DP APPLICATION SOLA





TRANSPORTATION



STRUCTURAL



MECHANICAL / **ELECTRICAL**





LANDSCAPE



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DP APPLICATION NOTES

ZONING DC 227 D2019

168 UNITS or 804 UNITS / HECTARE

PERMITTED HEIGHT 30M - 26M AND 30M ARE MET

SETBACKS - PER BY-LAW- SEE SECTION A19 FOR DETAILED SETBACKS

GROSS SQUARE METER = 10451.6 SITE COVERAGE - 14,582 SF 1354.7 SM SITE COVERAGE ON 2090.3 SM .209 hectares SITE COVERAGE.= 64.8%

Easement relaxation - the 14th street road widening easement is respected at grade. . We seek relaxation of the intermittent soffit of the 3rd floor of the building which has an important architectural feature of 6 projecting bays. There is still 7.280 meters clear under these bay projections. see A19

Flood- The electrical equipment is predominantly on P1. The foundation will have a pump system to manage any water seepage. It is expected that in the event of a flood that P1 floor can be protected. All electrical equipment on P1 will be raised above the slab floor to allow for drainage down to the lower level. The transformer and generator on the main floor will be at 5030. While caution must be exercised to mitigate flood effects, effort has been made to raise the main FF with 2 internal steps to keep the rear elevation meaningfully above the lane elevation while not compromising the direct at grade access on 14th street to encourage the usage of the retail environment. Construction specs of the main floor will mitigate flood damage risk by raising glass sills to 5030, avoiding electrical and water vulnerable finishes below 5030 as examples of a few strategies. residents using storage in the basement will be informed of potential for flooding.

The **public realm** on 14th has been enhanced with effort to consolidate services to allow for a tight rhythm of tree planting. The lay-by parking stalls provide a sense of protection to pedestrians while enhancing the accessibility to the retail. Two tone paving will provide a rhythm in coordination with the tree spacing. An approximate 2meter space for egress from CRU units will be activated by retail units with opportunities for street furniture street displays and other appropriate functions. The sidewalk proper has been widened to the requested 2 meters. Lighting on the street with recessed strip fixtures will wash the front of the glass, the CRU units and provide spill over light on the

The offsite enhancements north of the site have added trees on 14th street and street furniture, provided for the buss shelter and focused on the 2nd street intersection with landscaping wrapping around the north side.

The lane will be paved with asphalt from the site north to 2nd avenue. 10 parking stalls will be reserved for retail This parking area will be finished with concrete in textured finishes to help set off the site and add to the functional width of the lane with additional space on the lane behind the stalls. The internal rear circulation hall h north entry has been moved out in line with the other entry to reduce the depth of the recess on the building face. The residential units will not have back doors on the hall to access other building amenities but their primary entrance is from the lane. Separations in the parking has been added at the residential entries to provide access to these units. The courtyard spaces have been split for each unit and to formalize the resident entry zone. brick red color accent finish of the building has been utilized to distinguish these units with their own identity. These units have the advantage of greater ceiling height which helps to provide a sense of town house. Lighting on the lane is at all entries and service areas. The light fixtures will respect dark sky objectives and avoid glare across the lane while providing security to the immediate building. Tree planting was not achieved due to parking under and power over head. Planters will be incorporated in the courtyards for residents to plant according to their tastes, but the location is not suitable for anything but smaller decorative plantings. The courtyard fences will use the same material as the wall but with a different rhythm in the pattern. These fences will be 5 ft tall to provide privacy and security with lockable gates. UDRP recommended 'Live work' as a reasonable alternate function for these units. It would be beneficial to allow flexibility for such uses on a user demand basis and allow the market place to have this option. In such circumstances application could be made to alter the fence to increase visibility

Building Architecture and Finishes - The building base on 14th street is finished with gloss white porcelain to offset the texture of the dominant cement board panels above. These will ensure a robust maintenance free finish at grade that will provide a clean contemporary expression. There are 3 colors of panels each with two textures. (White, Charcoal, Brick red) the contrast of gloss vs flat finish will add dimension to each of these fields of color. The building expression counterbalances balconies with projections that are viewed as enclosed balconies. 49 of the units do not as a result have balconies. There is dependence on the roof top for outdoor amenity for these units. The pushing and pulling of projecting forms provides a repeating pattern that breaks down the massing on the east and enhances the stepping effect on the west. The roof top canopy reaches out to the south and 14th street side providing identity to the top while being practical to manage microclimate on the roof. The roof paving creates a walk around path with various outdoor seating environments that include fire pits and a micro climate protected partial glass enclosure facing the mountains. The roof top will be a primary gathering area for residents as well providing a fitness room that features the cities night lights. These amenities disguise the mechanical spaces creating the effect of destination on the roof.

Mechanical, Electrical, Structural, Civil, Transportation, Geotech, Environmental layouts while not submitted in this package are implicit in the plans showing structural grids and accurate columns, stairs elevators and shear wall sizes. Location of mechanical and electrical has been rationalized on all floors with provision for primary ducting. Heating and cooling will provide for individual HRV systems for each unit but with efficient central hot and cold water. This will lead to a healthy building providing isolation between units and obtain the highest energy efficient potential. The building envelop will meet the current high standards of the codes leading to a high performance building. Full energy modeling will take place as part of construction documentation. The building will employ smart technologies for the total building and individual suites allowing full remote control of systems which is projected to save 1/3 of energy costs. Full scale civil are separate from this attachment. Full DSSP documents to follow in two weeks. Note reports for transportation, environmental, geotech are complete and can be submitted

Garbage SEE DETAIL SHEET #28

LOADING SWEEP PATHS SEE DETAIL SHEET see sheet detail #10
Loading sweep paths show a 6.4 Meter long truck (TAC 2017 LSU)as worst case. Larger vehicles cannot clear the power poles with .6m clearance. Moving vehicles for small units recommend 17ft trucks, this size can easily use

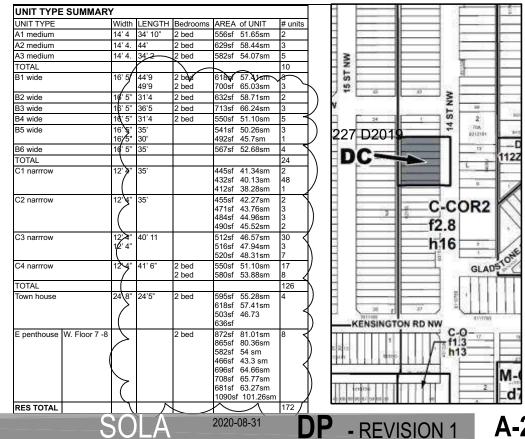
BIKE PARKING SEE A7 FOR DETAILS (215 CLASS 1 & 18 CLASS 2)- the objective is to have 1.25 bike stalls per unit on site with most as class 1 stalls so that there is a symbolic correlation between number of units and number of bikes. Bikes will typically enter the building on the car ramp. Stalls are located on P1 to prov convenient access to this entry. zone. The ramp clearance meets minimum standards of 2.4 meters should some ride down the ramp. Riding down the ramp is not encouraged but will take place. There are no other bulkhead or clearance issues affecting bike access. Extra space is provided in the p1 bike parking area for a bench and bike mount for bike maintenance and repairs. This will be encouraged rather than taking bikes up to units. Elevators are adequate to handle bikes, though the use of elevators for bike movement is not preferred.

										ided - 17 d		nuest stall
orovide			Jaioaiai		CIOII	01 01	1110 104	unca / oo	otano pro i	idod II d	coignatea	gacor otali
MU-2 By Calculati	vlaw Vehicle	Park	king									
	221 14 Stre NW	et										
Date:	2020-08-06											
Bicycle (Supply:	Class 1)	1. 25	per unit									
Land Uses		Der	sity	Bylaw Parking Ratios Base Ratios				Transit Reduction	Bylaw Stalls With No Transit Reduction	With Transit Reduction	After Shared With No Transit Reduction	d Parking With Transi Reduction
	Multi-Family (Resident)		units		stalls per	unit		25%	97	65	97	65
					stalls per	extra stalls	bike					
Multi-Fa	mily (Visitor)			0.10	stalls per	unit		25%	18	13	26	19
Retail		749	m2 GUFA		stalls per	100	m2 GUFA	25%	12	9		
				-3.00 stalls ground reduction								
Total									127	87	123	84
İ												
Parking Applied	Reductions											
Supporti	leduction Fo	nent										
located i	n a building	loca	ted within	า 600.	0 metre	s of			uced by 25.0	per cent whe	n the use is	
metres o	ing or appro of frequent b	us se	ervice.									
Note:	Transit Service on 14 Street NW (<25m) does not meet the 'frequent bus service' threshold											
	Transit Service' three			ngton	Road (145m)	does m	eet the 'frequ	ent bus			
	leduction for ve Developn			•								
the deve	lopment is re	educ	ed by 0.	25 mc	tor veh	icle pa	rking sta	lls	or all of the ι		•	
	additional bi							excess of the	e number of	bicycle parkir	ng stalls – cla	iss
of the to		of mo	otor vehi					section 135	0 for all of			
Note:	To qualify for the maximum 25% reduction requires a Class 1 bicycle supply ratio of 1.25 stalls per unit											



CONTEXT PLAN AND PHOTO LOCATIONS

Floor		Ø nits	come	on area	Gross sm	Net sm	N/G				
P2		29 stalls		1							
P1		49 stalls		/							\ /
Total garage	/	78 STALLS	_	١				1/			٧
	7		/	,				(AMENI	ry sp <i>f</i>	ACE
1 total main floor)		1221.49	976.04		₽	floor	area	notes
1 main floor retail			_ <		0	746.75	(P2		Dog wash
	()		0		,	>	P1		Bike rep
1 Main floor residential	$\overline{}$		_	\	0	221.01	(1	48	Balcony
2	(25	1253)	1288.75	1163.42			2	118	Balcony
3	\rightarrow	25	125 3 <	$\overline{}$	1366.79	1241.56		γ	3	44	Balcony
4	(25	1253)	1366.79	1241.56		Ī	4	72	Balcony
5		25	125%		1366.79	1241.56		▶	5	72	Balcony
6		25	1253	1	1293.30	1167.98	- /	1	6	72	Balcony
7	(23	1253)	1271.56	1146.24	'		7	107	Balcony
8		20	1253	,	1063.83	938.51		1	8	203	Balcony
9	1			١	212.28		(PENT	129	inside
Total NET residential					0	8361.83			PENT	597	outside
Total FAR	7	172	0 /		10451.58	9108.58	87.2%	7	TOTAL	1462	860sm require
(FAR 5=22,500sf x 5 =112,500sf n 2090.32 x 5 = 10451.6 sm	nax allowed)	l	レ				l '	Υ.	_		



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#19-4592

211-221 14th STREET

PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10



SCALE:

CPC2020-1212 - Attach 2 ISC: UNRESTRICTED





3 14ST LOOKING SOUTH FROM 2ND AVE

PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10

2020-08-31

G R O W

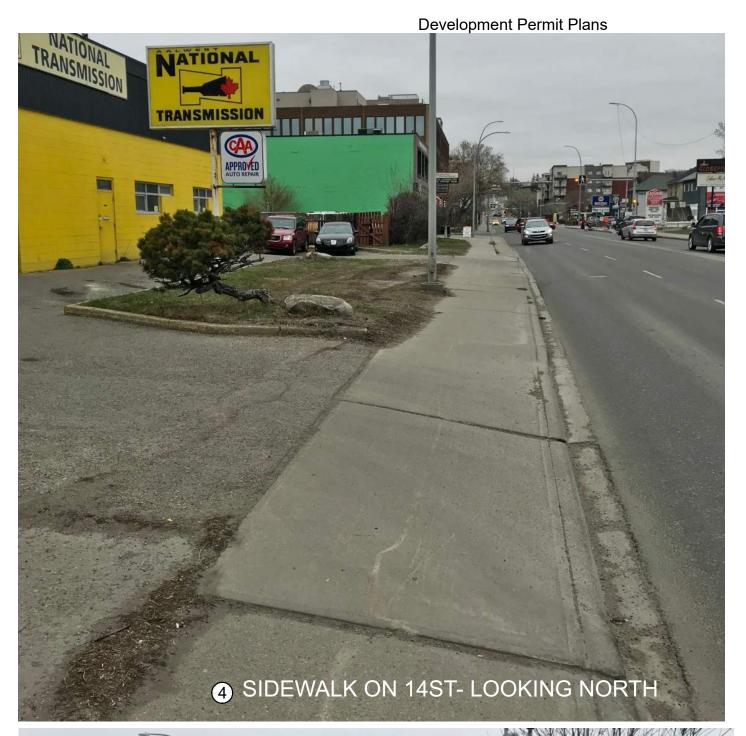
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- REVISION

SCALE:

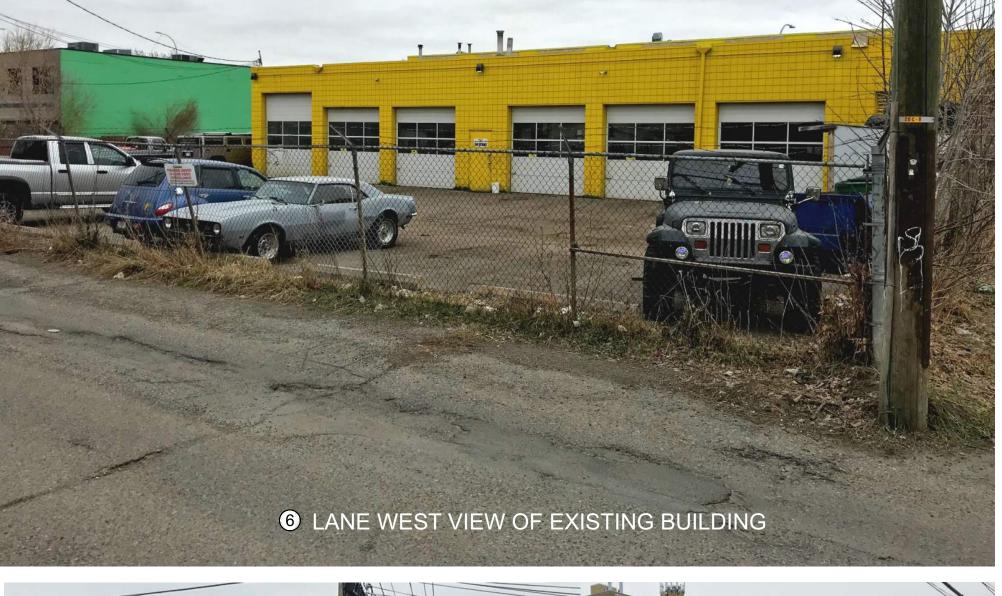


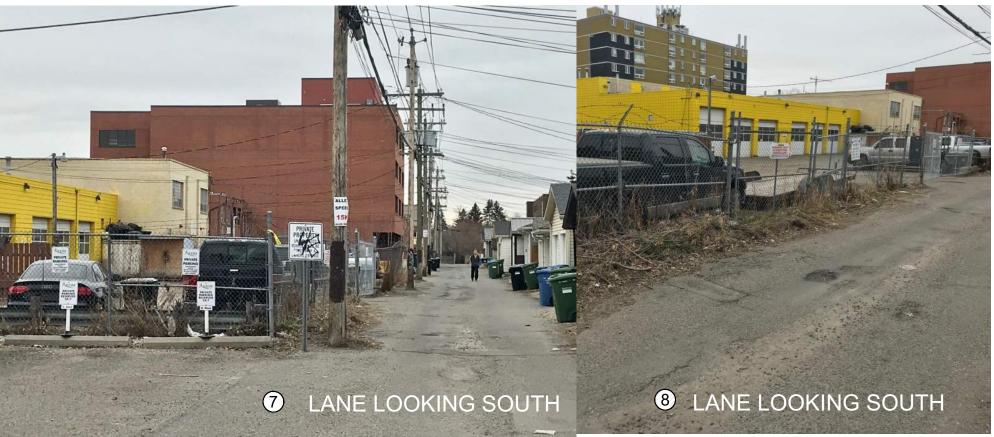


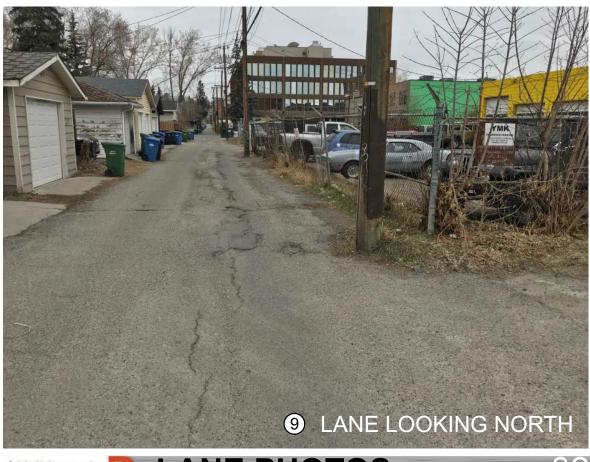
O C G R O W
GROUP OF COMPANIES

DP - REVISION 1









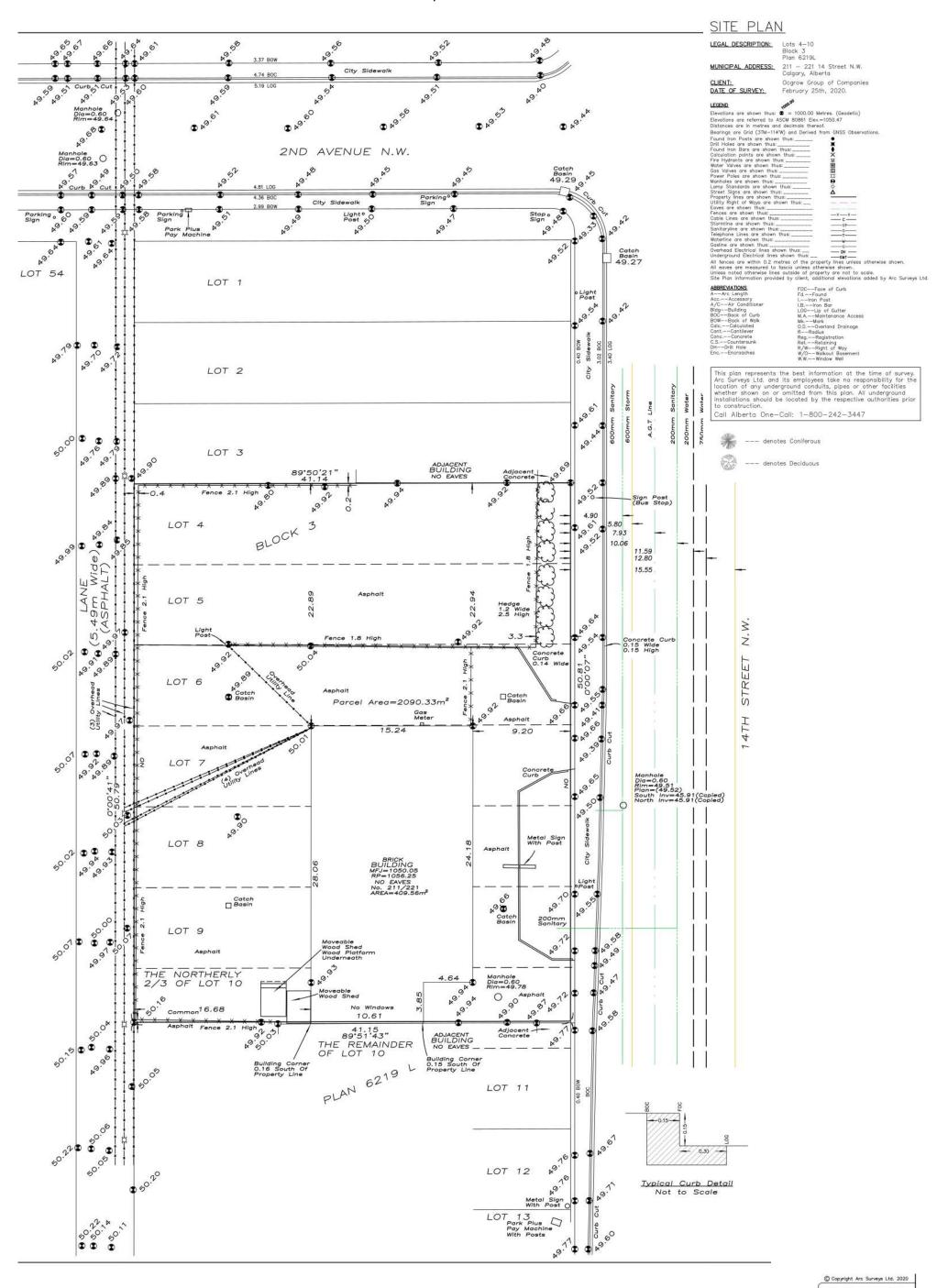
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2020-08-31 CGROW

- REVISION 1 SCALE:

A-5

211-221 14th STREET PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10



Demolition- existing on site building, shed, surface paving, catch basins, manholes, fences, signage as identified on this survey drawing will be removed as part of the building permit process.

PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10

Arc Surveys Ltd. #202, 337 41 Avenue NE Calgary, Alberta T2E 2N4 Ph.: 403-277-1272 Fax: 403-277-1275 www.arcsurveys.ca 10 File No.: 200386 Surveyed: JY Drawn: JW/JW Checked by: RB Scale: 1: 200 0m 2020-08-31 DP **REVISION 1** SCALE: NTS

CGROW

GROUP OF COMPANIES

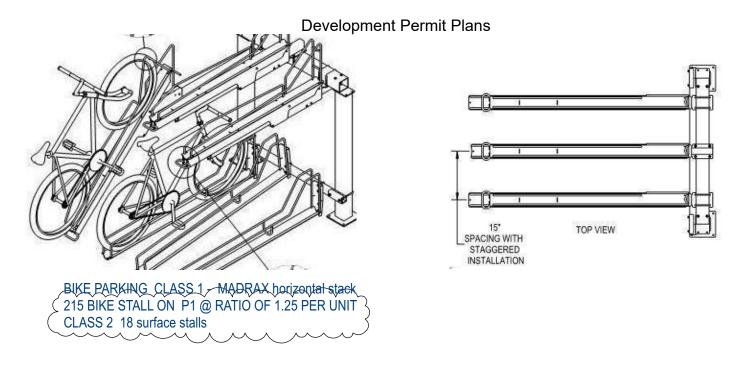
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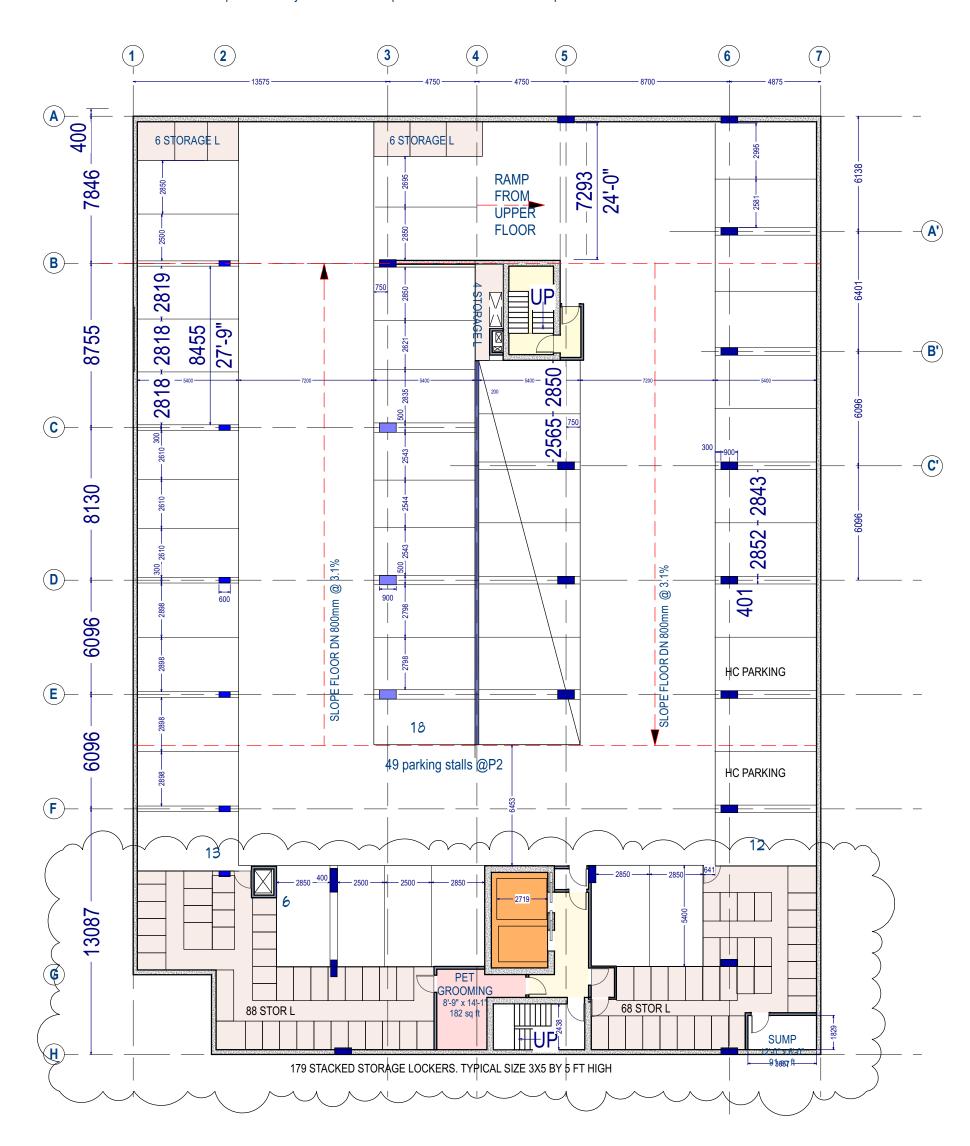
211-221 14th STREET

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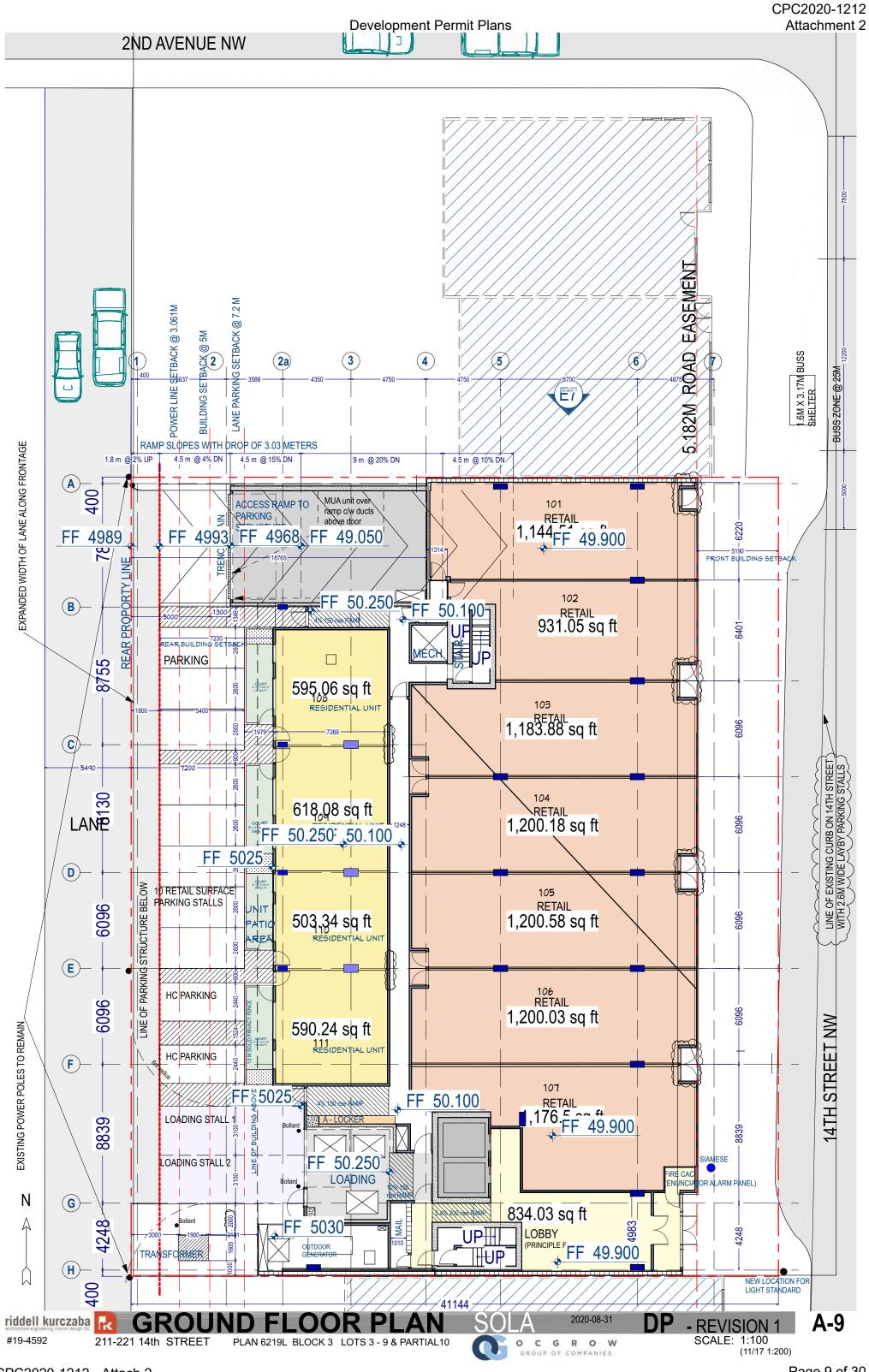
#19-4592



the stalls are on P1 provides easy access from the paved lane down the auto ramp.



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GROUP OF COMPANIES

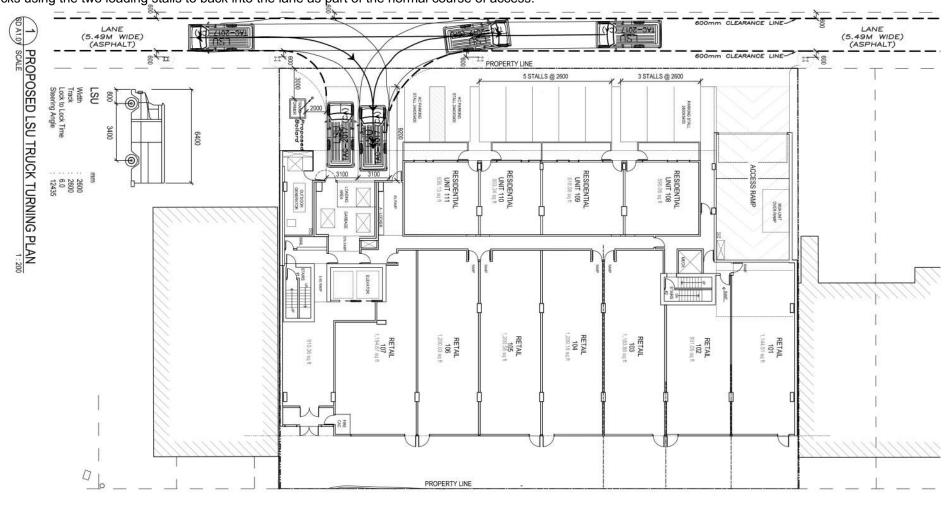


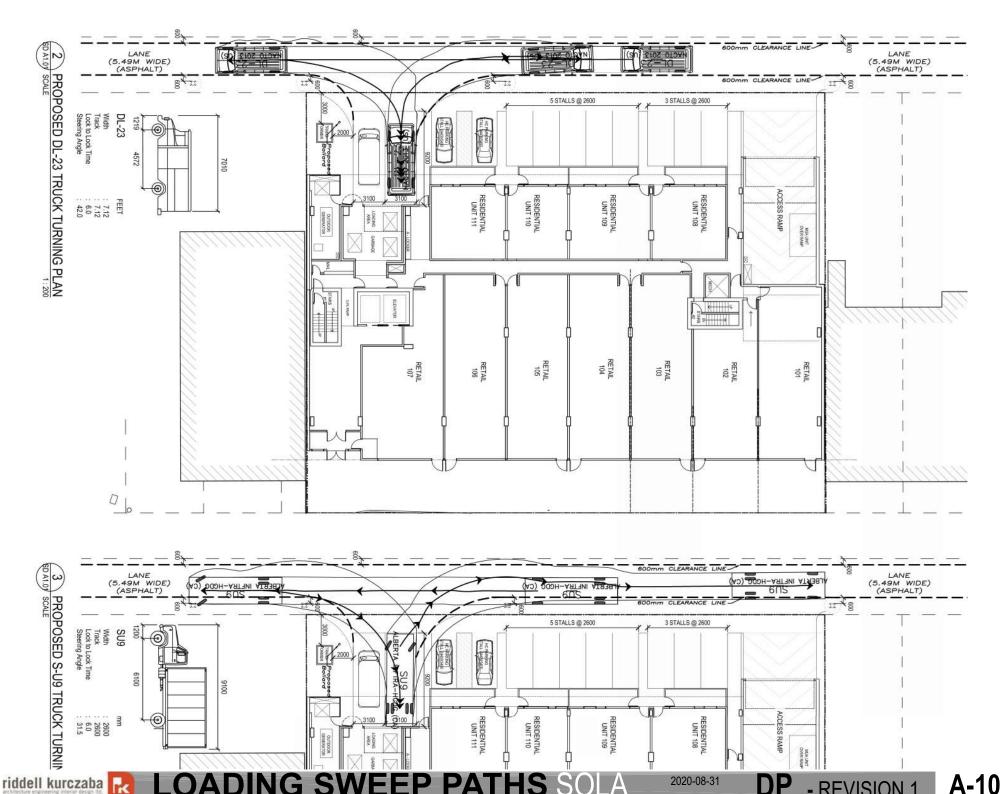
This sweep path analysis reviews 3 truck sizes. From large to small SU9 9.1m, DL23 7.01m and LSU 6.4m. The loading sweep paths for the 6.4 Meter long truck (TAC 2017 LSU) is the smallest of the tucks but represents the practical maximum size that can be accommodated. As the units in the building are very small the recommended moving vehicle size as defined by U-haul is a 17ft truck, The 6.4 meter truck fulfills the loading requirements of the residential units and of the retail which will primarily be loaded with delivery vans.

The midsize truck 7.01m also works with modest incursions into the .6m buffer zone. This truck size would have been approved in previous regulations prior to the .6m buffer requirement.

The larger truck does not work under any scenario. Due to the location of the power poles and their distance apart there is no loading sweep path that functions. This version has the truck failing on one of the power poles. We are not assuming that 2 medium or large trucks would load at the same time. We view that one loading stall could have been sought for and accepted as such the 2 stalls provide good flexibility for multi-use such as a staging area for garbage as well as for loading.

On this site as in all the new developments in Kensington with narrow lanes there are challenges with loading. This proposal is consistent with the loading solutions recently approved in near by developments. The rule to load with the sweep path completely on site is not a reasonable requirement. The implications would eliminate much of the ground floor development foot print. We are asking for a relaxation consistent with others to allow the car parking stalls to back into the land and to allow trucks using the two loading stalls to back into the lane as part of the normal course of access.





LOTS 3 - 9 & PARTIAL10

211-221 14th

STREET

PLAN 6219L BLOCK 3

#19-4592

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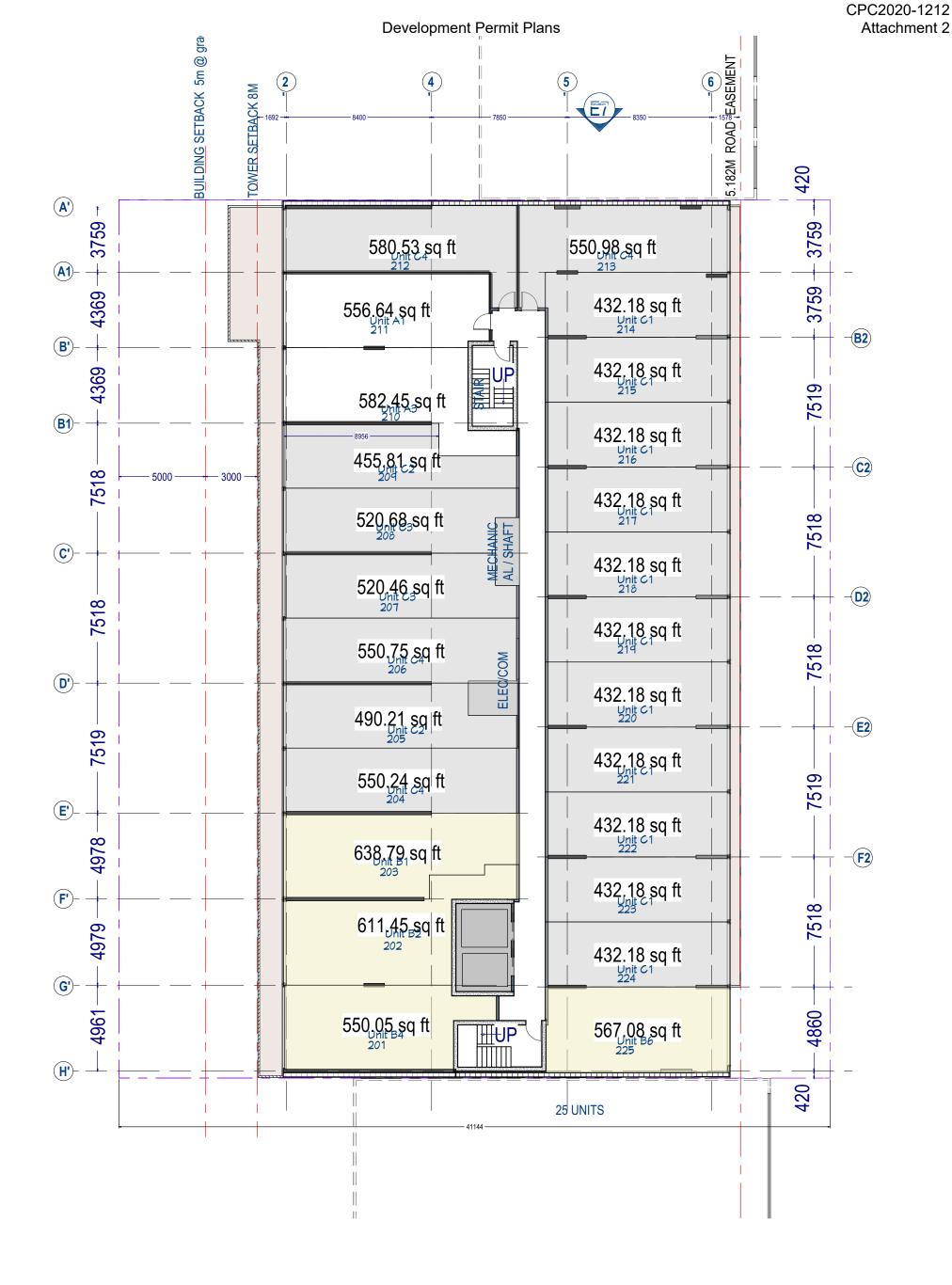
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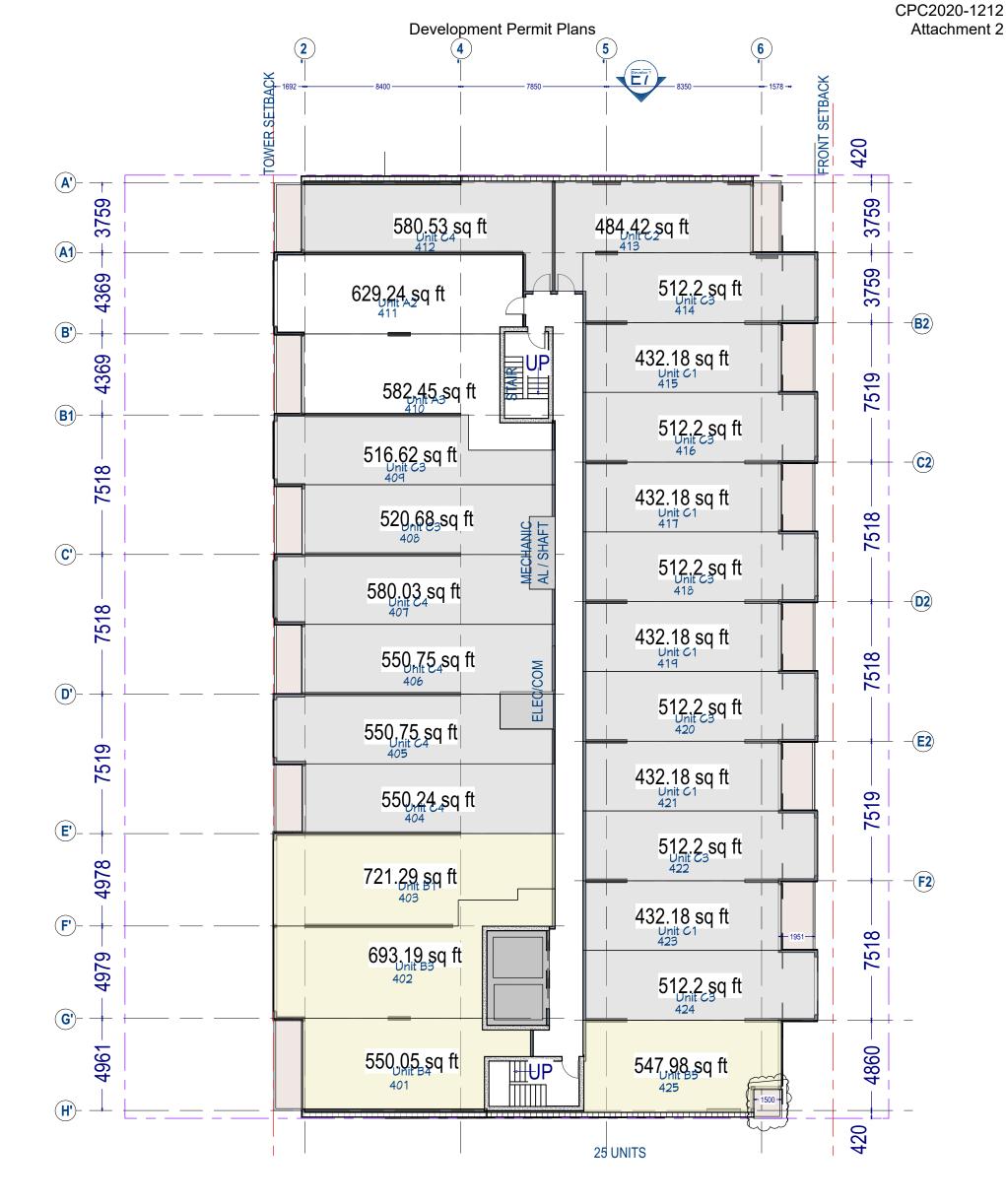
REVISION

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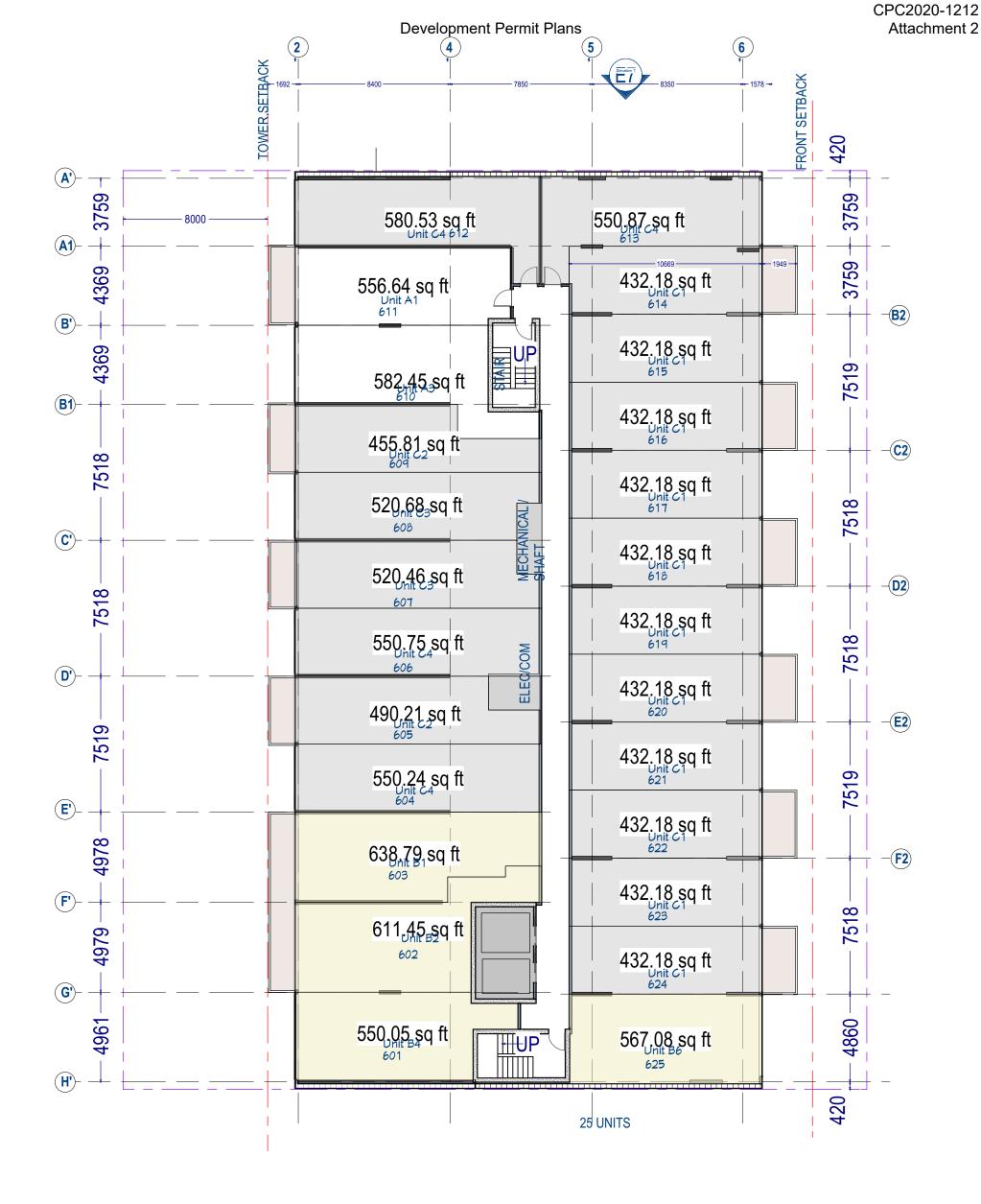


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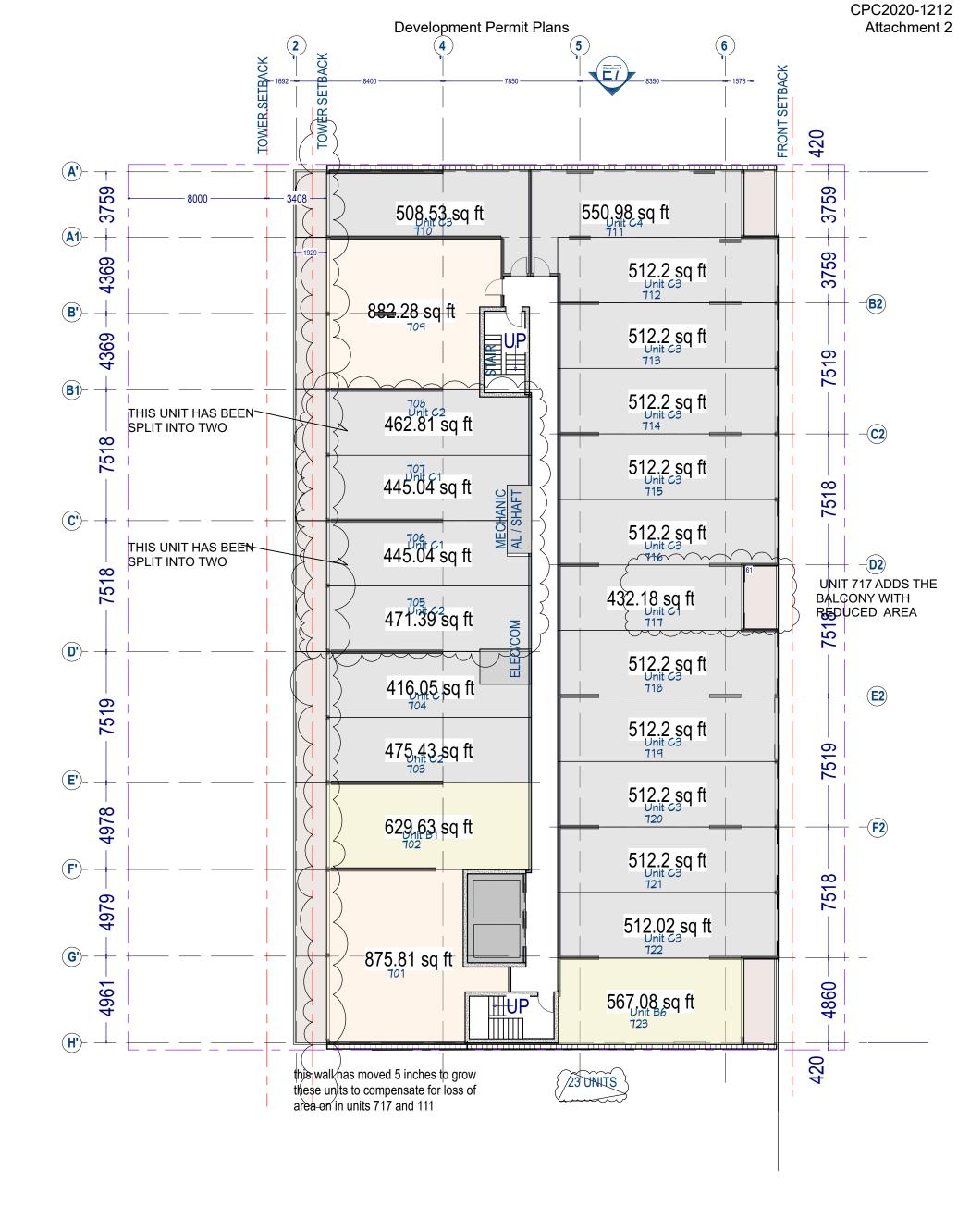
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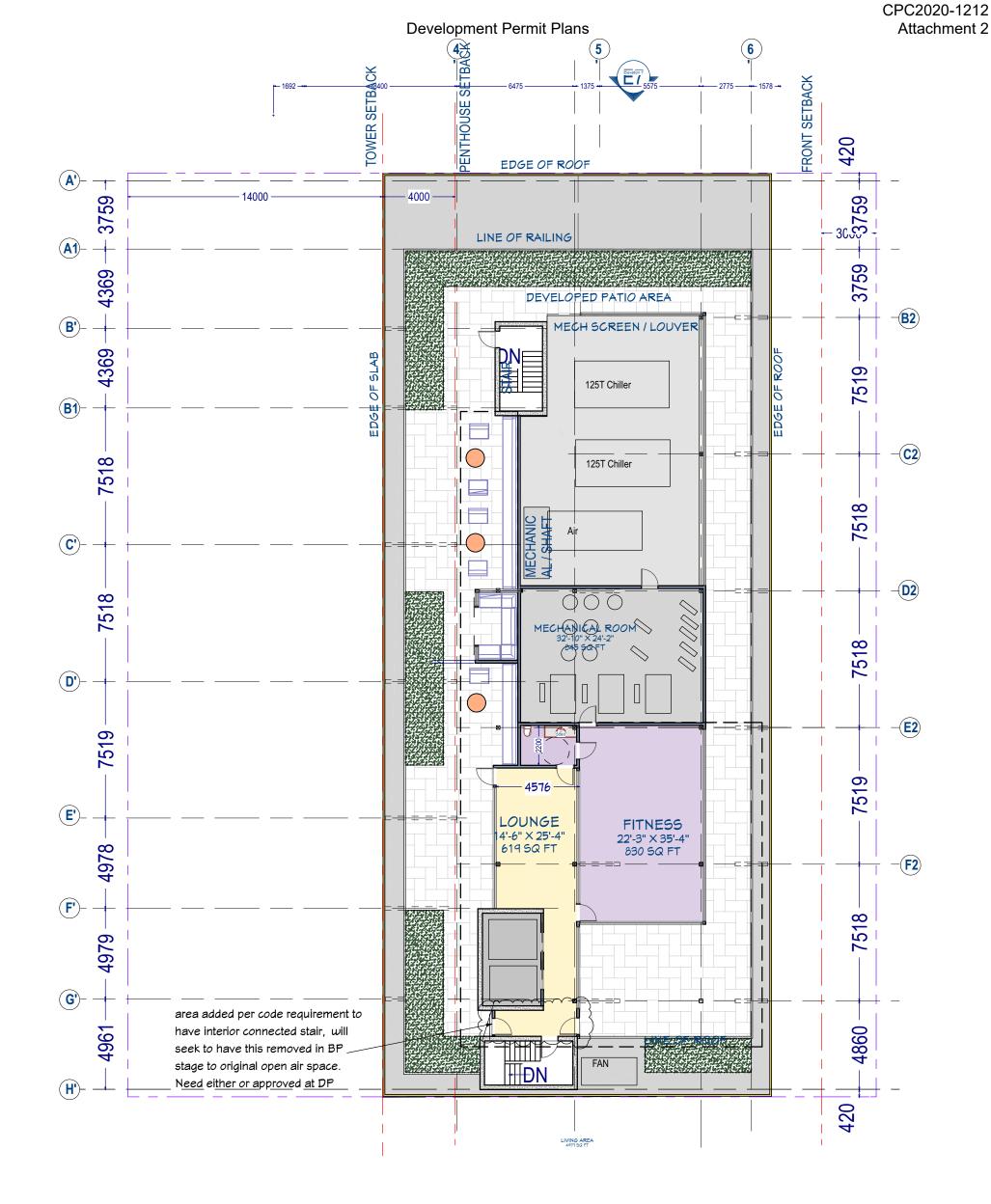
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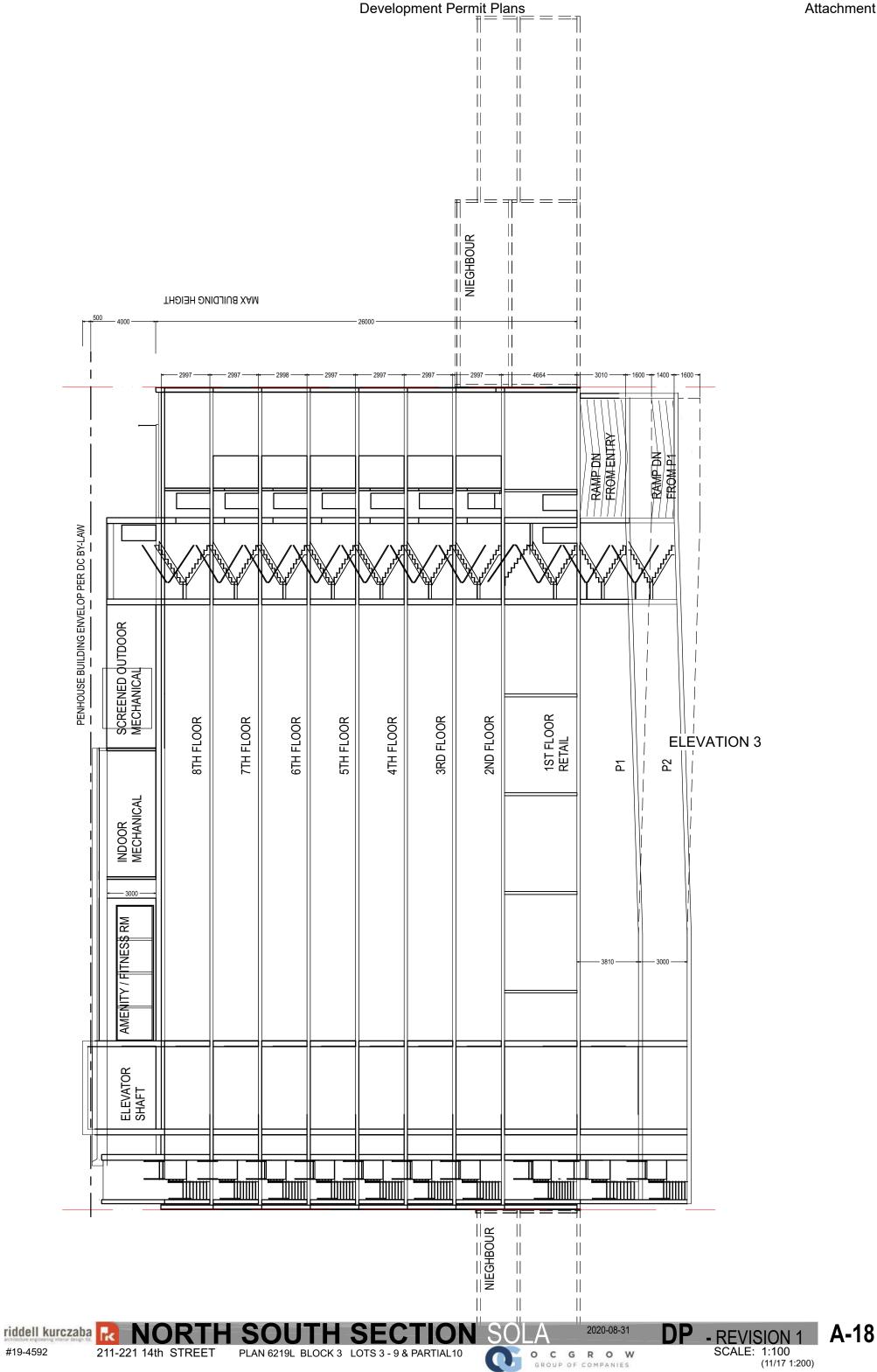
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ISC: UNRESTRICTED
Page 14 of 30



CPC2020-1212 - Attach 2
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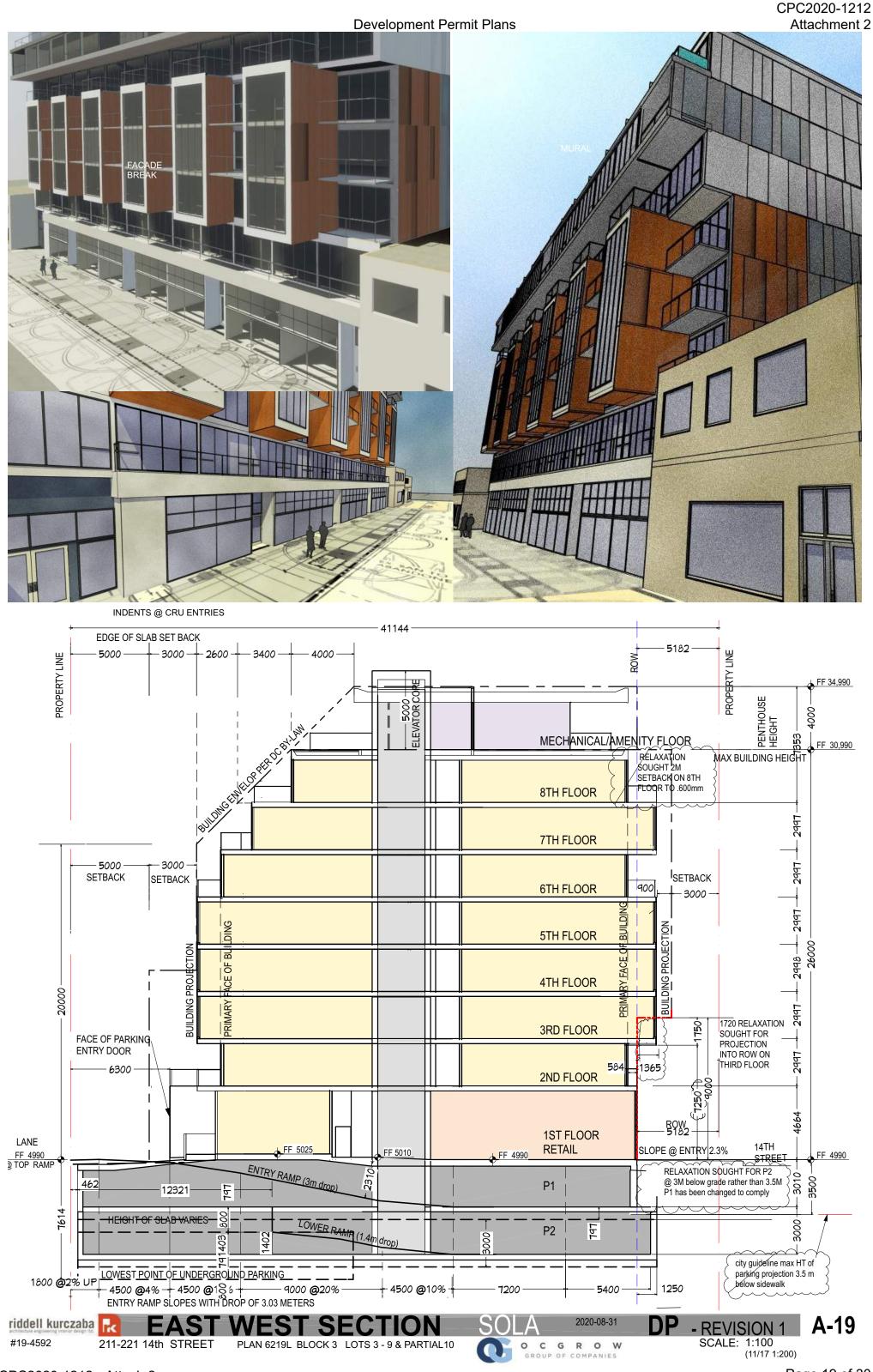


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Page 17 of 30

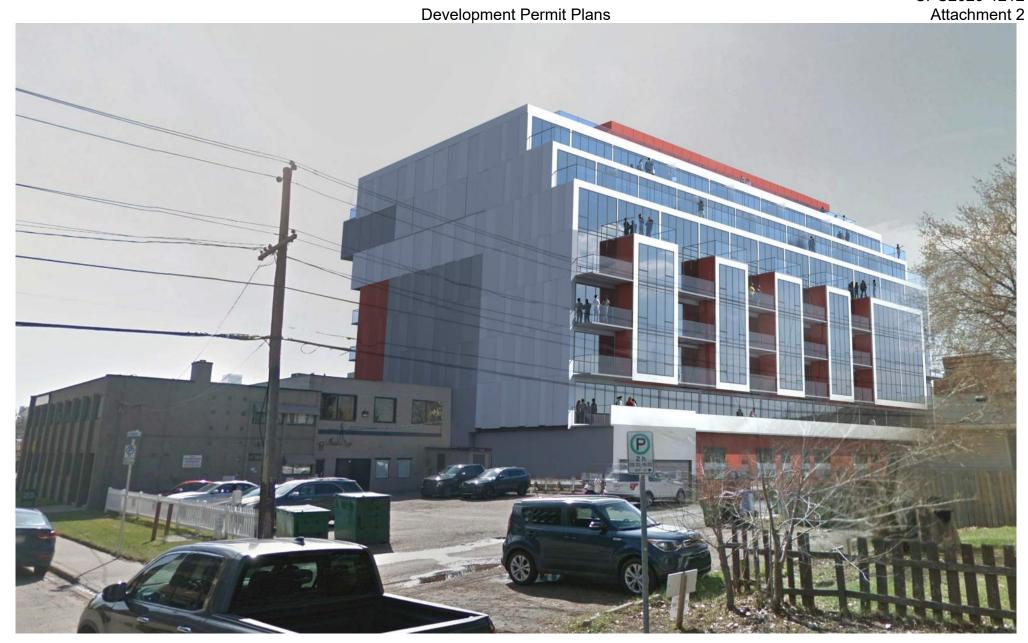


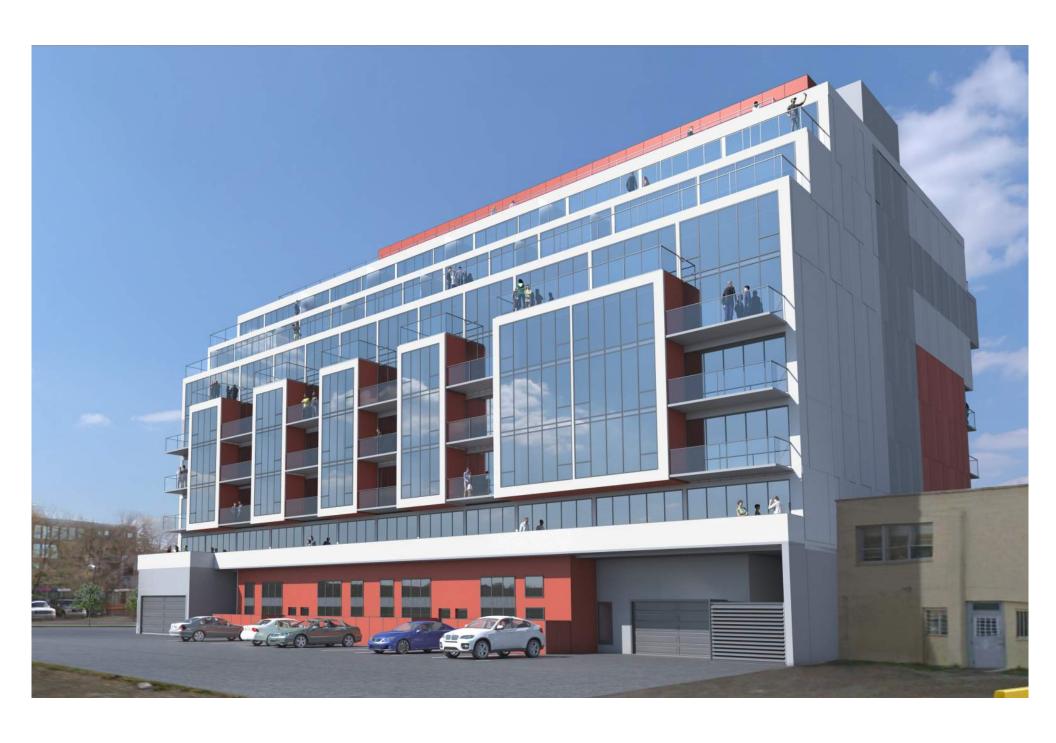
CPC2020-1212 - Attach 2 **ISC: UNRESTRICTED**

#19-4592



CPC2020-1212 - Attach 2 ISC: UNRESTRICTED





2020-08-31

O C G R O W



EAST ELEVATION SIGNAGE



GREY CEMENT PANEL-FLAT FINISH AND GLOSS FINISH **FINISHES** FLAT FINISH AND GLOSS FINISH 2A WHITE PORCELAIN PANEL-BRICK RED CEMENT PANEL-FLAT FINISH AND GLOSS FINISH WHITE OR GREY LOUVRE-5 GLASS RAIL - NOT TINTED 6 CONC. or Granit base. 400mm ht 7 GLASS NOT TINTED

WEST ELEVATION

SIGNAGE NOTES

CRU SIGNAGE TO BE RAISED LETTERING ON TOP OF MIDDLE WIDOW LIGHT, CONTINUOUS HORIZONTAL GRILL TO BE INSTALLED OVER WINDOW C/W 2 BANDS TO SUPPORT LETTERING. LETTERING TO BE 500mm HIGH

SIGNAGE TO BE ALSO LOCATE ABOVE THE TWO REAR RETAIL ENTRY DOORS

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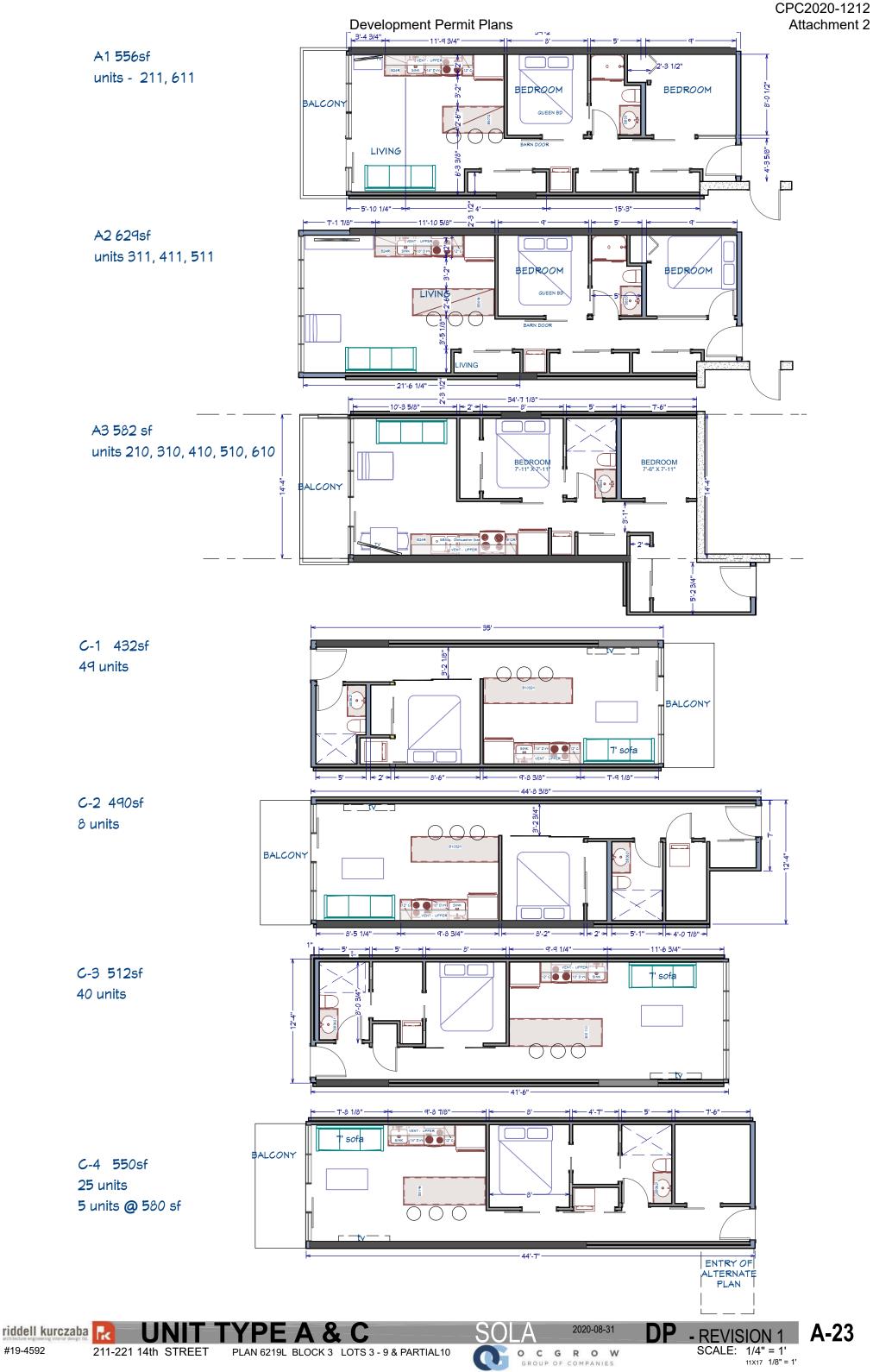
PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10



- REVISION 1 SCALE: 1:100 (11/17 1:200)

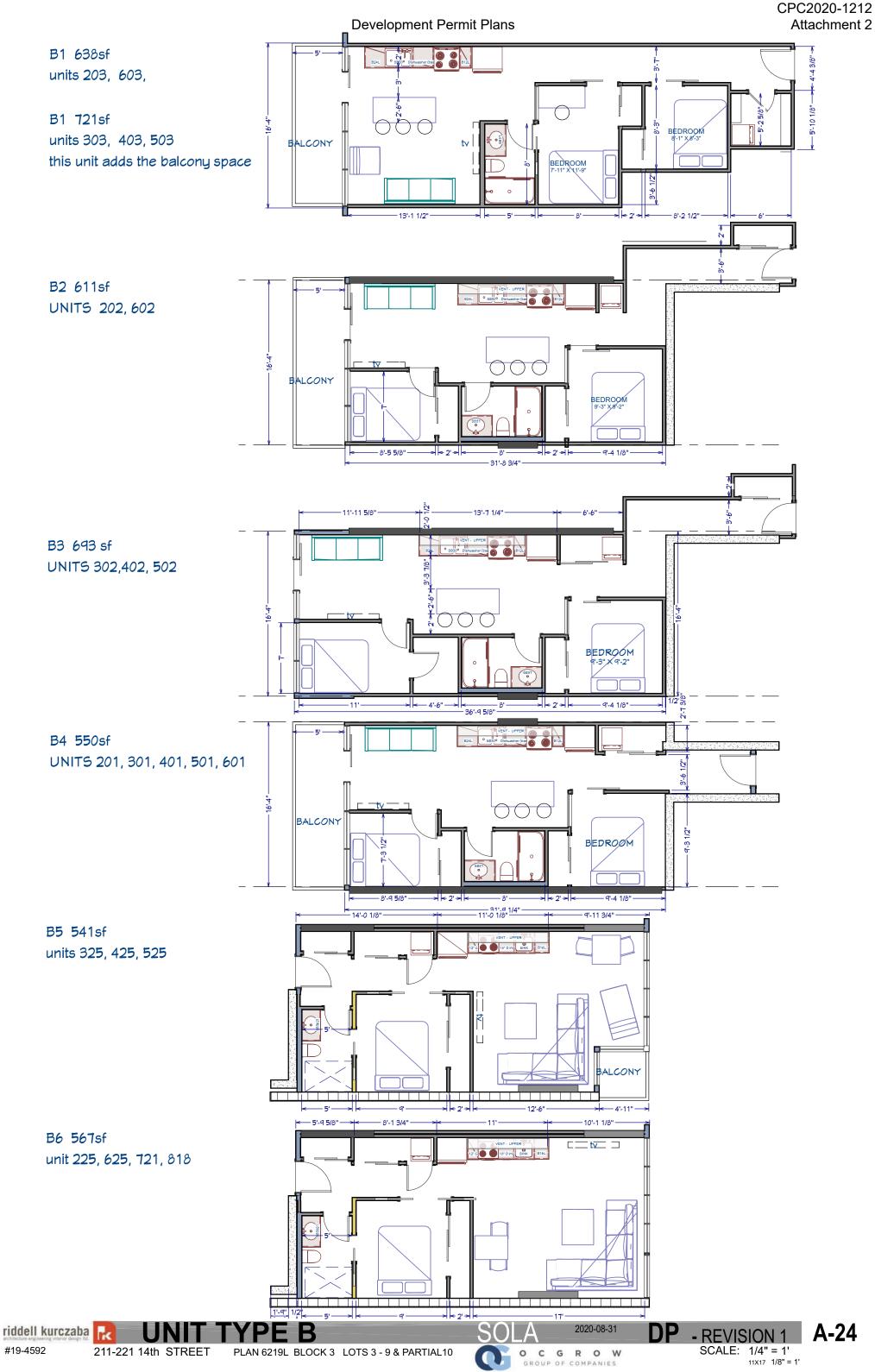


CPC2020-1212 - Attach 2
Page 22 of 30
ISC: UNRESTRICTED



CPC2020-1212 - Attach 2 **ISC: UNRESTRICTED**

#19-4592



CPC2020-1212 - Attach 2 ISC: UNRESTRICTED

The June 21 shadow created by the proposed building on neighbouring residential to the west is marginally less than the shadow the ARP envelope would create. This is achieved by moving the building as close to 14th street as possible and stepping the building.

The March 21 shadow created by the proposed building on neighbouring residential to the west is marginally more than the shadow the ARP envelope would create. This means that for more than half of the year the shadow created by the building is equivalent to the shadow the ARP envelop would create.

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O C G R O W
GROUP OF COMPANIES

DP - REVISION 1

CPC2020-1212

The December 21 shadow created by the proposed building on neighbouring residential to the west is more than the shadow the ARP envelope would create. However for those residences immediately across the lane the impact is still marginally less than the ARP shadow due to the building steps. The shadow impact is greater on lots further away than immediate neighbours. It is meaningful to keep in persective that the winter sun is predominantly in the south, as such the real impact of shadow created by this building is to the north of the site on 14th street and on other taller buildings where the impact is less of a concern.

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DEC 21 SHADOWS
211-221 14th STREET PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10



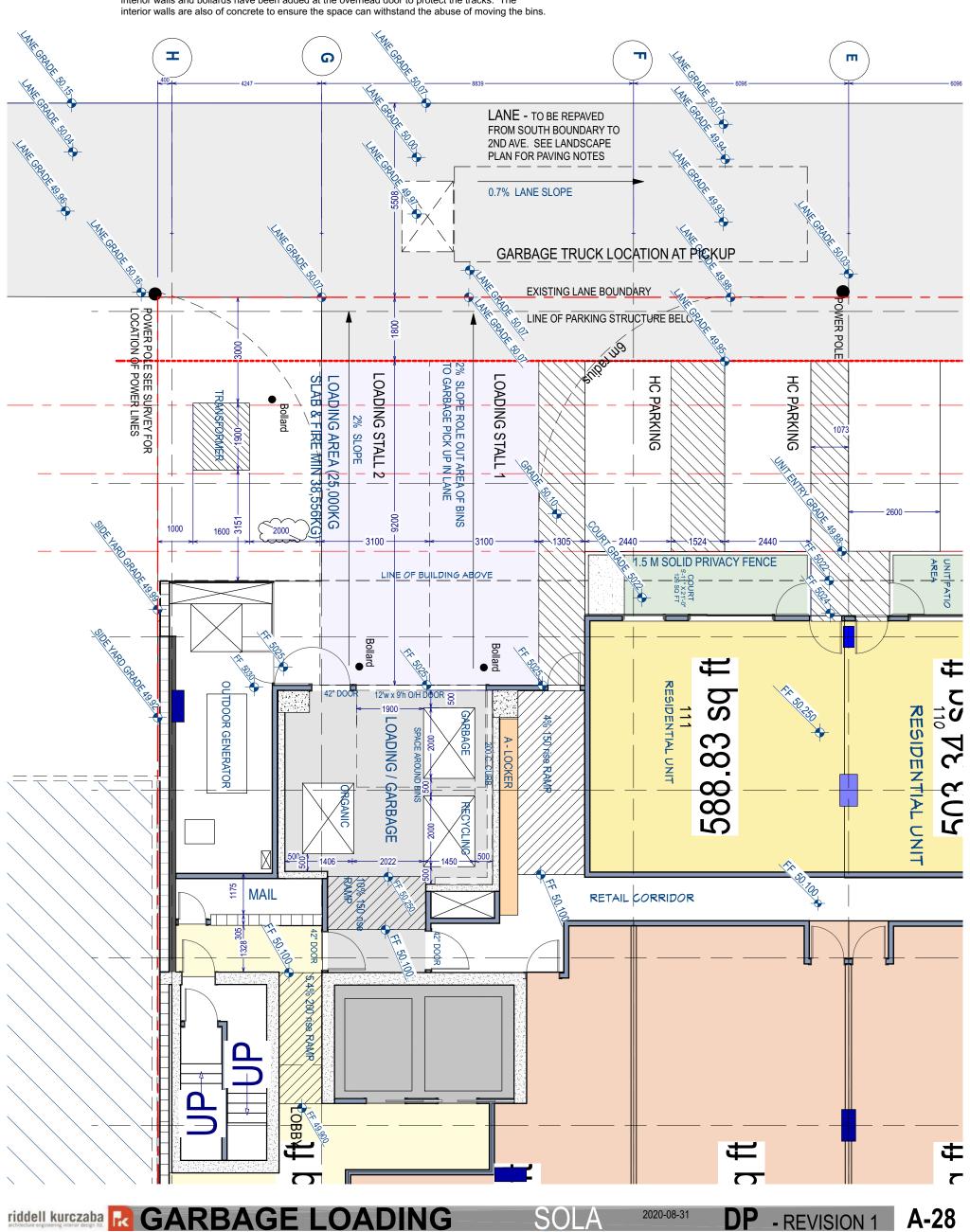
P - REVISION 1 SCALE:

CPC2020-1212

Development Permit Plans

Garbage The assumed amount of garbage of .3 yds/unit x 168= 50.4 yards per week plus the garbage from 747sm of commercial or 2.5 yards. Provision is made for 3 six yard container for a total of 18 yards of garbage containers. This will require two pick ups per week. With the predominance of small units the .3 yards per unit over estimates the amount generated but given that the service will be procured privately the condo association will be able to monitor the frequency of garbage pick up. The preferred container solution will utilize 4 yard containers which are easier to move and access, this would result in a likely frequency of 3 pickups per week. The garbage room can be fitted with 3 large bins . The service apron outside is essentially level (2%) with the paved lane making access practical. This apron and lane pick up area would be cleaned of snow for year-round accessibility. The overhead power lines make it necessary to load garbage completely from the lane. This loading area will be shared between the retail units and the condominium. Final decisions on size of bin and frequency of pickup will be subject to contractual agreements with a service provider. While the space is tight, .5m space is provided around each large bin with sufficient space to move bins in and out for pick up in the lane and allow for loading to happen through the space.

The overhead door is 12 ft wide by 9 ft tall to allow for direct removal of the bins with minimal sideways movement. A concrete curb is included to prevent bins from hitting the door track and interior walls and bollards have been added at the overhead door to protect the tracks. The



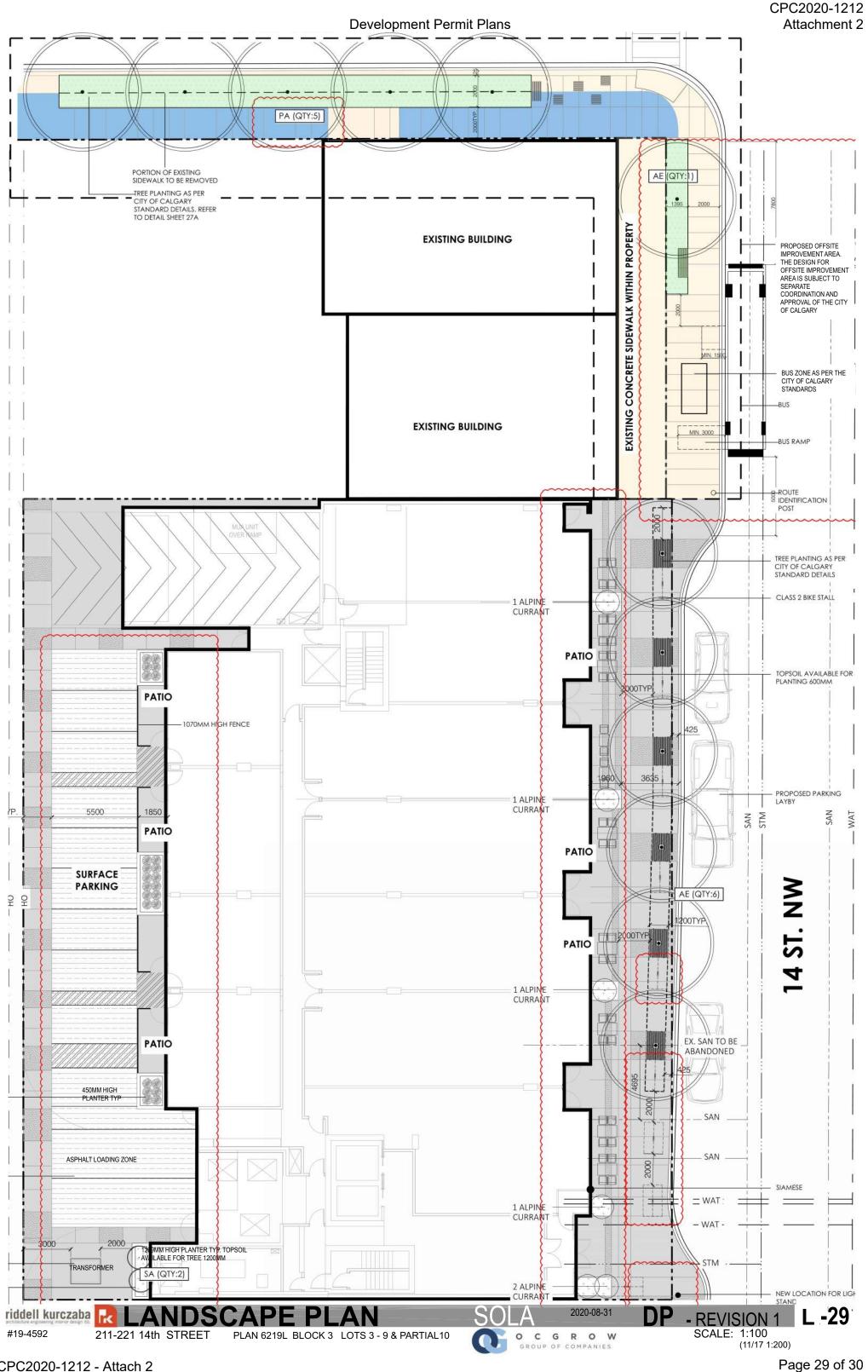
PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10

#19-4592

SCALE:

C

GROW GROUP OF COMPANIES



CPC2020-1212 - Attach 2 **ISC: UNRESTRICTED**

LEGEND



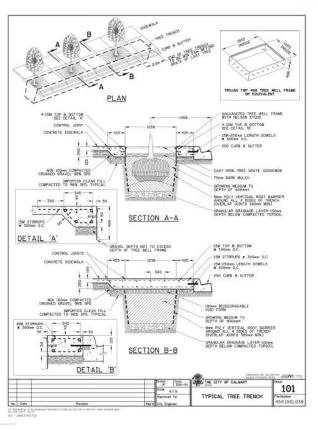


NAVAGRAH LANDSCAPE ARCHITECTURE + URBAN DESIGN

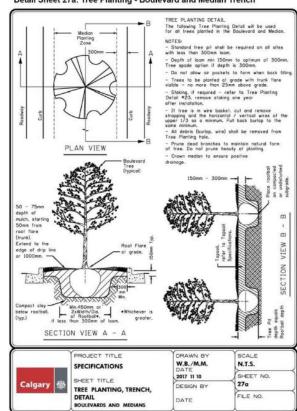
SOLA IN KENSING

TREE PLANTING

(ALONG 14 STREET NW IN FRONT OF THE SITE)

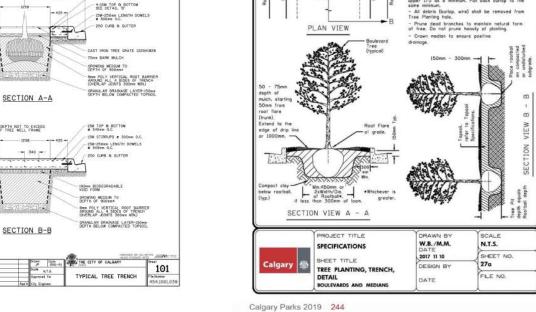


(FOR OFF-SITE IMPROVEMENT AREA)



TREE PLANTING

Detail Sheet 27a: Tree Planting - Boulevard and Median Trench



LANDSCAPE ANALYSIS

SITE AREA: 2090.53 SQ.M.

TOTAL TREES PROVIDED = 8

DECIDUOUS TREES PROVIDED = 8 DECIDUOUS TREES WITH MIN 75MM CALLIPER PROVIDED = 6

REMAINING DECIDUOUS TREES TO HAVE MIN. 50MM CALLIPER

TOTAL SHRUBS PROVIDED = 6

PLANTING SCHEDULE

common name	latin name	size/spread	quantity
deciduous trees	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
SA SWEDISH COLUMNAR ASPEN	POPULUS TREMULA 'ERECTA'	50MM CAL.	02
AE AMERICAN ELM	ULMUS AMERICANA	75MM CAL.	06
boulevard tree in off-site area (no	ot part of landscape calculation)		{
PA PRAIRIE SPIRE GREEN ASH	FRAXINUS PENNSYLVANICA 'RUGBY'	65MM CAL.	05 3
AE AMERICAN ELM	ULMUS AMERICANA	65MM CAL.	01
			~~~~
common name	latin name	size/ spread	quantity
deciduous shrubs			
ALPINE CURRANT	RIBES ALPINUM	600MM HT	06

## **NOTES**

- 1. THIS DRAWING HAS BEEN PREPARED FOR DEVELOPMENT PERMIT PURPOSES ONLY. IT IS NOT TO BE USED FOR
- CONSTRUCTION PURPOSES. 2. ALL PLANT MATERIAL TO CONFIRM TO THE CANADIAN NURSERY TRADES ASSOCIATION STANDARDS.
- 3. ALL PLANT MATERIAL SIZES SHOWN ARE MINIMUM SIZES.
- 4. VERIFY ALL DIMENSIONS, ELEVATIONS, AND DATUM. REPORT ANY ERRORS AND/OR DISCREPANCIES TO THE OWNER PRIOR TO CONSTRUCTION.
- 5. DO NOT SCALE DRAWINGS.
- 6. ALL PLANTING BEDS TO HAVE A MINIMUM OF 75MM DEPTH CEDAR MULCH UNLESS OTHERWISE NOTED.
- 7. ALL SOFT SURFACE LANDSCAPE AREAS TO BE IRRIGATED WITH UNDERGROUND IRRIGATION SYSTEM. 8. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

*** TOPSOIL AVAILABLE FOR PLANTINGS OVER PARKADE: TREES 1200MM SHRUBS 600MM

**GRASS & PERENNIALS 300MM** 

211-221 14th STREET

19141KMIU. Kensington Mixed Use\19141KMIU. Kensington Mixed Use\Current\19141KMIU_Site Landscape Plan_200828.dwg Plotted: August 28, 2020 12:38:14 PM by Chen Cher ISSUED FOR DATE CLIENT REVIEW 191115 PRE-APP SUBMISSION 200116 DP SUBMISSION 200624 DTR SUBMISSION ALL LANDSCAPE DRAWINGS REMAIN THE PROPERTY OF THE LANDSCAPE, PROPERTY OF NAVAGRAH LANDSCAPE ARCHITECTURE + URBAN DESIGN I REPRODUCED WITHOUT THE PERMISSION OF THE LANDSCAPE ARCHITECT. Y:\Projects\19141KMIU. SCALE 1:150 DATE 191114 DRAWN BY CC CHECKED BY YN LAYOUT

SEAL

riddell kurczaba

#19-4592



PLAN 6219L BLOCK 3 LOTS 3 - 9 & PARTIAL10

