	2.14	=	1.31 m2	x	0.5	=	0.66 m2
Yc	1.72	x	1.41	=	2.42 m2	x	0.5	=	1.21 m2
Yd	1.41	x	3.49	=	4.92 m2	x	1	=	4.92 m2
TOTAL NET AREA									**7.56 m2**

Z CALCULATIONS

GROSS AREA									
Za	0.82	x	1.66	=	1.36 m2	x	0.5	=	0.68 m2
Zb	0.61	x	2.10	=	1.29 m2	x	0.5	=	0.65 m2
Zc	1.68	x	1.41	=	2.37 m2	x	0.5	=	1.18 m2
Zd	1.41	x	3.54	=	4.99 m2	x	1	=	4.99 m2
Ze	0.09	x	1.85	=	0.16 m2	x	0.5	=	0.08 m2
TOTAL NET AREA									**7.58 m2**

AA CALCULATIONS

GROSS AREA									
Aaa	0.19	x	1.26	=	0.24 m2	x	1	=	0.24 m2
Aab	0.19	x	0.37	=	0.07 m2	x	0.5	=	0.04 m2
TOTAL NET AREA									**0.28 m2**

1 **FSR LEVEL 5**
A805 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

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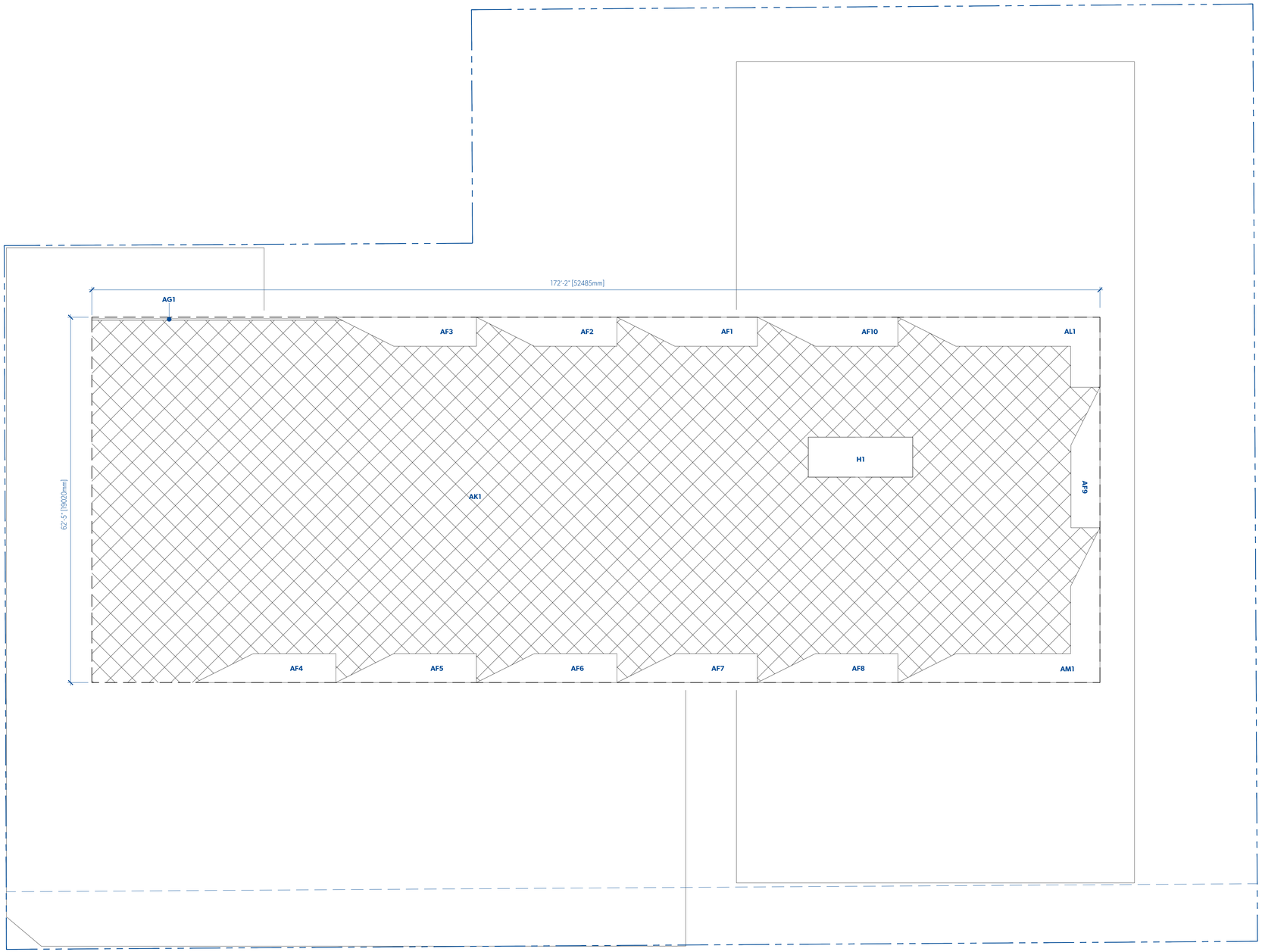
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A805
FSR LEVEL 5



LEVEL 6

				METRIC (M2)				
	LENGTH		WIDTH	AREA		QTY		TOTAL
GROSS AREA								
AK1	19.02	x	52.50	= 998.79 m2	x	1	=	998.79 m2
TOTAL GROSS AREA								**998.79 m2**
AREA DEDUCTIONS								
H	5.44	x	2.08	= 11.32 m2	x	1	=	11.32 m2
AF	(SEE AF CALCULATIONS)			= 8.78 m2	x	10	=	87.76 m2
AG1	(SEE AG CALCULATIONS)			= 1.04 m2	x	1	=	1.04 m2
AL1	(SEE AL CALCULATIONS)			= 16.86 m2	x	1	=	16.86 m2
AM1	(SEE AM CALCULATIONS)			= 21.23 m2	x	1	=	21.23 m2
TOTAL DEDUCTIONS								**138.21 m2**
TOTAL GROSS AREA								998.79 m2
TOTAL DEDUCTIONS							-	138.21 m2
TOTAL NET AREA								**860.58 m2**

AF CALCULATIONS

GROSS AREA								
AFa	1.51	x	3.02	= 4.56 m2	x	0.5	=	2.28 m2
AFb	1.51	x	4.30	= 6.50 m2	x	1	=	6.50 m2
TOTAL NET AREA								**8.78 m2**

AG1 CALCULATIONS

GROSS AREA								
AGa	0.08	x	12.87	= 1.03 m2	x	1	=	1.03 m2
AGb	0.08	x	0.16	= 0.01 m2	x	0.5	=	0.01 m2
TOTAL NET AREA								**1.04 m2**

AL1 CALCULATIONS

GROSS AREA								
ALa	1.51	x	3.02	= 4.56 m2	x	0.5	=	2.28 m2
ALb	1.51	x	7.50	= 11.33 m2	x	1	=	11.33 m2
ALc	2.13	x	1.52	= 3.25 m2	x	1	=	3.25 m2
TOTAL NET AREA								**16.86 m2**

AM1 CALCULATIONS

GROSS AREA								
AMa	3.05	x	1.52	= 4.65 m2	x	0.5	=	2.33 m2
AMb	1.51	x	3.50	= 5.29 m2	x	1	=	5.29 m2
AMc	1.51	x	7.50	= 11.33 m2	x	1	=	11.33 m2
Amd	1.51	x	3.02	= 4.56 m2	x	0.5	=	2.28 m2
TOTAL NET AREA								**21.23 m2**

1 **FSR LEVEL 6**
A806 1:100

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85°

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A806
FSR LEVEL 6

1 **VIEW NORTHWEST FROM CORNER OF PANDORA & COOK**
A811

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A811
3D RENDERS

1 **VIEW WEST THROUGH RESIDENTIAL MEWS**
A812

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A812
3D RENDERS

1 **VIEW SOUTHWEST FROM COOK STREET**
A813

MGA
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MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
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2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A813
3D RENDERS

1 **VIEW EAST TO COURTYARD**
A815

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A814
3D RENDERS

1 **BALCONY STUDY**
A816

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MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
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PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A815
3D RENDERS

1 **ADJACENT PROPERTY STUDY | VIEW WEST ACROSS COOK STREET**
A817

2 **ADJACENT PROPERTY STUDY | VIEW SOUTHWEST DOWN COOK STREET**
A817

3 **ADJACENT PROPERTY STUDY | VIEW EAST ACROSS FRANKLIN GREEN PARK**
A817

4 **ADJACENT PROPERTY STUDY | VIEW WEST ALONG NORTH WALKWAY**
A817

MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
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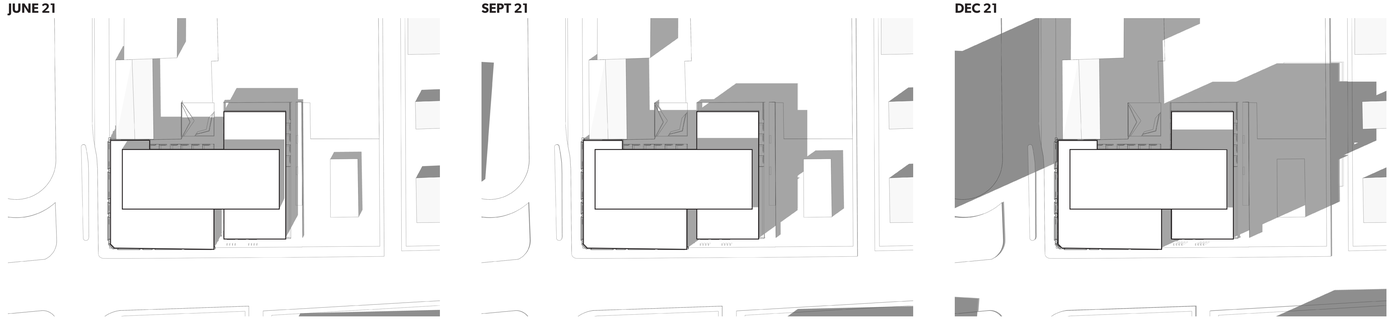
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

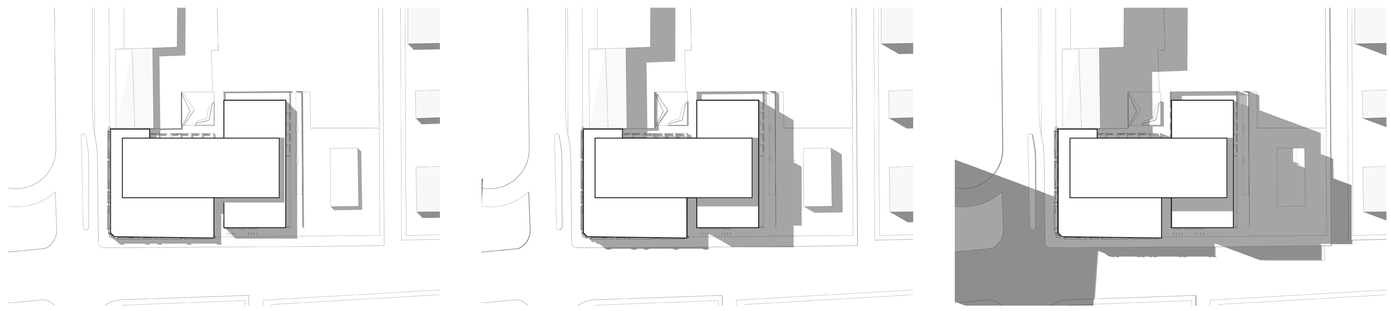
A817
ADJACENT PROPERTY STUDY

JUNE 21 | **SEPT 21** | **DEC 21**

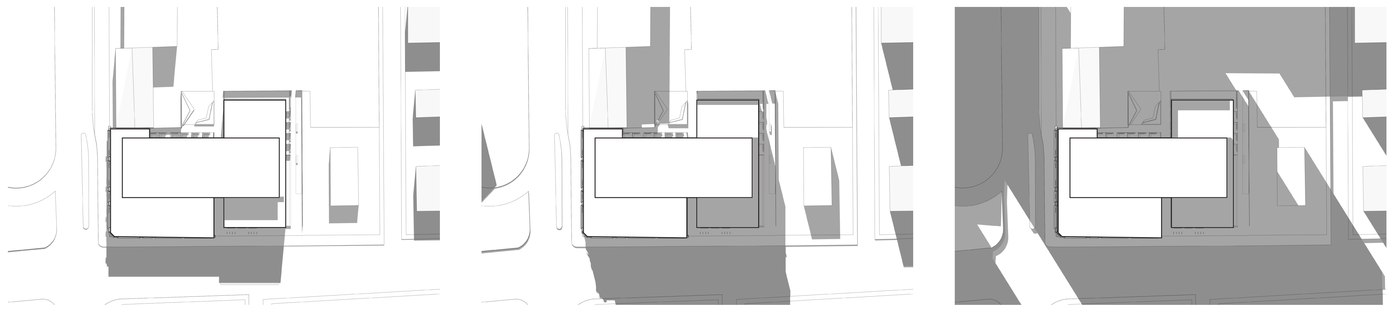
9.00 AM



12.00 PM



3.00 PM



1 **SOLAR IMPACT ANALYSIS**
A821

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

85° N

DATE	REVISION	DESCRIPTION
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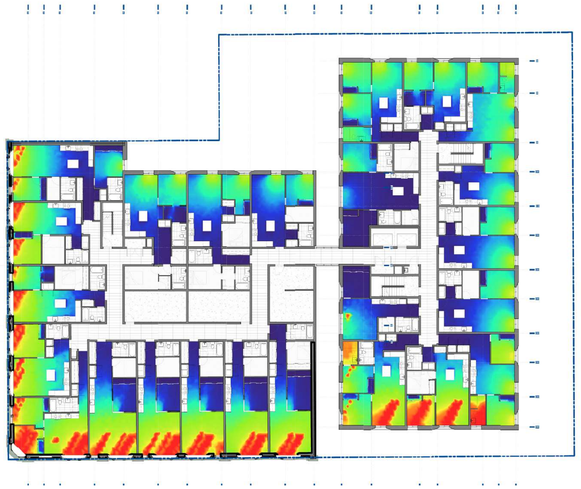
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

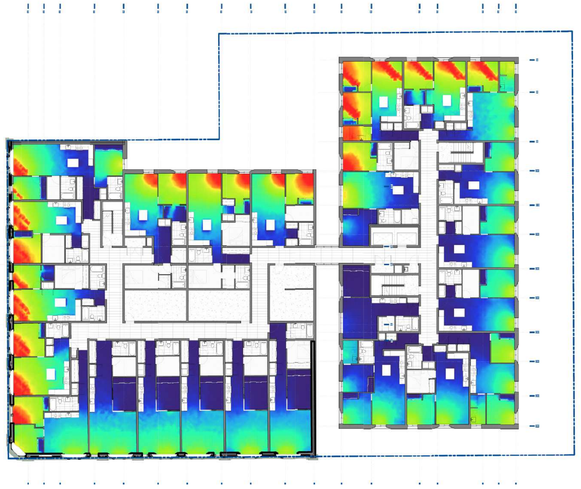
PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

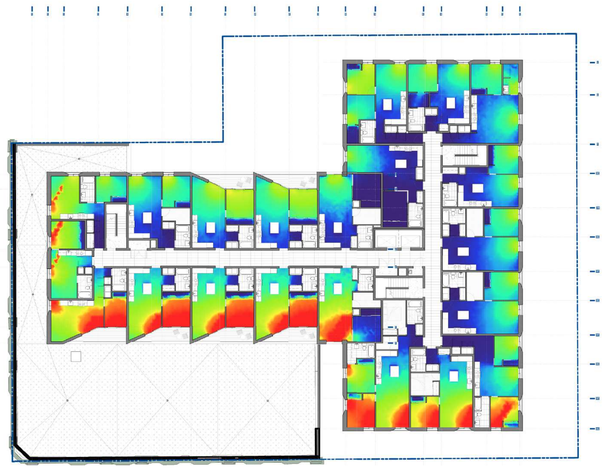
A821
SOLAR IMPACT ANALYSIS



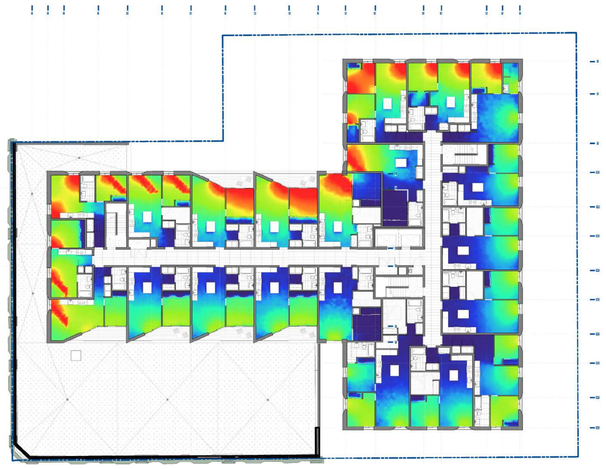
1 LEVEL 2, 9:00 AM, 14.50 (LUX)
A822



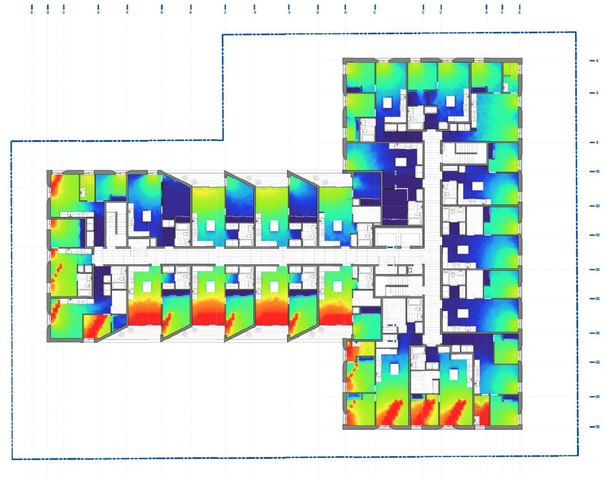
2 LEVEL 2, 3:00 PM, 14.50 (LUX)
A822



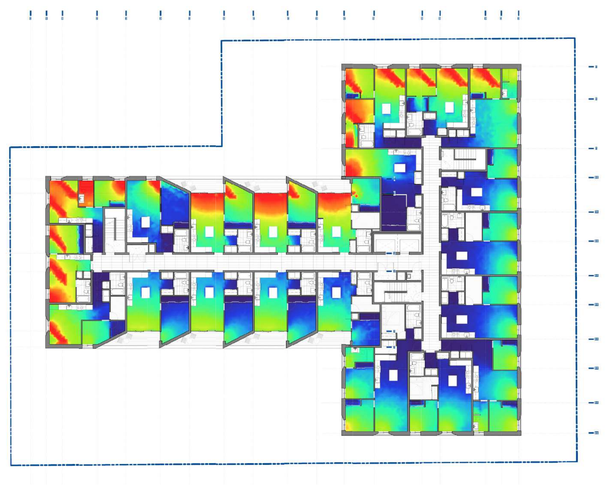
3 LEVEL 3, 9:00 AM, 24.67 (LUX)
A822



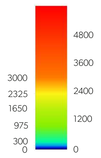
4 LEVEL 3, 3:00 PM, 24.67 (LUX)
A822



5 LEVEL 4, 9:00 AM, 34.83 (LUX)
A822



6 LEVEL 4, 3:00 PM, 34.83 (LUX)
A822



MGA

MICHAEL GREEN ARCHITECTURE
1535 W 3RD AVENUE, VANCOUVER BC
CANADA V6J 1J8

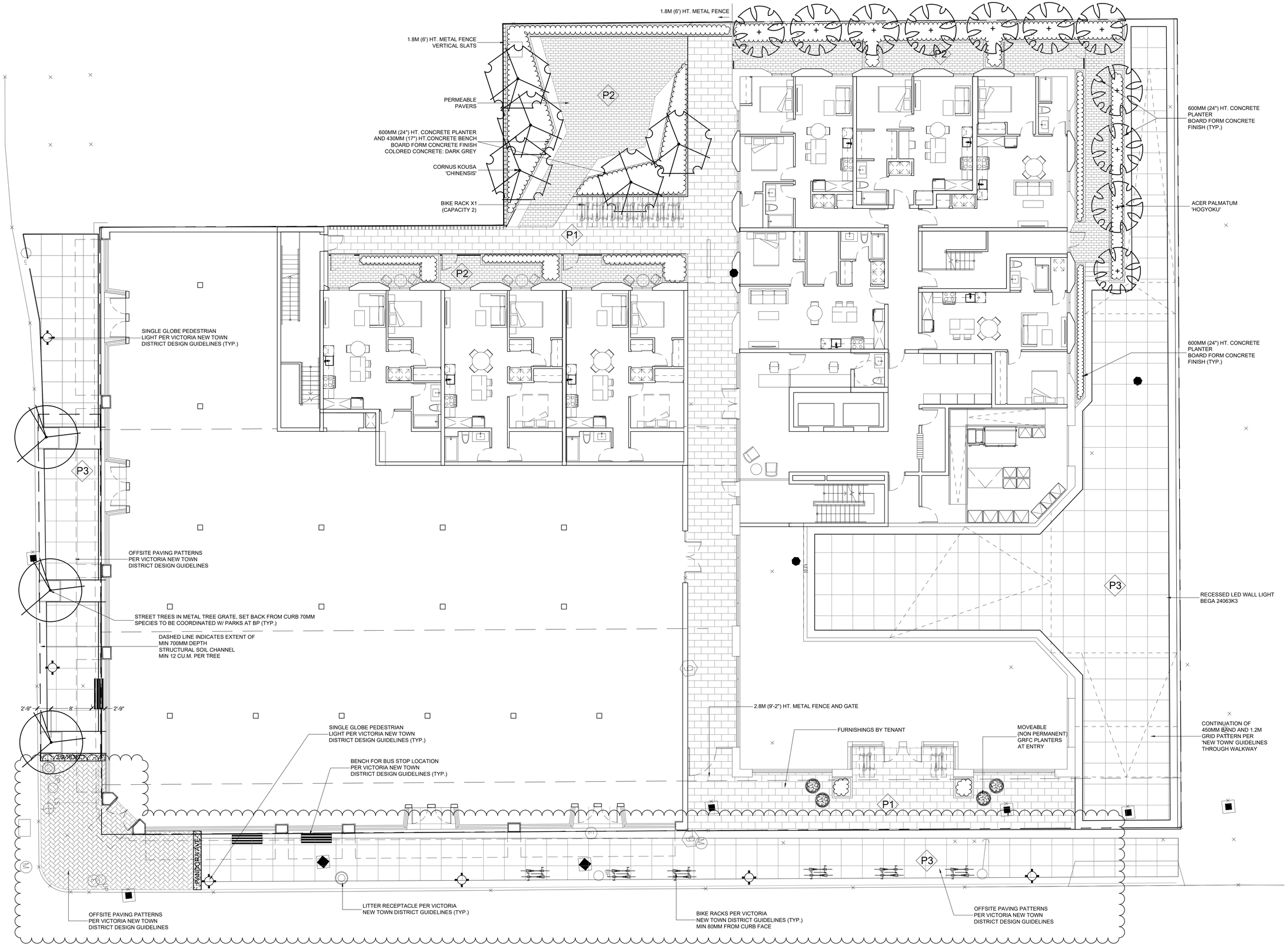
85° N

DATE	REVISION	DESCRIPTION
2020-03-20	3	REVISED FOR REZONING
2019-10-30	2	REVISED FOR REZONING
2019-09-13	1	REVISED FOR REZONING
2019-05-15	0	ISSUED FOR REZONING

PARKWAY

1050 PANDORA AVE + 1518 COOK STREET
VICTORIA, BC
2018-001

A822
Illuminance Analysis



pmg
LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

BRITISH COLUMBIA SOCIETY OF LANDSCAPE ARCHITECTS
REGISTERED MEMBER
MARYCHAN YIP
177

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
5	19.OCT.21	NEW SITE PLAN&CLIENT REQUEST	DD
3	19.OCT.03	60% CD SET	BA
2	19.SEP.27	REZONING	BA
1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

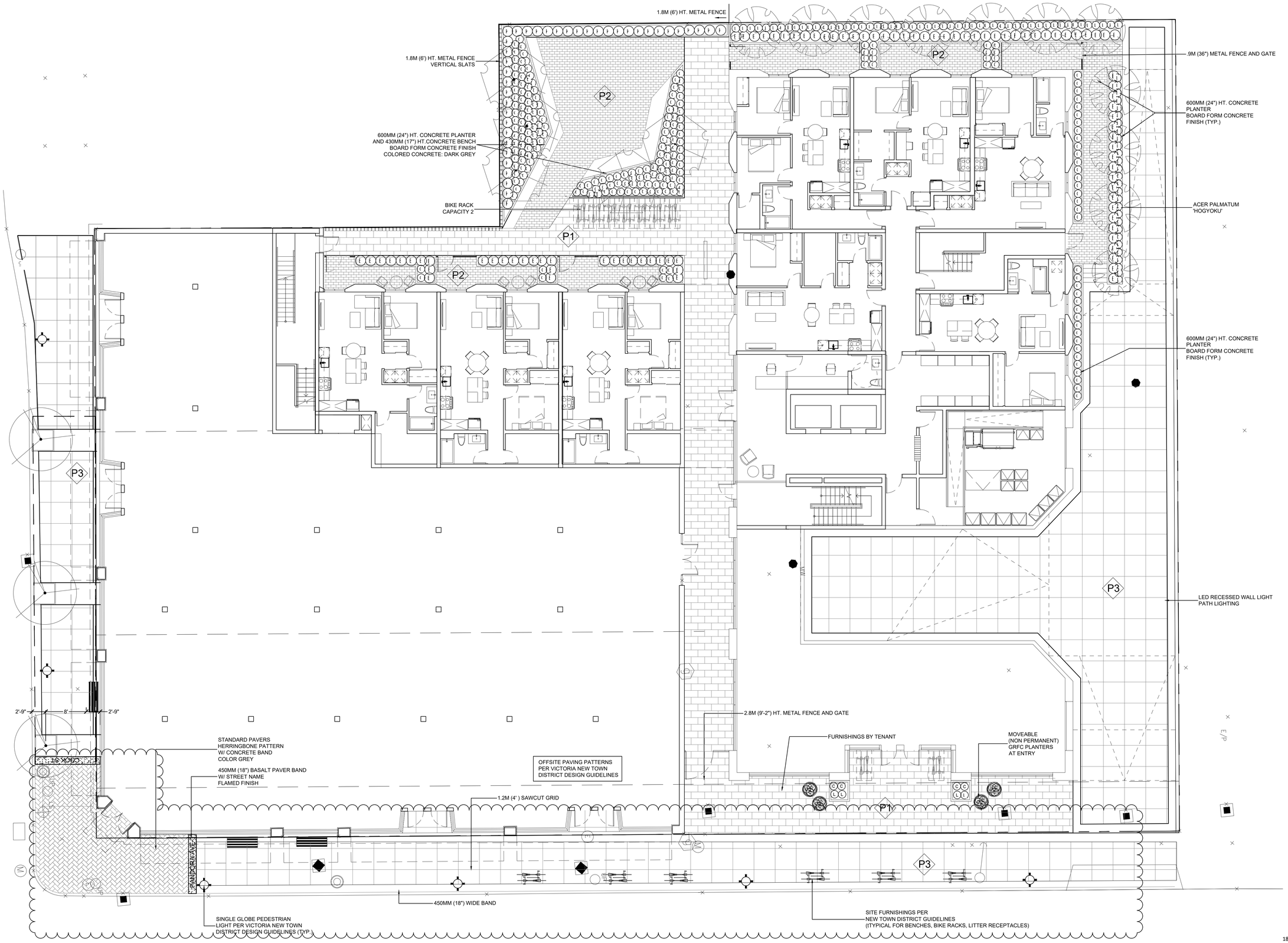
LANDSCAPE PLAN

DATE: 19.JUL.10
SCALE: 1:100
DRAWN: BA
DESIGN: BA
CHK'D:

DRAWING NUMBER: **L1**
OF 9

PMG PROJECT NUMBER: **18240**

18240-11.ZIP



pmg
LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

BRITISH COLUMBIA SOCIETY OF LANDSCAPE ARCHITECTS
REGISTERED MEMBER
M. PATRICK MACIP
2777

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
5	19.OCT.21	NEW SITE PLAN&CLIENT REQUEST	DD
3	19.OCT.03	60% CD SET	BA
2	19.SEP.27	REZONING	BA
1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

SHRUB PLAN

DATE:	19.JUL.10	DRAWING NUMBER:
SCALE:	1:100	**L2**
DRAWN:	BA	
DESIGN:	BA	
CHK'D:		**OF 9**

PMG PROJECT NUMBER: **18240**

18240-11.ZIP

PLANT SCHEDULE

PMG PROJECT NUMBER: 18240

KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
TREE				
	11	ACER PALMATUM 'HOGYOKU'	JEWEL JAPANESE MAPLE	3M HT; B&B; UPRIGHT FORM
	5	CORNUS KOUSA 'CHINENSIS'	CHINESE KOUSA DOGWOOD	3M HT; TREE FORM; B&B
	9	STREET TREE	COORDINATE WITH PARKS DEPT	-
SHRUB				
B	91	BUXUS MICROPHYLLA KOREANA	KOREAN BOXWOOD	#3 POT; 40CM
GRASS				
K	39	CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'	FEATHER REED GRASS	#1 POT
C	239	CAREX OSHIMENSIS	JAPANESE SEDGE	#1 POT
PERENNIAL				
L	85	LAVENDULA ANGUSTIFOLIA 'MUNSTEAD'	ENGLISH LAVENDER; COMPACT; VIOLET-BLUE	#2 POT

NOTES: * PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CNLA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. * REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL REQUIREMENTS. * SEARCH AND REVIEW: MAKE PLANT MATERIAL AVAILABLE FOR OPTIONAL REVIEW BY LANDSCAPE ARCHITECT AT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. * SUBSTITUTIONS: OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. UNAPPROVED SUBSTITUTIONS WILL BE REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD - DEFINITION OF CONDITIONS OF AVAILABILITY. * ALL LANDSCAPE MATERIAL AND WORKMANSHIP MUST MEET OR EXCEED BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD LATEST EDITION. * ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. * BIO-SOLIDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

CONTRACTOR TO PROVIDE DESIGN-BUILD HIGH EFFICIENCY IRRIGATION SYSTEM THAT MEETS CURRENT IIABC STANDARDS. DEVELOPER AND/OR LANDSCAPE ARCHITECT TO REVIEW DESIGN PRIOR TO INSTALLATION.

ROOF LANDSCAPE LEGEND

KEY	DESCRIPTION
G1	SEDUM TILE - ETERA 'COLOR MAX'
G2	SEDUM TILE - ETERA 'ALL SEASONS'
G3	SEDUM TILE - ETERA 'BLUE MIX'
G4	BASALT GRAVEL - 50MM CLEAR

G1 - 'COLOR MAX'

G2 - 'ALL SEASONS'

G3 - 'BLUE MAX'

G4 - 50MM CLEAR BASALT GRAVEL

ALUMINUM PLANTER - MEWS AND PATIOS
POWDERCOAT: BLACK

MATERIALS LEGEND

KEY	DESCRIPTION
P1	BARKMAN BROADWAY PAVER 24X12", COLOR GREY
P2	EXPOCRETE AQUAROC STANDARD SIZE, PERMEABLE PAVER COLOR GREY
P3	450MM (18") CONCRETE BAND W/ 1.2M SAWCUT GRID PER VICTORIA NEW TOWN GUIDELINES

P1 - BARKMAN BROADWAY 24X12"

P2 - EXPOCRETE AQUAROC PERMEABLE PAVER

CALAMAGROSTIS ACUTIFLORA 'KARL FOERSTER'

BUXUS M. KOREANA

CAREX OSHIMENSIS

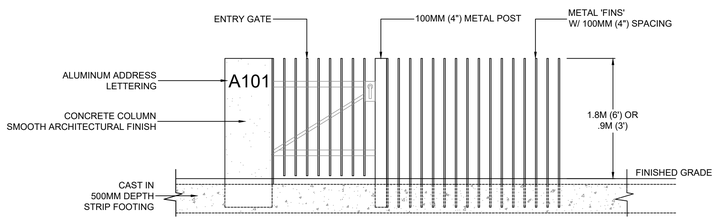
LAVENDULA 'MUNSTEAD'

CALAMAGROSTIS BRACHYTRICHA

ACER PALMATUM 'HOGY0KU'

CORNUS K. CHINESIS

ACER GINNALA



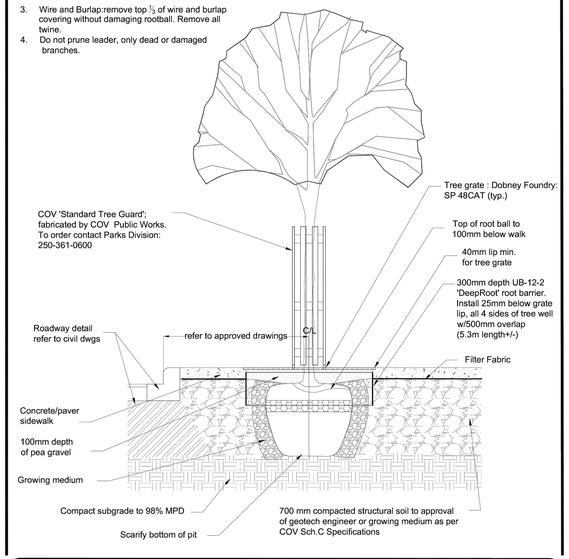
1.8M and .9M HT. VERTICAL SLAT FENCE AND GATE
1:25

1.8M (6') HT. PERIMETER FENCE AND 1.07M (42") HT. PATIO GATES

Preparation notes:

1. Container grown: remove completely from container
2. Burlap and rope:remove top ⅓ of covering
3. Wire and Burlap:remove top ⅓ of wire and burlap covering without damaging rootball. Remove all twine.
4. Do not prune leader, only dead or damaged branches.

NOTE: ALL TREES SHALL MEET OR EXCEED THE CITY OF VICTORIA (COV) SCHEDULE C SPECIFICATIONS



Parks Division

Oct.23/18:RootBarrier note revised
File: v:design/construct_design specs/const details/P500/SD_P5

TITLE:	SCALE: Not to Scale	DRAWING
Tree Planting in Sidewalk with Tree Guard	DATE: Feb.27, 2018	SD-P5
	DWN.:	
	APP'D.:	

18240-11.ZIP

pmg LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
5	19.OCT.21	NEW SITE PLAN&CLIENT REQUEST	DD
3	19.OCT.03	60% CD SET	BA
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1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
–	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

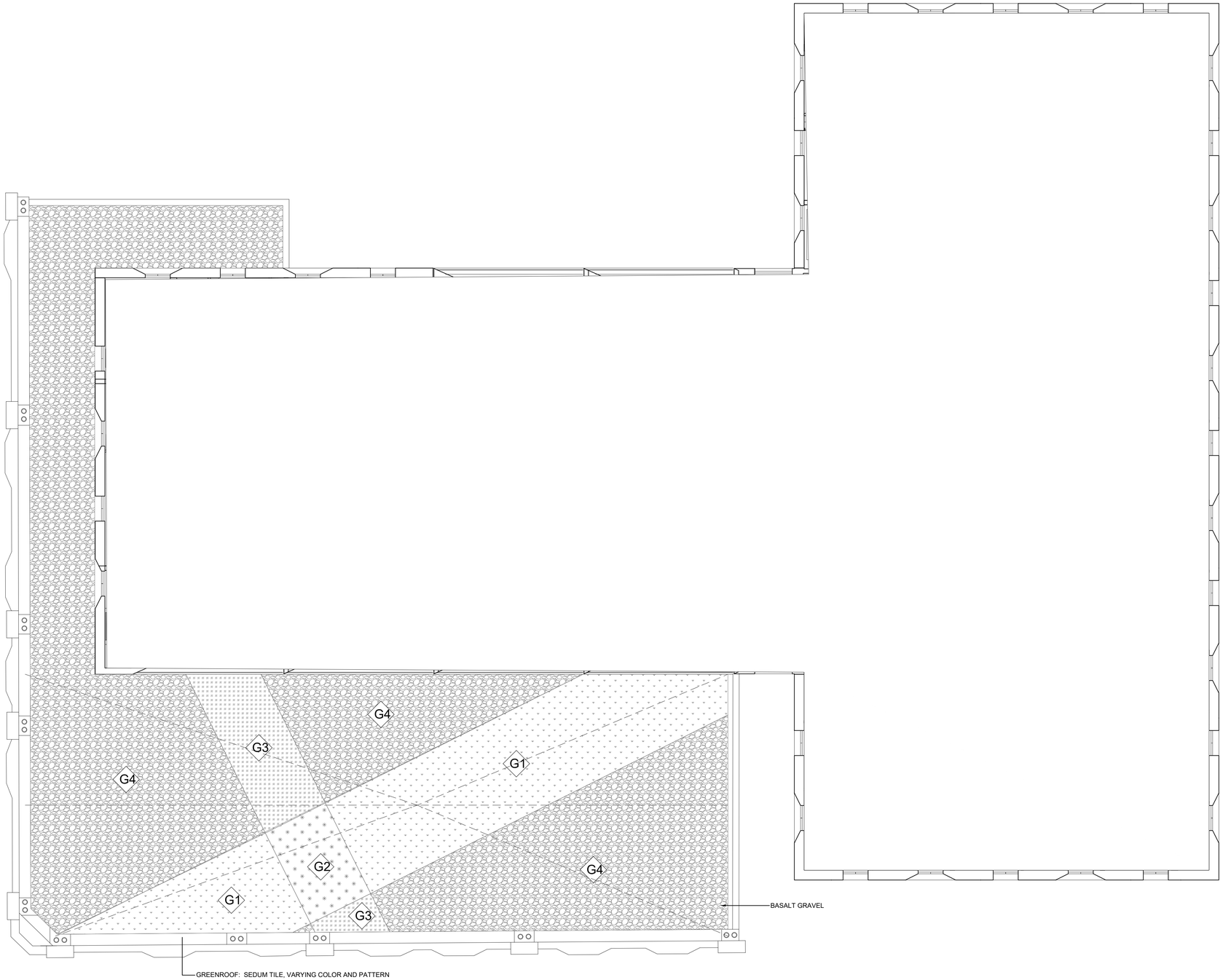
1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

LANDSCAPE DETAILS

DATE:	19.JUL.10	DRAWING NUMBER:
SCALE:	AS SHOWN	**L3**
DRAWN:	BA	
DESIGN:	BA	
CHK'D:		**OF 9**

PMG PROJECT NUMBER: **18240**



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LANDSCAPE ARCHITECTS
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p: 604 294-0011 ; f: 604 294-0022

SEAL:

BRITISH COLUMBIA SOCIETY OF LANDSCAPE ARCHITECTS
REGISTERED MEMBER
MARY CHAN YIP
477

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
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-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

LEVEL 3 ROOF LANDSCAPE

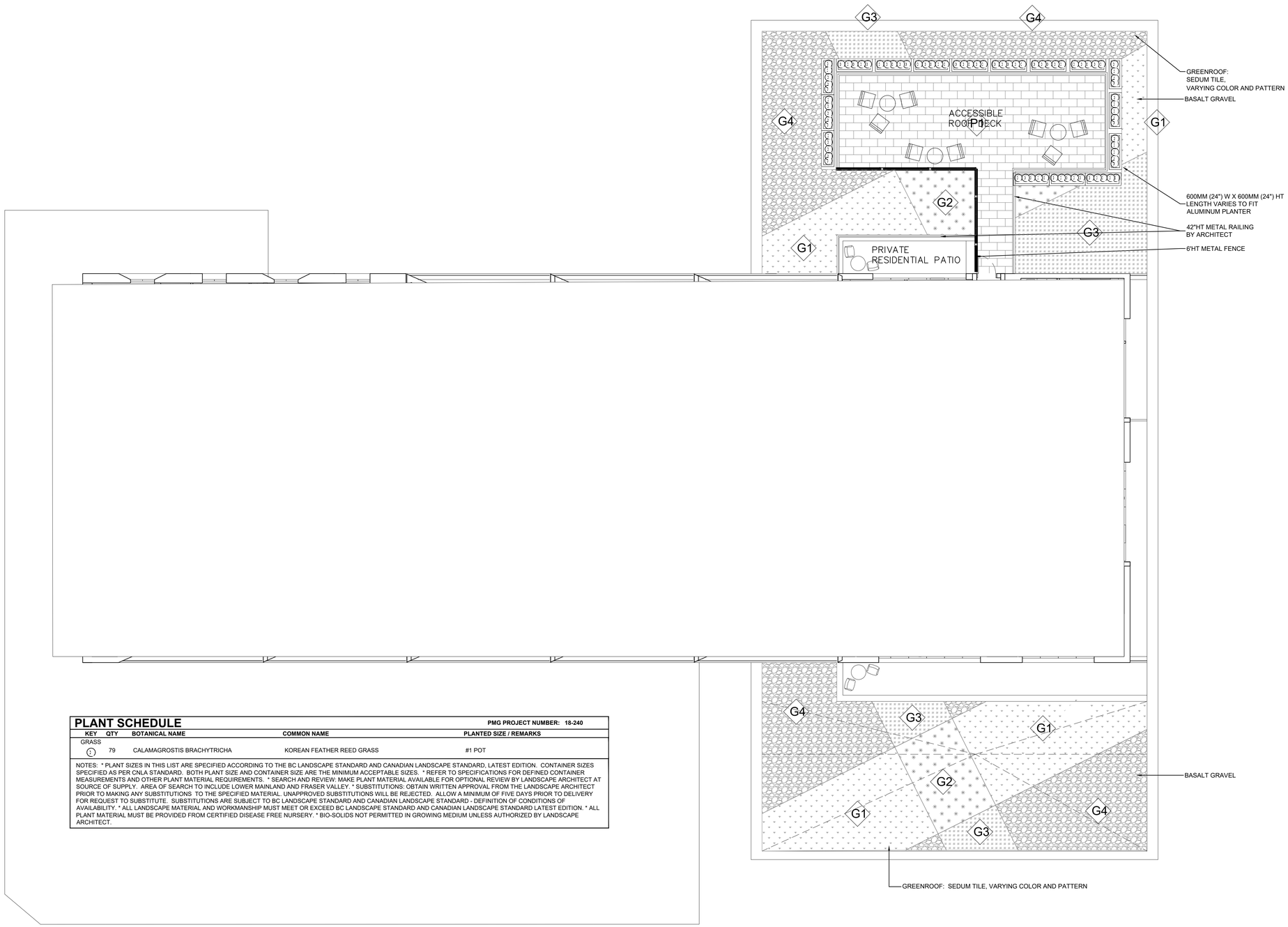
DATE: 19.JUL.10
SCALE: 1:100
DRAWN: BA
DESIGN: BA
CHK'D:

DRAWING NUMBER: **L4**

OF 9

18240-11.ZIP

PMG PROJECT NUMBER: **18240**



PLANT SCHEDULE

PMG PROJECT NUMBER: 18-240

KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
GRASS				
1	79	CALAMAGROSTIS BRACHYTRICHA	KOREAN FEATHER REED GRASS	#1 POT

NOTES: * PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD, LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CNLA STANDARD. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. * REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL REQUIREMENTS. * SEARCH AND REVIEW: MAKE PLANT MATERIAL AVAILABLE FOR OPTIONAL REVIEW BY LANDSCAPE ARCHITECT AT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. * SUBSTITUTIONS: OBTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. UNAPPROVED SUBSTITUTIONS WILL BE REJECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD - DEFINITION OF CONDITIONS OF AVAILABILITY. * ALL LANDSCAPE MATERIAL AND WORKMANSHIP MUST MEET OR EXCEED BC LANDSCAPE STANDARD AND CANADIAN LANDSCAPE STANDARD LATEST EDITION. * ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. * BIO-SOLIDS NOT PERMITTED IN GROWING MEDIUM UNLESS AUTHORIZED BY LANDSCAPE ARCHITECT.

pmg LANDSCAPE ARCHITECTS
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Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

BRITISH COLUMBIA SOCIETY OF LANDSCAPE ARCHITECTS
REGISTERED MEMBER
MARYANN WONG
177

NO.	DATE	REVISION DESCRIPTION	DR.
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9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
5	19.OCT.21	NEW SITE PLAN&CLIENT REQUEST	DD
3	19.OCT.03	60% CD SET	BA
2	19.SEP.27	REZONING	BA
1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

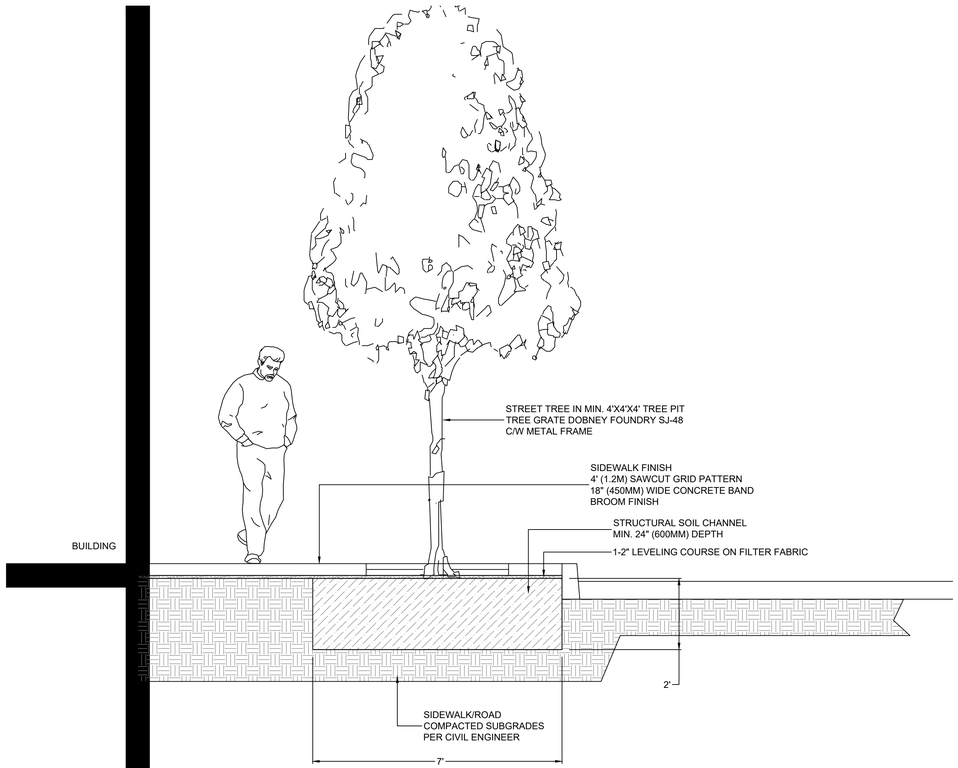
LEVEL 5 ROOF LANDSCAPE

DATE: 19.JUL.10
SCALE: 1:100
DRAWN: BA
DESIGN: BA
CHK'D:

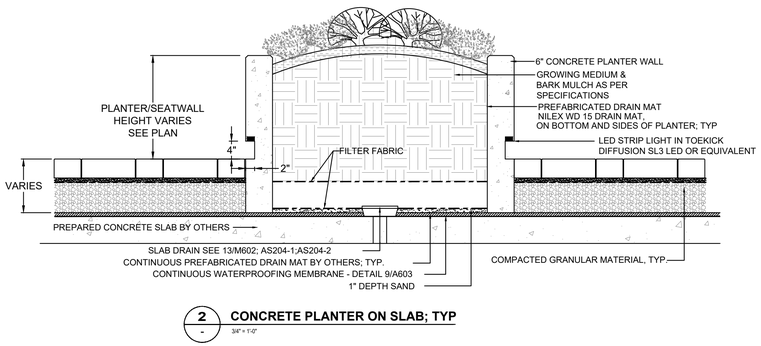
DRAWING NUMBER: **L5** OF 9

18240-11.ZIP

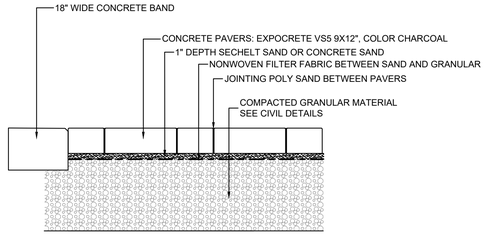
PMG PROJECT NUMBER: **18240**



1 TYP. SECTION THRU STRUCTURAL SOIL CHANNEL
1 1/2" = 1'-0"

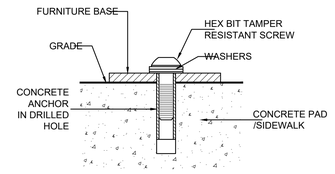


2 CONCRETE PLANTER ON SLAB; TYP
3/4" = 1'-0"



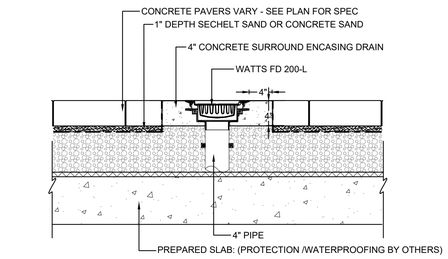
NOTE:
PAVERS TO BE INSTALLED
TO MANUFACTURERS SPECIFICATIONS

3 PAVERS ON GRADE - OFFSITE
1" = 1'-0"



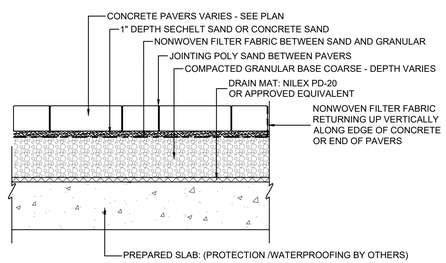
NOTE:
SITE FURNISHINGS TO BE INSTALLED TO
MANUFACTURERS SPECIFICATIONS

4 SITE FURNITURE MOUNTING
N.T.S.



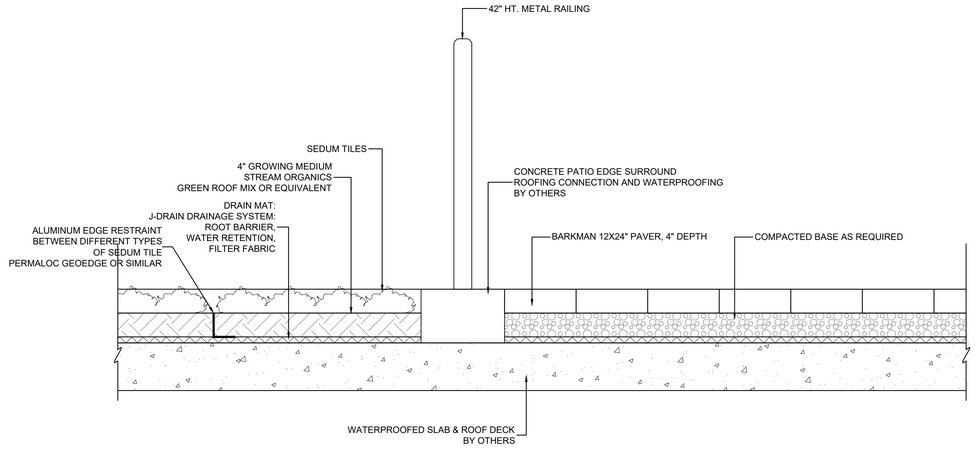
PAVER INSTALLATION PER MANUFACTURER SPECIFICATION

5 AREA DRAIN WITHIN PAVERS ON SLAB
1" = 1'-0"



PAVER INSTALLATION PER MANUFACTURER'S SPECIFICATION

6 CONCRETE PAVERS ON SLAB
1" = 1'-0"



7 TYP. SEDUM ROOF LEVEL 3 AND 5, TYP. PATIO LEV 5
1" = 1'-0"

pmg
LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
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1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

LANDSCAPE DETAILS AND SECTIONS

DATE: 19.JUL.10
SCALE: AS SHOWN
DRAWN: BA
DESIGN: BA
CHK'D:

DRAWING NUMBER: **L6**
OF 9

PMG PROJECT NUMBER: **18240**

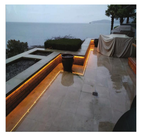
18240-11.ZIP

LIGHTING LEGEND

KEY	DESCRIPTION
◇	SINGLE GLOBE PEDESTRIAN LIGHT PHILLIPS MICENAS LED4 OR APPROVED EQUIVALENT BDP791 LED43-4S/740 II DS50 GF BK 76
▲	SINGLE GLOBE PEDESTRIAN LIGHT PHILLIPS MICENAS LED4 OR APPROVED EQUIVALENT BDP791 LED43-4S/740 II DS50 GF BK 76
◇	SINGLE GLOBE PEDESTRIAN LIGHT PHILLIPS MICENAS LED4 OR APPROVED EQUIVALENT BDP791 LED43-4S/740 II DS50 GF BK 76

SINGLE GLOBE PEDESTRIAN LIGHTING

TREE UPLIGHT



STRIP LIGHT UNDER TOE KICK

18240-11.ZIP

pmg
LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

NO.	DATE	REVISION DESCRIPTION	DR.
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CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

LIGHTING LAYOUT PLAN

DATE: 19.JUL.10
SCALE: 1:100
DRAWN: BA
DESIGN: BA
CHK'D:

DRAWING NUMBER: **L7**

OF 9

PMG PROJECT NUMBER: **18240**

PART ONE GENERAL REQUIREMENTS

1.1 REFE

.1 CCDC Doc 2 2008
Comply with all articles in the General Conditions of Contract in conjunction with this section unless superseded by other Contract Documents.

.2 Canadian Landscape Standard, latest edition, prepared by the Canadian Society of Landscape Architects and the Canadian Landscape & Nursery Association, jointly. All work and materials shall meet standards as set out in the Canadian Landscape Standard unless superseded by this specification or as directed by Landscape Architect with written instruction.

.3 MASTER MUNICIPAL SPECIFICATIONS & STANDARD DETAILS, 2000 edition, prepared by the Consulting Engineers of British Columbia, Roadbuilders and Heavy Construction Association, and the Municipal Engineers Division

.4 STANDARD FOR LANDSCAPE IRRIGATION SYSTEM, 2008: Prepared by the Irrigation Industry Association of British Columbia.

.5 MUNICIPAL BYLAWS AND ENGINEERING SPECIFICATIONS WHERE NOTED.

1.2 TESTING

.1 A current (not more than one month) test for all growing medium to be used on this site is required. Provide and pay for testing by an independent testing facility pre-approved by the Landscape Architect. Deliver growing medium test results to Landscape Architect for review and approval prior to placement. Refer to Section 3.4 Growing Medium Testing for procedure.

.2 Owner reserves the right to test or re-test materials. Contractor responsible to pay for testing if materials do not meet specification.

1.3 SUBMITTALS

.1 Any alternate products differing from that contained in the contract documents must be pre-approved by the Landscape Architect.

.2 Submittals to consist of product sample or manufacturer's product description.

1.4 SITE REVIEW

.1 Under the terms of the Landscape Architect's Contract with the Owner and where the Landscape Architect is the designated reviewer, the Landscape Architect will observe construction as is necessary in their opinion to confirm conformance to the plans and specifications. Contact Owners Representative to arrange for site observation at the appropriate times. Allow two days notice. Observation schedule may include but will not be limited to the following:
.1.1 Start Up Site Meeting, General Contract: Prior to any site disturbance, a meeting with the general contractor to review tree preservation issues, general landscape issues and municipal requirements.
.1.2 Start Up Site Meeting, Landscape Contract (if separate): At the start of work with Owner's Representative, Site Superintendent and Landscape Contractor; a meeting is to be held to review expected work and to verify the acceptability of the subgrade and general site conditions to the Landscape Contractor. Provide growing medium test results for this meeting.
.1.3 Progress Site Visits: To observe materials and workmanship as necessary through the course of the work. Review of different aspects of the work may be dealt with on any single visit. Such elements may include: Site Layout, Rough Grading, Growing Medium - quality, depths, finish grading; Drainage and Drainage Materials; Lawns or Grass areas; Planting -plant material including negotiations with suppliers, nursery inspections, plant sizes, quality, quantity, planting practice and layout, tree support; Mulch; Irrigation Systems; Play Equipment; Site Furniture; and other elements of the site development where the Landscape Architect is the designated reviewer such as: Pedestrian Paving, Fencing, Non-structural walls and slabs, Unit Paving.
.1.4 Substantial Performance: Review of all work, accounting of all substitutions, deletions; plant counts, preparations of deficiency list, and recommendations for completion.
.1.5 Certificate of Completion: Upon the declaration of Substantial Performance, a recommendation for the issuance of the Certificate of Completion will be made to the Payment Certifier as defined in the contract.
.1.6 Deficiency Review: Prior to the completion of the holdback period, check for completion of deficiencies. Once completed, a Schedule 'C' will be issed where required.
.1.7 Warranty Review: Prior to the completion of the waranty period (+/- 11 months after issuance of the Certificate of Completion), review all waranty material and report reccmmendations for waranty replacement.

1.5 WORKMANSHIP

.1 Unless otherwise instructed in the Contract Documents, the preparation of the subgrade shall be the responsibility of the General Contractor. Placement of growing medium constitutes acceptance of the subgrade by the Landscape Contractor. Any subsequent corrections to the subgrade required are the responsibility of the Landscape Contractor.

.2 All work and superintendence shall be performed by personnel skilled in landscape contracting. In addition, all personnel applying herbicides and/or pesticides shall hold a current license issued by the appropriate authorities.

.3 A site visit is required to become familiar with site conditions before bidding and before start of work.

.4 Confirm location of all services before proceeding with any work.

.5 Notify Landscape Architect of any discrepancies. Obtain approval from Landscape Architect prior to deviating from the plans.

.6 Take appropriate measures to avoid environmental damage. Do not dump any waste materials into water bodies. Conform with all federal, provincial and local statutes and guidelines.

.7 Collect and dispose of all debris and/or excess material from landscape operations. Keep paved surfaces clean and repair damage resulting from landscape work. Repairs are to be completed prior to final acceptance.

.8 Where new work connects with existing, and where existing work is altered, make good to match existing undisturbed condition.

1.6 WARRANTIES

.1 Guarantee all materials and workmanship for a minimum period of one full year from the date of Certificate of Completion.

.2 Refer to individual sections for specific warranties.

PART TWO SCOPE OF WORK

2.1 SCOPE OF WORK

.1 Other conditions of Contract may apply. Confirm Scope of Work at time of tender.

.2 Work includes supply of all related items and performing all operations necessary to complete the work in accordance with the drawings and specifications and generally consists of the following:

.2.1 Retention of Existing Trees where shown on drawings.
.2.2 Finish Grading and Landscape Drainage.
.2.3 Supply and placement of growing medium.
.2.4 Testing of imported growing medium and/or site topsoil,
.2.5 Supply and incorporation of additives to meet requirements of soil test and Table One.
.2.6 Preparation of planting beds, supply of plant material and planting.
.2.7 Preparation of rough grass areas, supply of materials and seeding.
.2.8 Preparation of lawn areas, supply of materials and sodding.
.2.9 Supply and placement of bark mulch.
.2.10 Maintenance of planted and seeded/sodded areas until accepted by Owner.
.2.11 SEPARATE PRICE: Establishment Maintenance, Section 3.11.
.2.12 Other work: Work other than this list, not specified by Landscape Architect.

2.2 MATERIALS

.1 Growing Medium: Conform to Canadian Landscape Standard for definitions of imported and on-site topsoil. Refer to Table One below.

TABLE ONE: PROPERTIES OF GROWING MEDIUM FOR LEVEL 2 GROOMED AND LEVEL 3 MODERATE AREAS
Canadian System of Soil Classification Textural Class: "Loamy Sand" to "Sandy Loam".

Applications	Low Traffic Areas. Trees and Large Shrubs	High Traffic Lawn Areas	Planting Areas and Planters
Growing Medium Types	2L	2H	2P
Texture	Percent Of Dry Weight of Total Growing Medium		
Coarse Gravel: larger than 25mm	0 - 1%	0 - 1%	0 - 1%
All Gravel: larger than 2mm	0 - 5%	0 - 5%	0 - 5%
	Percent Of Dry Weight of Growing Medium Excluding Gravel		
Sand: larger than 0.05mm smaller than 2.0mm	50 - 80%	70 - 90%	40 - 80%
Silt: larger than 0.002mm smaller than 0.05mm	10 - 25%	0 - 15%	10 - 25%
Clay: smaller than 0.002mm	0 - 25%	0 - 15%	0 - 25%
Clay and Silt Combined	maximum 35%	maximum 15%	maximum 35%
Organic Content (coast):	3 - 10%	3 - 5%	10 - 20%
Organic Content (interior):	3 - 5%	3 - 5%	15 - 20%
Acidity (pH):	6.0 - 7.0	6.0 - 7.0	4.5 - 6.5
Drainage:	Percolation shall be such that no standing water is visible 60 minutes after at least 10 minutes of moderate to heavy rain or irrigation.		

.2 Fertilizer: An organic and/or inorganic compound containing Nitrogen (N), Phosphate (25), and Potash (soluble 2) in proportions required by soil test.

.3 Lime: Ground agricultural limestone. Meet requirements of the Canadian Landscape Standard.

.4 Organic Additive: Commercial compost product to the requirements of the Canadian Landscape Standard, latest edition and pre-approved by the Landscape Architect. Recommended suppliers: The Answer Garden Products, Fraser Richmond Soils & Fibre, Stream Organics Management.

.5 Sand: Clean, washed pump sand to meet requirements of the Canadian Landscape Standard.

.6 Composted Bark Mulch: 10mm (3/8") minus Fir/Hemlock bark chips and fines, free of chunks and sticks, dark brown in colour and free of all soil, stones, roots or other extraneous matter. Fresh orange in colour bark will be rejected.

.7 Herbicides and Pesticides: If used, must conform to all federal, provincial and local statutes. Appliers must hold current licenses issued by the appropriate authorities in the area.

.8 Filter Fabric: A non biodegradable blanket or other filtering membrane that will allow the passage of water but not fine soil particles. (Such as MIRAFI 140 NL, GEOLON N40 OR AMOCO 4545 or alternate product pre-approved by the Landscape Architect.)

.9 Drainage Piping if required: Schedule 40 PVC nominal sizes.

.10 Drain Rock: Clean, round, inert, durable, and have a maximum size of 19mm and containing no material smaller than 10mm.

.11 Plant Material: To the requirements of the Canadian Landscape Standard. Refer to 3.9, Plants and Planting. All plant material must be provided from a certified disease free nursery. Provide proof of certification.

.12 Sod: Refer to individual sections in this specification.

.13 Supplier and installers of segmental block walls to provide engineered drawings for all walls: signed and sealed drawings for all walls, individually, in excess of 1.2m, or combinations of walls collectively in excess of 1.2m. Installations must be reviewed and signed off by Certified Professional Engineer; inlcude cost of engineering services in Tender price.

.14 Miscellaneous: Any other material necessary to complete the project as shown on the drawings and described herein.

PART THREE SOFT LANDSCAPE DEVELOPMENT

3.1 RETENTION OF EXISTING TREES
.1 Prior to any work on site - protect individual trees or plant groupings indicated as retained on landscape plans as vegetation retention areas.
.1.1 In some instances the Landscape Architect will tag trees or areas to remain. Discuss tree retention areas at a start-up meeting with the Landscape Architect.

.2 A physical barrier must be installed to delineate clearing boundaries. Refer to physical barrier detail. If detail not provided, comply with local municipal requirements.

.3 No machine travel through or within vegetation retention areas or under crowns of trees to be retained is allowed.

.4 Do not stockpile soil, construction materials, or excavated materials within vegetation retention areas.

.5 Do not park, fuel or service vehicles within vegetation retention areas.

.6 No debris fires, clearing fires or trash burning shall be permitted within vegetation retention areas.

.7 No excavations, drain or service trenches nor any other disruption shall be permitted within vegetation retention areas without a review of the proposed encroachment by the Landscape Architect.

.8 Do not cut branches or roots of retained trees without the approval of the Landscape Architect.

.9 Any damage to existing vegetation intended for preservation will be subject to evaluation by an I.S.A. Certified Arborist using the "Guide for Plant Appraisal", Eighth Edition, 1992.
.9.1 Replacement planting of equivalent value to the disturbance will be required. The cost of the evaluation and of the replacement planting will be the responsibility of the General Contractor and or the person(s) responsible for the disturbance.

.10 In municipalities with specific tree retention/replacement bylaws ensure compliance to bylaws.

.11 In situations where required construction may disturb existing vegetation intended for preservation, contact Landscape Architect for review prior to commencing construction.

3.2 GRADES
.1 Ensure subgrade is prepared to conform to depths specified in Section 3.5, Growing Medium Supply, below. Where planting is indicated close to existing trees, prepare suitable planting pockets for material indicated on the planting plan. Shape subgrade to eliminate free standing water and conform to the site grading and drainage plan.

.2 On slopes in excess of 3:1 trench subgrade across slope to 150mm (6") minimum at 1.5m (5 ft.) intervals minimum.

.3 Scarify the entire subgrade immediately prior to placing growing medium. Re-cultivate where vehicular traffic results in compaction during the construction procedures. Ensure that all planting areas are smoothly contoured after light compaction to finished grades.

.4 Eliminate standing water from all finished grades. Provide a smooth, firm and even surface and conform to grades shown on the Landscape Drawings. Do not exceed maximum and minimum gradients defined by the Canadian Landscape Standard.

.5 Construct swales true to line and grade, smooth and free of sags or high points. Minimum slope 2%, maximum side slopes 10%. Assure positive drainage to collection points.

.6 Slope not to exceed the following maximums: Rough Grass 3:1, Lawn 4:1, Landscape plantings 2:1.

.7 Finished soil/mulch elevation at building to comply with municipal requirements.

.8 Inform Landscape Architect of completion of finish grade prior to placement of seed, sod, plants or mulch.

3.3 LANDSCAPE DRAINAGE
.1 Related Work: Growing medium and Finish Grading, Grass areas, Trees Shrubs and Groundcovers, Planters, Crib Walls.

.2 Work Included: Site finish grading and surface drainage. Installation of any drainage systems detailed on landscape plans. Note: Catch basins shown on landscape plans for coordination only, confirm scope of work prior to bid.
.2.1 Coordinate all landscape drainage work with rest of site drainage, Refer to engineering drawings and specifications for connections and other drainage work.
.2.2 Determine exact location of all existing utilities and structures and underground utilities prior to commencing work, which may not be located on drawings and conduct work so as to prevent interruption of service or damage to them. Protect existing structures and utility services and be responsible for damage caused.
.2.3 Planter drains on slab: Refer to Section 3.10, Installing Landscapes on Structures.

.3 Execution
.3.1 Do trenching and backfilling in accordance with engineering details and specifications.
.3.2 Lay drains on prepared bed, true to line and grade with inverts smooth and free of sags or high points. Ensure barrel of each pipe is in contact with bed throughout full length.
.3.3 Commence laying pipe at outlet and proceed in upstream direction.
.3.4 Lay perforated pipes with perforations at 8pm and 4pm positions.
.3.5 Make joints tight in accordance with manufacturer's directions.
.3.6 Do not allow water to flow through the pipes during construction except as approved by Engineer.
.3.7 Make watertight connections to existing drains, new or existing manholes or catchbasins where indicated or as directed by Landscape Architect.
.3.8 Plug upstream ends of pipe with watertight clean out caps.
.3.9 Surround and cover pipe with drain rock in uniform 150mm layers to various depths as shown in details, minimum 100mm.
.3.10 Cover drain rock with non-woven filter cloth lap all edges and seams minimum 150mm.
.3.11 Assure positive drainage.
.3.12 Back fill remainder of trench as indicated.
.3.13 Protect subdrains from floatation during installation.

3.4 GROWING MEDIUM TESTING
.1 Submit representative sample of growing medium proposed for use on this project to an independent laboratory. Provide test results to Landscape Architect prior to placing. Test results to include:
.1.1 Physical properties, % content of gravel, sand, silt, clay and organics.
.1.2 Acidity PH and quantities of lime or sulphur required to bring within specified range.
.1.3 Nutrient levels of principle and trace elements and recommendations for required soil amendments.
.1.4 Carbon/Nitrogen level.

3.5 GROWING MEDIUM SUPPLY AND PLACEMENT
.1 Supply all growing medium required for the performance of the Contract. Do not load, transport or spread growing medium when it is so wet that its structure is likely to be damaged.

.2 Supply all growing medium admixtures as required by the soil test. Amended growing medium must meet the specification for growing medium as defined in Table One for the various areas.
.2.1 Thoroughly mix required amendments into the full depth of the growing medium.
.2.2 Special mixes may be required for various situations. Refer to drawing notes for instructions.

.3 Place the amended growing medium in all grass and planting areas. Spread growing medium in uniform layers not exceeding 6" (150mm), over unfrozen subgrade free of standing water.

.4 Minimum depths of growing medium placed and compacted to 80%:
.4.1 On-grade:
.4.1.1 Seeded and sodded lawn........6" (150mm)
.4.1.2 Mass planted shrubs & groundcovers........18" (450mm)
.4.1.3 Groundcover only areas, if defined on plan........9" (225mm)
.4.1.4 Tree & large shrub pits........depth to conform to depth of rootball - width shall be at least twice the width of the root ball with saucer shaped sides.
.4.2 On-Slab:
.4.2.1 Irrigated lawn........9" (210mm)
.4.2.2 Groundcover areas........12" (300mm)
.4.2.3 Lawn without automatic irrigation........12" (300mm)
.4.2.4 Shrub & groundcover areas........18" (450mm)
.4.2.5 Trees and specimen shrubs×........30" (760mm) over columns and/or edge of slab (verify column locations on-site for tree locations.)
.4.2.6 Depth noted includes 1" to 2" (25-50mm) sand over filter fabric
.4.2.7 Maximum 18" depth growing medium except where mounded for trees over column points.

.5 Manually spread growing medium/planting soil around existing trees, shrubs and obstacles.

.6 In perimeter seeded grass areas, feather growing medium out to nothing at edges and blend into existing grades.

.7 Finished grades shall conform to the elevations shown on landscape and site plans.

3.6 ROUGH GRASS AREA - SEEDING
.1 General: Rough grass areas are noted on the drawings as "Rough Grass". Treat all areas defined as rough grass between all property lines of the project including all boulevards to edge of roads and lanes.

.2 Preparation of Surfaces: To Canadian Landscape Standard Class 3 Areas (Rough grass) Section 7.1.1.3
.2.1 Clean existing soil by mechanical means of debris over 50mm in any dimension.
.2.2 Roughly grade surfaces to allow for maintenance specified and for positive drainage.

.3 Time of Seeding: Seed from early spring (generally April 1st) to late fall (September 15th) of each year. Further extensions may be obtained on concurrence of the Landscape Architect.

.4 Seed Supply & Testing: All seed must be obtained from a recognized seed supplier and shall be No. 1 grass mixture delivered in containers bearing the following information:
.4.1 Analysis of the seed mixture
.4.2 Percentage of each seed type

.5 Seed Mixture: All varieties shall be rated as strong performers in the Pacific Northwest and are subject to client approval.
70% Creeping Red Fescue
20% Annual Rye
5% Saturn Perennial Rye
5% Kentucky Bluegrass
For Wildflower Areas use a mixture of Wildflowers with Hard Fescues (Terralink Coastal Wildflowers) with Hard Fescue or pre-approved alternate.

.6 Fertilizer: Mechanical seeding: Apply a complete synthetic slow-release fertilizer with maximum 35% water soluble nitrogen and a formulation ratio of 18-18-18 - 50% sulphur urea coated , 112 kg/ha(100lbs/acre) using a mechanical spreader.

.7 Seeding: Apply seed at a rate of 112k/H (100lbs /acre) with a mechanical spreader. Incorporate seed into the top 1/4" (6mm) of soil and lightly compact.

.8 Acceptance: Provide adequete protection of the seeded areas until conditions of acceptance have been met. Comply with Section 3.7 Hydroseeding.

3.7 HYDROSEEDING
.1 May be used as an alternate to mechanical seeding in rough grass areas.

.2 May not be used in areas of lawn unless pre-approved by the Landscape Architect prior to bidding.

.3 Preparation and Growing Medium:
.3.1 In areas of Rough Grass: Comply with Section 3.6 Rough Grass.
.3.2 Where approved for use in areas of lawn, comply with Section 3.8 Lawn Areas: Sodding.

.4 Protection: Ensure that fertilizer in solution does not come in contact with the foliage of any trees, shrubs, or other susceptible vegetation. Do not spray seed or mulch on objects not expected to grow grass. Protect existing site equipment, roadways, landscaping, reference points, monuments, markers and structures from damage. Where contamination occurs, remove seeding slurry to satisfaction of and by means approved by the Landscape Architect

.5 Mulch shall consist of virgin wood fibre or recycled paper fibre designed for hydraulic seeding and dyed for ease of monitoring application. If using recycled paper material for wood fibre substitute use 135% (by weight). Conform to Canadian Landscape Standard for mulch requirements.

.6 Water: Shall be free of any impurities that may have an injurious effect on the success of seeding or may be harmful to the environment.

.7 Equipment: Use industry standard hydraulic seeder/mulcher equipment with the tank volume certified by an identification plate or sticker affixed in plain view on the equipment. The hydraulic seeder/mulcher shall be capable of sufficient agitation to mix the material into a homogenous slurry and to maintain the slurry in a homogenous state until it is applied. The discharge pumps and gun nozzles shall be capable of applying the materials uniformly over the designated area.

PART THREE SOFT LANDSCAPE DEVELOPMENT - CONT

.8 Application Rate:
.8.1 Seed Mixture: 136 kg/ha (125 lbs/acre)
.8.2 Fertilizer: 112 kg/ha (100 lbs/acre)
.8.3 Coastal Wildflower Mix: Where specified, apply (31 lbs/acre) (1/4 lb.: 1 lb. of grass seed)
.8.4 Notes:
.8.4.1 At the time of Tender provide a complete chart of all components of the mix proposed including mulch, tackifier, water etc. Sloped sites require tackifier.
.8.4.2 Fertilizer:
.8.4.2.1 Rough Grass: If a soil analysis is available, comply with results.
.8.4.2.2 Lawn: Where hydroseeding is approved, comply with soil analysis recommendations.

.9 Accurately measure the quantities of each of the materials to be charged into the tank either by mass or by a commonly accepted system of mass-calibrated volume measurements. The materials shall be added to the tank while it is being filled with water, in the following sequence; seed, fertilizer. Thoroughly mix into a homogenous slurry. After charging, add no water or other material to the mixture. Do not leave slurry in the tank for more than four (4) hours.

.10 Distribute slurry uniformly over the surface of the area to be hydroseeded. Blend application into previous applications and existing grass areas to form uniform surfaces.

.11 Clean up: Remove all materials and other debris resulting from seeding operations from the job site.

.12 Maintenance: Begin maintenance immediately after seeding and continue for 60 days after Substantial Completion and until accepted by the Owner. Re-seed at three week intervals where germination has failed. Protect seeded areas from damage with temporary wire or twine fences complete with signage until grass area is taken over by the Owner. Water in sufficient quantities to ensure deep penetration and at frequent intervals to maintain vigorous growth until grass is taken over by the Owner. It is the Owner's responsibility to supply water at no extra cost to the Contract.

.13 Acceptance of the Rough Grass Areas: Proper germination of all specified grass species is the responsibility of the Landscape Contractor. The grass shall be reasonably well established, with no apparent dead or bare spots and shall be reasonably free of weeds (to Canadian Landscape Standard, Section 13 Maintenance Level 4 (Open space). Sixty days after substantial completion, areas meeting the conditions above will be taken over by the Owner. Areas seeded in Fall will be accepted in Spring one month after start of growing season, provided that the above conditions for acceptance are fulfilled.

3.8 LAWN AREAS - SODDING
.1 General: Treat all areas defined as lawn areas on the landscape plan between all property lines of the project including all boulevards to edge of roads and lanes.

.2 Growing Medium: Comply with Section 2.2.1, Growing Medium. Prior to sodding, request an inspection of the finished grade, and depth and condition of growing medium by the Landscape Architect.

.3 Time of Sodding: Sod from April 1st to October 1st. Further extensions may be obtained on concurrence of the Landscape Architect.

.4 Sod Supply: Conform to all conditions of Canadian Landscape Standard, Section 8, B.C. Standard for Turfgrass Sod.

.5 Specified Turfgrass by area: Refer to Table 2 below.

TABLE 2 SPECIFIED TURFGRASS BY AREA

Area	Description	Quality Grade	Major Species
CLASS 1	Lawn, all areas noted on drawings as lawn in urban development sites including boulevard grass	No. 1 Premium	Kentucky Blue for sun, Fescues for shade
CLASS 2	Grass - public parks, industrial and institutional sites	No. 2 Standard	same
CLASS 3	Rough Grass	see hydroseeding	
SPECIAL			

.6 Lime: The lime shall be as defined in Section 2.2.3, Materials. Apply at rates recommended in required soil test. Refer to Section 3.4 for method.

.7 Fertilizer: Refer to Section 2.2.2 Materials. Apply specified fertilizer at rates shown in the required soil test. Apply with a mechanical spreader. Cultivate into growing medium 48 hours prior to sodding. Apply separately from lime.

.8 Sodding: Prepare a smooth, firm, even surface for laying sod. Lay sod staggered with sections closely butted, without overlapping or gaps, smooth and even with adjoining areas and roll lightly. Water to obtain moisture penetration of 3" to 4" (7 - 10cm). Comply with requirements of Canadian Landscape Standard Section 8, BC Standard for Turfgrass Sod.

.9 Maintenance: Begin maintenance immediately after sodding and continue for 60 days after Substantial Completion and until accepted by the Owner. Protect sodded areas from damage with temporary wire or twine fences complete with signage until lawn is taken over by the Owner. Water to obtain moisture penetration of 3" to 4" (7-10cm) at intervals necessary to maintain sufficient growth. Keep grass cut at height of between 1-1/2" (4cm) and 2" (5cm). Provide adequate protection of sodded areas against damage until the turf has been taken over by Owner. Repair any damaged areas, re-grade as necessary. Aeration may be required if in the Landscape Architect's opinion, drainage through the sod base medium is impaired.

.10 Acceptance of Lawn Areas: The turf shall be reasonably well established, with no apparent dead spots or bare spots and shall be reasonably free of weeds (to Canadian Landscape Standard, Section 13 Maintenance Level 2 (Appearance). Use herbicides if necessary for weed removal unless other conditions of contract forbid their use. After the lawn has been cut at least twice, areas meeting the conditions above will be taken over by the Owner.

3.9 PLANTS AND PLANTING
.1 Conform to planting layout as shown on Landscape Plans.

.2 Obtain approval of Landscape Architect for layout and preparation of planting prior to commencement of planting operations.

.3 Make edge of beds with smooth clean defined lines.

.4 Time of Planting:
.4.1 Plant trees, shrubs and groundcovers only during periods that are normal for such work as determined by local weather conditions when seasonal conditions are likely to ensure successful adaptation of plants to their new location.

.5 Standards:
.5.1 All plant material shall conform to the requirements of the Canadian Landscape Standard, latest edition, unless exceeded by drawing Plant Schedule or this specification.
.5.1.1 Refer to Canadian Landscape Standard, Section 9, Plants and Planting and in Section 12, BCLNA Standard for Container Grown Plants for minimum standards.
.5.1.2 Refer to Plant Schedule for specific plant and container sizes and comply with requirements.
.5.2 Plant material obtained from areas with less severe climatic conditions shall be grown to withstand the site climate.

.6 Review:
.6.1 Review at the source of supply and/or collection point does not prevent subsequent rejection of any or all planting stock at the site.

.7 Availability:
.7.1 Area of search includes the Lower Mainland and Fraser Valley. Refer to Plant Schedule for any extension of area.
.7.2 Supply proof of the availability of the specified plant material within 30 days of the award of the Contract.

.8 Substitution:
.8.1 Obtain written approval of the Landscape Architect prior ro making any substitutions to the specified material. Non-approved substitutions will be rejected.
.8.2 Allow a minimum of 5 days prior to delivery for request to substitiute.
.8.3 Substitutions are subject to Canadian Landscape Standard - definition of Conditions of Availability.

.9 Plant Species & Location:
.9.1 Plants shall be true to name and of the height, caliper and size of root ball as shown on the landscape/site plan plant schedule. Caliper of trees is to be taken 6" (15cm) above grade.
.9.2 Plant all specified species in the location as shown on the landscape drawings. Notify Landscape Architect if conflicting rock or underground/overhead services are encountered.
.9.3 Deviation of given planting location will only be allowed after review of the proposed deviation by the Landscape Architect.

.10 Excavation:
.10.1 Trees and large shrubs: Excavate a saucer shaped tree pit to the depth of the rootball and to at least twice the width of the rootball. Assure that finished grade is at the original grade the tree was grown at.

.11 Drainage of Planting Holes:
.11.1 Provide drainage of planting pits where required. ie. on sloped conditions, break out the side of the planting pit to allow drainage down slope; and in flat conditions, mound to raise the rootball above impervious layer. Notify the Landscape Architect where the drainage of planting holes is limited.

.12 Planting and Fertilizing Procedures:
.12.1 Plant all trees and shrubs with the roots placed in their natural growing position. If burlapped, loosen around the top of the ball and cut away or fold under. Do not pull burlap from under the ball. Carefully remove containers without injuring the rootballs. After settled in place, cut twine. For wire baskets, clip and remove top three rows of wire.
.12.2 Fillthe planting holes by gently firming the growing medium around the root system in 6" (15cm) layers. Settle the soil with water. Add soil as required to meet finish grade. Leave no air voids. When 2/3 of the topsoil has been placed, apply fertilizer as recommended by the required soil test at the specified rates.
.12.3 Where planting is indicated adjacent to existing trees, use special care to avoid disturbance of the root system or natural grades of such trees.
.12.4 Where trees are in lawn areas, provide a clean cut mulched 900mm (3 ft.) diameter circle centered on the tree.

.13 Staking of Trees:
.13.1 Use two 2"x2"x5' stakes, unless superseded by municipal requirements. Set stakes minimum 2 ft. in soil. Do not drive stake through rootball.
.13.2 Leave the tree carefully vertical.
.13.3 Tie with pre-approved commercial, flat woven polypropylene fabric belt, minimum width 19mm (3/4"). Approved product: ArborTie - available from DeepRoot.
.13.4 Coniferous Trees over 6 ft. height: Guy with three 2-strand wires (11 gauge). Drive three stakes equidistant around the tree completely below grade.
.13.5 Trees 6 ft.+ on Wood or Concrete Decks: Guy as above using three deadmen (min. 2'x2"x4") buried to the maximum possible depth instead of stakes.
.13.6 Mark all guy wires with visible flagging material.

.14 Pruning:
.14.1 Limit pruning to the minimum necessary to remove dead or injured branches. Preserve the natural character of the plants, do not cut the leader. Use only clean, sharp tools. Make all cuts clean and cut to the branch collar leaving no stubs. Shape affected areas so as not to retain water. Remove damaged material.

.15 Mulching:
.15.1 Mulch all planting areas with an even layer of mulch to 2-1/2 - 3" (65 - 75mm) depth. Confirm placement of mulch in areas labeled "Groundcover Area" on drawings. Mulch a 3 ft. (900mm) diameter circle around trees in lawn areas, leave a clean edge.

.16 Acceptance:
.16.1 The establishment of all plant material is the responsibility of the Landscape Contractor.

.17 Plant Material Maintenance:
.17.1 Maintain all plant material for 60 days after landscape work has received a Certificate of Completion.
.17.2 Watering: Conform to Canadian Landscape Standard, Section 13.3.2 - Watering and generally as follows:
.17.2.1 Water to supplement natural rainfall such that the soil moisture content is kept to 50% to 100% of field capacity. Water to the full depth of the root zone each time. The Owner is responsible to supply water at no extra cost to the Contract. Confirm source of water prior to beginning work.
.17.3 Use appropriate measures to combat pests or diseases damaging plant material. Comply with all local governing statutes and guidelines for chemical control.
.17.4 Plant material which fails to survive shall be replaced in the next appropriate season as determined by the Landscape Architect.
.17.5 Repair tree guards, stakes, and guy wires, when necessary.
.17.6 Maintain areas relatively weed free. (Appearance level 2, Canadian Landscape Standard, Chapter 13).
.17.7 Maintain mulch to specified depths.

.18 Plant Warranty:
.18.1 Replace all unsatisfactory plant material except those designated "Specimen" for a period of one (1) year after the Certificate of Completion. Replace all unsatisfactory plant material designated "Specimen" for a period of two (2) years after the Certificate of Completion. Replace all unsatisfactory trees and shrubs and continue to replace these until the specified number is complete and satisfactory to the Landscape Architect. Such replacement shall be subject to the notification, inspection and approval as specified for the original planting, and shall not constitute an extra to the Contract.
.18.2 Those Plants, identified as hardy within one zone of the Canada Department of Agriculture tonal class for the area, specified by the Landscape Architect and installed by the Landscape Contractor which are killed through below normal temperatures (below the average of the extreme minimum temperatures officially recorded in the area concerned, in the last 10 years), will not be replaced without cost of replacement borne by the Owner.
.18.3 A review may be requested during the latter part of the warranty growing season. All plant material showing well developed foliage, healthy growth and bud forming, will then be taken over.

PART THREE SOFT LANDSCAPE DEVELOPMENT - CONT

.18.4 For all plant material, the Landscape Architect reserves the right to extend the Contractor's responsibility for another growing season if, in his opinion, leaf development and growth is not sufficient to ensure future satisfactory growth.
.18.5 Where the Owner is responsible for plant maintenance and has not provided adequate maintenance, the plant replacement section of the contract may be declared void. The Landscape Architect shall determine whether maintenance has been satisfactory using the Canadian Landscape Standard, Section 13, Maintenance as the guide. The required maintenance standard is a minimum of Level Three - Medium. Refer to Section 3.11, Establishment Maintenance.
.18.6 The Landscape Contractor is responsible to replace any plant material or repair any construction included in the Contract that is damaged or stolen until the issuance of the Certificate of Completion.
.18.7 Deviation from the specifications may require extension of the Warranty Period as determined by the Landscape Architect.

3.10 INSTALLING LANDSCAPE ON STRUCTURES
.1 Verify that drainage and protection material is completely installed and acceptable before beginning work. Contact Landscape Architect for instructions if not in place.

.2 Coordinate work with construction of planters and planter drainage.
.2.1 Verify that planter drains are in place and positive drainage to roof drains is present prior to placing any drain rock or soil.

.3 Provide clean out at all through-slab drain locations . Use 300mm min. dia. PVC Pipe filled with drain rock unless specific drawing detail shown.

.4 Install drain rock evenly to a minimum depth of 4" (100mm)or alternate sheet drain if specified. Install sheet drain as per manufacturer's recommendations.

.5 Cover drain rock (or alternate sheet drain if specified on drawing details) with filter fabric lapping 6" (150mm) at all edges. Obtain approval of drainage system prior to placing growing medium.

.6 Place an even layer of 25 - 50mm clean washed pump sand over filter fabric.

.7 Place growing medium to depths specified in Section 3.5 above for various surface treatments. Refer to Drawing details for any light weight filler required to alter grade. Use Styrofoam block over drain rock shaped to provide smooth surface transition at edges. Butt each piece tightly together and cover with filter fabric to prevent soil from migrating downward.

3.11 ESTABLISHMENT MAINTENANCE (Provide a separate price for this section)
.1 Intent: The intent of "establishment" maintenance is to provide sufficient care to newly installed plant material for a relatively short period of time to ensure or increase the long term success of the planting. The objective is the adaptation of plants to a new site in order to obtain the desired effect from the planting while reducing the rate of failure and unnecessary work associated with improper establishment. Establishment of maintenance procedures apply to all new and retained vegetation including cultivated turfgrass areas and new trees and shrubs.

.2 Maintenance Period: Provide maintenance of installed landscaping for 12 months following substantial completion.

.3 Related Standards and Legislation: Canadian Landscape Standard, latest edition; Fertilizer Code., B.C. Pesticide Control Act.

.4 Site Review: In addition to the inspections at substantial completion, at final progress draw application, and at the end of the guarantee period, there should be three other reviews during the 12 months attended by the Contractor and a designated representative of the Owner. Maintain a logbook and reporting procedures and submit to the designated representative.

.5 Scheduling: Prepare a schedule of anticipated visits and submit to designated representative at start-up. Maintenance operations shall be carried out predominately during the growing season between March 1st and November 30th, however visits at other times of the year may be required.

.6 Maintenance Level: Comply with B. C. Landscape Standard, Section 14, Table 14.2, Maintenance Level 2 "Groomed".

.7 Materials: Comply with Part Two of this specification.
.7.1 Fertilizers: To the requirements of the Canadian Landscape Standard. Formulations and rates as required by soil testing.

.8 Plant Material Establishment:
.8.1 Watering: During the first growing season, water new plants at least every ten (10) days between April 1st and July 31st, and every twenty (20) days between August 1st and September 15th. Minimum 25 gallons per tree per application. During the second growing season, water new plants at least every twenty days between April 1 and July 31 and once between August 1st and September 31st. Apply water at a rate and duration such that the water content reaches field capacity to the full depth of the growing medium. Apply water again when the water content reaches 25% of field capacity. Provide and irrigate with water in the event that any automatic irrigation system malfunctions or has not been completely installed. Scheduled applications of water shall be missed only when rainfall has penetrated the soil fully as required.
.8.2 Mulch: Maintain mulches in the original areas and to the original depths.
.8.3 Weed Control: Remove all weeds from all areas at least once per month during the growing season by hoeing or cultivation to a maximum depth of 80mm, hand-pulling, or, if necessary, by the use of herbicides.
.8.4 Pest and Disease Control: Inspect all planted areas for pests and diseases periodically and at least every two months during the growing season by an experienced person. Carry out treatment for pests or diseases promptly and consistently for maximum effectiveness. Comply with all B.C. Pesticide Control Act and municipal requirements.
.8.5 Tree Support: Maintain stakes, guy wires and ties one full growing season. Check ties at least every two months to ensure that they are not causing a depression in the bark. Loosen, repair or replace ties as necessary. Remove all stakes guy wires and ties after the first growing season except where large trees require continuing support in the opinion of the Landscape Architect. All flagging of guy wires shall be visible and in good repair.
.8.6 Pruning: Inspect all trees and shrubs at least every two months during the growing season; prune to remove all dead, weak or diseased wood. Maintain the natural shape of the plant. Carry out clipping or shaping only if required in the maintenance contract for specific varieties or conditions.
.8.7 Fertilizing: Once during the twelve month period of establishment maintenance fertilize shrubs, trees and groundcovers according to soil analysis requirements.

.9 Grass Areas Establishment:
.9.1 Watering: Use hoses and sprinklers, irrigation systems or other methods to apply water to Class 1 and Class 2 grassed areas (Canadian Landscape Standard, Section 7, Lawns and Grasses) such that the grass is maintained in a turgid condition. Supply and irrigate with water in the event of any irrigation system malfunction, or incomplete installation at no expense to the owner. Apply water to prevent packing or erosion of the soil. Apply water at a rate and duration so that the water content in the growing medium reaches field capacity to the full depth of the growing medium. Apply water again when the water content reaches 25% of field capacity.
.9.2 Weed, Insect and Disease Control: Inspect grass areas each time they are mowed for weeds, insect pests, and diseases and treat promptly when necessary by appropriate manual methods, or by the use of chemicals in compliance with the B.C.S.L.A./B.C.L.N.A. Landscape Standards latest edition. Kill broadleafed weeds in grassed areas by a general application of a suitable herbicide if the weed population exceeds 10 Broadleaf weeds or 50 annual weeds or weedy grasses per 40 square meters. This application shall reduce the weed population to zero.
.9.3 Fertilizing: According to soil analysis.
.9.4 Liming According to soil analysis
.9.5 Mowing and Trimming - All areas: The first four cuts shall be a sharp rotary type mower. Excess grass clipping shall be removed after each cut. Mow all grassed areas with a sharp reel or rotary mower when the grass reaches a height of 60mm. Mow to a height of 40mm. Edge with a mechanical vertical cutting edger once per year in March. Remove all grass clippings after each cut.
.9.6 Aeration: Aeration not required in the first growing season. If necessary, in the second growing season, aerate in early May with a suitable mechanical corer. Core to a depth of 100mm. (4"), and remove cores.
.9.7 Repairs: Re-grade, re-seed or re-sod when necessary to restore damaged or failing grass areas. Match the grass varieties in the surrounding area. Re-sod, if required, throughout the growing season. Re-seed between April 1st and April 15th or between September 1st and September 15th. Protect re-seeded areas and keep moist until the first mowing.

pmg LANDSCAPE ARCHITECTS
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SEAL:

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
5	19.OCT.21	NEW SITE PLAN&CLIENT REQUEST	DD
3	19.OCT.03	60% CD SET	BA
2	19.SEP.27	REZONING	BA
1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

LANDSCAPE SPECIFICATION

DATE: 19.JUL.10
SCALE: NTS
DRAWN: BA
DESIGN: BA
CHK'D:

DRAWING NUMBER: **L8** **OF 9**

18240-11.ZIP

PMG PROJECT NUMBER: **18240**

PART ONE - GENERAL

1.1 COP

.1 The Structural Soil specification is provided as an instrument of service and remains the property of PMG landscape Architects. The information provided in this specification is for exclusive use by our client for the specific project noted. This information contained in this document may not be reproduced or distributed, in whole or in part, without the permission of PMG Landscape Architects.

1.2 SCOPE

.1 The work of this section shall govern the supply of all equipment, materials and labour necessary for the preparing and placing and compacting Structural Soil Mix on a prepared sub grade.

.2 It is the intent that the structural soil mixture will provide the necessary load bearing characteristics for light load hard surface paving areas while allowing and promoting the development of tree roots. The long term goals the promotion of healthy, long lived trees while reducing the potential negative implications of large scale root development under hard surface areas.
.3 Refer to drawings for location and dimension of structural soil mixture.

.4 All other related work as described in the drawings and/or this specification.

1.3 RELATED WORK

.1 Section 02100, Landscape Requirements
.2 Section 02110, Landscape Drainage
.3 Section 02810, Irrigation System
.4 Section 02933, Sodding [Seeding]
.5 Section 02906, Planting Trees, Shrubs, and Groundcover

1.4 RELATED MASTER MUNICIPAL SPECIFICATIONS

.1 Contractor to report all conflicts with civil engineering to Landscape Architect
.2 Section 02210, Site Grading
.3 Section 02223, Excavating, Trenching, and Backfilling
.4 Section 02226, Aggregates and Granular Materials
.5 Section 02666, Waterworks
.6 Section 02721, Storm Sewers
.7 Section 02725, Manholes and Catch Basins

1.5 STANDARDS

.1 BCSLA/BCLNA Landscape Standard (most current edition)

.2 Canadian System of Soil Classification

1.6 QUALITY ASSURANCE

.1 All structural soil material used in street tree planting shall be from a source approved by the Consultant and all similar materials supplied to the site shall be of similar nature and from a single source. 14 days prior to supplying any material to the site, inform the Consultant of proposed source and provide a copy of an analysis undertaken by a recognized testing agency approved by the owner, at the Contractor's expense and indicating the particle size characteristics of the proposed material in written form as laid out in 2.1.1 of this section.

.2 All nutritive admixtures to structural soil material supplied to the site shall be from a source approved by the Consultant and all similar nutritive admixtures supplied to the site shall be of similar nature and from a single source. 14 days prior to supplying any nutritive admixture, inform the Consultant of proposed source and provide a copy of an analysis undertaken by a recognized testing agency approved by the owner. The test report shall quantify and qualify the following characteristics of the proposed nutritive admixture:
2.1 Gravel, sand and fines content each as a % of dry weight mineral.
2.2 Organic material content as a percentage of dry weight.
2.3 Acidity (pH)
2.4 Salinity in millimhos/cm at 25 degrees C.
2.5 Basic fertility (total nitrogen available K, Ca, Mg, P.)
2.6 Recommendation for incorporation of necessary amendments.

.3 Provide and pay for all required testing of materials proposed for use on this project. At the Consultant's discretion, all materials may be re-tested. Contractor will be responsible for costs of re-testing if materials do not meet specification and for correction of the deficiency.

.4 Cost of imported materials shall include cost of modifications from source to ensure that these materials meet specifications.

.5 Acceptance of material at source does not preclude future rejection if material fails to conform to requirements specified.

.6 Confirm compaction of subgrade and structural soil by Geotechnical Reports from qualified Geotechnical Engineer.

.7 Aggregate Test:
7.1 Provide source and sieve designation of intended aggregate material prior to ordering.
7.2 At the Landscape Architect's discretion, materials may be retested. Contractor is responsible for costs of testing if sample does meet specification and for correction of any deficiency.
7.3 Submit 2.5kk sample of stone to Landscape Architect prior to mixing. Sample should be labelled to include source of material submitted.

.8 Structural Soil Mix Design:
8.1 Prepare sample of structural soil mix with proposed mix ratios for approval by Landscape Architect a minimum of 14 days prior to placement. Notify Landscape Architect minimum 2 days prior to mixing samples.
8.2 Landscape Architects may request additional samples of Structural Soil mixture to be tested in the event that further refinement of the mixture is necessary.

1.7 SCHEDULING

.1 Obtain approval from Consultant of schedule 14 days in advance of structural soil preparation or delivery of material to site. Co-ordination of the installation of the structural soil mixture is critical. Ensure scheduling has been co-ordinated with all consultants and related contractors.

.2 Schedule to include;
2.1 date for commencement of preparation of structural soil at source
2.2 sub grade preparation at site
2.3 shipping dates
2.4 arrival dates on site
2.5 installation dates

.3 Schedule work to co-ordinate with installation of any drainage, irrigation, tree grate footings, lighting, paving etc.

.4 Complete work to ensure tree planting will occur under optimum conditions

.5 Do not handle or place structural soil mix in rain.

1.8 FIELD REVIEW

.1 Start up meeting with Consultant is required to confirm the areas of installation and mixing. If not previously submitted, ensure growing medium sample and test report, aggregate stone sample and structural soil sample and report are supplied at the Start-up Meeting.

.2 Co-ordinate site meeting with Consultant at the following times
2.1 drainage installation and connection
2.2 irrigation installation
2.3 mixing of structural soil mixture
2.4 installation of structural soil mixture
2.5 sub grade preparation and layout.
2.6 installation of trees

.3 Where materials are installed in phases, it is the contractors responsibility to inform the Consultant of critical installation times for each phase as noted in Section 1.8.2.

1.9 SAMPLES

.1 Provide 2 kg samples of all materials required for the preparation of structural soil minimum 14 days prior to commencement of installation. Samples of all material shall be submitted with test report from approved testing agency as per section 1.3.2. and 1.3.3

1.10 PRODUCT HANDLING

.1 All materials used in the composition of structural soil shall not be prepared, worked or traveled upon when in a wet or frozen condition.

.2 Supply and handle dolomite lime, fertilizer, stabilizer and other chemical amendments in standard, sealed, waterproof containers with net weight and product analysis clearly marked on exterior of package.

1.11 DELIVERY, STORAGE AND PROTECTION

.1 For structural soil prepared at source and delivered to site, deliver all materials to site in such a manner as to prevent damage to or separation of all materials used in the preparation of structural soil.

.2 On-site storage of prepared structural soil shall be undertaken in such a manner as to prevent damage or separation of any materials.

.3 Structural soils to be installed as soon as practicable after mixing, any structural soils stored overnight whether on-site or at source shall be covered with tarpaulin of material approved by the Consultant until such time as materials installed.

.4 All material to be stockpiled shall be protected in accordance With B. C. Ministry of Environment guidelines.

PART TWO - PRODUCTS

2.1 GROWI

.1 TABLE ONE:
1.1 Provide all growing medium required to complete the work.
1.2 Comply with the requirements of Table 1, below
1.3 Organic material in the growing medium must be well decomposed to prevent oxygen consumption caused as a result of decomposition of the organic matter in the soil mixture.

TABL

PROPE	GROWING MEDIUM FOR GAP-GRADED MIXTURE
TEXTURE: Particle size classes by the Canadian System of Soil Classification	
Gravel: greater than 2mm - less than 75mm	maximu
Sand: greater than 0.05mm - less than 2mm	maximu
Silt: greater than 0.002 mm - less than 0.05 mm	maximu
Clay: less than 0.002mm	maximum 15%
Clay and Silt Combined	maximum 40%
ACIDITY (Ph):	6.0 - 7.0
DRAINAGE: Minimum saturated hydraulic conductivity (cm/hr) in place.	3.(
SALINITY: Saturated extract conductivity shall not exceed:	3.0 millimhos/cm at 25°C
ORGANIC CONTENT: Percent of Dry Weight (%)	8% - 12%

2.2 AGGREGATE

.1 Clean inert stone of high angularity is preferred over washed gravel.

.2 Stone dimension aspect ratio should approach 1:1:1 with a maximum of 2:1:1 length: width: depth.

.3 Single size stone, 75mm clear sieve designation: Blasted Quarry Rock.

.4 Aggregate to be used for structural soil shall be free of any foreign elements or material. Provide samples and test reports as described in section 1.5 and 1.8

.5 Aggregate quality: Material shall be sound hard, durable, free from soft, thin, elongated or laminated particles, organic material, clay lumps or material, or other substances that would act in a deleterious manner or use intended.

2.3 SOIL STABILIZER

.1 A non-toxic organic binder.
Product: Stabilizer, The Original Natural Binder, as available from Veratec, Aldergrove, BC. 604-607-3002. (Or approved equal)

2.4 GRANULAR BASE

.1 To Master Municipal Specification Section 02226, Aggregates and Granular Materials.

2.5 PAVING MATERIALS

.1 Refer to architectural drawings.

2.6 FILTER FABRIC

.1 Non Woven filter fabric shall be installed as a separation layer directly above the compacted structural soil mixture. Do not install fabric until adequate compaction of the structural soil mixture has been confirmed.

.2 Filter fabric shall be selected and designed to withstand wear and tear during construction without deterioration of its strength and filtering properties. Conform to the following ASTM designations:
- Grab Tensile Strength ASTM-D-4632 .400 kN
- Tensile Elongation ASTM-D-4632 50%
- Mullen Burst ASTM-D-3786 1270 kPa
- Flow Rate ASTM-D-4491 6110 l/min/m^2

.3 Fabric shall be Amoco 4545 or approved equivalent.

PART THREE - EXECUTION

3.1 SUBGRADE

.1 Excavate sub grade to establish tree pit / trench as indicated on contract drawings. Place the structural soil under the paving adjacent to the planting pits, NOT in the planting pits themselves.
.2 Areas designated as structural soil tree pits for street tree planting shall be prepared to ninety-five percent (95%) Modified Proctor Density and shall be free of stones, debris, root branches, toxic materials, building materials and other deleterious materials to the approval of the civil engineer.

3.2 PREPARATION OF EXISTING GRADE

.1 Verify that grades are correct. If discrepancies occur, notify Consultant and do not commence work until directed.

.2 Excavate trench to Master Municipal Specification Section 02223, Trenching, Excavation and Compaction allowing for design depth and width of structural soil mix.
2.1 Refer to contract drawings for areas to be treated and to details for dimensions
2.2 Compact to 95% Modified Proctor Density.
2.3 Subgrade elevations shall slope parallel to the finished grades and/or toward the subsurface drain lines as indicated on the civil engineering drawings.

.4 Do not proceed with the installation of the structural soil material until all walls, curbs, and utility work in the area has been installed. Structural elements or design features that are dependent on the structural soil mixture for support may be postponed until after the installation of the mixture.

.5 Re-compact disturbed subgrade to requirements of master municipal specifications and civil engineering drawings.

3.3 SUB DRAINS

.1 Install to requirements of Master Municipal Specifications. Refer to Section 02666, Waterworks, Section 02721, Storm Sewers, and Section 02725, Manholes and Catch Basins
1.1 Install prior to installation of the structural soil mixture.
1.2 Co-ordinate all contract drainage work with other drainage on-site
1.3 Confirm location of storm sewer connections with civil engineer.

3.4 IRRIGATION

.1 Install to requirements of Section 02810, Irrigation System. Refer also to Irrigation Drawings.
1.1 Install irrigation main lines in co-ordination with installation of the structural soil. Confirm timing at start-up meeting.
1.2 Co-ordinate all contract irrigation work with other civil engineering and drainage on-site
1.3 Confirm location of irrigation connections with civil engineer.

3.5 MIXING STRUCTURAL SOIL MATERIAL

.1 Ensure consistent even distribution of all components by thorough mixing. The ratio of components will vary and may require adjustment to ensure the soil volume is adequate to fill all voids in the stone.

.2 Base Ratio of Materials:
- 4 cu metre of aggregate stone section 2.2
- 1.25 cu metre of Growing Medium section 2.1
- 2 kg Stabiliser section 2.3
× Water as required
× The amount of water required will vary according to moisture present in growing medium.

.3 Combine the stone, growing medium and Stabilizer product into a thorough, homogeneous mixture. Moisten mixture with fine spray of clean potable water while mixing to activate Stabilizer product.

3.6 MIXING

.1 Do not OVER MIX, OVER HANDLING can result in separation of the growing medium from the stone. Further and final mixing will occur during the placement of the material.

.2 All mixing shall be performed on a flat hard, level surface approved by the consultant, using the appropriate soil mixing equipment.

.3 Prepare sample Structural Soil Mixes to determine ratio of mix components. Submit sample with test results for approval.

PART THREE - EXECUTION (cont)

3.7 PLA

.1 Subgrade shall be approved by the Consultant prior to placement of the structural soil mixture.

.2 Structural soil shall be moist, but not saturated with water when placed. Placement shall be handled to avoid damage to drainage structures, irrigation equipment, concrete structure or pavement.

.3 Place Stone mixture in 300mm lifts through entire area of structural soil mixture.

.4 Compact each lift of structural soil material with vibrating drum roller to the satisfaction of the civil engineer.

.5 Provide Geotechnical Report to confirm compaction. Test to ensure uniform, acceptable compaction rates have been achieved for each lift and in all areas of structural soil mixture.
Refer to Quality Assurance, section 1.5

.6 Provide a uniformly firm and level surface allowing for specified depths of road base and / or growing medium to meet finished design grade.

.7 Installation of structural soil in the location of the tree is not recommended. Various techniques such as reinforced wood boxes, steel boxes, large diameter PVC pipe, etc. have been employed to allow for sand to be installed at the tree location with the compacted structural soil surrounding the hole. At the time of tree installation, the sand is removed and growing medium (as per Section 2.1) added to surround the root ball.

3.8 INSTALLATION OF FILTER FABRIC

.1 After approval of structural soil mixture compaction, install Filter Fabric.

.2 Ensure minimum 60cm overlap of all fabric seams and beyond edge of structural soil.

3.9 GRANULAR BASE MATERIAL

.1 Place minimum 75 mm granular base on top of filter fabric over structural soil layer.

.2 Compact granular base to 95% Modified Proctor Density. Compaction must be consistent with other surrounding granular base materials.

.3 All areas shall be graded too the contours and elevations indicated on the contract drawings. Ensure positive drainage.

3.10 PROTECTION

.1 Protect existing conditions from damage or staining and make good any damage.

.2 All damage will be repaired at the expense of the installation contractor.

3.11 TREE PLANTING

.1 Remove structural soil or other backfill material (sand, see comments in section 3.7.7) from the full dimensions of the tree grate area (1.2m x 1.2m x depth of root ball).

.2 Re compact all material below root ball to original specified density to prevent settling of the root ball in the hole.

.3 Ensure tree is planted in the exact centre of the specified planting station straight and true.

.4 Install tree in accordance with BCSLA Landscape Standard. Cut away synthetic root ball twine, cut back improperly sized wire baskets, pull back burlap from around trunk etc.

.5 Backfill with Growing Medium as per Section 2.1. Ensure the same growing medium used in the structural soil mix is installed as backfill material.

.6 Place 50mm depth composted fir/hem bark mulch over the top of the open tree pit area.

3.12 TREE GRATES

.1 Site Furniture and to contract drawings for tree grates, frames and footings.

3.13 ACCEPTANCE

.1 Consultant shall inspect structural soil "in place" and determine acceptance of material, and finish grading prior to paving.

.2 Finish grade shall be to within 15mm of proposed grades within 3.0m of any adjacent fixed elevation and to within 15mm of proposed grades over any other 3.0 length. Finish grades shall not be uniformly high or low.

3.14 SURPLUS MATERIAL

.1 Remove all excess fill soils and mix stock piles and dispose of all waste materials, trash and debris from the site.

.2 Clean up any soil or dirt spilled on any paved surface at the end of each working day.

.3 Upon completion of the structural soil mixture installation. Leave area broom-clean. Avoid washing the area until all of the paving has been completed.

pmg LANDSCAPE ARCHITECTS
Suite C100 - 4185 Still Creek Drive
Burnaby, British Columbia, V5C 6G9
p: 604 294-0011 ; f: 604 294-0022

SEAL:

NO.	DATE	REVISION DESCRIPTION	DR.
10	20.MAR.13	REV. PER COV COMMENTS	BA
9	19.NOV.28	100% BP SET	BA
8	19.NOV.04	90% CD SET	BA
7	19.OCT.23	NEW GROUND FLOOR PLAN	DD
6	19.OCT.22	REVISION	DD
5	19.OCT.21	NEW SITE PLAN&CLIENT REQUEST	DD
3	19.OCT.03	60% CD SET	BA
2	19.SEP.27	REZONING	BA
1	21.AUG.19	REV. PER CITY/CLIENT COMMENTS	BA
-	19.JUL.29	30% BP SUBMISSION	BA

CLIENT:

PROJECT:

PARKWAY
MIXED USE DEVELOPMENT

1050 PANDORA AVENUE
VICTORIA, BC

DRAWING TITLE:

STRUCTURAL SOIL SPECIFICATION

DATE: 19.JUL.10
SCALE: NTS
DRAWN: BA
DESIGN: BA
CHK'D:

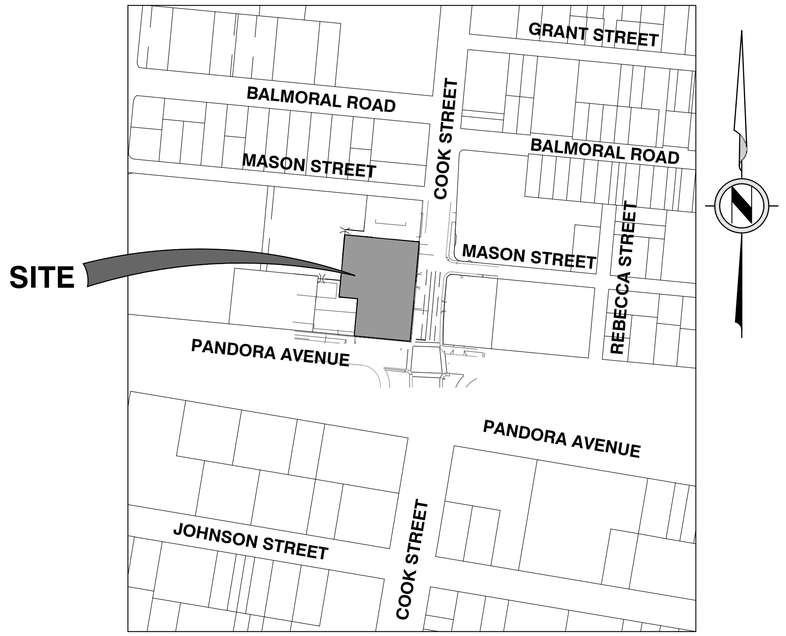
DRAWING NUMBER:
L9
OF 9

PMG PROJECT NUMBER: **18240**

18240-11.ZIP

APLIN MARTIN
ENGINEERING ARCHITECTURE PLANNING SURVEYING

Aplin & Martin Consultants Ltd.
#1818 – 1177 West Hastings Street, Vancouver, B.C. V6E 2K3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com



SITE LOCATION PLAN

SCALE 1: 2000

DRAWING INDEX

NOT FOR CONSTRUCTION

CLIENT:

DISTRICT GROUP

SUITE 200 - 8809 HEATHER STREET, VANCOUVER, BC V6P 3T1
PH. 604-322-5762

PROJECT:

PARKWAY - MIXED-USE DEVELOPMENT

1050 PANDORA AVENUE & 1518 COOK STREET, VICTORIA, BC

MUNICIPAL PROJECT No. XXX

APLIN & MARTIN PROJECT No. 18-010

GENERAL

1. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BRITISH COLUMBIA BUILDING CODE 2018.
2. ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), AND CITY OF VICTORIA BYLAW STANDARDS, UNLESS OTHERWISE NOTED.
3. ANY REVISIONS TO THESE DRAWINGS SHALL BE APPROVED BY THE CITY'S REPRESENTATIVE. CONSTRUCTION SHALL NOT COMMENCE PRIOR TO THE APPROVAL OF THESE DRAWINGS BY THE CITY'S REPRESENTATIVE.
4. THE CONTRACTOR SHALL OBTAIN THE CITY'S PERMIT TO WORK WITHIN THE ROAD ALLOWANCE A MINIMUM OF 5 WORKING DAYS PRIOR TO THE START OF CONSTRUCTION.
5. THE CONTRACTOR SHALL SUBMIT PROOF OF CONTRACTOR LIABILITY INSURANCE TO THE CITY'S REPRESENTATIVE AS PER THE CITY'S SPECIFICATIONS.
6. ALL BUILDINGS & ROADS ARE TO BE LOCATED BY COORDINATES AS CALCULATED BY A B.C. LAND SURVEYOR.
7. THE CONTRACTOR MUST CONTACT THE ENGINEER PRIOR TO CONSTRUCTION TO SCHEDULE AN ONSITE PRE CONSTRUCTION MEETING DURING WHICH CONSTRUCTION METHODS, TIMING AND INSPECTION WILL BE DISCUSSED.
8. CONTRACTOR TO VERIFY THE LOCATION AND INVERTS OF EXISTING WATER, STORM AND SANITARY CONNECTIONS IN THE VICINITY OF THE SITE. REPORT TO THE ENGINEER ANY DISCREPANCIES PRIOR TO START OF CONSTRUCTION
9. ALL OR ANY EXISTING UNDERGROUND UTILITES ARE NOT NECESSARILY SHOWN. EXISTING UNDERGROUND UTILITIES SHALL BE LOCATED AND ALL UTILITY COMPANIES CONTACTED PRIOR TO INSTALLING ANY NEW UNDERGROUND SERVICES.
10. THE CONTRACTOR'S SURVEYOR SHALL BE RESPONSIBLE FOR VERIFYING THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THE CONSULTING ENGINEERING FIRM SHALL BE NOTIFIED IMMEDIATELY.
11. WORKSAFE BC SHALL BE NOTIFIED PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL BE REGISTERED WITH WORKSAFE BC AND SHALL SUBMIT PROOF OF REGISTRATION TO THE TOWN'S REPRESENTATIVE. ALL WORK SHALL CONFORM TO ALL APPLICABLE REGULATIONS OF WORKSAFE BC.
12. ALL DIMENSIONS SHALL BE IN METRIC UNLESS OTHERWISE NOTED. METRES SHALL BE EXPRESSED IN DECIMALS, MILLIMETERS IN WHOLE NUMBERS. FIGURED DIMENSIONS SHALL GOVERN OVER SCALED DIMENSIONS.
13. THE CONTRACTOR SHALL PREPARE AND SUBMIT THE FOLLOWING PLANS TO THE CITY'S REPRESENTATIVE FOR REVIEW AND ACCEPTANCE PRIOR TO CONSTRUCTION COMMENCING.
    * TRAFFIC MANAGEMENT PLAN.
    * EROSION AND SEDIMENT CONTROL PLAN FOR CONSTRUCTION.
    * TREE PRESERVATION PLAN.
14. LEGAL SURVEY MONUMENTS SHALL BE REPLACED BY A BC LAND SURVEYOR, TO CITY SPECIFICATIONS, AT THE CONTRACTOR'S EXPENSE IF DESTROYED OR DAMAGED DURING CONSTRUCTION. THIS ALSO PERTAINS TO MONUMENTS THAT REQUIRE RAISING OR RELOCATING. THE CONTRACTOR SHALL NOTIFY THE CITY'S REPRESENTATIVE THREE WORKING DAYS IN ADVANCE OF THE WORK AFFECTING SURVEY MONUMENTS.
15. WHERE A TRENCH IS UNDER OR WITHIN 1.0 METRES OF THE ROADWAY OR DRIVEWAY EDGE, FULL DEPTH GRANULAR BACKFILL SHALL BE USED.
16. AFTER CONSTRUCTION, WORK AREAS AND EXISTING FEATURES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION OR BETTER.
17. ADJUST ALL PROPOSED AND EXISTING APPURTENANCES TO MEET FINAL DESIGN UPGRADES.
18. ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE SITE AND DISPOSED OF PROPERLY IN ACCORDANCE WITH ALL APPLICABLE GUIDELINES AND REGULATIONS.
19. THE ENGINEER OF RECORD SHALL SUBMIT AS-CONSTRUCTED DRAWINGS TO THE CITY'S REPRESENTATIVE.
20. THE CONTRACTOR SHALL EMPLOY APPROPRIATE EROSION & SEDIMENT CONTROL MEASURE, APPROVED BY THE CITY'S REPRESENTATIVE TO PREVENT SILT DISCHARGES TO THE STORM DRAINAGE SYSTEM AND WATERCOURSES. REGULAR, ONGOING INSPECTION OF SEDIMENT CONTROL SHALL BE CARRIED OUT TO ENSURE CONTINUOUS PROTECTION.

PROP. SANITARY SEWER ——S——
PROP. STORM SEWER ——D— — —
PROP. WATER MAIN ——W— - —
EX. SANITARY SEWER ——S——
EX. STORM SEWER ——D— — —
EX. WATER MAIN ——W— - —
EXISTING FENCE —)(—)(—)(—

STORM SEWER

1. DO NOT PLUG OR ABANDON AN EXISTING STORM DRAINAGE CONNECTION WITHOUT WRITTEN APPROVAL FROM THE ENGINEER OF RECORD.
2. ALL STORM SEWER AND BEDDING MATERIALS TO BE IN ACCORDANCE WITH THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONTRACT DOCUMENTS (MMCD) REQUIREMENTS.
3. ALL EXISTING CULVERTS AND STORM DRAIN SYSTEMS THAT ARE TO BE ABANDONED SHALL BE INSPECTED FOR EXISTING STORM SERVICE LEADS. ALL EXISTING LEADS ARE TO BE CONNECTED TO THE NEW STORM SEWER SYSTEM.
4. ALL PIPING AND RELATED APPURTENANCES TO BE INSPECTED AND APPROVED PRIOR TO BACKFILLING OF TRENCH.
5. ALL MANHOLES ARE TO BE A MINIMUM OF 1050mm DIAMETER UNLESS OTHERWISE NOTED.
6. ALL STORM PIPES TO BE PVC SDR35.
7. ALL TYPICAL TRENCH SECTION DETAILS TO FOLLOW MMCD SPECIFICATION DRAWING G4, UNLESS OTHERWISE NOTED BY THE CITY'S REPRESENTATIVE.
8. ALL PAVEMENT RESTORATION TO FOLLOW MMCD SPECIFICATION DWG. G5.
9. THE CONTRACTOR SHALL CONFIRM THE LOCATION AND INVERTS OF EXISTING STORM SEWER CONNECTIONS PRIOR TO CONSTRUCTION.
10. CATCHBASIN RIM ELEVATIONS GIVEN ARE THE ELEVATION OF THE SURFACE INLET.
11. TIE-INS OF PROPOSED MAINS TO EXISTING STORM SEWER MAINS SHALL BE INSPECTED BY CITY'S REPRESENTATIVE.
12. ALL STORM DRAIN SERVICE CONNECTIONS SHALL BE MINIMUM 100mm IN DIAMETER.
13. THE CONTRACTOR SHALL VIDEO INSPECT ALL COMPLETED STORM DRAIN LINES ON PUBLIC AND PRIVATE PROPERTY FOLLOWING COMPLETION OF INSTALLATION. VIDEO REPORTS SHALL BE SUBMITTED TO THE CITY'S REPRESENTATIVE. SHOULD THE VIDEO INDICATE APPARENT DEFICIENCIES, ADDITIONAL TESTING AND/OR REPLACEMENT SHALL BE REQUIRED AT THE DIRECTION OF THE CITY'S REPRESENTATIVE. AT THE CONTRACTOR'S EXPENSE. ALL STORM DRAIN LINES, CATCH BASINS, MANHOLES, ETC., SHALL BE CLEANED THOROUGHLY UPON COMPLETION OF CONSTRUCTION. AT THE END OF THE ONE-YEAR WARRANTY PERIOD, ALL LINES SHALL AGAIN BE VIDEO INSPECTED AND THE RESULTS SUBMITTED TO THE CITY'S REPRESENTATIVE.

SANITARY SEWER:

1. ALL SANITARY SEWER MATERIALS SHALL BE IN ACCORDANCE WITH THE PLATINUM EDITION OF THE MASTER MUNICIPAL CONSTRUCTION DOCUMENTS (MMCD), UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL COMPLETE AND SUBMIT THE CITY'S APPLICATION FOR SANITARY SEWER CONNECTION DOCUMENT FOR ALL REQUIRED SANITARY SEWER CONNECTIONS TO THE CITY'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. THE CONTRACTOR SHALL CONFIRM THE LOCATION AND INVERTS OF EXISTING SANITARY SEWER CONNECTIONS PRIOR TO CONSTRUCTION.
4. NEW SEWER LINES TIED INTO EXISTING LINES SHALL BE PLUGGED UNTIL THEY ARE TESTED AND FLUSHED.
5. TIE-INS OF PROPOSED MAINS TO EXISTING SANITARY SEWER MAINS SHALL BE INSPECTED BY CITY'S REPRESENTATIVE.
6. FOR EXISTING PIPES OR SERVICE CONNECTIONS THAT ARE TO BE ABANDONED, THE CONTRACTOR SHALL CAP ENDS AND FILL WITH CDF OR APPROVED ALTERNATIVE, AS DIRECTED BY THE CITY'S REPRESENTATIVE. EVIDENCE OF THIS (SUCH AS WITH PHOTOGRAPHS), SHALL BE PROVIDED TO THE CITY'S REPRESENTATIVE PRIOR TO BACKFILL. THE ABANDONED PIPE SHALL BE NOTED ON THE AS-CONSTRUCTED DRAWING.
7. TESTING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR WITH INSPECTION AUTHORIZED BY THE CITY'S REPRESENTATIVE.
8. THE CONTRACTOR SHALL VIDEO INSPECT ALL COMPLETED SANITARY SEWER LINES ON PUBLIC AND PRIVATE PROPERTY FOLLOWING COMPLETION OF INSTALLATION. VIDEO REPORTS SHALL BE SUBMITTED TO THE CITY'S REPRESENTATIVE. SHOULD THE VIDEO INDICATE APPARENT DEFICIENCIES, ADDITIONAL TESTING AND/OR REPLACEMENT SHALL BE REQUIRED AT THE DIRECTION OF THE CITY'S REPRESENTATIVE, AT THE CONTRACTOR'S EXPENSE. ALL SANITARY SEWER LINES, MANHOLES, ETC, SHALL BE CLEANED THOROUGHLY UPON COMPLETION OF CONSTRUCTION. AT THE END OF THE ONE-YEAR WARRANTY PERIOD ALL LINES SHALL AGAIN BE VIDEO INSPECTED AND THE RESULTS SUBMITTED TO THE CITY'S REPRESENTATIVE.

WATER:

1. ALL WATER & BEDDING MATERIALS TO MEET MMCD & BC PLUMBING CODE 2018 REQUIREMENTS.

ROADWORKS AND SIDEWALKS:

1. LOOSE OR ORGANIC MATERIALS SHALL BE EXCAVATED FROM ROADWAY.
2. SUB-BASE AND GRANULAR BASE MATERIALS SHALL BE COMPACTED TO 95% MODIFIED PROCTOR DENSITY.
3. EXISTING APPURTENANCES SUCH AS VALVE BOXES, MANHOLES, ETC., SHALL BE ADJUSTED TO FINISHED GRADE.
4. THE CONDITIONS FOR PLACING ASPHALT PAVEMENT AND CONCRETE SHALL BE IN ACCORDANCE WITH MMCD SPECIFICATIONS AND STANDARD DETAIL DRAWINGS APPLICABLE AT THE TIME OF CONSTRUCTION. WEATHER CONDITIONS SHALL ALSO BE IN CONFORMANCE WITH MMCD SPECIFICATIONS. SHOULD DEVIANCES BE ALLOWED FROM THESE SPECIFICATIONS BY THE CITY'S REPRESENTATIVE, THE CONTRACTOR SHALL ASSUME ALL RESPONSIBILITY FOR THEIR WORKMANSHIP.

NOT FOR CONSTRUCTION

NOTICE TO CONTRACTOR

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LEGAL DESCRIPTION: SITE PLAN OF AMENDED LOT 14 (DD 106561 I), LOTS 15 & 16, LOT 2, PLAN VIP75915 OF SUBURBAN LOT 15
B.M. MONUMENT NO. 16-64A ELEVATION: 27.355m
LOCATED AT COOK STREET & PANDORA AVENUE

REV. NO.	DESCRIPTION	DR	CH	DATE	APP
03	DEVELOPMENT PERMIT COMMENTS ADDRESSED	CL	SL	11/09/19	SL
04	ISSUED FOR 60% BP SUBMISSION	VG	SL	15/10/19	SL
05	ISSUED FOR 90% BP SUBMISSION	VG	SL	06/11/19	SL
06	ISSUED FOR 100% BP SUBMISSION	VG	SL	25/11/19	SL
07	TREE REMOVED ON COOK STREET	CL	SL	20/03/20	SL

APLIN MARTIN
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Aplin & Martin Consultants Ltd.
#1818 – 1177 West Hastings Street, Vancouver, B.C. V6E 2K3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com

CLIENT:
DISTRICT GROUP
SUITE 200 - 8809 HEATHER STREET, VANCOUVER, BC V6P 3T1
PH. 604-322-5762

PROJECT:
PARKWAY - MIXED USE DEVELOPMENT
1050 PANDORA AVENUE & 1518 COOK STREET, VICTORIA BC

PROFESSIONAL ENGINEER — PROVINCE OF BRITISH COLUMBIA — S. A. LEWIS #23811
2020-03-20

The location of existing underground utilities are shown in an approximate way only & have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

TITLE: **KEY PLAN & GENERAL NOTES**
DESIGN: VG CHECK: SL
DRAWN: VG/CL APPR: SL
A & M FILE: **18-010**
PROJECT NO. .
SCALE : HORZ. 1:500 VERT. N/A
DRAWING DATE: **FEBRUARY 2019**
DRAWING NO. .
A & M DRAWING NO. **18-010 -02**
SHEET NO. **02 OF 04**
REV. **07**

0 5 1:500 25m

PROP. CONCRETE WALKWAY & DRIVEWAY. SEE ARCHITECTURAL, LANDSCAPING & MECHANICAL DWGS FOR SIDEWALK SURFACING DETAILS & SURFACE DRAINAGE, ETC.

PROP. FIRE DEPARTMENT'S SIAMESE CONNECTION

TIE PROP. DRIVEWAY LETDOWN TO EX. LETDOWN NORTH OF THE THE PROPERTY

PROP. BUILDING OUTLINE (TYP.)

EXISTING WATER SERVICE TO BE CAPPED OFF & ABANDONED (TYP.)

PROPOSED DRIVEWAY

PROPOSED RAMP TO U/G PARKADE

PROP. CONCRETE DRIVEWAY LETDOWN TO SERVICE PROPOSED DRIVEWAY RAMP INTO UNDERGROUND PARKING, & LOADING BAY

PROP. CONCRETE DRIVEWAY LETDOWN AS PER CITY OF VICTORIA BYLAW TYPICAL DRIVEWAY CROSSING (TYPE A), STD DWGS. SD C7a & SD C7c

PROPOSED BUILDING

EX. DRIVEWAY LETDOWN TO BE REMOVED & CONCRETE SIDEWALK WITH BARRIER CURB & GUTTER TO BE INSTALLED. SEE ARCHITECTURAL & LANDSCAPING DWGS FOR SIDEWALK SURFACING DETAILS

ADDITIONAL EX. SANITARY SERVICE CONNECTION ON EX. SITE DE-COMMISSIONED & CAPPED OFF DURING CONSTRUCTION, & ABANDONED POST CONSTRUCTION

ADDITIONAL EX. STORM SERVICE CONNECTION ON EX. SITE DE-COMMISSIONED & CAPPED OFF DURING CONSTRUCTION, & ABANDONED POST CONSTRUCTION

PROP. 200ø PVC DR18 WATER SERVICE CONNECTION

PROP. 200ø WATER SERVICE CONNECTION TO BE CONNECTED TO 300ø WATERMAIN C/W 200ø GATE VALVE

PROP. 200ø STORM SEWER TO CONNECT TO EX. 250ø STORM MAIN

PROP. 200ø STM SERVICE CONN. @ MIN. 2% TO MAIN. IC @ PL AS PER MMCD STD DWG S9. EL. @ CAP = 25.7m (APPROX.)

PROP. 200ø SANITARY SEWER TO CONNECT TO EX. 250ø SANITARY MAIN

PROP. 200ø SAN SERVICE CONN. @ MIN. 2% TO MAIN. IC @ PL AS PER MMCD STD DWG S9. EL. @ CAP = 24.4m (APPROX.)

EX. ROAD PAVEMENT TO BE REMOVED & REINSTATED AFTER PIPE TRENCHING WORK COMPLETED (TYP.)

SITE BOUNDARY

PROPOSED BUILDING

PROP. BARRIER CURB & GUTTER, AS PER MMCD STD DWG C5

PROP. STRUCTURAL SOIL CHANNEL, MIN. 600mm DEPTH. SEE LANDSCAPE DWG FOR MORE DETAILS (TYP.)

PROP. UNDERGROUND PARKING WALL OUTLINE

SAWCUT & MILL 60mm EX. ASPHALT DEPTH 1.0m FROM FACE OF CURB. RESTORATION AS PER MMCD STD DWG G5

PROP. STREET TREE C/W TREE GRATE (TYP.)

PROP. BARRIER CURB & GUTTER (NORTH OF THIS POINT), AS PER MMCD STD DWG C5

EX. STREET TREE (TYP.)

EX. HERITAGE BUILDING FACADE TO BE RETAINED (TYP.)

RETAIN EX. BARRIER CURB & GUTTER THIS SECTION

PROP. WHEELCHAIR RAMP LETDOWN AS PER CITY OF VICTORIA BYLAW STD DWG SD C9a

PROP. 100ø PVC IRRIGATION PIPE (TYP.)

PROP. CONCRETE SIDEWALK. SEE ARCHITECTURAL & LANDSCAPING DWGS FOR SIDEWALK SURFACING DETAILS. CONCRETE SIDEWALK & BASE THICKNESSES AS PER MMCD STD DWG C2 (TYP.)

7 TREES REMOVED ON COOK STREET

GRADING LEGEND:

- PROP. CATCH BASIN
- PROP. LAWN BASIN
- PROP. MANHOLE
- SITE BOUNDARY
- (94.94) RIM ELEVATION
- ASPHALT PAVEMENT
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- +4.00 EXISTING ELEVATION
- +3.00 PROPOSED ELEVATION
- +3.00M MEET EXISTING ELEVATION
- +3.00TW TOP OF WALL ELEVATION
- +3.00BW BOTTOM OF WALL ELEVATION

SERVICING LEGEND:

- PROP. SANITARY SEWER — S —
- PROP. STORM SEWER — D — — —
- PROP. WATER MAIN — W — - —
- EX. SANITARY SEWER — S —
- EX. STORM SEWER — D — — —
- EX. WATER MAIN — W — - —
- EX. FENCE —)(—)(—)(—
- PROP. CATCH BASIN
- PROP. LAWN BASIN
- PROP. MANHOLE

NOTICE TO CONTRACTOR

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NOT FOR CONSTRUCTION

LEGAL DESCRIPTION: SITE PLAN OF AMENDED LOT 14 (DD 106561 I), LOTS 15 & 16, LOT 2, PLAN VIP75915 OF SUBURBAN LOT 15

B.M. MONUMENT NO. 16-64A ELEVATION: 27.355m
LOCATED AT COOK STREET & PANDORA AVENUE

REV. NO.	DESCRIPTION	DR	CH	DATE	APP
03	DEVELOPMENT PERMIT COMMENTS ADDRESSED	CL	SL	11/09/19	SL
04	ISSUED FOR 60% BP SUBMISSION	VG	SL	15/10/19	SL
05	ISSUED FOR 90% BP SUBMISSION	VG	SL	06/11/19	SL
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CLIENT: **DISTRICT GROUP**
SUITE 200 - 8809 HEATHER STREET, VANCOUVER, BC V6P 3T1
PH. 604-322-5762

PROJECT: **PARKWAY - MIXED USE DEVELOPMENT**
1050 PANDORA AVENUE & 1518 COOK STREET, VICTORIA BC

PROFESSIONAL ENGINEER PROVINCE OF BRITISH COLUMBIA S.A. LEWIS #23811
2020-03-20

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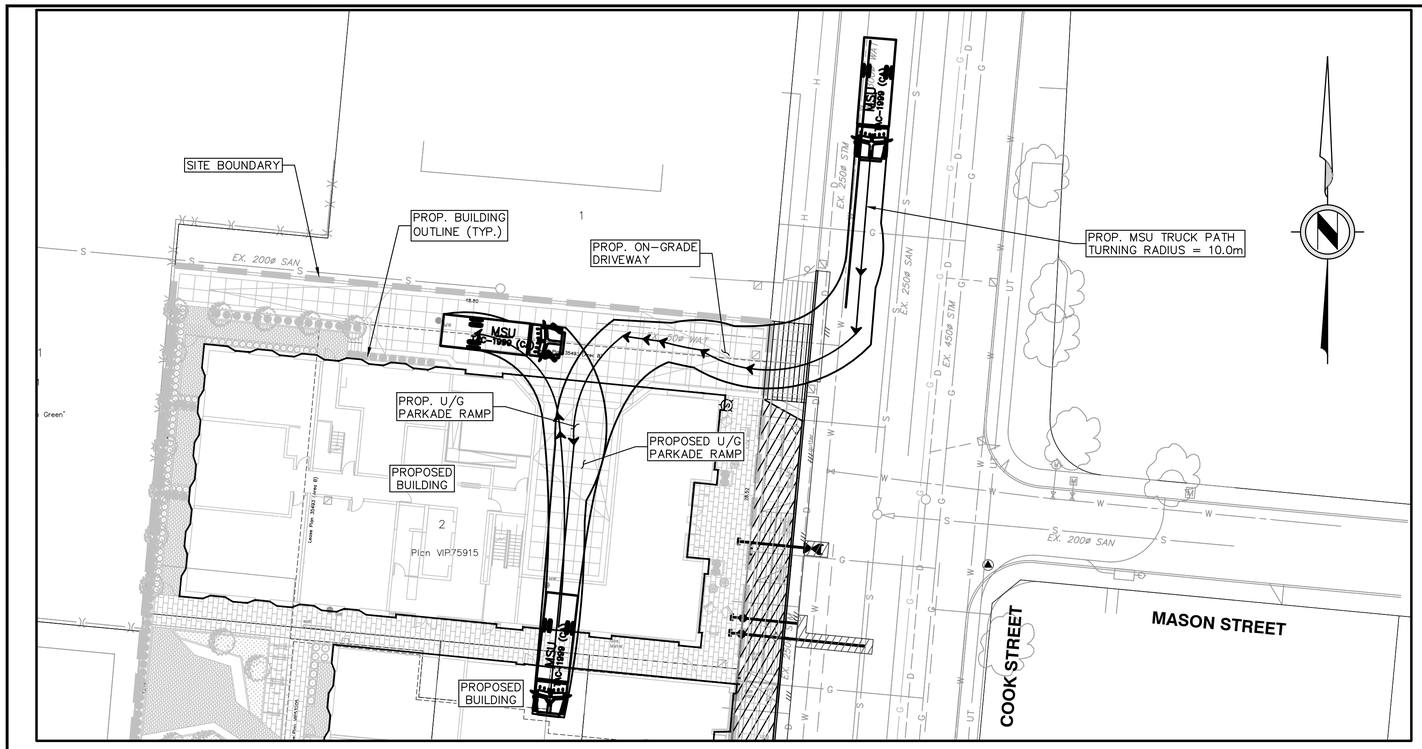
TITLE: **SERVICING & GRADING PLAN**

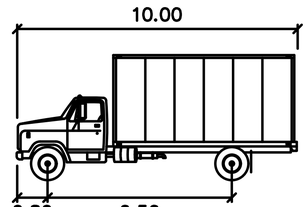
DESIGN: VG CHECK: SL
DRAWN: VG/CL APPR: SL
A & M FILE: **18-010**
DRAWING DATE: **FEBRUARY 2019**
PROJECT NO. .
SCALE : HORZ. 1:250 VERT. N/A
DRAWING NO. .
A & M DRAWING NO. **18-010 -03**
SHEET NO. **03 OF 04**
REV. **07**

0 2 1:250 12m

Mar 20, 2020 - 10:39pm M:\2018\18-010_1050 PARKWAY\CAD\Production DWGs\18-010 03 SERVICING & GRADING PLAN.dwg

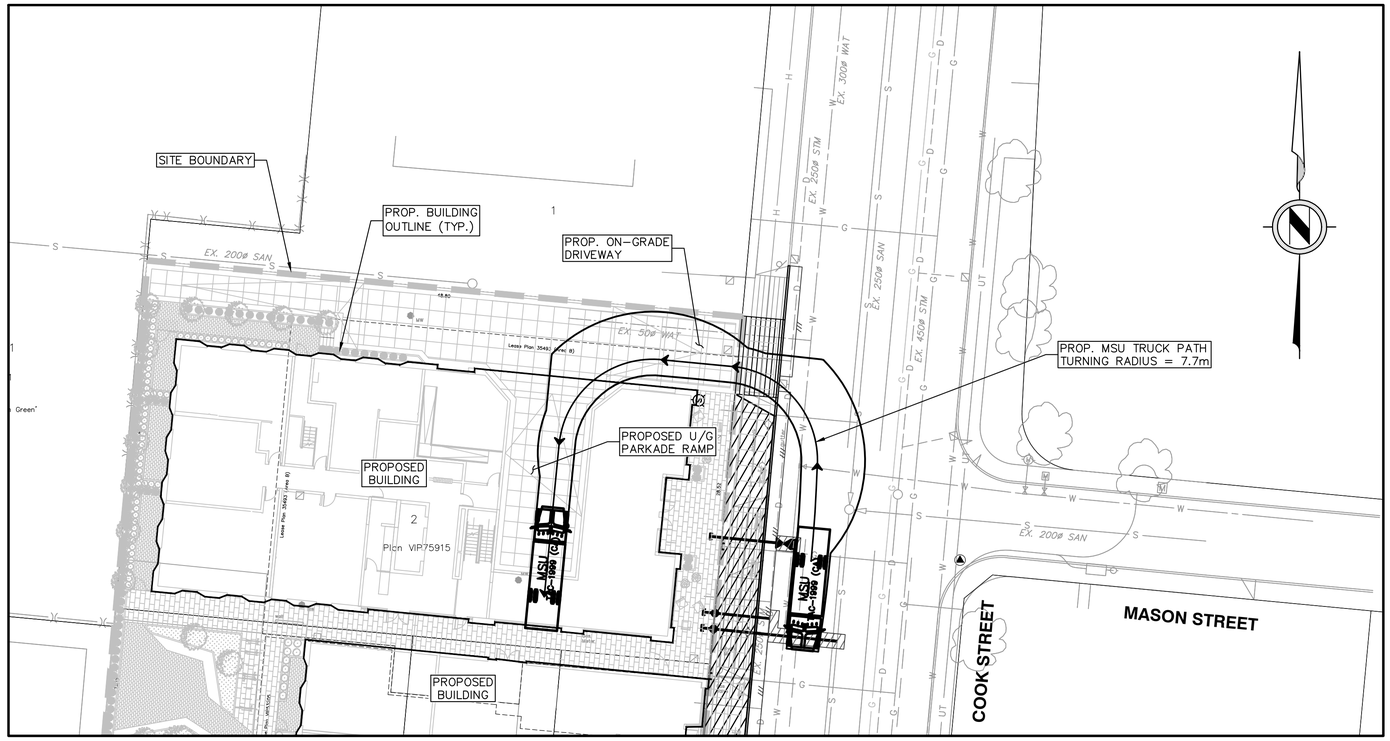


TURN ROUTE 1 – DIRECT ENTRY



MSU

	meters
Width	: 2.60
Track	: 2.60
Lock to Lock Time	: 6.0
Steering Angle	: 40.2



TURN ROUTE 1 – BACK-IN ENTRY

NOT FOR CONSTRUCTION

NOTICE TO CONTRACTOR

IT IS THE RESPONSIBILITY OF THE CONTRACTOR'S SURVEYOR TO VERIFY THAT ALL LEGAL SURVEY DIMENSIONS SHOWN ON THE ENGINEERS DRAWINGS AGREE WITH THOSE ON THE REGISTERED LEGAL SURVEY PLAN. SHOULD THERE BE ANY DISCREPANCIES, THEN IMMEDIATELY NOTIFY THE ENGINEER OF RECORD

LEGAL DESCRIPTION: SITE PLAN OF AMENDED LOT 14 (DD 106561 I), LOTS 15 & 16, LOT 2, PLAN VIP75915 OF SUBURBAN LOT 15

B.M. MONUMENT NO. 16-64A ELEVATION: 27.355m
LOCATED AT COOK STREET & PANDORA AVENUE

REV. NO.	DESCRIPTION	DR	CH	DATE	APP
03	DEVELOPMENT PERMIT COMMENTS ADDRESSED	CL	SL	11/09/19	SL
04	ISSUED FOR 60% BP SUBMISSION	VG	SL	15/10/19	SL
05	ISSUED FOR 90% BP SUBMISSION	VG	SL	06/11/19	SL
06	ISSUED FOR 100% BP SUBMISSION	VG	SL	25/11/19	SL
07	TREE REMOVED ON COOK STREET	CL	SL	20/03/20	SL

APLIN MARTIN
ENGINEERING ARCHITECTURE PLANNING SURVEYING
Aplin & Martin Consultants Ltd.
#1818 – 1177 West Hastings Street, Vancouver, B.C. V6E 2K3
Tel: (604) 678-9434, Fax: (604) 597-9061, Email: general@aplinmartin.com

CLIENT:
DISTRICT GROUP
SUITE 200 - 8809 HEATHER STREET, VANCOUVER, BC V6P 3T1
PH. 604-322-5762

PROJECT:
PARKWAY - MIXED USE DEVELOPMENT
1050 PANDORA AVENUE & 1518 COOK STREET, VICTORIA BC

PROFESSIONAL ENGINEER – PROVINCE OF BRITISH COLUMBIA – S. A. LEWIS #23811
2020-03-20

The location of existing underground utilities are shown in an approximate way only & have not been independently verified by the owner or its representative. The contractor shall determine the exact location of all existing utilities before commencing work, and agrees to be fully responsible for any and all damages which might be occasioned by the contractor's failure to exactly locate and preserve any and all underground utilities.

TITLE: **TRUCK TURNING PLAN**

DESIGN: VG CHECK: SL
DRAWN: VG/CL APPR: SL

A & M FILE: **18-010**

PROJECT NO. -

SCALE : HORZ. 1:250 VERT. N/A

DRAWING DATE: **FEBRUARY 2019**

DRAWING NO. -

A & M DRAWING NO. **18-010 -04**

SHEET NO. **04 OF 04**

REV. **07**

0 2 1:250 12m