



City of Richmond

Report to Development Permit Panel

To: Development Permit Panel

Date: November 20, 2019

From: Wayne Craig
Director, Development

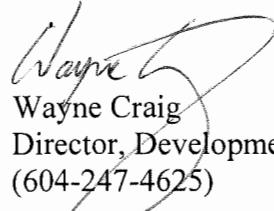
File: DP 18-818671

Re: **Application by Christopher Bozyk Architects Ltd. for a Development Permit at
4693, 4720, 4740 Vanguard Road and Road Parcel Richmond Key 20909**

Staff Recommendation

That a Development Permit be issued which would:

1. Permit the construction of two industrial buildings on the consolidated parcel including 4693, 4720, 4740 Vanguard Road and Road Parcel Richmond Key 20909 on a site zoned “Industrial Retail (IR1)”; and
2. Vary the provisions of Richmond Zoning Bylaw 8500 to:
 - a) Increase the maximum height for buildings from 12.0 m to 16.15 m; and
 - b) Reduce the minimum vehicle manoeuvring aisle width from 7.5 m to 6.7 m.


Wayne Craig
Director, Development
(604-247-4625)

WC:jr
Att. 5

Staff Report

Origin

Christopher Bozyk Architects Ltd. has applied to the City of Richmond for permission to develop two industrial buildings on a consolidated parcel including 4693, 4720, 4740 Vanguard Road and Road Parcel Richmond Key 20909. The development site is currently zoned “Industrial Retail (IR1)” and contains several large industrial buildings. A location map is provided in Attachment 1.

There is no associated rezoning, but two variances are requested.

Background

The subject site is located in the East Cambie planning area. Development surrounding the subject site is as follows:

- To the north, two large 5,818 m² and 3,562 m² (62,624 ft² / 38,341 ft²) lots containing industrial warehouses. Both lots are zoned “Industrial Retail (IR1)”.
- To the east, an 8,106 m² (87,252 ft²) vacant treed lot owned by the BC Transportation Financing Authority and zoned “School & Institutional Use (SI)”.
- To the south, Highway 91, beyond which is the Richmond Nature Park on a property zoned “School & Institutional Use (SI).” This property is also identified as part of the Agricultural Land Reserve (ALR).
- To the west, a rail right-of-way (ROW) corridor and Shell Road. The rail corridor is owned by CN Rail, and the portion of the corridor adjacent to the subject site is zoned “Industrial Retail (IR1).”

Related Policies and Studies

Aircraft Noise Sensitive Development Policy

The subject site is located within Aircraft Noise Area 1A, which restricts all new noise sensitive uses. The proposed industrial use is not restricted, and noise mitigation is not required. Prior to issuance of the Development Permit, the applicant is required to register an aircraft noise covenant on Title to address public awareness of the potential impact of aircraft noise on the site.

Floodplain Management Implementation Strategy

The proposed redevelopment must meet the requirements of Richmond Flood Plain Designation and Protection Bylaw 8204. Registration of a flood indemnity covenant on Title is required prior to issuance of the Development Permit.

Development Information

Please refer to the attached Development Application Data Sheet (Attachment 3) for a comparison of the proposed development data with the relevant Bylaw requirements.

The applicant proposes to construct two buildings on the consolidated site (referred to as Building A and Building B in the plans), which would have a combined net built area of 19,018 m² (204,714 ft²). The proposal is for stacked warehouse units, each with a main floor and a mezzanine, arranged on a central corridor forming a spine. The developer intends to stratify these units. Each building is described as having three storeys and one mezzanine, giving the appearance of a four-storey building.

Ground floor units are accessed directly from the drive aisle via insulated steel overhead rolling doors or via the internal central corridor. At upper levels, units are accessed from the central corridor within the building or perimeter corridors that run around the third floor. Stair cases are located at either end of the central corridor and at each of the four corners of each building. Each building has three elevators, including two freight elevators, located at the north end of the central corridor.

The exterior of the buildings consist of painted concrete, metal panels, spandrel panels, and extensive areas of clear glazing. Landscaping is proposed at the corners of each building and around the perimeter of the site, as well as on a portion of the third storey roofs. Unobstructed pedestrian pathways are provided around each building, and marked crosswalks are provided in key locations.

The applicant provided an ornithologist's report on the proposed development, which included recommendations for strategies to mitigate bird strikes. Recommendations incorporated into the proposal include reduced glazing on the upper storeys of the buildings, introduction of ceramic frit treatment on the south façade of Building A and the south and east facades of Building B, and use of full cut-off lighting on the building exteriors and parking area. These design measures are included in the DP plan set and secured accordingly.

Rezoning and Public Hearing Results

As the site does not require a rezoning, the proposed development was not required to go through a Public Hearing.

Staff Comments

The proposed scheme attached to this report has satisfactorily addressed the significant urban design issues and other staff comments identified as part of the review of the subject Development Permit application. In addition, it complies with the intent of the applicable sections of the Official Community Plan (OCP) and is generally in compliance with the "Industrial Retail (IR1)" except for the zoning variances noted below.

Zoning Compliance/Variances (staff comments in *bold italics***)**

The subject site's current "Industrial Retail (IR1)" zoning provides for a range of general industrial uses, stand-alone offices and a limited range of general retail uses. Retail uses currently permitted in the "Industrial Retail (IR1)" zone are generally limited to retail goods that require large floor areas like furniture, carpet, home appliances and building materials. Zoning compliance would be enforced through the Business Licensing and Building Permit application processes for each strata owner and/or building tenant. A legal agreement will be registered on Title notifying prospective buyers about the property zoning.

The applicant requests to vary the provisions of Richmond Zoning Bylaw 8500 to:

- a) Increase the maximum height for buildings in the “Industrial Retail (IR1)” zone from 12.0 m to 16.15 m.

Staff supports the proposed variance as the additional height allows the proposed units to be stacked, a new approach to warehouse buildings in Richmond that allows for more intensive use of the site while enhancing the open areas around each building.

The requested height variance includes 15.85 m to the top of the roof, plus an additional 0.30 m to accommodate solar panels, for a total building height of 16.15 m.

- b) Reduce the minimum vehicle manoeuvring aisle width from 7.5 m to 6.7 m.

The requested variance would apply to the drive aisles located on the west, south, and east portions of the site only. The reduced drive aisle width maintains two-way vehicle traffic throughout the site and adequate manoeuvring space at drive aisle intersections for vehicle turning movements. The centre and north drive aisles have a proposed minimum width of 7.87 m, which exceeds the Zoning Bylaw requirement.

Staff supports the proposed variance as the reduced drive aisles allow for separated pedestrian circulation around each building and will not impact the designated medium and large loading spaces. Transportation staff have reviewed the proposal and support the requested variance.

Advisory Design Panel Comments

At their meeting of December 6, 2018, the Advisory Design Panel (ADP) provided their support for the application subject to consideration of the Panel’s comments. The applicant has incorporated a number of design changes in response to the Panel’s comments, including:

- Design solutions to mitigate potential bird strikes;
- Enclosure and screening of rooftop mechanical systems;
- Improved landscaping throughout the site;
- Improved pedestrian circulation around buildings and from parking areas;
- Addition of permeable pavers to mark the entrance to the site;
- Addition of green roofs on each of the buildings; and
- Addition of solar panels on each of the buildings.

An excerpt from the Advisory Design Panel Minutes from December 6, 2018 is attached for reference (Attachment 4). The design response from the applicant has been included immediately following the specific Design Panel comments and is identified in ***bold italics***.

Analysis

Conditions of Adjacency

- The buildings have been designed to have a strong visible presence on Highway 91 and Shell Road, and include extensive clear glazing.

- The buildings are taller than the one and two storey buildings in the immediate area. However the height is comparable to recently approved industrial buildings north of Highway 99, continuing the revitalization of the area.
- The subject site is located across Highway 91 from the Richmond Nature Park. The applicant provided a report from an ornithologist which identified a moderate risk of bird strikes on the south elevation of Building A and the south and east elevations of Building B. Design solutions in the proposed development include ceramic frit on the sensitive building elevations, reduced area of glazed surfaces throughout, and use of full cut-off lighting in outdoor areas. Together, these measures reduce the potential for bird strikes.

Urban Design and Site Planning

- The proposal involves consolidation of the properties into a single lot, which will have a single vehicle access from Vanguard Road.
- The two buildings separated by a centre drive aisle and truck court, which contains loading and parking spaces. Additional parking spaces surround each building.
- Two garbage enclosures are proposed in the northwest and northeast corners of the site. The proposed enclosures are concrete with steel swing doors finished to match the metal cladding on each building. Landscaping is proposed to screen the concrete structure, with minimum 2.0 m tall “Emerald Cedar” hedges planted along the interface with Shell Road, consistent with the screening requirements contained in the Zoning Bylaw.

Parking and Access

- Access to the site is via a single driveway at the terminus of Vanguard Road. A small cul-de-sac will be constructed in the road allowance to accommodate turning movements of passenger vehicles without entering the site. Design and construction will be through the Servicing Agreement.
- Larger vehicles will be able to turn around on-site, and an SRW for public rights-of-passage will be secured for this purpose.
- On-site vehicle parking is in excess of the 75 spaces required in the Zoning Bylaw. A total of 208 spaces are provided, including 4 handicapped accessible spaces and 107 small car spaces. The handicapped spaces are located nearest the main entry points of each building.
- Three large loading spaces are located parallel to the drive aisle on the north side of the site, and twelve medium loading spaces are located in the central truck court, which exceeds the Zoning Bylaw loading requirements.
- Forty-eight (48) Class 1 bicycle spaces are provided within the building in individual units. There is no common secure bike facility proposed. An additional 48 Class 2 bicycle spaces are provided via several bicycle racks grouped in six locations near the building entrances.

Architectural Form and Character

- Two industrial buildings are proposed, each having the appearance of a four-storey building.
- The buildings are largely the same in design and appearance, except Building A is wider and each building is accented with a different primary colour.
- The buildings have a modern appearance, with extensive clear glazing on all four elevations and roofs that slope upwards gently.
- Full-height vertical elements break up the horizontal massing on the north and south elevations of each building.

- Corrugated metal screening will be provided for rooftop mechanical equipment, and will be located on either side of the spine of each building. The screens are set back from the edge of the roof and will not project above the 15.85 m height of the taller spine, minimizing their appearance from the ground.

Landscape Design and Open Space Design

- A total of 61 new trees are proposed to be planted on the development site, and include a mix of coniferous and deciduous species. Trees within the parking area are primarily deciduous to allow for clear sight lines, while conifers are primarily located in the larger landscaped areas where they can be clustered with other plantings.
- There are statutory rights-of-way for third party utilities along the north, west, and east property lines, which reduce opportunities for tree planting in these locations. As a result, the perimeter of the site is landscaped primarily with evergreen shrubs, flowering perennials, and ornamental grasses. The plantings are layered to provide seasonal variation and texture.
- Consistent with the OCP, a 3.0 m wide landscape buffer is provided along the south property line to screen and buffer the site from the Agricultural Land Reserve (ALR) across Highway 91. Continued maintenance of this buffer area will be secured through a legal agreement on Title.
- An enlarged landscaped area is provided at the terminus of the centre drive aisle.
- Parking spaces are broken up by landscaped bump-outs, which include shrubs and trees. Additional landscaping is provided at the corners of each building.
- Irrigation is provided for all soft landscape areas, including the landscaped bump-outs.
- Each building contains two green roof areas on the third storey, with a total planted area of 412 m² (4,436 ft²). The proposed green roof system will be planted with sedum mats.
- Defined pedestrian pathways lead from the Vanguard Road access to the main entry of each building. Additional pedestrian pathways are provided around the perimeter of the buildings.
- Permeable pavers are proposed at the entrance of the site, which will mark the transition from Vanguard Road into the site.
- No new fencing is proposed. There is an existing chain link fence separating the site from the railway to the west and Highway 91 to the south, which will be retained.
- The applicant is required to submit an acceptable security for landscaping in the amount of \$349,082, inclusive of a 10% contingency cost, prior to issuance of the Development Permit.

Tree Removal and Replacement

- One bylaw-sized tree on the subject site will be removed as it is located within the proposed building envelope. The OCP would require replacement at a 2:1 ratio.
- The landscape plans include 61 new on-site trees to be planted within the parking area, at the corners of each building, and along the southern perimeter of the site.
- Three bylaw-sized trees in the Highway 91 road right-of-way and one bylaw-sized tree in the rail right-of-way will not be impacted by the proposed development, and will be retained and protected.

Sustainability

- The buildings are designed to achieve ASHRAE 90.1-2010 energy standards, and the indoor and outdoor lighting will be 50% and 40% better than ASHRAE 90.1-2010, respectively.
- Solar panels will be installed on the flat roof forming the spine of each building, and will have an estimated power output of 40,000 kWh/year, which would meet the lighting and receptacle power demands of the buildings according to preliminary modelling by their consultant (Attachment 5). The system will be designed to qualify for the BC Hydro Net-Metering program, allowing excess electricity to be sold to BC Hydro for distribution on the larger electrical grid. Installation and maintenance of the agreed upon renewable energy system will be secured through a legal agreement on Title.
- Permeable pavers are proposed at the site entrance, along the west side of the site, and in various locations around the perimeter of both buildings in order to improve site drainage. Including the green roofs, permeable surfaces constitute approximately 21% of the site area.
- The applicant has agreed to provide Level 2 EV charging for 10% of the required vehicle parking spaces, i.e. 7 stalls. The provision and maintenance of the agreed upon vehicle charging infrastructure will be secured through a legal agreement on Title.

Crime Prevention Through Environmental Design

- The site has a single access point for vehicles and pedestrians. Marked pedestrian crossings are located away from the intersection to ensure clear sightlines.
- On-site lighting will be downward directed with full cut-off to avoid casting glare to the adjacent properties, Highway 91, and Shell Road. Lighting is predominantly building mounted, except for two pole mounted lights at the site entrance.
- There is an existing chain link fence located off-site, separating the site from the railway to the west and Highway 91 to the south. Landscaping around the perimeter of the site consists of taller shrubs in order to provide an additional barrier and screen headlight glare.
- Parking medians are landscaped with high-branching deciduous trees in order to preserve sightlines to and from parked vehicles.

Public Art

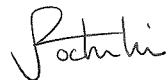
- The applicant has decided to provide a voluntary contribution to the City's Public Art Reserve in the amount of \$49,272 based on \$0.24 per buildable square foot. This contribution is consistent with the recommended Public Art contribution for applications received in 2018.

Site Servicing

- The applicant is required to enter into a Servicing Agreement for the design and construction of the required site servicing and off-site works described in Attachment 6, which include, but may not be limited to:
 - Watermain upgrades.
 - Cul-de-sac turning facility at the south end of Vanguard Road.

Conclusions

As the proposed development would meet applicable policies and Development Permit Guidelines, staff recommend that the Development Permit be endorsed, and issuance by Council be recommended.



Jordan Rockerbie
Planning Technician – Design
(604-276-4092)

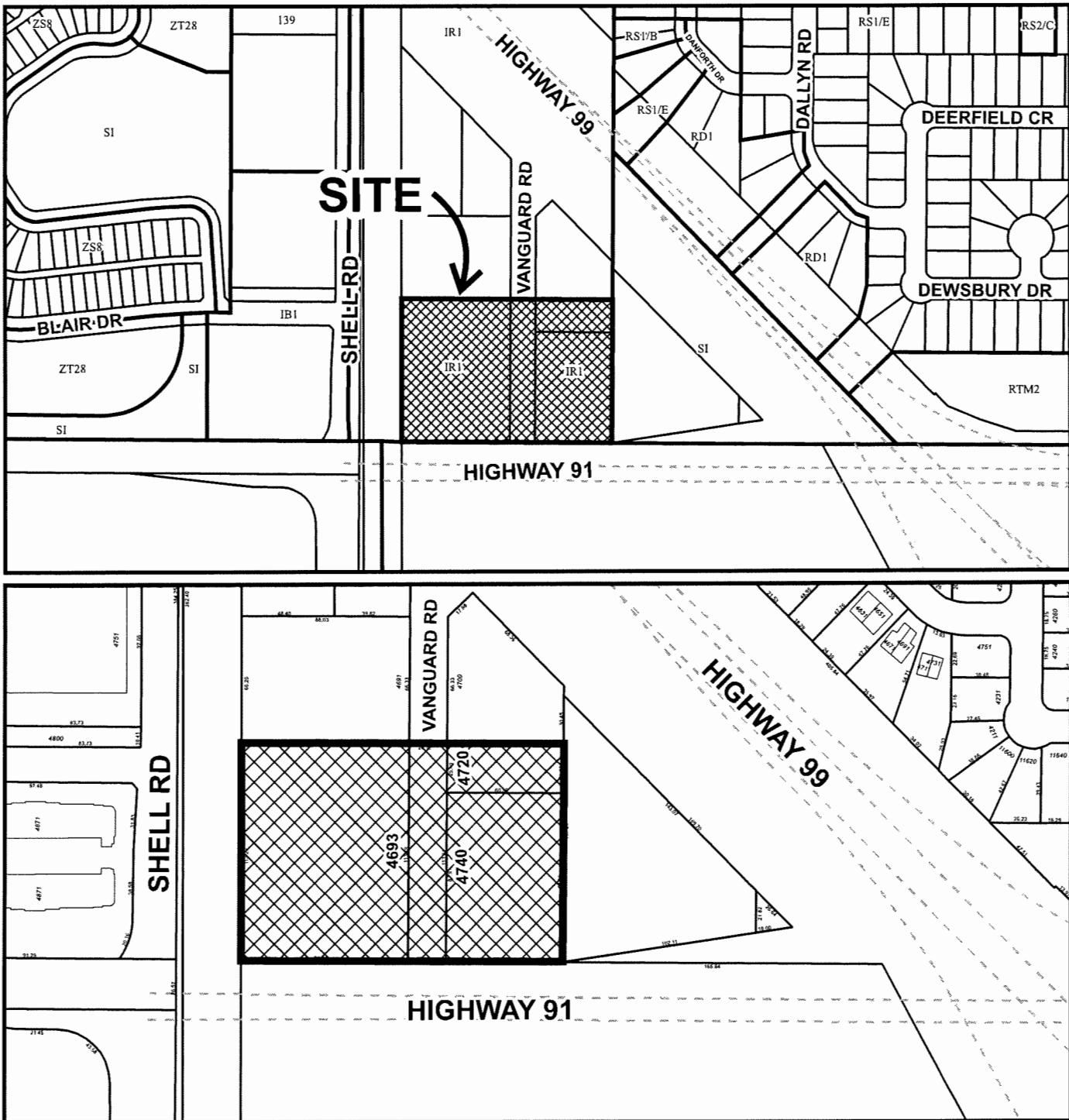
JR:blg

Attachments:

- Attachment 1: Location Map
- Attachment 2: Development Application Data Sheet
- Attachment 3: Excerpt from the Advisory Design Panel Minutes
- Attachment 4: Solar energy response letter
- Attachment 5: Development Permit Considerations



City of Richmond



DP 18-818671

Original Date: 04/27/18

Revision Date: 08/20/19

Note: Dimensions are in METRES



City of Richmond

Development Application Data Sheet

Development Applications Department

DP 18-818671

Attachment 2

Address: 4693, 4720, 4740 Vanguard Road and Road Parcel Richmond Key 20909

Applicant: Christopher Bozyk Architects Ltd. Owner: 4693 Vanguard Road Holdings Ltd., Inc. No. BC 1045695

Planning Area(s): East Cambie

Floor Area Gross: 28,275.01 m² Floor Area Net: 19,018.00 m²

	Existing	Proposed
Site Area:	19,073 m ²	No change
Land Uses:	Three industrial buildings	Two industrial buildings
OCP Designation:	Mixed Employment (MEMP)	No change
Zoning:	Industrial Retail (IR1)	No change

	Bylaw Requirement	Proposed	Variance
Floor Area Ratio:	1.0	1.0	None permitted
Lot Coverage:	Max. 60%	37%	None
Setback – North Front Yard:	Min. 3.0 m	24.3 m	None
Setback – West Side Yard:	Min. 3.0 m	19.8 m	None
Setback – East Side Yard:	Min. 0 m	19.5 m	None
Setback – South Rear Yard:	Min. 0 m	19.2 m	None
Height (m):	Max. 12 m	16.15 m	Vary by 4.15 m
Lot Size:	No Minimum	19,073 m ²	None
Total Off-street Spaces:	73	208 (107 small car spaces)	None
Off-street Parking Spaces – Accessible:	2	4	None
Loading Spaces:	Medium: 4 Large: 3	Medium: 12 Large: 3	None
Bicycle Spaces:	Class 1: 47 Class 2: 48	Class 1: 48 Class 2: 48	None

**Excerpt from the Minutes from
The Design Panel Meeting**

**Wednesday, December 5, 2018 – 4:00 p.m.
Rm. M.1.003
Richmond City Hall**

1. DP 18-818671 – APPARENT FOUR-STORY INDUSTRIAL RETAIL DEVELOPMENT

ARCHITECT: Christopher Bozyk Architects

LANDSCAPE ARCHITECT: KD Planning and Design

PROPERTY LOCATION: 4693, 4720 and 4740 Vanguard Road

Applicant's Presentation

Chantal Bobyn, Christopher Bozyk Architects, Ltd., and Shan Tennyson, Krahn-KD Planning and Design, presented the project, and together with Gordon Yeh and Michael Chiang, Alliance Partners, answered queries from the project on behalf of the applicant.

Panel Discussion

Comments from Panel members were as follows:

- potential uses of the development could be flexible; however, the architectural design does not reflect this intent; some details in the design are missing for uses other than storage such as for commercial and office spaces, e.g. roof enclosures for mechanical units and continuous band of louvers for ventilation; incorporating these details will impact the shape and form of the development;

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

An enclosure has been provided for the rooftop mechanical equipment.

- applicant is advised to confirm if vestibules are required for proposed storage use as per BC Building Code considering that provision of vestibules is required for office and retail uses;

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

No requirement for vestibule.

- agree with the preceding comments from the Panel; proposed number of parking spaces would pose a challenge for other uses of the two buildings other than storage, e.g. office and commercial uses;

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

- investigate opportunities for integrating louvers, opaque surfaces, or mesh screening on the building façade to reduce the potential for bird strikes into the proposed buildings;

We have reduced the amount of glazing by 38% by introducing concrete tilt wall panels. We believe this will help mitigate potential bird strikes.

- consider a strategy for screening of mechanical systems at this stage of the project if the proposed development will be utilized for uses other than a storage facility;

An enclosure has been provided for the rooftop mechanical equipment.

- consider designating planting areas on the corners of the buildings adjacent to the internal drive aisles that will not conflict with the drive aisles or alignment issues to provide a layering effect;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- investigate opportunities for incorporating an outdoor amenity area within the site to take advantage of the forested area on the east side and the Shell Road Trail on the west side of the site; the outdoor amenity area could be located on the edge of the west side of the site and designed to work with the Shell Road Trail to the west;

Pedestrian connection to the park is not feasible due to an active rail line.

- consider eliminating the parking stalls immediately at the southern end of Vanguard Road and incorporate a planting area with mature planting to provide a buffer/screening to the south side of the site;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- consider installing electric vehicle charging in the parking area;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- consider installing a built louvers screening system for the large “unit sub” facility located immediately to the west of the driveway entrance;

After further considerations, Unit Sub is now eliminated (replace by PMTs)

- consider installing permeable pavers on the vehicle entrance to the north of the two buildings to identify the main entrances to the site;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- consider a lighting strategy for outside of the buildings and for the parking area to address potential CPTED issues;

Yes, lighting will be provided to address

- appreciate the model and the applicant's presentation of the project;
- on-site landscaping appears thin; however, the site benefits from the existing greenery on all sides of the site;

See revised Landscape Plan.

- consider taking away a portion of the loading areas and parking stalls at the front of the two buildings to enhance the landscaping at the pedestrian entries to the site/building; landscaping should be given the same attention as the building architecture;

We believe the loading is best where located as it is close to entry and not requiring to circulate through the site. The unit sub is now eliminated so there will be some greenery gained.

- grasses on existing groundcovers are a step in the right direction as they require little maintenance; however, consider adding low groundcovers; ornamental grasses can grow taller and provide seasonal variation;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- consider enhancing the landscaping around the “sub-unit” facility to provide more adequate screening;

After further considerations, Unit Sub is now eliminated (replace by PMTs)

- an outdoor amenity area within the site may not be necessary if there is strong connection to the existing greenery surrounding the site; a pedestrian connection could cut through the Shell Road Trail and across Blair Drive;

Pedestrian connection to the park is not feasible due to an active rail line.

- proposed form and character of the two buildings could function well as a storage facility; massing has been broken down and provides a nice variety; exterior corridors work well;
- exterior glazed massing could be broken up to reduce the potential for bird strikes into the buildings;

We believe bird strike won't be an issue with the proposed buildings. We have reduced the amount of glazing by 38% by introducing concrete tilt wall panels. We believe this will help mitigate potential bird strikes.

- there is a significant amount of hardscape in the project which could give rise to heat island effect and pose potential challenges to stormwater management; investigate opportunities for stormwater capture on the building roofs for irrigation and other uses; the applicant is also encouraged to provide more green spaces on-site which may require removing some parking stalls;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- consider removing some of the parking stalls immediately adjacent to the building and incorporating an outdoor amenity area on the south side of the site;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- pedestrian entry points off Vanguard Road would appear underwhelming if the proposed buildings will also be used for office spaces; note the limited amount of landscaping and weather protection and lack of identity of entry points; proposed building design and landscaping are appropriate for a storage facility and not for office spaces;

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

After further considerations, Unit Sub is now eliminated (replace by PMTs)

- appreciate the daylit exterior stairs on the corners of the two buildings; applicant is encouraged to bring down the natural light all the way down to the ground floor;
- proposed materials for building exterior work well together; internal lay-out of the building is appropriate for industrial warehouse use and would pose some challenges for other uses;

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

Retail accessible from exterior at ground floor only.

- staff is advised that an accurate aerial map would be helpful to the Panel to better understand the project site and its context;
- “sub-unit” facility could be relocated either to the northeast or northwest corner of the site; however, if relocation is not possible, consider screening with a hard structure which complements with the design of the building;

After further considerations, Unit Sub is now eliminated (replace by PMTs)

- pedestrian pathway goes right through the “sub-unit” facility;

After further considerations, Unit Sub is now eliminated (replace by PMTs)

- applicant needs to give careful thought regarding the screening of rooftop mechanical equipment if the two buildings will be used for a complex mix of uses in addition to storage given the prominent location and high visibility of the buildings;

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

An enclosure has been provided for the rooftop mechanical equipment.

- support the Panel comment to incorporate an outdoor amenity area on-site in view of the potential for a mix of building uses; applicant could use some of the parking spaces; pedestrian connection to the park is not feasible due to an active rail line;

Addressing – Revised Site plan and Landscape plan to follow. See updated Site Plan & Landscape Plan Resubmitted.

- consider introducing an outdoor amenity area on the building rooftop; would have great views to the north and would receive adequate sun exposure;

See Solar Report provided and updated Roof Plan.

- lots of horizontal lines breaking up the two buildings may reduce the potential for bird strikes; consider getting advice from an ornithologist;

We believe bird strike won't be an issue with these buildings. We have reduced the amount of glazing by 38% by introducing concrete tilt wall panels. We believe this will help mitigate potential bird strikes.

- consider more lighting for the site in view of the potential mix of uses for the buildings;

See Lighting specs provided.

- support the Panel comment that the applicant could take advantage of, or provide interface with, the existing greenery around the site for landscaping of the site; and
- the applicant is advised that other potential uses for the proposed development, e.g. daycare, may not be feasible due to lack of accessibility features.

Primary and major use to be light industrial (light storage) with minor showroom/retail use on ground floor. No major commercial/office use.

Panel Decision

It was moved and seconded

That DP 18-818671 be supported to move forward to the Development Permit Panel subject to the applicant giving consideration to the comments of the Advisory Design Panel.

CARRIED

Opposed: Tom Parker and Jubin Jalili



ATTACHMENT 4

969G Laval Crescent
Kamloops, BC, V2C 5P4

Nov 7, 2019

Mr. Gordon Yeh
Alliance Partners
#100 – 88 W 8th Ave,
Vancouver, BC, V5Y 1M7

Dear Gordon,

At MAKE Projects request, we have reviewed the implications of a 40kWp grid connected solar PV system for each of Building A and B for your project at 4720 and 4740 Vanguard Road in Richmond, BC.

Key considerations for successfully integrating 40 kWp solar systems into your project include:

1. **Expected Energy Production:**

Properly designed and installed these solar PV systems will produce about 40,000 kWh per year for each building. This would offset 100% of the Building Basic House Loads (lighting and receptacles) consumption of 39,420 kWh per year estimated by your design team.

2. **Electrical Considerations:**

- Electrical House panels A6HDP and B6HDP (600/347V-3P) are suitably sized to be the points-of-connection to the grid for each PV system and require only dedicated circuit breakers and suitably sized transformers for this purpose.
- Alternately, 208/120V-3P panels A2H2 and B2H2 could be used if their bus and associated transformer capacities were increased.
- Lockable disconnection means is required for each system; preferably nearby the point-of-connection to the grid.
- Suitably sized, electrical conduits or cables between electrical room points-of-connection to the grid and rooftop array locations should be specified and installed during construction in advance of solar PV installation.
- Rooftop cable penetrations, array cabling raceway requirements, and routing should be planned well in advance of the solar PV installation.

3. **Structural Considerations:**

- We recommend ballasted solar PV racking systems to avoid racking attachment penetrations of the roof membrane.
- Solar PV installation proponents will provide a stamped engineered ballasting plan assuring racking designs meet site wind and seismic design loads. Subsequently, the project structural engineer of record must assure the building can manage the additional loading. Ballasted PV system array dead loads in the order of 6-11 PSF are not uncommon depending on site design conditions.



4. **Mechanical Considerations:**

- 40 kWp arrays will require approximately 3800-4000 ft² carefully designated in advance for this purpose on each building rooftop.
- Placing vents, exhaust stacks, fall arrest anchors, rooftop units, or other equipment which could impede the placement of solar racking and modules must be avoided in these designated array areas

We are available to advise your design team in detail to ensure the building designs are ready for seamless incorporation of 40 kWp PV systems under the BC Hydro Net-Metering program.

We hope you will find this guidance helpful and look forward to answering any questions you might have.

Sincerely;

A handwritten signature in black ink that reads "Ben Giudici". The signature is fluid and cursive, with a large, stylized "B" at the beginning.

Ben Giudici, P.Eng
Director – Riverside Energy Systems



**City of
Richmond**

Development Permit Considerations
Development Applications Department
6911 No. 3 Road, Richmond, BC V6Y 2C1

Address: 4693, 4720, and 4740 Vanguard Road

File No.: DP 18-818671

Prior to issuance of the Development Permit, the developer is required to complete the following:

1. Consolidation of the properties into a single lot (which will require the demolition of the existing buildings).
2. Installation of appropriate tree protection fencing around all trees to be retained as part of the development prior to any construction activities, including building demolition, occurring on-site.
3. Submission of a cash security or Letter-of-Credit for landscaping in the amount of \$349,082 inclusive of a 10% contingency cost (as per the landscape cost estimate provided by KD Planning & Design Ltd. on November 7, 2019).
4. City acceptance of the developer's offer to voluntarily contribute \$0.24 per buildable square foot (i.e. \$49,272) to the City's public art fund.
5. Registration of an Aircraft Noise covenant on Title (Area 1A).
6. Registration of a Flood Indemnity covenant on Title (2.9 m GSC - Area A).
7. Registration of an Agricultural Land Reserve (ALR) Buffer Area covenant on Title to identify the 3.0 m wide landscaped buffer area along the south property line and to ensure that landscaping planted within the buffer is maintained and will not be abandoned or removed. The legal agreement is also to indicate that the property is potentially subject to impacts of noise, dust, and odour resulting from agricultural operations.
8. Registration of an Electric Vehicle (EV) Charging Infrastructure covenant on Title, securing the owner's commitment to voluntarily provide, install, and maintain EV charging equipment for the use of the commercial tenants and others as determined to the satisfaction of the City through an approved Development Permit. More specifically, a minimum of 10% of the required parking spaces must be provided with Level 2 EV charging (ex. 7 spaces for the proposed development).
9. Registration of an agreement on Title ensuring that the proposed solar panels will be installed to the satisfaction of the Director of Building Approvals, maintained for the life of the building and will not be removed without City approval. The agreement will include provisions for alternative renewable technologies to replace the solar panel installations provided that equal or better performance is achievable to the satisfaction of the Director of Development and the Director of Building Approvals.
10. Registration of a legal agreement on Title identifying that the property is located in an industrial area and that use of the property must be consistent with the Zoning Bylaw, and requiring that the owner provide an acknowledgement of the same in all purchase and sale agreements.

11. Granting of a Statutory Right-of-Way for Public Rights-of-Passage across the driveway from Vanguard Road and a portion of the drive aisle, in order to accommodate vehicle maneuvering on site.
12. Enter into a Servicing Agreement* for the design and construction of site servicing and off-site works. A Letter of Credit or cash security for the value of the Service Agreement works, as determined by the City, will be required as part of entering into the Servicing Agreement. Works include, but may not be limited to:

Water Works:

- a) Using the OCP Model, there is 146 L/s of water available at a 20 psi residual at the Vanguard Road frontage. Based on your proposed development, your site requires a minimum fire flow of 250 L/s.
- b) Prior to the DP staff report being written, the Developer is required to coordinate with Richmond Fire Rescue to confirm whether fire hydrants are required along the proposed development's lane frontage. If required by RFR, the necessary water main and hydrant installations shall be reviewed by Engineering and added to the servicing agreement scope.
- c) At Developer's cost, the Developer is required to:
 - i) Submit Fire Underwriter Survey (FUS) or International Organization for Standardization (ISO) fire flow calculations to confirm development has adequate fire flow for onsite fire protection. Calculations must be signed and sealed by a Professional Engineer and be based on Building Permit Stage building designs.
 - ii) Review hydrant spacing on all road frontages and install new fire hydrants as required to meet City spacing requirements for the proposed land use.
 - iii) Provide right-of-ways for the water meters. Minimum right-of-way dimensions to be the size of the meter box (from the City of Richmond supplementary specifications) + any appurtenances Exact right-of-way dimensions to be finalized via the servicing agreement process.
 - iv) To address the issue of insufficient fire flow according to the OCP model, the developer has two options:
 - (1) Upgrade approximately 400m of the existing 200mm AC water main to 300mm PVC water main, within Vanguard road, from the north property line to Highway 99.
-OR-
 - (2) Loop the water system to Blair Drive, by installing approximately 150m of new 200mm PVC water main. Installing the new water main will require the registration of a 6m wide SRW within the development site extending approximately 90m west of Vanguard Road. In addition to the 6m wide SRW required onsite, the water main will have to pass through the railway right of way and the developer is required to acquire written permission from the Canadian National Railway to complete these works. In addition to the installation of the new water main, the developer must replace any sections of the water main within Vanguard Road which may be impacted by the lane works at the developer's costs.
 - v) Depending on which option the developer chooses to proceed with, at the developer's cost, the City will either:
 - (1) Cut and cap the existing water service connections at main;
Remove the existing blow-off then cut and cap the existing main at the property line;
Provide a 200mm line valve just north of the property line; and

Remove the cap then connect the on-site water system to the main at the property line
-OR-

(2) Cut and cap the existing water service connections at main;

Remove the existing blow-off then cut and cap the existing main at the property line; and
Provide new water service connections off of the new water mains within the 6m right of way.

Storm Sewer Works:

- d) At Developer's cost, the Developer is required to:
 - i) Provide an erosion and sediment control plan for all on-site and off-site works, to be reviewed as part of the servicing agreement design.
 - ii) Extend the existing 450mm diameter storm sewer complete with a manhole and stub with cap at the property line.

Sanitary Sewer Works: Existing sanitary sewer connection to be retained.

Frontage Improvements:

- e) At Developer's cost, the Developer is required to:
 - i) Coordinate with BC Hydro, Telus and other private communication service providers:
 - (1) To pre-duct for future hydro, telephone and cable utilities along all road frontages.
 - ii) Review street lighting levels along all road and lane frontages, and upgrade as required, should lighting be required along Vanguard Road, an LPT may be required.
 - iii) Locate/relocate all above ground utility cabinets and kiosks required to service the proposed development, and all above ground utility cabinets and kiosks located along the development's frontages, within the developments site (see list below for examples). A functional plan showing conceptual locations for such infrastructure shall be included in the development design review process. Please coordinate with the respective private utility companies and the project's lighting and traffic signal consultants to confirm the requirements (e.g., statutory right-of-way dimensions) and the locations for the aboveground structures. If a private utility company does not require an aboveground structure, that company shall confirm this via a letter to be submitted to the City. The following are examples of statutory right-of-ways that shall be shown on the architectural plans/functional plan, the servicing agreement drawings, and registered prior to SA design approval:
 - BC Hydro PMT – 4.0 x 5.0 m
 - BC Hydro LPT – 3.5 x 3.5 m
 - Street light kiosk – 1.5 x 1.5 m
 - Traffic signal kiosk – 2.0 x 1.5 m
 - Traffic signal UPS – 1.0 x 1.0 m
 - Shaw cable kiosk – 1.0 x 1.0 m
 - Telus FDH cabinet – 1.1 x 1.0 m
 - iv) Complete other frontage improvements as per Transportation requirements:
 - (1) Provide a vehicle turn-around facility at the south end of vanguard Road to allow the public to turn around without entering the subject site. The facility should:
 - (a) Be designed to accommodate the U-turning of a regular-size passenger vehicle in a continuous movement;
 - (b) Have a minimum design radius of 7.3 m;
 - (c) Include barrier curb along the edge; and
 - (d) Include any additional requirements identified by RFR or Environmental Services.

General Items:

- f) At Developer's cost, the Developer is required to:
 - i) As per GeoPacific's recommendations the developer is to conduct monitoring of settlements, using survey points spaced every 20 meters along their west property line, as this relates to impact to the railway.
 - ii) Submit a proposed strategy at the building permit stage for managing excavation de-watering. Note that the City's preference is to manage construction water onsite or by removing and disposing at an appropriate facility. If this is not feasible due to volume of de-watering, the Developer will be required to apply to Metro Vancouver for a permit to discharge into the sanitary sewer system. If the sanitary sewer does not have adequate capacity to receive the volume of construction water, the Developer will be required to enter into a de-watering agreement with the City to discharge treated construction water to the storm sewer system.
 - iii) Not encroach into City rights-of-ways with any proposed trees, retaining walls, or other non-removable structures. Retaining walls proposed to encroach into rights-of-ways must be reviewed by the City's Engineering Department.
 - iv) Enter into, if required, additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering, including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering, drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.

Prior to Building Permit* issuance, the developer is required to complete the following:

1. The applicant is required to obtain a Building Permit for any construction hoarding associated with the proposed development. If construction hoarding is required to temporarily occupy a street, or any part thereof, or occupy the air space above a street or any part thereof, additional City approvals and associated fees may be required as part of the Building Permit. *For further information on the Building Permit, please contact Building Approvals Department at 604-276-4285.*
2. Submission of a Construction Parking and Traffic Management Plan to the Transportation Department. Management Plan shall include location for parking for services, deliveries, workers, loading, application for any lane closures, and proper construction traffic controls as per Traffic Control Manual for works on Roadways (by Ministry of Transportation) and MMCD Traffic Regulation Section 01570.

Note:

- Where the Director of Development deems appropriate, the preceding agreements are to be drawn not only as personal covenants of the property owner but also as covenants pursuant to Section 219 of the Land Title Act. All agreements to be registered in the Land Title Office shall have priority over all such liens, charges and encumbrances as is considered advisable by the Director of Development. All agreements to be registered in the Land Title Office shall, unless the Director of Development determines otherwise, be fully registered in the Land Title Office prior to enactment of the appropriate bylaw.
The preceding agreements shall provide security to the City including indemnities, warranties, equitable/rent charges, letters of credit and withholding permits, as deemed necessary or advisable by the Director of Development. All agreements shall be in a form and content satisfactory to the Director of Development.
- Additional legal agreements, as determined via the subject development's Servicing Agreement(s) and/or Development Permit(s), and/or Building Permit(s) to the satisfaction of the Director of Engineering may be required including, but not limited to, site investigation, testing, monitoring, site preparation, de-watering,

drilling, underpinning, anchoring, shoring, piling, pre-loading, ground densification or other activities that may result in settlement, displacement, subsidence, damage or nuisance to City and private utility infrastructure.

- Applicants for all City Permits are required to comply at all times with the conditions of the Provincial *Wildlife Act* and Federal *Migratory Birds Convention Act*, which contains prohibitions on the removal or disturbance of both birds and their nests. Issuance of Municipal permits does not give an individual authority to contravene these legislations. The City of Richmond recommends that where significant trees or vegetation exists on site, the services of a Qualified Environmental Professional (QEP) be secured to perform a survey and ensure that development activities are in compliance with all relevant legislation.

Signed

Date



City of Richmond

Development Permit

No. DP 18-818671

To the Holder: CHRISTOPHER BOZYK ARCHITECTS LTD.

Property Address: 4693, 4720, 4740 VANGUARD ROAD AND
ROAD PARCEL RICHMOND KEY 20909

Address: C/O SUITE 414 – 611 ALEXANDER STREET
VANCOUVER, BC V6A 1E1

1. This Development Permit is issued subject to compliance with all of the Bylaws of the City applicable thereto, except as specifically varied or supplemented by this Permit.
2. This Development Permit applies to and only to those lands shown cross-hatched on the attached Schedule "A" and any and all buildings, structures and other development thereon.
3. The "Richmond Zoning Bylaw 8500" is hereby varied to:
 - a. Increase the maximum height for buildings from 12.0 m to 16.15 m; and
 - b. Reduce the minimum vehicle manoeuvering aisle width from 7.5 m to 6.7 m.
4. Subject to Section 692 of the Local Government Act, R.S.B.C.: buildings and structures; off-street parking and loading facilities; roads and parking areas; and landscaping and screening shall be constructed generally in accordance with Plans DP 18-818671-1 through DP 18-818671-17 attached hereto.
5. Sanitary sewers, water, drainage, highways, street lighting, underground wiring, and sidewalks, shall be provided as required.
6. As a condition of the issuance of this Permit, the City is holding the security in the amount of \$349,082 to ensure that development is carried out in accordance with the terms and conditions of this Permit. Should any interest be earned upon the security, it shall accrue to the Holder if the security is returned. The condition of the posting of the security is that should the Holder fail to carry out the development hereby authorized, according to the terms and conditions of this Permit within the time provided, the City may use the security to carry out the work by its servants, agents or contractors, and any surplus shall be paid over to the Holder. Should the Holder carry out the development permitted by this permit within the time set out herein, the security shall be returned to the Holder. The City may retain the security for up to one year after inspection of the completed landscaping in order to ensure that plant material has survived.
7. If the Holder does not commence the construction permitted by this Permit within 24 months of the date of this Permit, this Permit shall lapse and the security shall be returned in full.

Development Permit
No. DP 18-818671

To the Holder: CHRISTOPHER BOZYK ARCHITECTS LTD.

Property Address: 4693, 4720, 4740 VANGUARD ROAD AND
ROAD PARCEL RICHMOND KEY 20909

Address: C/O SUITE 414 – 611 ALEXANDER STREET
VANCOUVER, BC V6A 1E1

8. The land described herein shall be developed generally in accordance with the terms and conditions and provisions of this Permit and any plans and specifications attached to this Permit which shall form a part hereof.

This Permit is not a Building Permit.

AUTHORIZING RESOLUTION NO.
DAY OF , .

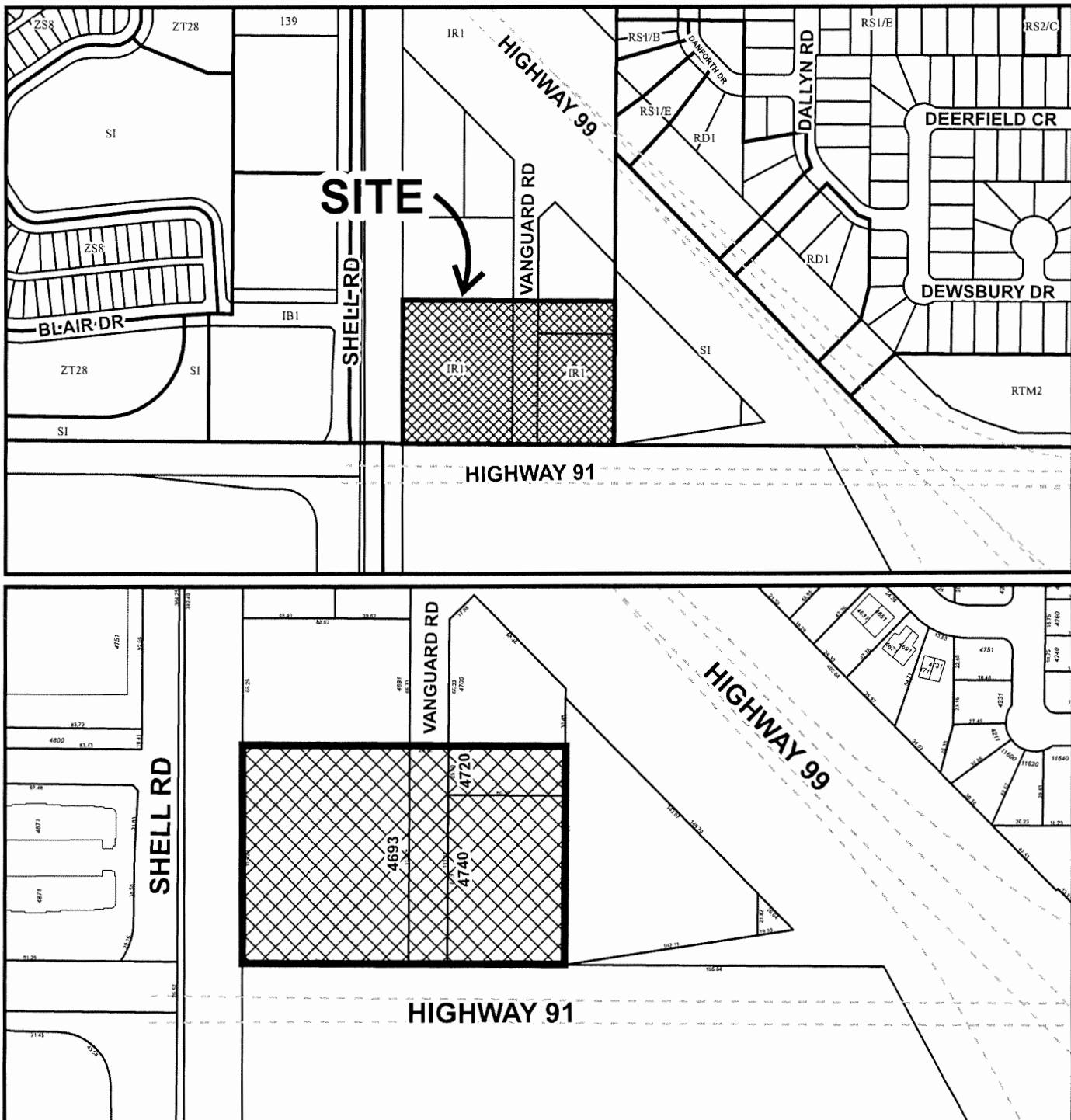
ISSUED BY THE COUNCIL THE

DELIVERED THIS DAY OF , .

MAYOR



City of Richmond



**DP 18-818671
SCHEDULE "A"**

Original Date: 04/27/18

Revision Date: 08/20/19

Note: Dimensions are in METRES



4720 + 4740 VANGUARD ROAD, RICHMOND BC

PROJECT STATISTICS

TEAM HST

DRAWING LIST

08	01/05/2019	ISSUED FOR COORDINATION
07	03/19/2019	ISSUED FOR ADP RESPONSE TO COMMENTS

KEY INFORMATION		AREA SUMMARY		STATISTICS	
CIVIC ADDRESS:	4833, #270, 4700 YANGLIARD ROAD	SITE COVERAGE:		TOTAL GROSS FLOOR AREA:	
LEGAL DESCRIPTION:	LOTS 24A, 24B, 24C AND 24F; ALL OF SECTION 36, BLOCK 5, TOWNSHIP 8 WEST, NYC, PLAT 5626	HEIGHT: "VARIANCE SETBACKS"		Front	
ZONE:	BC-2	LEVEL TWO:		Exterior side yard	
BUILDING BY LAW:	BUILDING THREE, MECHANICAL, RETAIL,	LEVEL THREE:		Rear	
ENERGY STANDARD CODE:	RET-MAND	LEVEL THREE MEZZANINE:	12' 19" SF / 11'13" SHM	Interior side yard	
CODE COMPLIANCE PATH:	ASHRAE 90.1 + 2016 PREScriptive	TOTAL BUILDING A:	115'51" SF / 9732 SHM	HC stalls	
		BUILDING B		TOTAL:	
		LEVEL ONE:	31' 08" SF / 257' L	LOADING	
		LEVEL TWO:	31' 08" SF / 1729 SF	medium	
		LEVEL THREE:	28' 86" SF / 2030 SF	large	
		LEVEL THREE MEZZANINE:	9' 65" SF / 87' SHM		
		TOTAL BUILDING B:	89' 20" SF / 8208 SHM		
		TOTAL BUILDING A+B:	204' 81" SF / 17932 SHM		
		SITE AREA:	205' 20" SF / 19' 07" SHM		
		BUILDING SUPPORT:	74' 86" SF / 6' 95" SHM (37%)		
USE	WAREHOUSE	FAR PROVIDED:			
OCCUPANCY	F2	FAR PROVIDED:			
BUILDING HEIGHT (STORIES)	3	FAR PROVIDED:			
STREETS FACED	2	FAR PROVIDED:			
SPRINKLERED	YES	FAR PROVIDED:			
CONSTRUCTION ARTICLE	32'2.73'	FAR PROVIDED:			
TYPE OF CONSTRUCTION	NONCOMBUSTIBLE	FAR PROVIDED:			
FLAME ASSEMBLY FAR:	11	FAR PROVIDED:			
UNOCCUPIED ROOF F.A.R.	0h	FAR PROVIDED:			
LOADBEARING F.A.R.		FAR PROVIDED:			
		NOT LESS THAN THAT REQUIRED FOR THE SUPPORTED ASSEMBLY			
		F.A.B.			
		FIRE SEPARATION REQUIREMENTS			
		EAT FACILITIES: LOCATED AT THE ENTRY TESTIBULE			
		PROVIDED NEAR EVERY EXTENTIVE			
		HEAT DETECTION SYSTEM: PROVIDED BY FLOOR AREA SPRINKLER SYSTEM			
		ELECTRICAL EQUIPMENT ROOM (UNSPRINKLERED PER NFPA13) PROVIDED BY ELEC. PROVIDER			
		ELECTRICAL EQUIPMENT ROOM (PER 8.6.2.16) PROVIDED BY ELEC. PROVIDED			
		FIRE ALARM & DETECTION SYSTEMS: PROVIDED BY ELEC. PROVIDED			
		MANUAL PULL STATIONS: PROVIDED BY ELEC.			
		HEAT DETECTION: PROVIDED BY ELEC.			
		SMOKE DETECTION: PROVIDED BY ELEC.			
		VISUAL SIGNAL DEVICES: PROVIDED (SEE ELEC.)			
		STANDBY AND HOST SYSTEMS: PROVIDED			
		FREE DEPARTMENT CONNECTIONS: PROVIDED			
		EMERGENCY POWER AND LIGHTING: PROVIDED (SEE ELEC.)			
P 18-818671-1					

**COVER + PROJECT
STATISTICS**

SCALE As indicated DATE DEC 5, 2018 DRAWN-AUTHOR
PHOTO FROM AIR FORCE 2147017

A000

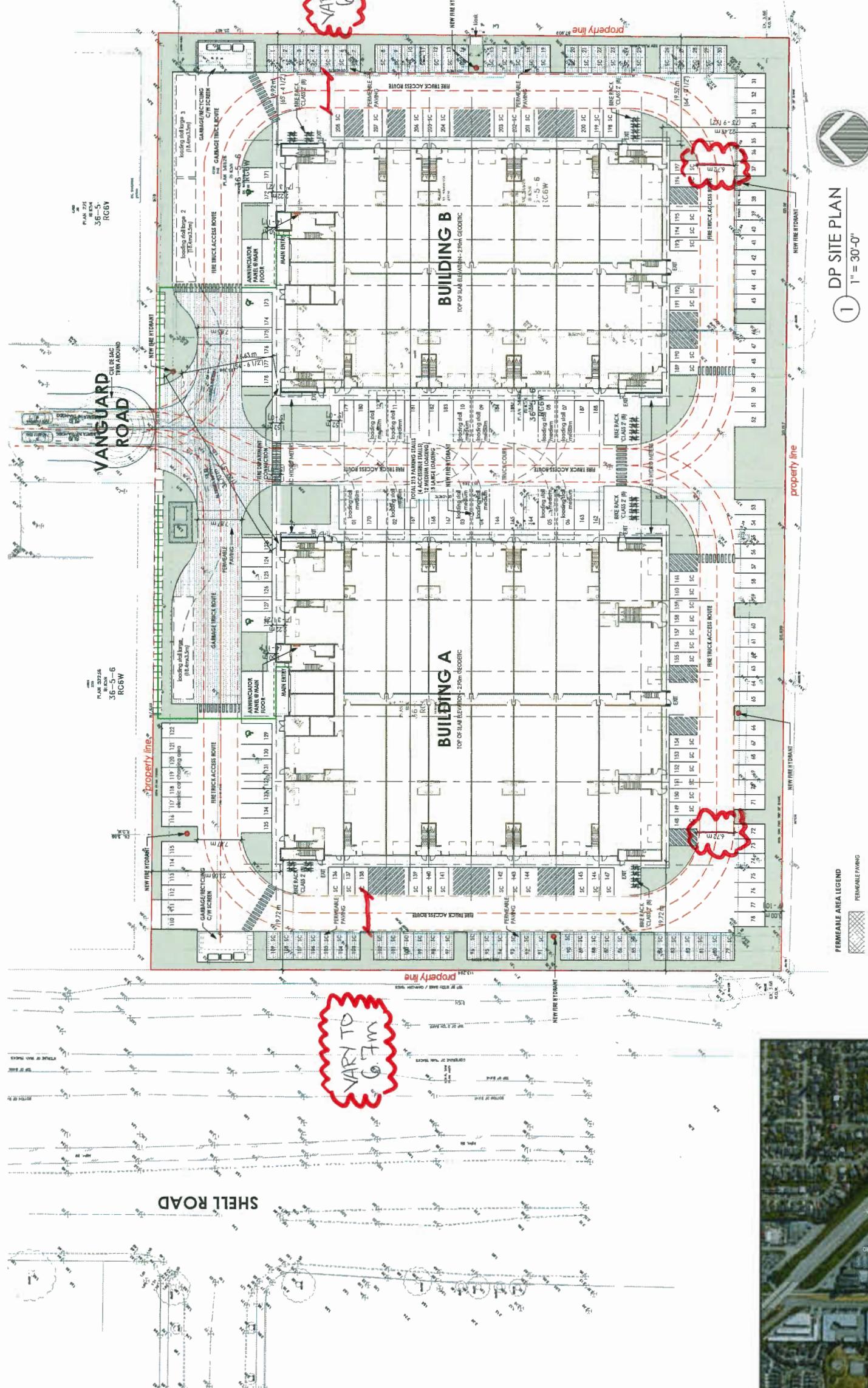
CHRISTOPHER
BOZYK ARCHITECTS

414-611 ALEXANDER STREET VANCOUVER BC V6A 1E1
PHONE (604) 251-3440 FAX (604) 251-3848

NOTE: ALL EXTERIOR LIGHTS TO BE FULL CUT-OFF WITH MAXIMUM 3 FOOT CANDLES AT THE PROPERTY LINE AS PER ELECTRICAL PERMEABLE AREA CALCULATION
LANDSCAPE AREA
PERMEABLE PAVING AREA
TOTAL AREA

NOTE:

LINE CUT-OFF WITH MAXIMUM
PARTY LINE, AS PER ELECTRICAL
JULY 25TH, 2019.



**SITE PLAN + FIRE ACCESS
PLAN**

**4720 + 4740 VANGUARD RD
RICHMOND, BC**

SCALE As indicated DATE: DEC 5, 2018
PROJECT NUMBER _____ DRAWN/AUTHOR _____
217017

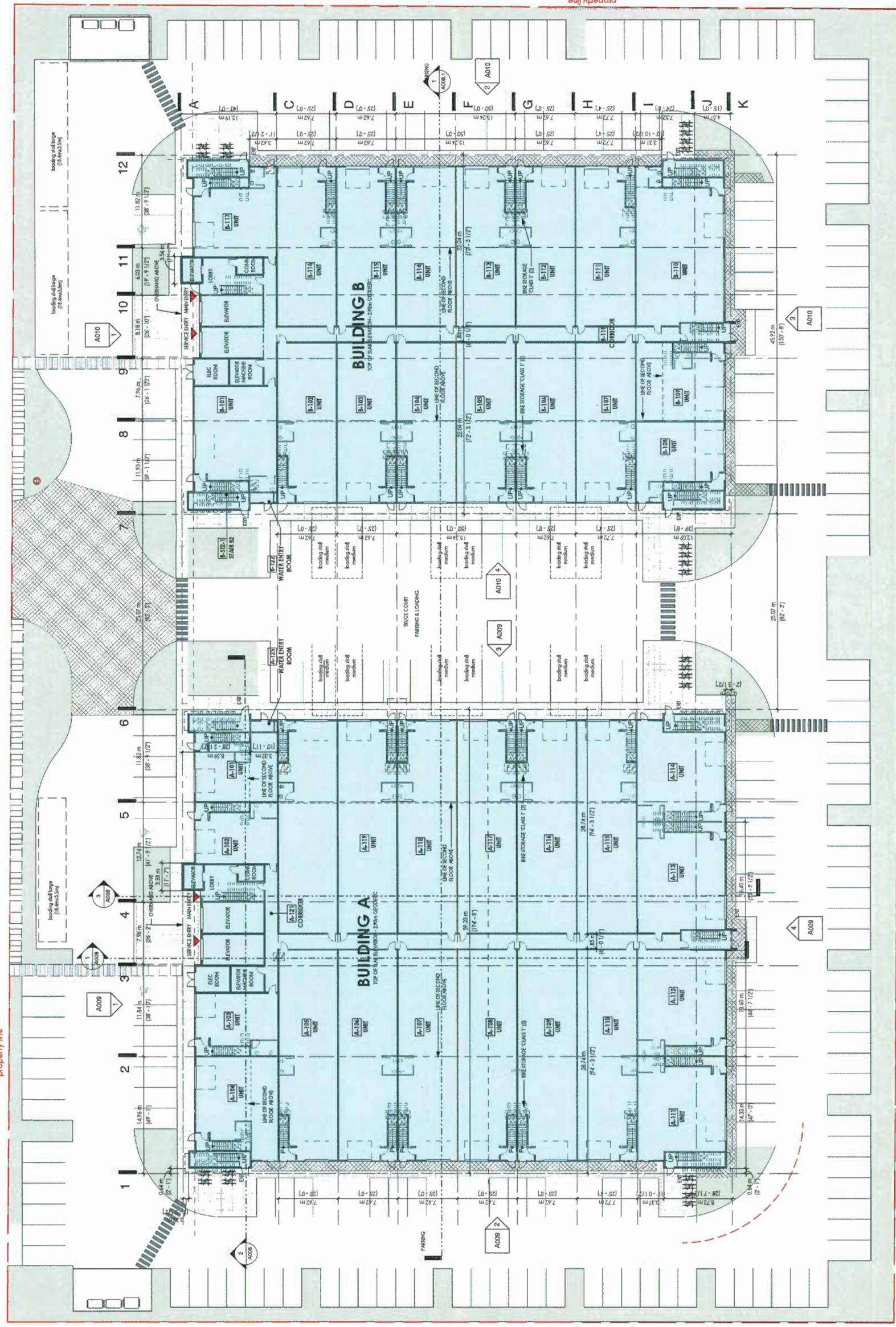
18-8 ② 8 8 KEY LAN - 2

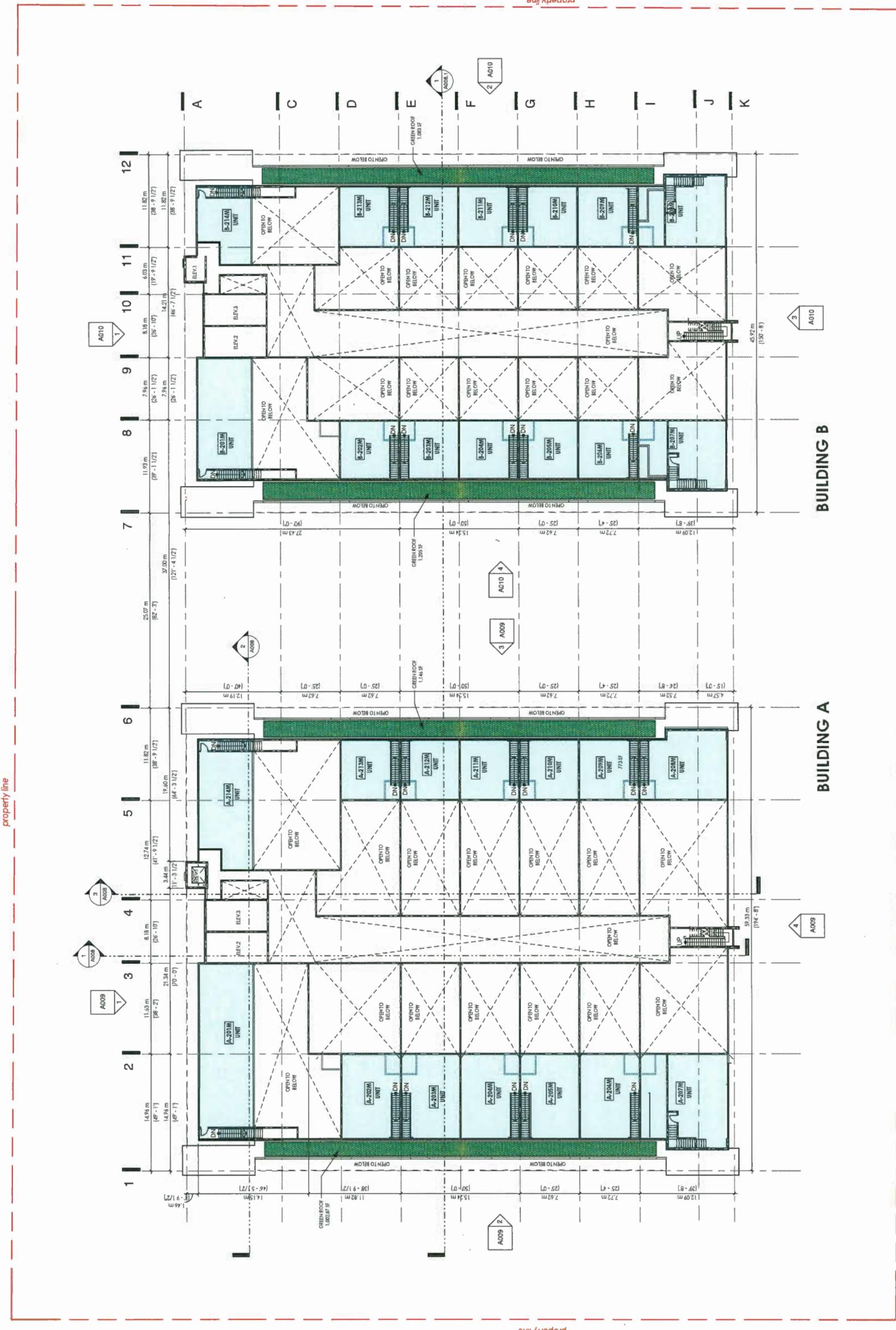
9

A001

FILE PATH: C:\Users\Kris\OneDrive\JAKE_CURRENTS\JANUARY\PHOTO DATE: 11/02/2019 08:51 AM

VANGUARD
ROAD





DP 18-818671-6

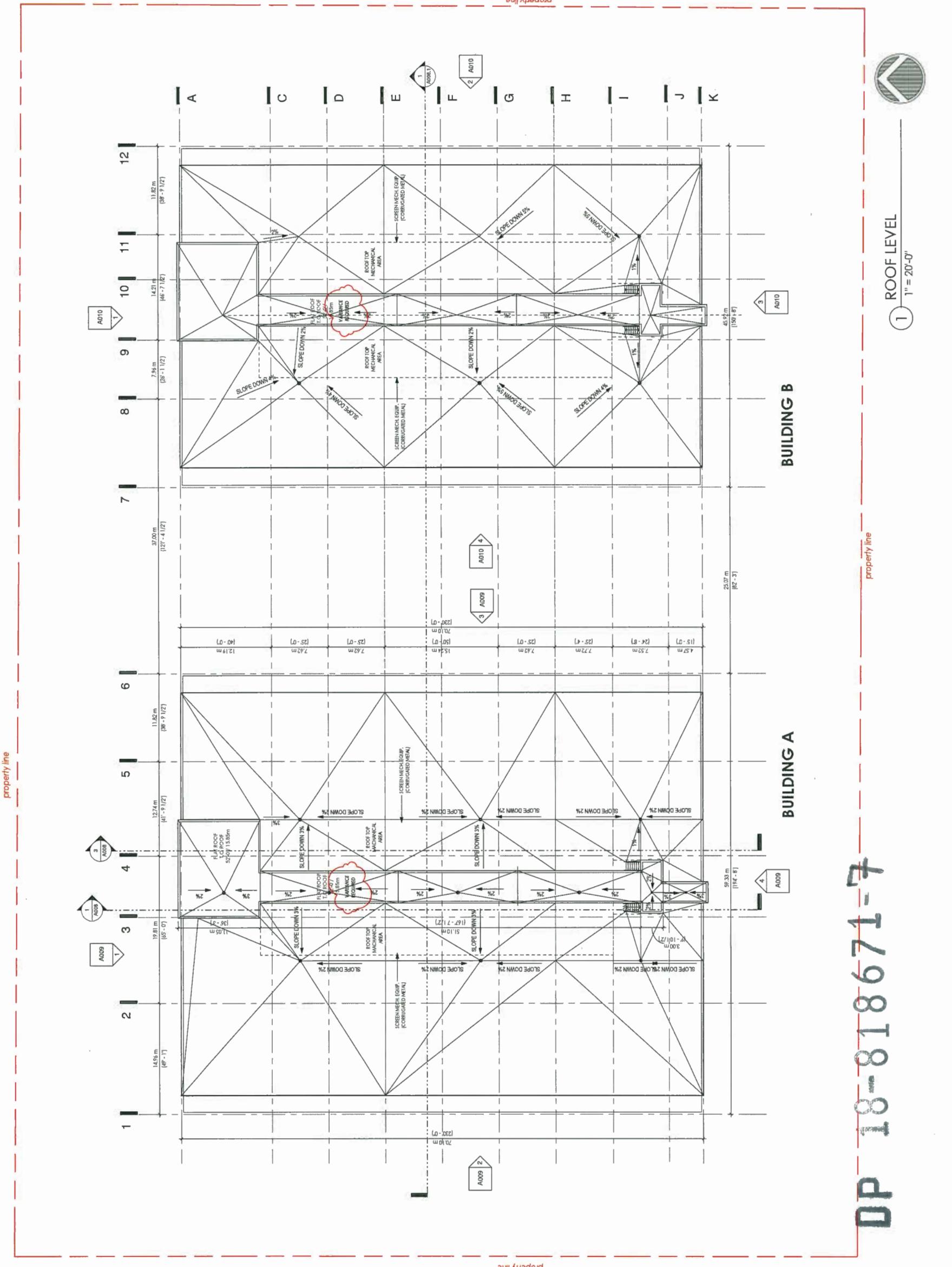
四

PROJECT NUMBER _____ 217017

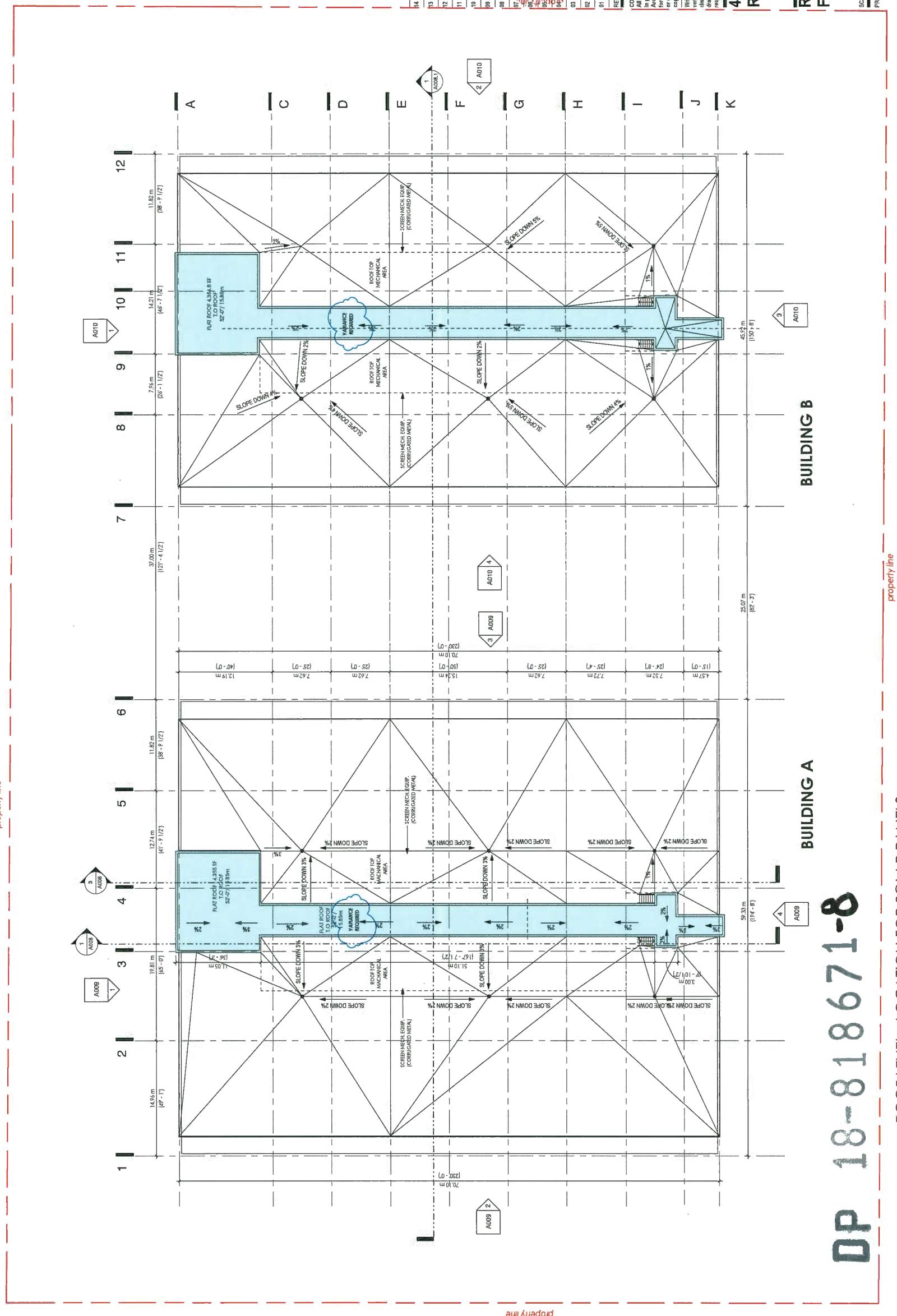
הנִזְקָנָה בְּבֵית־הַמִּלְחָמָה

A006

FILE PATH: C:\Users\Review\Documents\ALLIANCE_CURRENTS\RECOMMENDATION DATE: 1/16/2018 8:59:48



property line



DP 18-818671-8

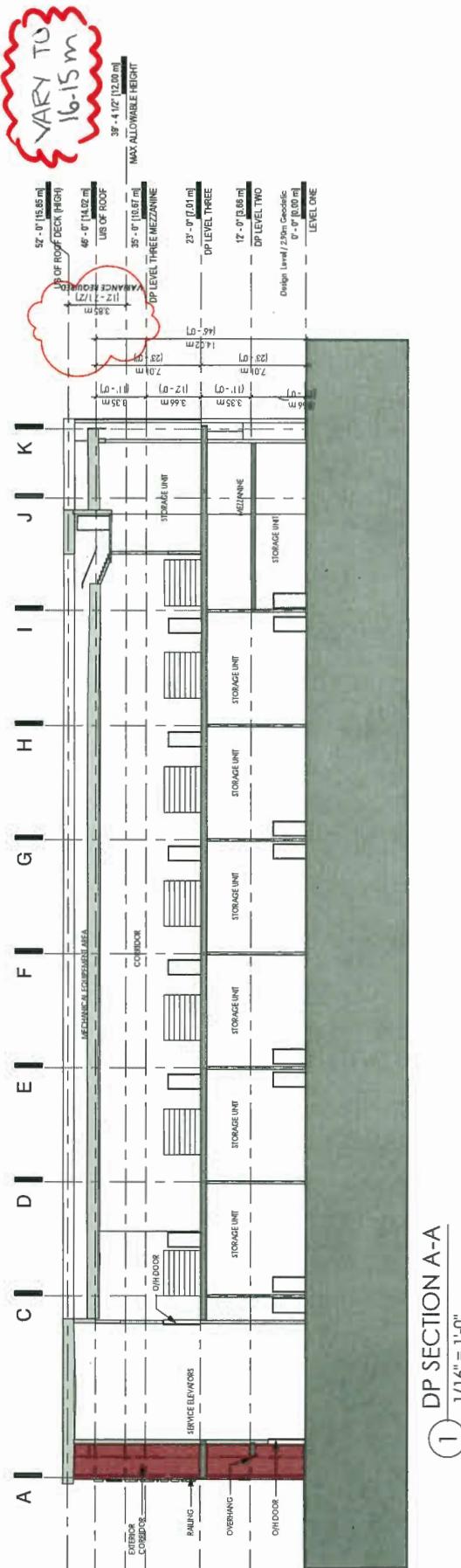
ROOF LEVEL - LOCATION FOR SOLAR PANELS

property line

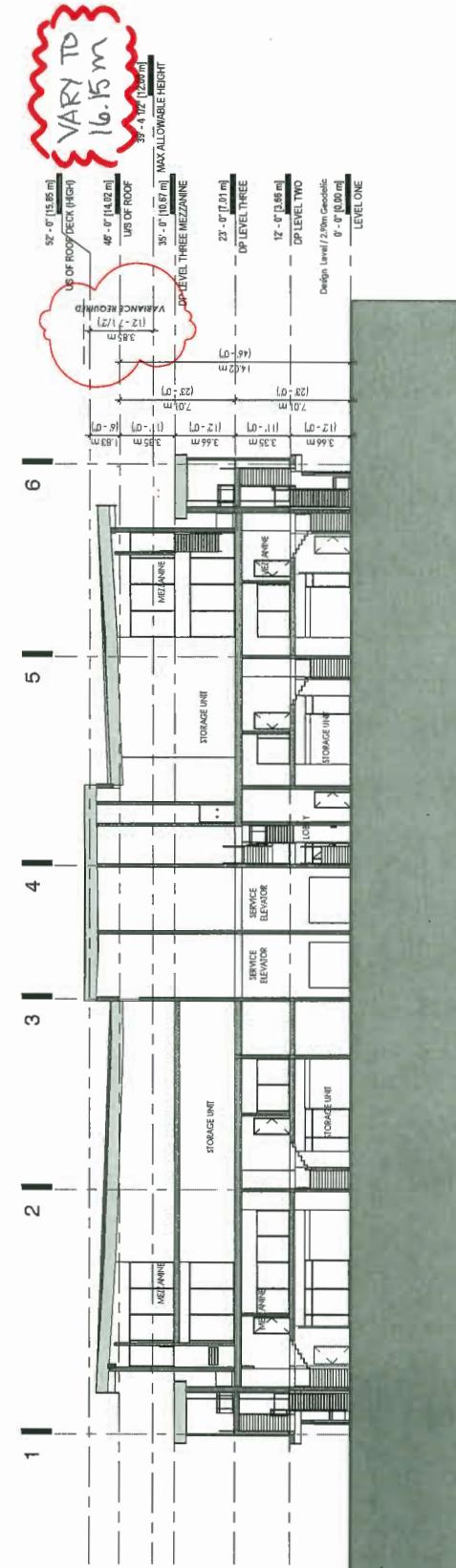
ROOF PLAN - LOCATION FOR SOLAR PANELS

SCALE 1" = 20'-0" DATE: DEC 5, 2018 DRAWN/AUTHOR
A-77047

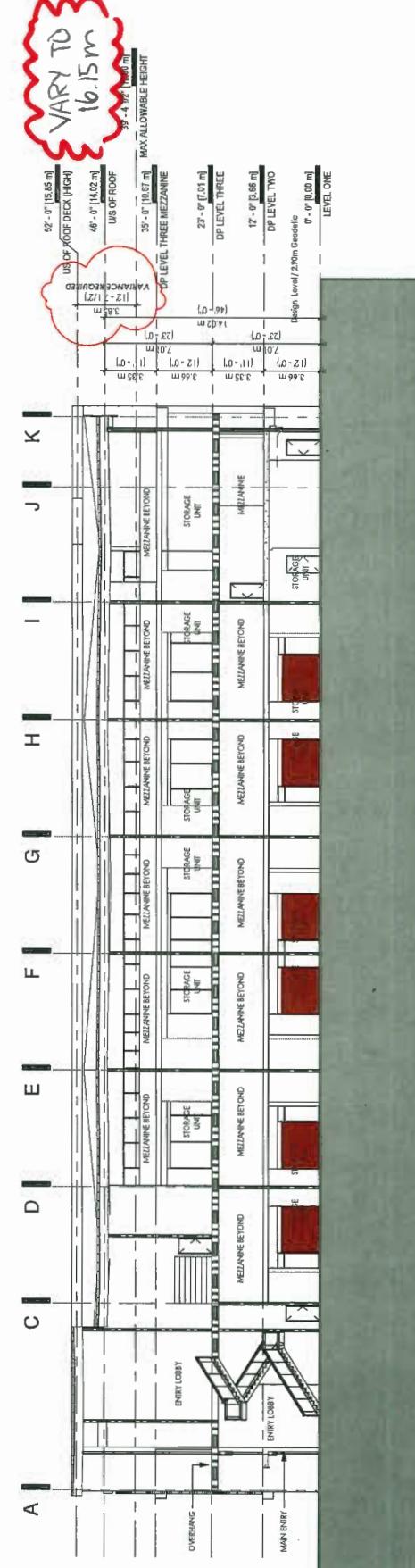
PHONE (604) 251-3440 FAX (604) 251-3848



DP SECTION A-A



DP SECTION B-B



DP SECTION C-C

BIIII DIVISIONS

SCALE 1/16" = 1-0" DATE: DEC 5, 2018 DRAWN BY: Author
PROJECT NUMBER 217017

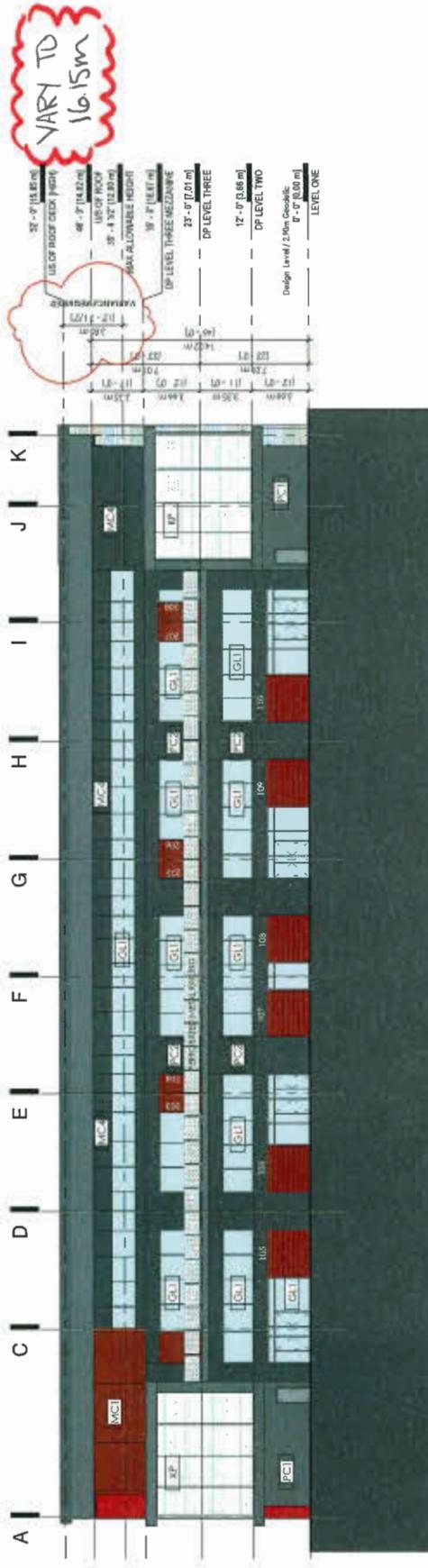
四

卷之三

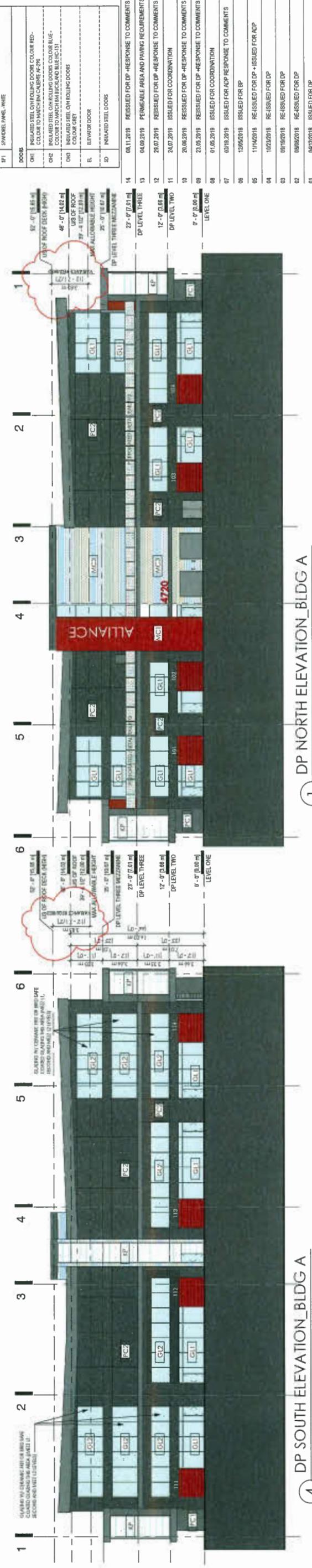
A008

MATERIALS LEGEND

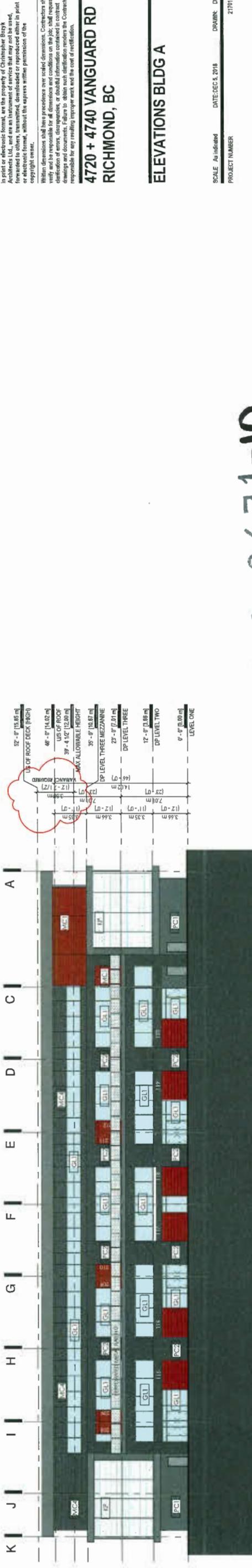
METAL PANEL	
MC1 - METAL CORRUGATED CLADDING PANEL, COLOUR TO MATCH CHASSIS, HC-290	
MC2 - METAL CORRUGATED CLADDING PANEL, BLUE, COLOUR TO MATCH IMBUCANO, HC-151	
MC3 - METAL CORRUGATED CLADDING PANEL, GALVANIZED ALUMINUM COAT, HC-144	
MC4 - METAL CORRUGATED CLADDING PANEL, GRANITE COAT TO MATCH HESBALI CHASSIS, HC-144	
MF4 - PREFINISHED WHITE PVC PANEL BY ALUCORDON - COLOR TO MATCH IMBUCANO, HC-144	
CONCRETE	
PC1 - BATTENED PRESSED CONCRETE - COLOR TO MATCH IMBUCANO, HC-144	
PC2 - BATTENED ALUMINUM CONCRETE - PAINT - COLOR TO MATCH IMBUCANO, HC-144	
PC3 - POLYCARBONATE SHEET, CLEAR, COLOR TO MATCH IMBUCANO, HC-144	
PC4 - SPANDEX PANEL, WHITE	
GAGING	
NOTE: CUPBOARD GLAZING TO BE LOME DOUBLE GLAZED, UNGLAZED SEATED IN AS TYPICAL, EXCEPT NOTED OTHERWISE.	
GLAZING	
GL-1 - GLAZED PANEL, CLEAR	
GL-2 - GLAZED PANEL, CERAMIC FINISH AND WHITE LOW E-COATED ACID-ETCHED GLASS	
IP - POLYCARBONATE SHEET, WHITE / PARTS	
SP - SPANDEX PANEL, WHITE	
DOORS	
OR1 - INSULATED STEEL CHAIN-ROLLING DOORS, COLOR RED, COLOUR TO MATCH IMBUCANO, HC-290	
OR2 - INSULATED STEEL CHAIN-ROLLING DOORS, COLOR BLUE, COLOUR TO MATCH IMBUCANO, HC-151	
OR3 - INSULATED STEEL CHAIN-ROLLING DOORS, COLOR GREY, COLOUR TO MATCH IMBUCANO, HC-144	
EL - ELEVATOR DOOR	
SD - INSULATED STEEL DOORS	
REISSUE FOR RP + RESPONSE TO COMMENTS	
14 - 08.11.2019 - REISSUE FOR RP + RESPONSE TO COMMENTS	
13 - 06.09.2019 - PERMEABLE AREA AND PAINT REQUIREMENTS	
12 - 26.07.2019 - ISSUED FOR RP + RESPONSE TO COMMENTS	
11 - 24.07.2019 - ISSUED FOR COORDINATION	
10 - 26.08.2019 - REISSUE FOR RP + RESPONSE TO COMMENTS	
09 - 25.09.2019 - REISSUE FOR RP + RESPONSE TO COMMENTS	
08 - 01.10.2019 - LEVEL ONE	
07 - 03.10.2019 - ISSUED FOR RP + RESPONSE TO COMMENTS	
06 - 12.05.2018 - ISSUED FOR RP	
05 - 11.05.2018 - REISSUE FOR RP + ISSUED FOR ADP	
04 - 10.02.2018 - REISSUE FOR RP + ISSUED FOR ADP	
03 - 09.02.2018 - REISSUE FOR RP	
02 - 08.02.2018 - ISSUED FOR RP	
01 - 04.02.2018 - ISSUED FOR RP	
REVISION DATE	
DESCRIPTION	



(2) DP WEST ELEVATION BLDG A
1/16" = 1'-0"



(1) DP NORTH ELEVATION BLDG A
1/16" = 1'-0"



(4) DP SOUTH ELEVATION BLDG A
1/16" = 1'-0"

(3) DP EAST ELEVATION BLDG A
1/16" = 1'-0"

DP 18-818671-10

DP 18-818671-10

A009

SCALE As indicated DATE DEC 5, 2018 DRAWN: CR
PROJECT NUMBER 217017

ELEVATIONS BLDG A

4720 + 4740 VANGUARD RD
RICHMOND, BC

REISSUE FOR RP + RESPONSE TO COMMENTS

All ideas, designs, drawings and specifications, either in print or electronic format, are the property of Christopher Bozyk Architects Ltd., and are an instrument of service that may not be used, forwarded to others, transmitted, downloaded or reproduced either in print or electronic format, without the express written permission of the copyright owner.

When dimensions shall have precedence over dimensions and conditions on the job, shall report written and be responsible for all dimensions and conditions on the job; shall report written and be responsible for all dimensions, descriptions, or details contained in contract drawings and documents. Failure to obtain such dimensioning renders the Contractor responsible for any resulting improper work and the cost of rectification.

4720 + 4740 VANGUARD RD
RICHMOND, BC

ELEVATIONS BLDG A

SCALE As indicated DATE DEC 5, 2018 DRAWN: CR
PROJECT NUMBER 217017



KD Planning

MUSICAL STAFF LTD.
100-5997 TAUNY AVENUE
VANCOUVER, BC V6P 0E5
T 604.542.8511 F 604.542.8512
E MAIL: info@musicalstaff.com
FAX: 604.542.8513
TELE: 604.542.8513
F 604.542.8513
E MAIL: info@musicalstaff.com

REVISIONS PER COMMENTS

05/06/19 REISSUED FOR DP

21/05/19 ISSUED FOR TENDER

07/05/19 ISSUED FOR DP
ISSUED TO ADDRESS AIP

03/15/19 ISSUED FOR RP

20/11/18 ISSUED FOR COORDINATION

14/11/18 ISSUED FOR DP

22/10/18 ISSUED FOR DP

27/09/18 ISSUED FOR DP

04/09/18 ISSUED FOR DP

31/07/18 ISSUED FOR REVIEW

11/04/18 ISSUED FOR DP

07/07/17 ISSUED FOR REVIEW

07/07/17 ISSUED FOR REVIEW

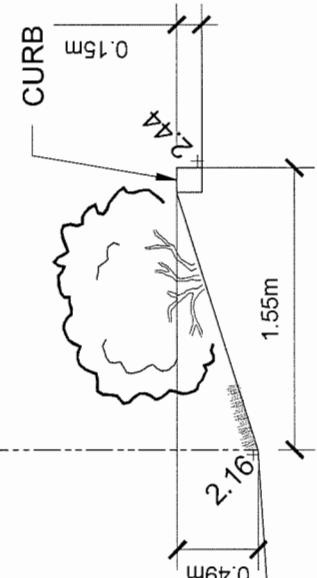
08/03/17 ISSUED FOR DP

PROPERTY
LINE



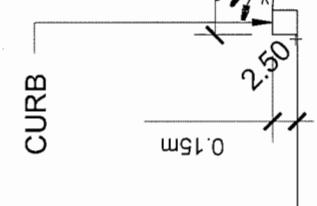
SECTION 3

PROPERTY
LINE



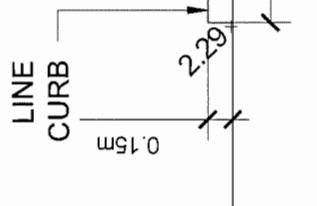
SECTION 4

PROPERTY
LINE



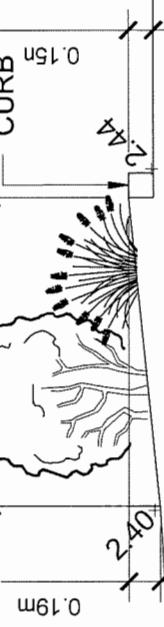
SECTION 2

PROPERTY
LINE



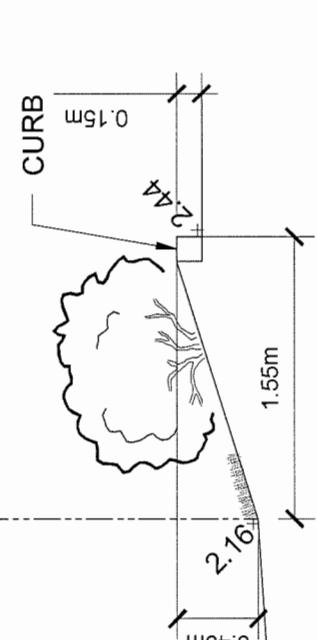
SECTION 1

CURB



SECTION 3

PROPERTY
LINE



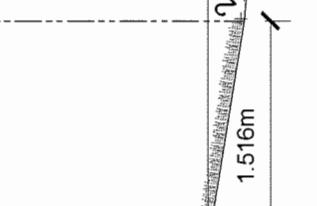
SECTION 4

PROPERTY
LINE



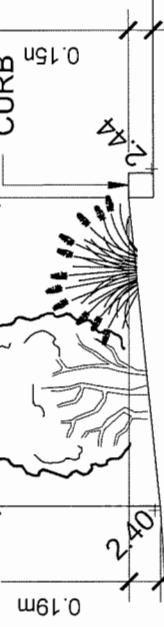
SECTION 2

PROPERTY
LINE



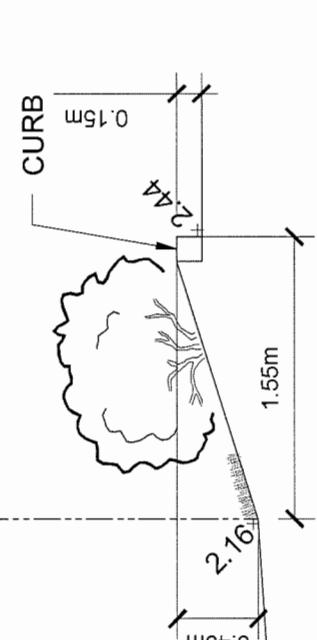
SECTION 1

CURB



SECTION 3

PROPERTY
LINE



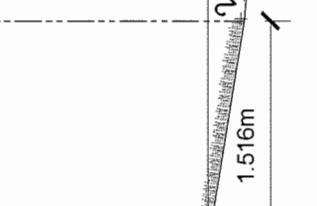
SECTION 4

PROPERTY
LINE



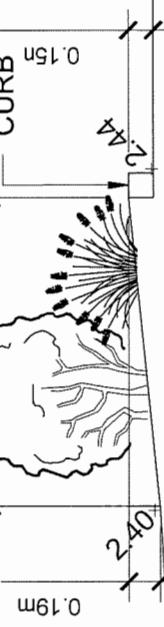
SECTION 2

PROPERTY
LINE



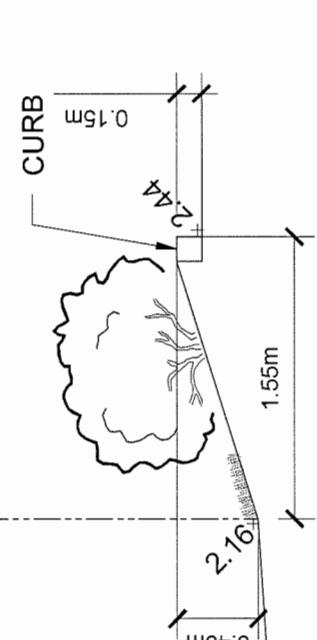
SECTION 1

CURB



SECTION 3

PROPERTY
LINE



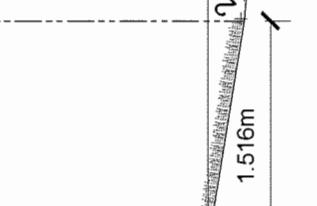
SECTION 4

PROPERTY
LINE



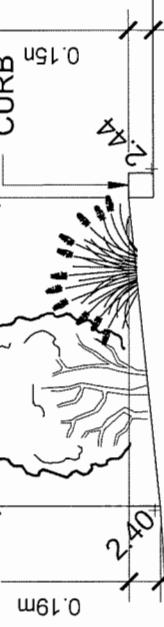
SECTION 2

PROPERTY
LINE



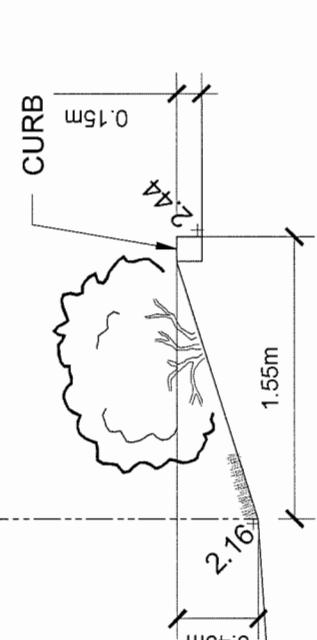
SECTION 1

CURB



SECTION 3

PROPERTY
LINE



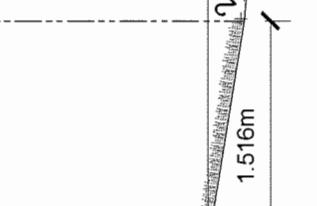
SECTION 4

PROPERTY
LINE



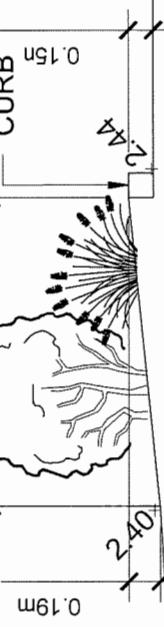
SECTION 2

PROPERTY
LINE



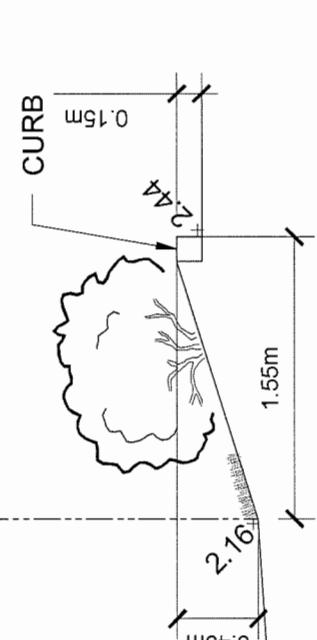
SECTION 1

CURB



SECTION 3

PROPERTY
LINE



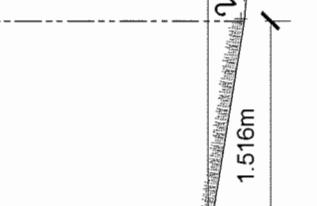
SECTION 4

PROPERTY
LINE



SECTION 2

PROPERTY
LINE



SECTION 1

CURB

