Attachment A8

Traffic Impact Assessment - 15-25 Hunter and 105-107 Pitt Street, Sydney BATES SMART ON BEHALF OF MILLIGAN GROUP PTY LTD

MARCH 2022

15-21 HUNTER STREET AND 105-107 PITT STREET, SYDNEY PRELIMINARY TRAFFIC IMPACT ASSESSMENT

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15-21 Hunter Street and 105-107 Pitt Street, Sydney Preliminary Traffic Impact Assessment Bates Smart on behalf of Milligan Group Pty Ltd

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1 INTRODUCTION

1.1 PROJECT BRIEF

This Traffic Impact Assessment has been prepared by WSP in support of a Planning Proposal to amend the Sydney Local Environmental Plan 2012 (Sydney LEP). This report has been prepared on behalf of Milligan Group Pty Ltd (the Proponent) and its related entities and consultants, representatives and agents and FT Sydney Pty Ltd as trustee for FT Sydney Unit Trust. It relates to an amalgamated site at 15-21 Hunter Street and 105-107 Pitt Street (the site).

The purpose of this Planning Proposal is to amend the site's Floor Space Ratio (FSR) development standard, and the Maximum Building Height to align with the Martin Place Sun Access Plane contained within the concurrent Central Sydney Planning Proposal.

This Planning Proposal supports the City of Sydney Council's draft Central Sydney Planning Strategy (Draft CSPS) by unlocking additional employment generating floor space within a designated tower cluster. The proposed Sydney LEP amendment is part of the broader redevelopment plan for the site to facilitate a new commercial office tower. It will also facilitate significant public benefits through additional site activation and embellishment of the public domain.

The Planning Proposal is accompanied by amendments to the Sydney Development Control Plan 2012 (Sydney DCP). The site specific DCP amendments reflect the proposed outcome to provide a podium tower scheme.

This is reflected in the accompanying reference design prepared by Bates Smart which serves as a baseline proof of concept for this Planning Proposal. This 2,108sqm strategic site presents a unique opportunity to deliver a landmark premium commercial office tower that will exhibit design excellence and offer significant employment opportunities for global Sydney.

The uplift being sought is consistent with the strategic intent of the draft CSPS, which contains the City's requirements and expectations for projects pursuing this pathway. Following the Planning Proposal, the planning approval pathway involves a competitive design process and a detailed Development Application. As such, this report reflects the concept stage of the proposal, and may be embellished as the detailed design and required works evolve.

1.2 DEVELOPMENT SITE AND REPORT CONTEXT

The development site will comprise the consolidation of five existing property titles as follows:

- 15-17 Hunter Street, Sydney (Comfort Hotel);
- 19-21 Hunter Street, Sydney;
- 23-25 Hunter Street (Currency House);
- 105 Pitt Street, Sydney; and
- 107 Pitt Street, Sydney.

This report discusses the traffic implications of the proposal, including the adequacy of parking provisions, the suitability of the site access arrangements, and the likely impacts on future traffic conditions.

1.3 REFERENCED DOCUMENTS

In the preparation of this assessment, the following documents have been referenced:

- Architectural Drawings prepared by Bates Smart dated March 2022;
- Sydney Local Environmental Plan 2012;
- Section 3 of the Sydney Development Control Plan 2012;
- Schedule 7 of the Sydney Development Control Plan 2012;
- Australian Standard AS2890.
- RTA Guide to Traffic Generating Developments (2002)
- RTA Guide to Traffic Generating Developments Updated Traffic Surveys (Revision 4a 2013)

In the course of undertaking this assessment, a desktop inspection of the subject site and surrounding road network has been undertaken to ascertain existing conditions.

The report concludes that the traffic and parking impacts are acceptable and further analysis will be undertaken at the detailed Development Application Stage.

2 BACKGROUND AND EXISTING CONDITIONS

2.1 SITE LOCATION AND LAND USE

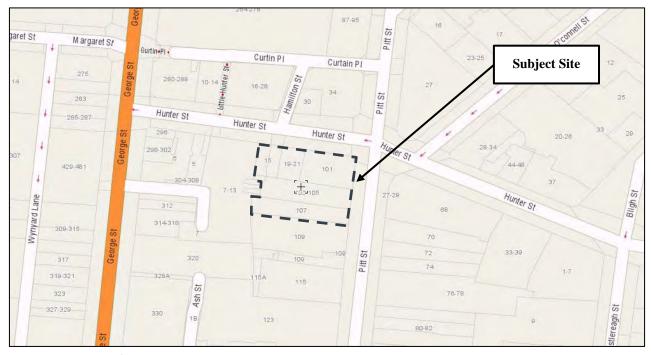
The subject site is located within the Sydney CBD on the south-west corner of Hunter Street and Pitt Street, and is currently located across five existing property titles as follows:

- 15-17 Hunter Street, Sydney (Comfort Hotel);
- 19-21 Hunter Street, Sydney;
- 23-25 Hunter Street (Currency House);
- 105 Pitt Street, Sydney; and
- 107 Pitt Street, Sydney.

The proposed development has a site area of 2,108sqm, and has combined frontages of approximately 48.2 metres to Hunter Street along its northern boundary and 39.2 metres to Pitt Street along its eastern boundary. The subject site is currently occupied by a number of uses, including retail (food and drink), commercial and hotel.

In addition, the subject site is located within Sheet 14 of the Sydney LEP/DCP 2012 maps and is situated under the Metropolitan Centre (B8) Zone of the Sydney LEP. Further, the subject site is located on land in Category D under the Public Transport Accessibility Level (PTAL) Index.

Given its location within the Sydney CBD, the subject site is characterised by surrounding high density development, primarily containing commercial office and retail uses. The location of the subject site in the context of the surrounding road network is shown in Figure 2.1.



Source:www.street-directory.com.auFigure 2.1Site Location

2.2 ROAD NETWORK

2.2.1 HUNTER STREET

Hunter Street is a local road managed by the City of Sydney and is situated along the northern frontage of the site. Hunter Street is generally aligned in an east-west direction and typically comprises an approximate 14 metres wide carriageway along the site frontage, which accommodates two-way traffic movements. On-street kerbside parking is available on both sides within the vicinity of the site. Various parking restrictions apply along Hunter Street including, 4P ticket, 'Loading Zone', 'Taxi Zone', and 'No Stopping'.

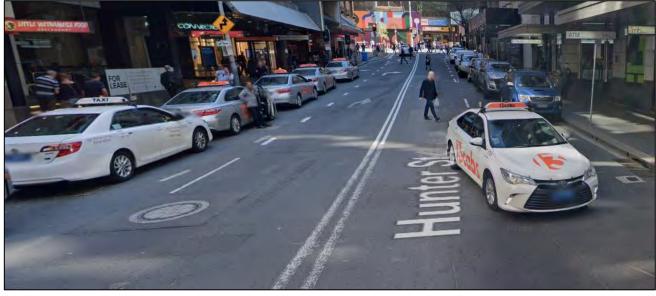
A 40km/h speed limit applies within the Sydney city centre, including Hunter Street. There is no existing vehicular access to the subject site from Hunter Street.

Figure 2.2 and Figure 2.3 shows the typical conditions along the Hunter Street frontage of the subject site.



 Source:
 www.google.com/maps

 Figure 2.2
 Hunter Street Facing West



 Source:
 www.google.com/maps

 Figure 2.3
 Hunter Street Facing East

2.2.2 PITT STREET

Pitt Street is a local road managed by the City of Sydney and is situated along the eastern frontage of the site. Pitt Street is generally aligned in a north-south direction and typically comprises an approximate 11 metres wide carriageway along the site frontage, which accommodates one-way southbound traffic movements. On-street kerbside parking is available on both sides within the vicinity of the site. Various parking restrictions apply along Hunter Street including, 4P ticket, 'Loading Zone', 'Taxi Zone', and 'No Stopping'.

A 40km/h speed limit applies within the Sydney city centre, including Pitt Street. There is no existing vehicular access to the subject site from Pitt Street.

Figure 2.4 and Figure 2.5 show the typical conditions along the Pitt Street frontage of the subject site.



 Source:
 www.google.com/maps

 Figure 2.4
 Pitt Street Facing North



 Source:
 www.google.com/maps

 Figure 2.5
 Pitt Street Facing South

2.2.3 PITT STREET POP-UP CYCLEWAY

The recent Covid-19 pandemic has had an impact on how businesses and subsequently the CBD operate particularly with respect to traffic volumes (vehicles, pedestrians, and cyclists) within key road corridors. Subsequently, the City of Sydney, in conjunction with Transport for NSW have looked to make some changes to how the available road space is utilised. These changes have included the provision of a pop-up cycleway along Pitt Street, directly along the frontage of the site.

Based on these changes, Pitt Street now accommodates a single vehicle southbound travel lane, a kerbside parking lane on the eastern side of the carriageway, and a two-way cycle lane along the western side. A reduction in the speed limit to 30km/h has also been applied along this section of Pitt Street.

Figure 2.6 and Figure 2.7 show the modified conditions along the Pitt Street frontage of the subject site.



 Source:
 www.google.com/maps

 Figure 2.6
 Pitt Street Facing North



 Source:
 www.google.com/maps

 Figure 2.7
 Pitt Street Facing South

2.3 SUSTAINABLE TRANSPORT

2.3.1 PUBLIC TRANSPORT

Located within the Sydney CBD, the site has excellent accessibility to the public transport network. Table 2.1 outlines the key services that are situated within close proximity of the subject site.

| SERVICE | ROUTE | ROUTE DESCRIPTION | NEAREST STOP | DISTANCE FROM SITE | PEAK ARRIVAL FREQUENCY |
|---------|--|--|---------------------------------|-----------------------|---------------------------|
| Train | T1, T2, T3, T4, T8, T9 | Various | Wynyard Railway Station | 300m (4 min walk) | 4-5 mins |
| Light | L2 - Randwick Line | Randwick – Circular Quay | Wynyard Light Rail | 280m (3 min walk) | 8 mins |
| Rail | L3 - Kingsford Line | Kingsford – Circular Quay | | | 8 mins |
| | X73 | City Spring St – Coogee (Express Service) | Spring St before Pitt St | 140m (2 min walk) | 6-10 mins |
| Bus | X74 | City Spring St – Coogee via Alison Rd (Express Service) | | | 12-16 mins |
| | X77 City Spring St – Maroubra Beach (Express Service) | | | | 10-13 mins |
| | X39 | City Gresham St – Clovelly (Express Service) | Pitt St opp Australia Square | 140m (2 min walk) | 10-20 mins |

Table 2.1 Public Transport Options

2.3.1.1 TRAIN

The metropolitan train system plays a significant part in moving people around Sydney and its outer suburbs and is a practical and convenient alternative to private motor vehicle use.

The subject site is well placed to make use of the Sydney train network with Wynyard Railway Station situated an approximate 4-minute walk west of the development site. Wynyard Railway Station primarily services six train lines, which include the North Shore & Western Line (T1), the Inner West & Leppington Line (T2), the Bankstown Line (T3), the Eastern Suburbs & Illawarra Line (T4), the Airport & South Line (T8), and the Northern Line (T9).

The above train lines allow connection from all parts of the metropolitan area to the Sydney CBD.

In addition, the rail network is to introduce a new standalone railway, known as Sydney Metro with Sydney Metro West also to be located within the vicinity of the subject site. As part of the works, a new station will be developed and integrated with the existing Martin Place Station, which is an approximate 5-minute walk east of the subject site. The new station is proposed to provide a northern entrance opening to Castlereagh, Hunter and Elizabeth streets.

Given the existing train network and the proposed new rail network, the subject site location provides a convenient alternative to private motor vehicle use.

2.3.1.2 LIGHT RAIL

The CBD and South East Light Rail is a new light rail network for Sydney and runs along George Street (approximately 70m west of the subject site).

The 12km route features 19 stops, extending from Circular Quay along George Street to Central Station, through Surry Hills to Moore Park, then to Kensington and Kingsford via Anzac Parade and Randwick via Alison Road and High Street.

Sydney Light Rail plays a key role in enabling Sydney's transport future by transporting thousands of commuters between the CBD and Randwick or Kingsford in the South Eastern suburbs, and between Sydney's Inner West suburbs and Central. The light rail is a convenient alternative to private motor vehicle use.

2.3.1.3 BUS NETWORK

The subject site is well serviced for bus transport with bus express services X39, X73, X74, and X77 operating within a 2-minute walk from the subject site. Route description and the peak arrival frequency can be found for each bus route in Table 2.

The frequent services allow the bus network to be a convenient alternative to private motor vehicle use.

2.3.2 WALKING

Being within the Sydney CBD, the subject site has very good walking facilities in place with all street frontages and the surrounding streets providing a network of footpaths, which can connect pedestrians to local destinations. The majority of the footpaths are quite wide and can accommodate a large number of pedestrians. These paths allow pedestrians to connect with other sustainable transport modes such as train, light rail, and bus.

In addition, there is an existing pedestrian tunnel linking Wynyard Railway Station and Hunter Street. The tunnel will allow pedestrians with a safe and convenient accessway between the subject site and train station, whilst also reducing the number of pedestrians at street level.

Further, there are pedestrian pram crossings at all nearby intersections and pedestrian crossings at major intersections to facilitate pedestrian movements through the local area.

Thus, the method of walking to and from the site, in conjunction with the surrounding public transport options, shows that the subject site location provides a convenient alternative to private motor vehicle use.

2.3.3 CYCLING

Whilst there are no dedicated on-street bicycle lanes along the site frontages, the low speeds in the surrounding streets are conducive to a safe cycling environment.

The proposal is to include a whole basement level to accommodate bicycle parking and end-of-trip facilities, which would further encourage occupants of the building to cycle to and from the development.

2.3.4 CAR SHARE

GoGet is a service that provides car sharing vehicles. Several vehicles provided from this service is located within the vicinity of the subject site and is shown in Figure 2.8.

Car share services reduces the needs of users or businesses to own their own car by providing convenient access to a shared car on an as needs basis.

Users gain access to their booked vehicle by using the smart card provided to them on sign up. Users are able to pre-book the vehicle for collection at a designated pick up point via phone or online. When finished the vehicle is returned to the designated space.

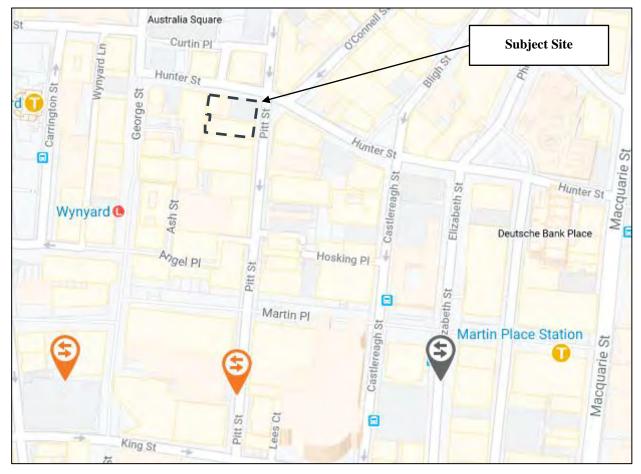


Figure 2.8 GoGet Car Share Locations

2.3.5 VEHICLE BOOKING SERVICES

Vehicle booking services such as Uber, in particular UberPool, is another form of sustainable transport, which, due to competitive pricing and ease of access, are becoming more popular as an alternate mode of transport to private motor vehicle, particularly in metropolitan locations. UberPool allows users to share their journeys with other users that are heading in the same direction, whilst also splitting the costs between the users. UberPool services the Sydney CBD area.

Subsequently, the location of the site lends itself to utilising this as an alternative mode of transport.

3 PROPOSAL

The purpose of this Planning Proposal is to amend the site's Floor Space Ratio (FSR) development standard, and the Maximum Building Height to align with the Martin Place Sun Access Plane contained within the concurrent Central Sydney Planning Proposal.

An indicative reference design has been prepared Bates Smart dated March 2022 which indicates the provision of the following:

- A 51-storey commercial tower above ground level and six (6) basement levels accommodating office, retail, food and beverage, and gym use.
- A site area of 2,108sqm and a total Gross Floor Area of 52,531sqm.
- Vehicle access to the on-site car park and loading/waste collection areas via a new crossover onto Pitt Street. All
 onsite loading and waste collection is to be contained within a basement level, directly access from a ramp from
 Pitt Street (Ground Level).
- A mechanical stacker arrangement, accommodating 41 spaces accessed via two car stacker bays within the basement car park/servicing level.
- Provision of loading and waste collection with a basement level.
- Access to service vehicle parking spaces via two car lifts from the car parking/services basement level.
- A basement level accommodating End-of-Trip facilities.

A copy of the provided indicative reference design plans showing the site access and loading bay/car park access layout are included in Appendix A to this report.

4 PARKING REQUIREMENTS AND CONSIDERATIONS

4.1 CAR PARKING REQUIREMENTS

The subject site is located within the Sydney CBD and is therefore subject to the maximum parking provisions as set out within the Sydney Local Environment Plan (LEP) 2012 for an office and business development. The subject site is located on land in Category D under the Public Transport Accessibility Level (PTAL) Index.

Part 7.6 of the Sydney LEP 2012 states that the maximum number of car parking spaces for a building used for the purposes of office premises or business premises is as follows:

- a) if the building is on land in category D and has a floor space ratio of no more than 3.5:1—1 space for each 175 square metres of gross floor area of the building used for those purposes,
- b) if the building is on land in category E and has a floor space ratio of no more than 2.5:1—1 space for each 125 square metres of gross floor area of the building used for those purposes,
- c) if the building is on land in category F and has a floor space ratio of no more than 1.5:1—1 space for each 75 square metres of gross floor area of the building used for those purposes,
- d) if the building is on land in category D, E or F and has a floor space ratio greater than that specified in paragraph (a), (b) or (c) respectively, the following formula is to be used:

 $\mathbf{M} = (\mathbf{G} \times \mathbf{A}) \div (\mathbf{50} \times \mathbf{T})$

Where -

M is the maximum number of parking spaces, and

G is the gross floor area of all office premises and business premises in the building in square metres, and

A is the site area in square metres, and

T is the total gross floor area of all buildings on the site in square metres.

Similarly, Part 7.7 of the Sydney LEP 2012 states the maximum number of car parking spaces for a building used for the purposes of a retail premises. However, the Sydney LEP 2012 states that the clause does not apply to a building if the building has more than 2,000sqm of gross floor area used for the purposes of retail premises. Given the proposed development is to provide a total gross floor area greater than 2,000sqm for retail use, the clause does not apply.

Notwithstanding, for the purposes of this assessment, the proposed retail, gym, and food and beverage uses are classified as business premises.

As such, the maximum parking rates for office developments and business developments within this area are based on the gross floor area and site area of the building on the site. Based on the development plans, motor rooms, over run rooms, and transfer rooms were included as part of the gross floor area for the office and business uses, whilst the end of trip facilities was excluded.

Table 4.1 subsequently sets out the parking rate and resultant maximum allowable car parking spaces for the site.

Table 4.1 Statutory Car Parking Requirements

| MAXIMUM CAR PARKING RATE | INVENTORY | | MAXIMUM PARKING PROVISION |
|---------------------------------------|-----------|------------|---------------------------|
| | G | 51,196 sqm | |
| $M = (G \times A) \div (50 \times T)$ | А | 2,108 sqm | 41 spaces |
| | Т | 52,531 sqm | |

Based on the above assessment, the proposed development has a maximum allowable parking provision of 41 spaces.

The proposed development plans show the provision of 41 on-site parking spaces which complies with the maximum parking provision limits for the site.

Consideration is to be given to reducing the number of parking spaces on-site to meet the maximum provision of 41 car spaces. Noting that as the design progresses, and if the floor area changes, then the maximum parking provision is to be reassessed.

Due to the predominant office use of the proposed development, it is anticipated that all car parking spaces on-site are allocated to office staff use only. It is expected that other staff members who are not provided an on-site car parking space would be able to utilise the multitude of convenient sustainable travel modes discussed in Section 2.3 to travel to work. At a high level, it is generally considered reasonable for staff at an inner urban location to utilise off-site long-term parking or alternative travel modes to get to work.

There are a number of long-term ticketed parking facilities within close proximity to the site, particularly along Pitt Street (within approximately 100m walk from the site) which can be utilised by staff who wish to drive to work but are not allocated a car parking space. The proposed on-site provisions are therefore considered satisfactory from a staff perspective.

Given the precedence of similar sites within the area, it is reasonable to expect that visitors to the site will be aware of the need to find public parking nearby or arrange alternative transport options such as sustainable transport or taxi/Uber. The proposal of providing no additional on-site car parking for visitors is therefore considered appropriate, noting that there is opportunity for visitors to utilise public spaces on-street, and long-term ticketed parking facilities with close proximity to the site.

The following assessments within this report are based on the maximum provision of 41 car parking spaces within the site.

4.2 ACCESSIBLE CAR PARKING SPACES

Schedule 7.8.5 of the Sydney DCP 2012 requires one space for every 20 car parking spaces or path thereof is to be allocated as accessible visitor parking. Given, all on-site car parking spaces are to be allocated to staff use only, this clause is not applicable.

Notwithstanding, for the purposes of providing accessible parking for staff with disabilities, this assessment has given consideration the above rate. On this basis, and assuming the maximum provision of 41 car parking spaces will be provided, there would be a need to accommodate three (3) accessible parking spaces.

A review of the development plans show that the car stacker bays provide adequate clearances to be used for accessible use, with the bays being afforded additional width to further improve DDA accessibility. Given the automated use of the mechanical car parking arrangement, drivers with disabilities would not need to manually park within a mechanical stacker, and thus there is no difference between accessible and conventional spaces with respect to the parking provision and as such it is considered that the requirement for three (3) DDA spaces is met.

It is recommended however that a DDA / Disability Access Consultant confirm the arrangement is appropriate.

4.3 CAR SHARE CONSIDERATIONS

In addition to setting out the maximum car parking provision, Section 3.11.2 of the Sydney DCP 2012 outlines car share parking provision requirements for developments that provide parking spaces for exclusive use by an organised car share scheme (car share parking spaces).

Given the development is proposed to not provide parking spaces for an exclusive use by an organised car share scheme, this requirement is not applicable to the development.

4.4 MOTORCYCLE PARKING REQUIREMENTS

Schedule 7.8.4 of the Sydney DCP 2012 requires that in all buildings that provide on-site parking, 1 motorcycle parking space for every 12 car parking spaces is to be provided as separate parking for motorcycles.

It is assumed that the maximum provision of 41 car spaces will be provided. Based on the above rate, the proposed development with a provision of 41 spaces would have a requirement to provide a minimum of 3 motorcycle parking spaces.

The development plans do not currently show the provision of any motorcycle parking spaces, however it is considered that there is likely sufficient space within basement 1 to allow for the provision of the required motorcycle parking.

4.5 BICYCLE PARKING REQUIREMENTS

Section 3.11.3 of the Sydney DCP 2012 specifies the bicycle parking requirements for various uses. As per Table 3.5 to Section 3 of the Sydney DCP 2012, the bicycle parking requirements for the proposed development are set out within Table 4.2 below. A gym is not listed within Table 3.5 to Section 3 of the Sydney DCP 2012.

| USE | AREA | EMPLOYEE RATE | EMPLOYEE REQUIREMENT | VISITOR RATE | VISITOR REQUIREMENT |
|--------------------------------|------------|--------------------|-------------------------|--|------------------------|
| Office | 41,790 sqm | 1 per 150 sqm GFA | 279 spaces | 1 per 400 sqm GFA | 104 spaces |
| Shop, Restaurant or Café | 5,465 sqm | 1 per 250 sqm area | 22 spaces | 2 plus 1 per 100 sqm over 100 sqm GFA | 57 spaces |
| Total | | | 301 spaces | | 161 spaces |

 Table 4.2
 Statutory Bicycle Parking Requirements

Based on the above assessment, Table 4.2 shows the proposed development has a requirement to provide 462 bicycle spaces comprising 301 staff spaces and 161 visitor spaces. It is however noted that given the location of the site within the Sydney CBD, and the proximity to convenient public transport options, bike parking demands may actually be lower than the noted statutory provision rate. Further investigations during design development may therefore be warranted to assess the likely site demands and any reduction being sought.

In conjunction with the statutory provision requirements, the Australian Standards AS2890.3:2015 also requires that 20% of bicycle parking is provided within an at-grade horizontal arrangement. Should the statutory requirement be provided, then, at least 95 bicycle spaces must therefore be provided within a horizontal parking arrangement.

Further, Section 3.11.3 of the Sydney DCP 2012 specifies that where bike parking for tenants is provided in a basement, it is to be located on the uppermost level of the basement, and that bike parking for visitors is to be provided in an accessible on-grade location near a major public entrance to the development.

It is noted that whilst current plans do not indicate the exact number of bicycle parking spaces provided for the development, plans do show Basement 5 being allocated for Bicycle Storage and End-of-Trip purposes. Typical horizontal bike parking spaces have floor area requirement of 0.9 sqm per space, whilst vertical hanging spaces can be accommodated within a footprint of approximately 0.6 sqm. In conjunction with this, access aisle requirements of 0.75sqm per space are also typical for bike parking. Based on the statutory provisions in conjunction with the AS2890 requirements, it could therefore be anticipated that these rates would require provision of approximately 750sqm floor area for bike parking.

On this basis it is considered that the 1,549 sqm GFA footprint of Basement 5 should provide sufficient space to accommodate the bike needs of the site. Further investigation may need to be undertaken based on the specific bike parking systems proposed to be used.

4.6 END-OF-TRIP FACILITIES

In addition to the above parking provision requirements, Section 3.11.3 of the Sydney DCP 2012 also requires the provision of lockers and shower and change facilities for non-residential uses. The rates for these facilities are listed as follows:

- 1 personal locker for each bike parking space;
- 1 shower and change cubicle for up to 10 bicycle spaces;
- 2 shower and change cubicles for 11 to 20 or more bike parking spaces;
- 2 additional showers and cubicles for each additional 20 bike parking spaces or part thereof;

For the purposes of this assessment, it is expected that end-of-trip facilities are to be used by employees only. Thus, based on the minimum provision of 322 bicycle parking spaces for employees, there is a requirement to provide 322 lockers and 18 shower and change cubicles. End-of-trip facilities are to be located close to the bike parking area.

It is considered that the Basement Level 5 footprint should be able to provide capacity to accommodate these provisions.

4.7 SERVICE VEHICLES

Schedule 7.8.1 of the Sydney DCP 2012 requires separate on-site parking spaces for service vehicles. The rate of which service vehicle parking spaces should be provided for commercial premises are summarised as follows:

- 1 space per 3,300sqm GFA, or part thereof, for the first 50,000 sqm; plus
- 1 space per 6,600sqm, or part thereof, for additional floor area over 50,000 sqm and under 100,000 sqm; plus
- 1 space per 13,200 sqm, or part thereof, for additional floor area over 100,000 sqm

Based on the preceding, for the proposed development which has a total Gross Floor Area (GFA) of 52,531sqm, there is a requirement to provide 16 parking spaces for service vehicles.

The development plans show the provision of three (3) service bays situated within Basement Level 1, with a further 13 service bays on Basement Level 2. Subsequently, the development will see the overall provision of 16 service bays, in line with statutory requirements.

In the context of the proposal, with the site primarily being of an office nature, it is considered that these spaces would be able to be managed, such that any loading/unloading activities will occur at different times, and that all deliveries and services will operate on a timed schedule to manage the number of vehicles within the loading area at any one time.

As the development progresses or when the building is within operation, a Service Delivery Plan or Loading Management Plan (or similar), is to be prepared to manage and co-ordinate service vehicles on-site. In addition to the management plan, the Body Corporate (or equivalent) should implement a loading area manager to further assist with the daily operations of the loading area.

5 TRAFFIC GENERATION AND IMPACTS

5.1 ESTIMATED SITE GENERATED TRAFFIC

Due to the predominant office use of the proposed development, it is anticipated that all car parking spaces on-site are allocated to office staff use only. As such, for the purposes of this assessment, it is conservatively assumed that traffic generated during the peak commuter periods is in line with an office use.

The below assessment reviews two scenarios in which traffic may be generated by the site. These include a 'worst case' scenario using an empirical assessment and a 'more realistic' scenario based on case study data.

5.1.1 EMPIRICAL ASSESSMENT

Based on a total maximum on-site parking provision of 41 spaces, it is conservatively estimated that the development could generate:

- Up to 41 vehicle movements during each of the AM and PM peak commuter periods when employees generally
 arrive to work and then later return.
 - In which there would generally be up to 90% inbound movements and 10% outbound movements during the AM peak commuter period. This is to factor in employees who may leave the site during the AM peak for meetings or other work-related tasks.
 - In which there would generally be up to 90% outbound movements and 10% inbound movements during the PM peak commuter period. This is to factor in employees who are returning to the office during the PM peak.

5.1.2 CASE STUDY DATA ASSESSMENT

The RTA Guide to Traffic Generating Developments 2002 lists traffic generation rates for various uses. The RMS then published a Technical Direction document in August 2013, which is a complementary document to the RTA Guide providing updated survey data and traffic generation rates. In assessing the anticipated traffic generation for the proposed uses, the following rates listed in the Technical Direction document have been adopted:

- For office blocks similar to the site (North Sydney), a rate of 52 vehicle trips per 136 car parking spaces in the AM peak, equating to 0.38 vehicle trips per 1 car parking space in the AM peak;
- For office blocks similar to the site (North Sydney), a rate of 44 vehicle trips per 136 car parking spaces in the PM peak, equating to 0.32 vehicle trips per 1 car parking space.

It is noted that the RTA Guide defines a vehicle trip as a one-way vehicular movement from one point to another excluding the return journey.

Therefore, based on the above rates and a total on-site parking provision of 41 car parking spaces, the development is anticipated to generate 16 vehicle trips during the AM peak and 13 vehicle trips during the PM peak. These movements would typically follow the same AM and PM directional splits as noted in Section 5.1.1 prior.

5.2 TRAFFIC IMPACTS

The level of traffic expected to be generated by the development in both scenarios is considered low and would have a minimal impact on the operation of Pitt Street and the surrounding road network.

In the event of a 'worst case' scenario, 41 vehicle movements during each of the AM and PM peak periods equates to less than 1 movement every 1 to 2 minutes during the peak periods. This is further reduced based on case study data provided by RMS, in which 16 trips during the AM peak equates to less than 1 trip every 3 to 4 minutes.

This number of movements is considered low from a traffic engineering context and is likely well within the range of standard daily traffic variations on the surrounding road network. Subsequently, traffic as generated by the site is anticipated to be adequately accommodated within the wider surrounding CBD road network.

5.2.1 SINGLE ACCESS LANE

Access to the onsite car parking and loading areas is proposed via the provision of a single width ramp extending down from the ground level site access on Pitt Street into Basement Level 1. This ramp is to accommodate passing areas both at the top and bottom, and is to comprise a single width section for approximately 40m. Movements along the ramp will be controlled via the use of a traffic management system installed at the top and bottom.

Based on an assessment of the critical AM and PM peak periods (both of which accommodate traffic flows that are largely tidal in nature), it is estimated that the chance of 2 opposing vehicles requiring the use of the ramp at the same time would be in the order of 0.1% of the peak hour. On this basis it is considered that the provision of a single passing space at the top and bottom of the ramp should be sufficient for operation.

5.2.2 CAR STACKER QUEUE ANAYSIS

One of the other possible impacts associated with the projected traffic volumes and the proposed onsite parking arrangements within a car stacker system is the potential for vehicle queuing and how this is to be accommodated onsite.

Subsequently, WSP have undertaken a queue analysis for the site based on the peak AM traffic volumes which is considered to be the critical period as, given the site use, it is during this period that the greatest number of inbound movements are expected to be generated. Key inputs that have therefore been included in this analysis are:

- 16 vehicle trips during the AM peak.
- The proposed car stackers (detailed in Section 6.4) can conservatively operate at a rate of 18 cycles per hour (3-minute turnaround times). Total allowance for 36 cycles per hour across the 2 stacker bays.

Based on these inputs, the analysis shows that the anticipated 98th percentile queue length for the site during the AM peak would be for four (4) waiting vehicles. The development plans show the provision of four (4) waiting bays within Basement Level 1 prior to the car stackers, with further queuing capacity also accommodated at ground level at the entrance to the site, thereby adequately accommodating this demand.

5.2.3 SERVICE VEHICLE LIFT

In addition to the car stackers, the development plans also show the provision of two (2) car lifts providing service vehicle access from Basement Level 1 to the additional service/loading spaces on Basement Level 2. It is understood that these car lifts can typically operate at a rate of 0.15m/s, which on the basis of approximately 4.0m floor to floor between basement levels, would suggest a single directional trip would take in the order of 45 seconds (including allowance for vehicles to enter and exit the lift).

On this basis, it is considered that the two (2) car lifts would be able to undertake up to 80 complete circulations (B1 to B2 to B1) per hour. Given only 13 service vehicles spaces within Basement Level 2, and that all service vehicle movements are to occur outside of peak hours and be subject to a Loading Management Plan, it is therefore considered that these car lifts will adequately service loading/service vehicle access to and from Basement Level 2.

6 DESIGN CONSIDERATIONS

6.1 SITE ACCESS AND CIRCULATION

Development plans show that vehicle access to the subject site is proposed via the provision of a new two-way access onto Pitt Street in the site's south-east corner. This access will connect to an internal ramp, providing a connection down to Basement Level 1 which accommodates three (3) loading bays, the car stacker access, and the service vehicle lifts. Given the existing one-way arrangement on Pitt Street, all vehicle movements at the site access will be inbound from the north, and outbound to the south.

Swept path diagrams have been prepared confirming the site circulation arrangements using both a B99 design vehicle (car/van) and also a 6.4m Small Rigid Vehicle (SRV) from AS2890, and are attached in Appendix B. The diagrams confirm that both the B99 vehicle and SRV can adequately enter the waiting bay at the top of the ramp whilst another vehicle departs, and then circulate down within the sites to either the loading bays, car stacker, or car lift.

The diagrams have also been prepared showing the relevant vehicles accessing each of the loading bays, car stackers, and vehicle lifts on Basement Level 1. For the car stackers, the diagrams confirm that from the queuing spaces, vehicles will be able to adequately enter the bays in a forward's direction. On departing the stacker, vehicles will be positioned such that they can depart in a forward's direction.

For the loading bays and service lifts, it is envisaged that access to these spaces will be under the supervision of a loading area attendant with all movements being reverse in, such that departure movements are in a forward's direction. This also applies to the loading spaces on Basement Level 2.

The diagrams confirm that all assessed vehicles will be able to adequately enter and exit the site in a forward's direction along with accessing their required locations onsite. On this basis, the proposed access/egress for car park lifts and site access/egress is considered satisfactory.

6.2 RAMP GRADES

Access to the basement car park and loading area is proposed via the provision of a single width ramp from the Pitt Street access down to Basement Level 1.

Initially, from the Pitt Street crossover, this ramp is to extend up into the site to a crest via a combination of 1:20 and 1:8 grade transitions, generally in line with the design requirements of AS2890. From the crest, the ramp is to extend down into the site via a combination of 1:20 and 1:8 grade transitions, before reaching a maximum grade of 1:6.5 for the majority of its length. Grade transitions of 1:8 and 1:20 then assist the ramp in leveling out to the Basement Level 1 floor. A minimum headroom clearance of 3.8m is provided along the ramp.

The grade transitions and maximum grades as shown generally align with those as specified within AS2890 for vehicles up to the size of a 6.4m SRV along with the minimum headroom clearances provided.

Vertical clearance and ramp grade diagrams have been prepared for the ramp and have been assessed for use with the 6.4m SRV from AS2890. These diagrams are included within Appendix B to this report and confirm that the ramp grades, transitions, and headroom clearances are suitable for use by vehicles up to the size of a 6.4m SRV.

On this basis, the above ramp grades are considered appropriate for the intended use of the site.

6.3 CAR PARKING DESIGN

Development plans show that 41 car parking spaces are to be provided on-site within a mechanical car stacker system on Basement Level 6. It is suggested that three (3) of these spaces are to be allocated for those with disabilities.

The mechanical car stacker system is accessed via the proposed car stacker bays on Basement Level 1. Drivers are to park their vehicle within the bay, exit the vehicle, and operate the lift controls which will be located external to the lifts. The cars would then be transported to Basement Level 6 where the mechanical system automatically parks the vehicle. It is assumed that the mechanical parking system will allow for all vehicles to enter the parking bay in a forwards direction, and then manoeuvre the car within the system, such that a departing vehicle can then also exit in a forwards direction.

Given the automated use of the mechanical car parking arrangement, drivers with disabilities would not need to manually park within a mechanical stacker, and thus allocating three (3) disabled parking spaces within a mechanical arrangement would be considered appropriate. However, a DDA / Disability Access Consultant should confirm this arrangement is appropriate.

Further to the above, and in accordance with the Australian Standards AS2890.6, a headroom clearance of 2.5m should be provided above the disabled spaces. To accommodate this, it is considered that the 2.5m headroom clearance could be incorporated into the car stacker bays.

Subject to the above, the car parking spaces have therefore been designed in accordance with the relevant standards and are considered satisfactory for the proposed development.

6.4 MECHANICAL PARKING

As mentioned previously, it is proposed for 41 car parking spaces to be accommodated within car stackers and allocated to staff use only. Based on a review of the architectural plans, the following or similar car stacker is to be accommodated:

— WOHR Multiparker 730 Shuttle/Lift -System (or similar) – 41 Spaces.

The proposed WOHR Multiparker 730 car stacker system will provide an automatically operated parking system, which is customisable to suit individual project requirements, including the arrangement of the lifts and transfer areas. The system allows for a fast access time by the use of a quick-change pallet system, which runs independently and simultaneously on each level between parking spaces and the car lifts. Data sheets for the above car stacker system are attached in Appendix C.

For improved accessibility within the site, it is recommended that as part of the mechanical parking system, internal rotating of vehicles is to be allowed for such that all vehicles enter and exit the car lifts in a forward direction.

Based on the architectural plans, the stacker system is to accommodate two levels of car parking. As the design progresses, consultation with the manufacturer/supplier is required to confirm all spatial requirements.

On this basis, given the mechanical system is customisable to suit individual project requirements, the proposed mechanical parking is therefore considered satisfactory.

6.5 CAR LIFT

In addition to the above noted mechanical parking, the development plans also show the use of two (2) car lifts to provide service vehicle access between basements 1 and 2. Data sheets for a car lift system that could be considered are attached in Appendix C.

In order to ensure that all vehicles can depart from the lifts in a forward's direction, all vehicles will be required to reverse into the lifts both at Basement Level 1 and 2. It is understood that these lifts will only be for service/loading vehicle use, with all movements under the control of a Loading Management Plan. On this basis, the proposed car lift arrangements are considered appropriate given the nature of the development.

6.6 LOADING AND WASTE COLLECTION

On-site loading and waste collections are to be facilitated within Basement Level 1 and 2 with ingress and egress via the site access onto Pitt Street. The development plans show the provision of three (3) dedicated bays in Basement Level 1, with a further 13 bays in Basement Level 2.

On Basement Level 1, two (2) of the bays are to have dimensions of 3.5m width by 7.6m length and are design for use by larger vehicles (i.e. 6.4m SRV) and waste collection vehicles. The other space on this level is to be targeted towards couriers and vans and as such is to have dimensions of 2.6m width by 5.4m length. In Basement Level 2, all the bays are to be targeted towards vans and couriers and are to have dimensions of 2.4m width by 5.4m length.

Based on discussions with the project team, the largest vehicle to enter the site will be a waste collection vehicle. It is understood that this will be in the form of a 6.4m small waste collection truck, which has operational specifications less than that of a standard SRV. On that basis it is considered that the waste collection vehicles will be able to adequately access the providing loading spaces within the site. This is confirmed by the swept path diagrams that have been prepared and are attached in Appendix B.

It is noted that as the design progresses, and if a larger vehicle is required for loading and/or waste collections, then the basement level loading area is to be reassessed and the appropriate headroom clearances for the vehicle is to be provided.

Given that the loading bay is accessed from the same entry point as the car park, all loading and waste collection movements will need to be undertaken under controlled conditions, outside of peak hours.

On this basis, the proposed loading bay arrangements are therefore considered appropriate for the proposal given the nature of the development.

7 CONCLUSION

The purpose of this Planning Proposal is to amend the site's Floor Space Ratio (FSR) development standard, and the Maximum Building Height to align with the Martin Place Sun Access Plane contained within the concurrent Central Sydney Planning Proposal.

An indicative reference design has been prepared Bates Smart dated March 2022 which indicates the provision of the following:

- A 51-storey commercial tower above ground level and five basement levels accommodating office, retail, food and beverage, and gym use.
- A site area of 2,108sqm and a total Gross Floor Area of 54,288sqm.
- A basement parking level accommodating 41 car parking spaces within a mechanical stacker arrangement, accessed via two car bays from Basement Level 1.
- Vehicle access to the on-site car park and loading/waste collection areas via a new a new crossover and access onto Pitt Street.

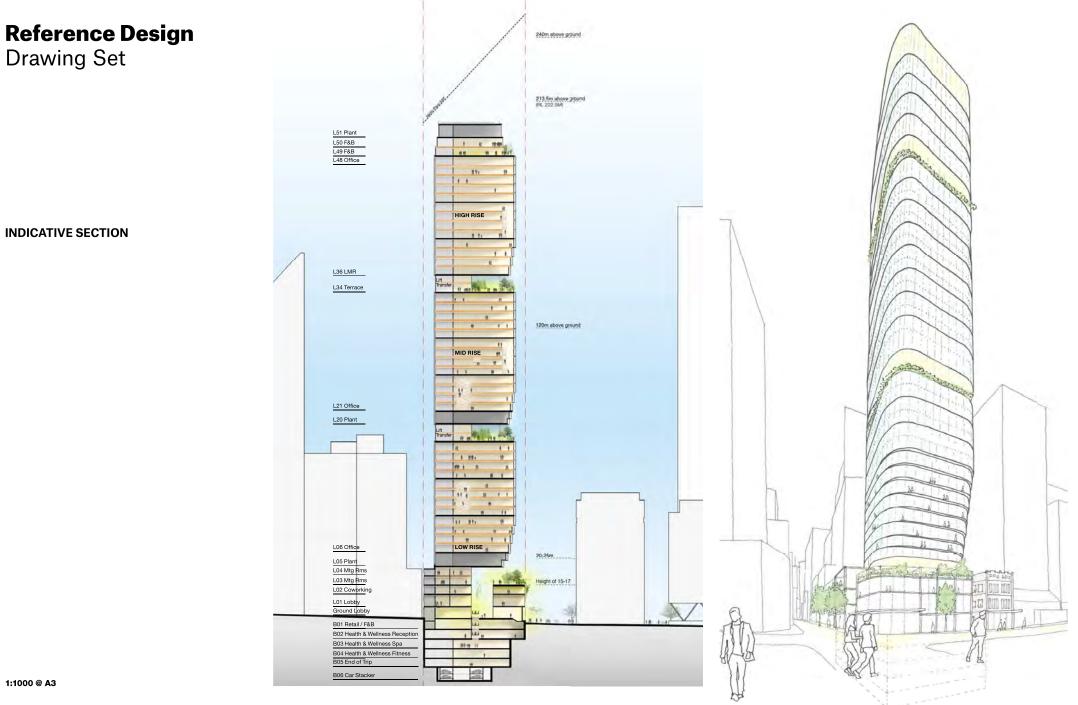
Having consideration for the preceding analysis it is concluded that:

- Consideration is to be given to allocating three (3) car spaces within the automated mechanical parking system to disabled parking use. It is recommended that a DDA Disability Access Consultant confirm the arrangement is appropriate.
- Initial calculations estimate that there will be adequate space onsite to accommodate the bicycle parking demands and end of trip facilities. Design development plans are to show bicycle parking and end-of-trip facilities, including 495 bicycle spaces comprising of 329 staff spaces and 166 visitor spaces, 329 lockers, and 18 shower and change cubicles. End-of-trip facilities are to be located close to the bike parking area.
- Consideration is to be given to providing staff bicycle parking on the uppermost level of the basement, and visitor bicycle parking in an accessible on-grade location near a major public entrance to the development.
- Consideration should be given to preparing a Service Delivery Plan or Loading Management Plan, to manage and co-ordinate service vehicles on-site. In addition to the management plan, the Body Corporate (or equivalent) should implement a loading area manager to further assist with the daily operations of the loading area.
- Traffic as generated by the site is anticipated to be adequately accommodated within the wider surrounding CBD road network.
- The availability of convenient alternative sustainable travel modes surrounding the site shows that the subject site location provides a convenient alternative to private motor vehicle use.
- Queue analysis for the proposed car stacker arrangements indicates that during the AM peak period, the 98th percentile queue should be sufficiently accommodated within the four (4) proposed onsite queuing spaces.
- It is recommended that the mechanical parking system provided allows for vehicles to enter the car lifts in a forward direction and exit the car lifts in a forward direction. This would be achieved via a turntable within the mechanical systems.
- It is noted that as the design progresses, and if a larger vehicle is required for loading and/or waste collections, then the ground level loading area is to be reassessed and the appropriate headroom clearances for the vehicle is to be provided.
- Swept path diagrams attached in Appendix B show that a vehicle up to the size of a 6.4m SRV can adequately
 access and circulate through the onsite loading facilities.

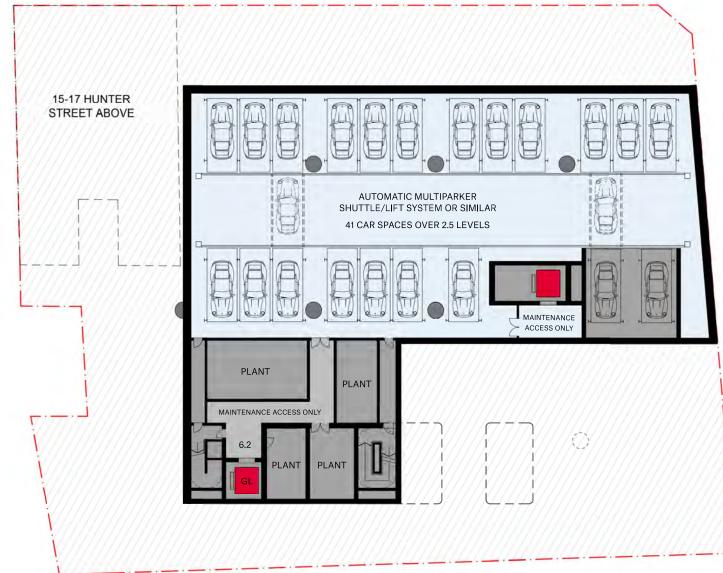
Based on the preceding assessment and subject to the above considerations, the proposed commercial development is considered appropriate from a traffic engineering perspective given the location of the site and nature of the development.

APPENDIX A DEVELOPMENT PLANS





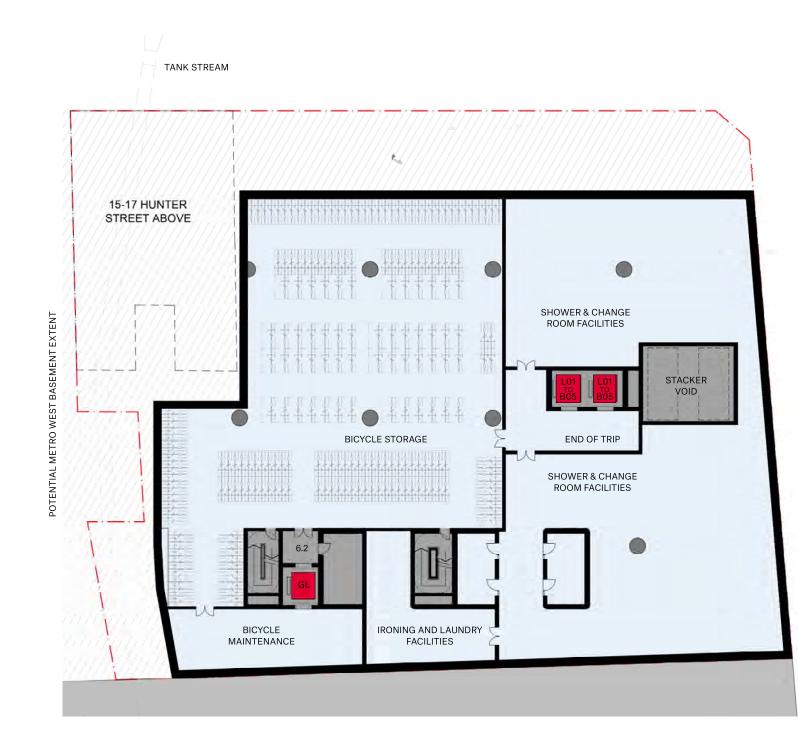
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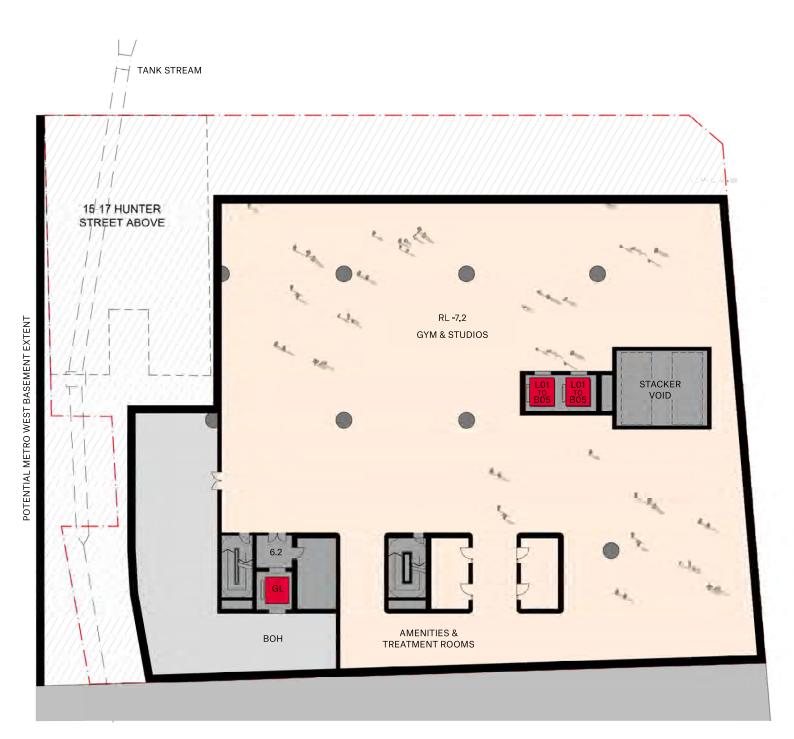


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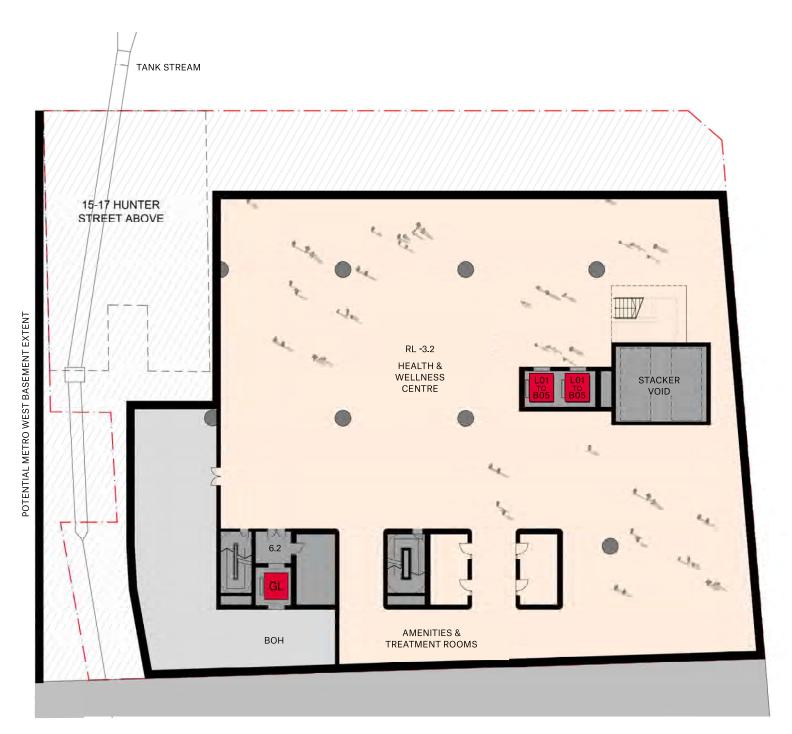


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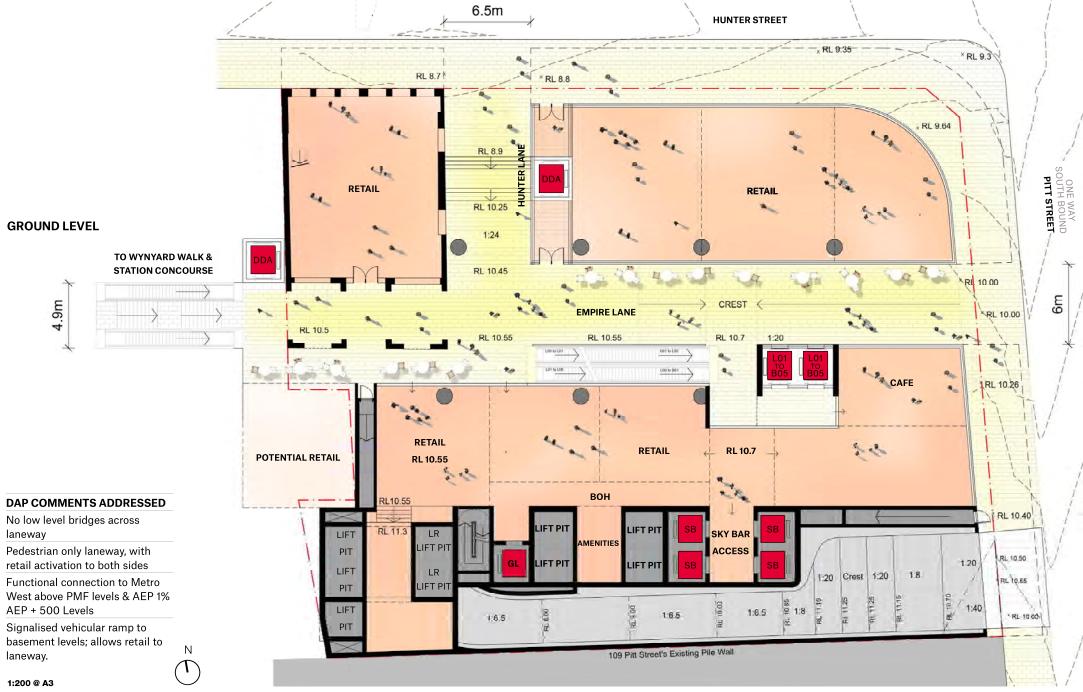
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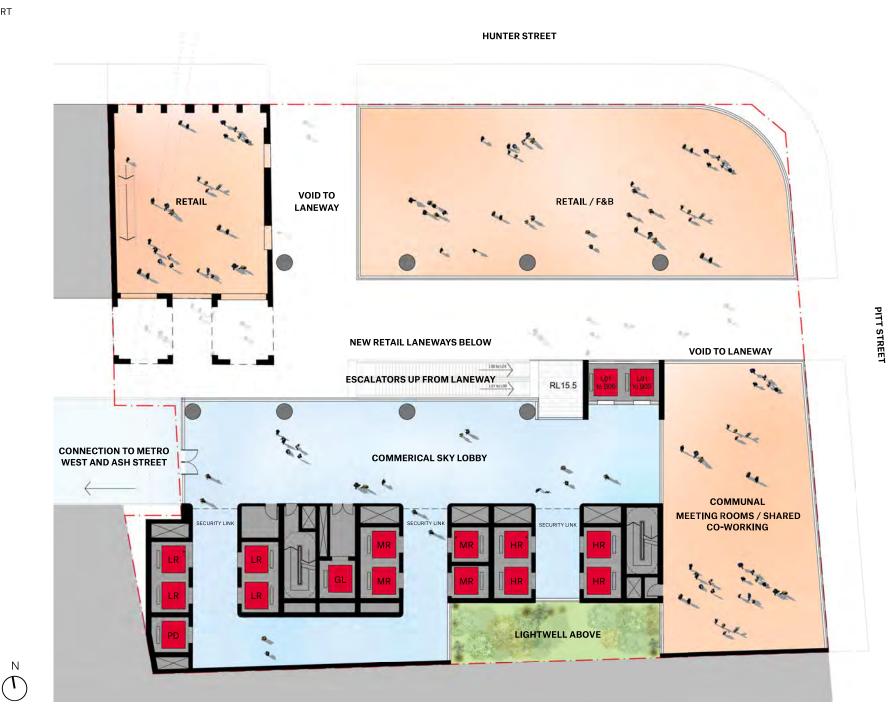
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MARCH 2022 FUTURE CONNECTION UNDERGROUND TO TANK STREAM **BLIGH STREET METRO & 68 PITT STREET** & EVENTUALLY MARTIN PLACE NORTH TRANSFORMER HATCH OVER IN LANEWAY 20 RL 0.8 **15-17 HUNTER** FOOD MARKET STREET ABOVE **BASEMENT 01** Line of 1:20 Ramp Over RL 6.1 <3. Tenant Vehicle Stacker Tenant Vehicle Stacker Clear 9m METRO WEST Courier POTENTIAL STATION CONCOURSE 1 ~RL 6.6 Signage directing couriers to B02 RL 6.2 8.8m RL 10.55 over 4.35m FTF 1:40 PL 6TO 1:20 **DAP Comments Addressed** RL 6.30 Allowance for future B01 connection 3.2m Min 3.2m Min Lift Pit Lift to Bligh Street Metro Clearance Clearance 1:8 Pit Vehicular Vehicular Additional courier spaces accessed 3.8m Clearance MRV MRV Lifts to Lifts to 1 6.60 Lift Lift via courier vehicle lifts. Courier Courier Pit 2 3 Pit Bays at Bays at Commercial car spaces accessed 1:6.5 B02 B02 via commercial car stacker. WASTE STORE 9.00 RL 8.00 1:6.5 5 RL 6.1 109 Pitt Street's Existing Pile Wall Ν 1

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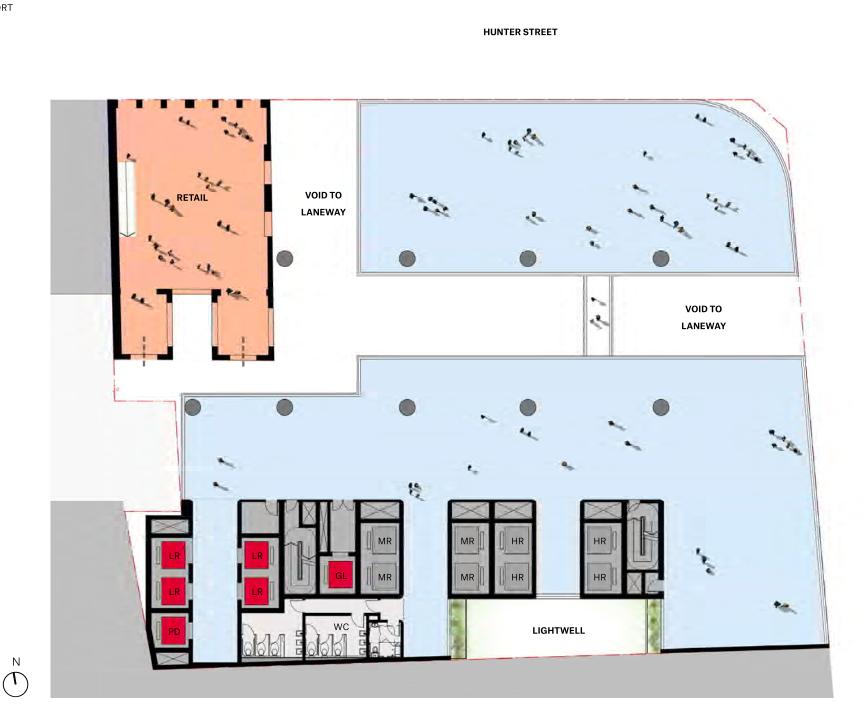
MARCH 2022 | URBAN DESIGN REPORT





LEVEL 01

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LEVEL 03 Hunter Street Podium Landscaped Terraces

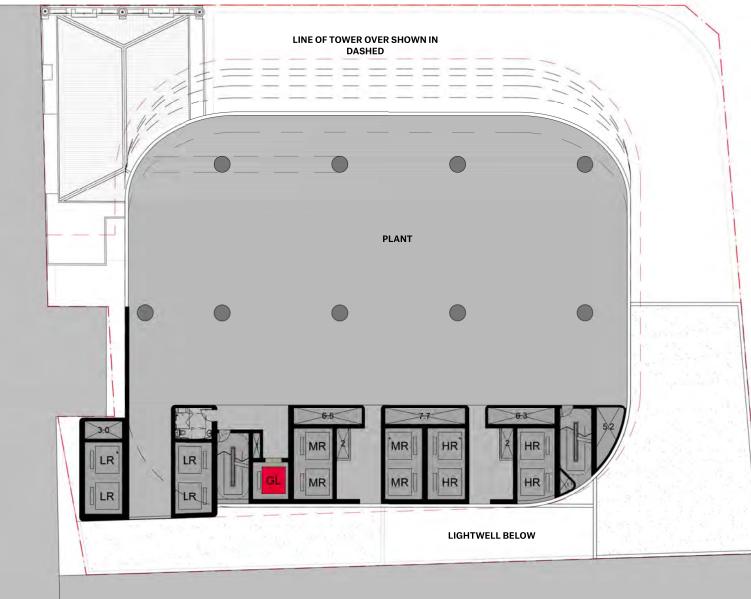


LEVEL 04

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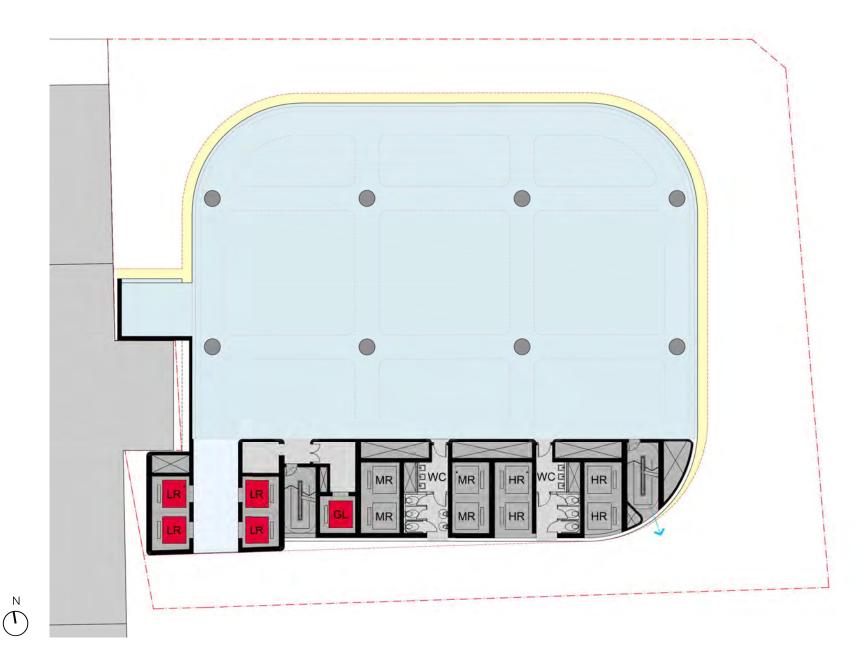
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HUNTER STREET

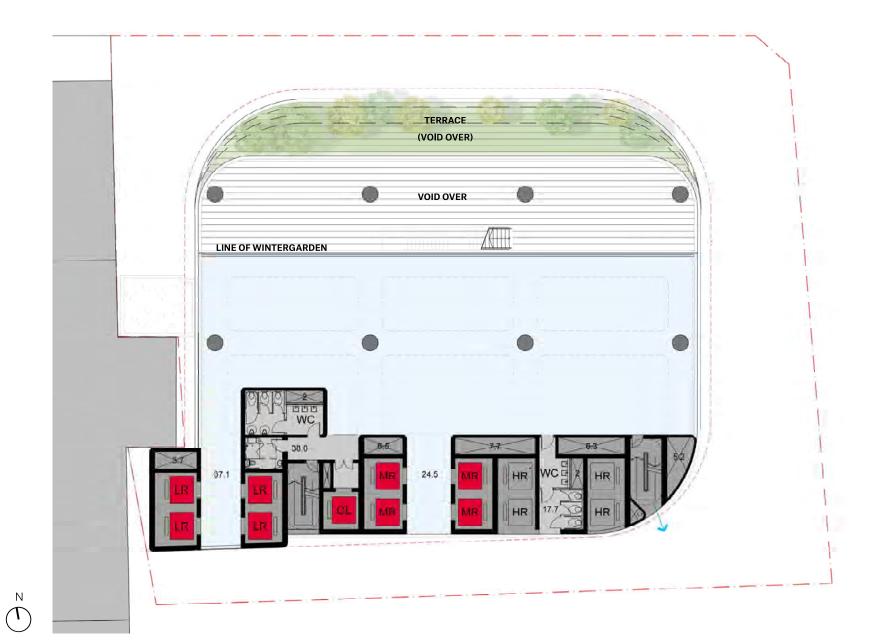


PITT STREET

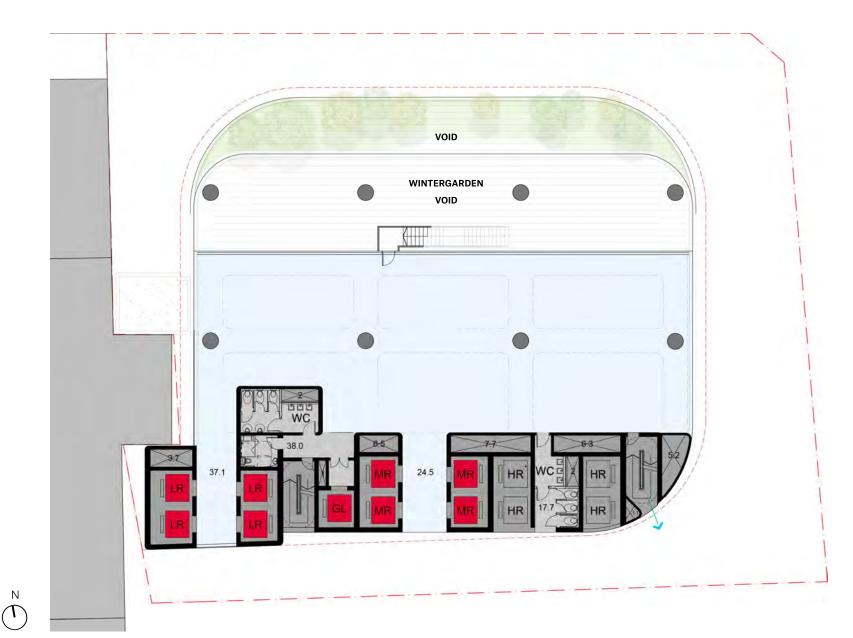
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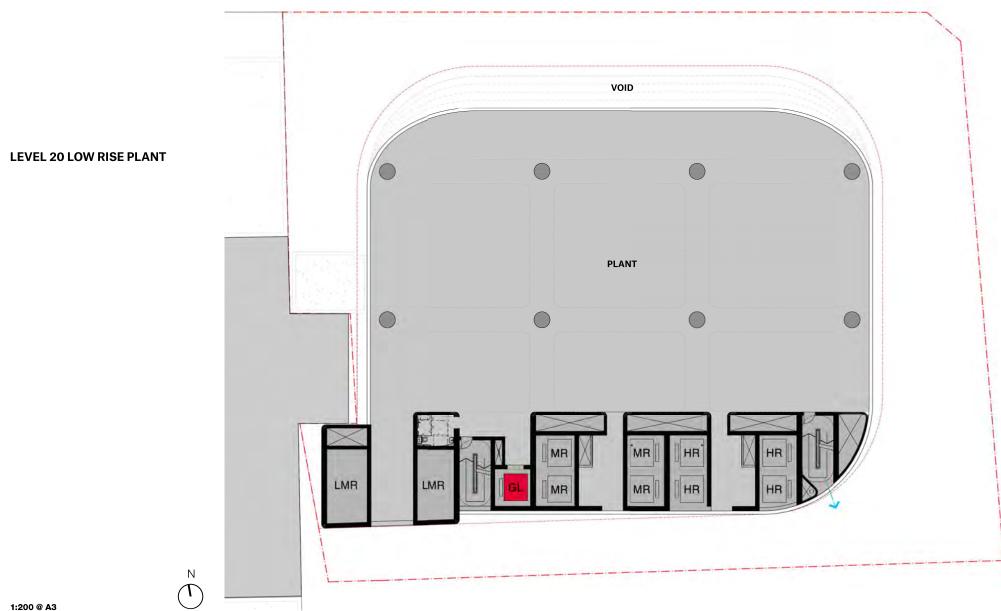
LOW RISE



LEVEL 18 LIFT TRANSFER

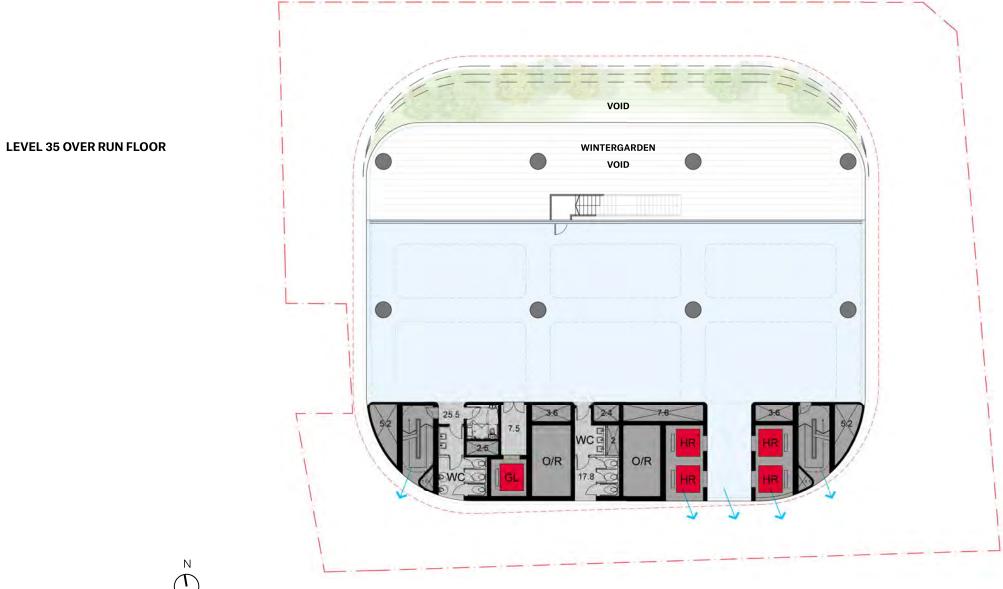


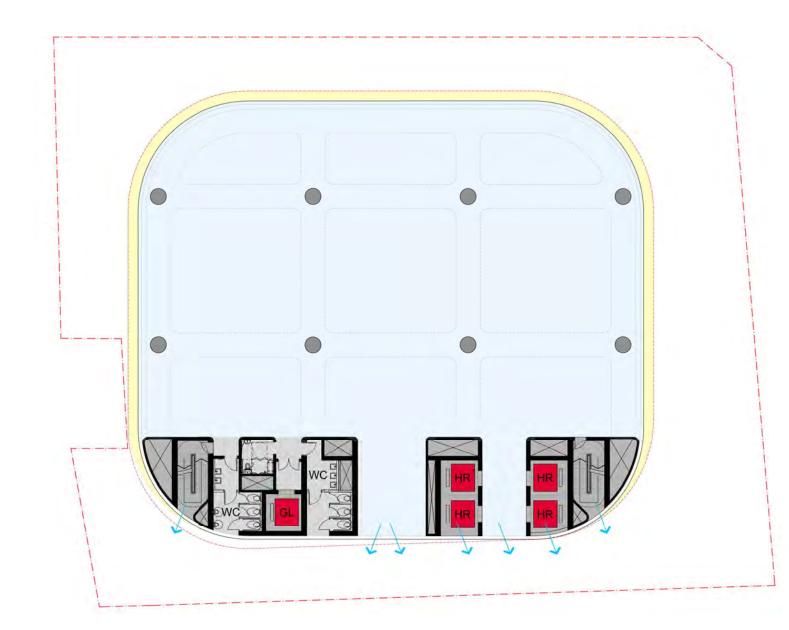
LEVEL 19 TERRACE & WINTERGARDEN VOID



MARCH 2022 | URBAN DESIGN REPORT



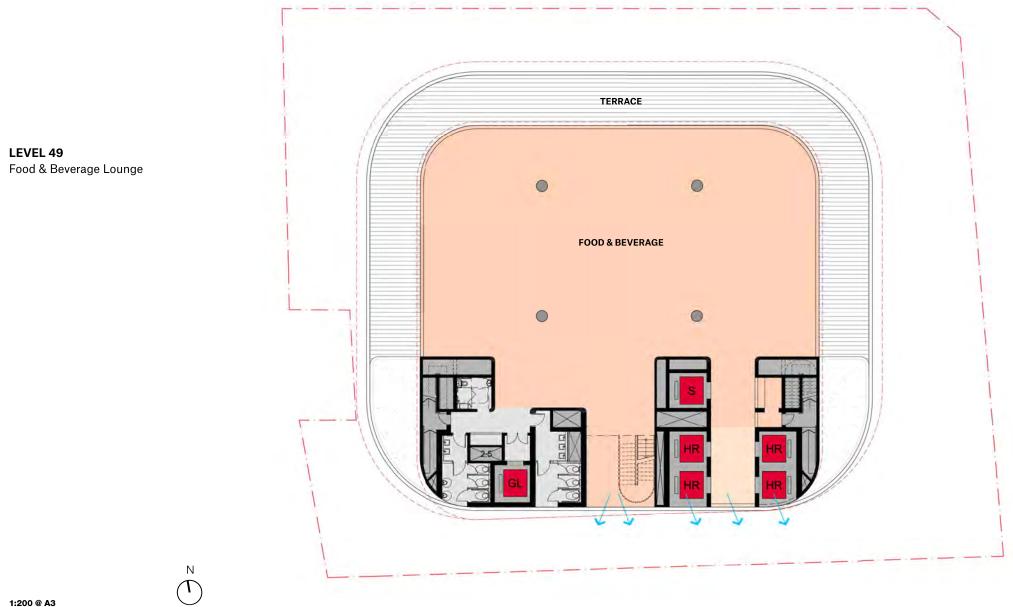


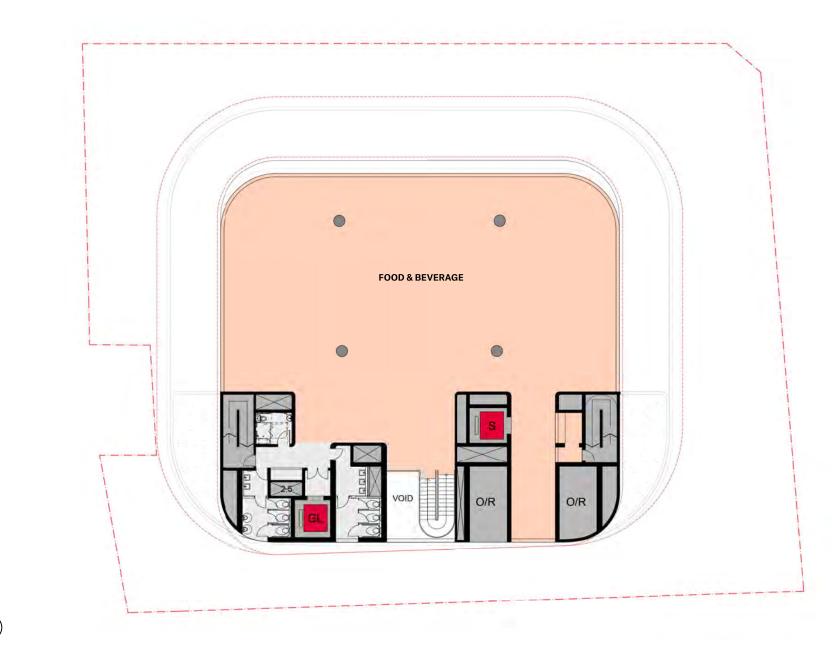


HIGH RISE

MARCH 2022 | URBAN DESIGN REPORT

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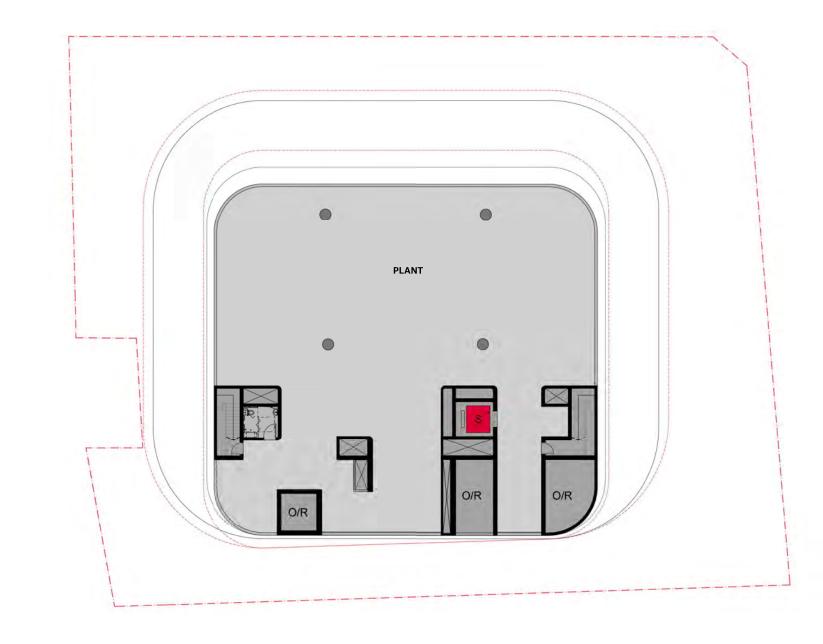




LEVEL 50 Food & Beverage Lounge

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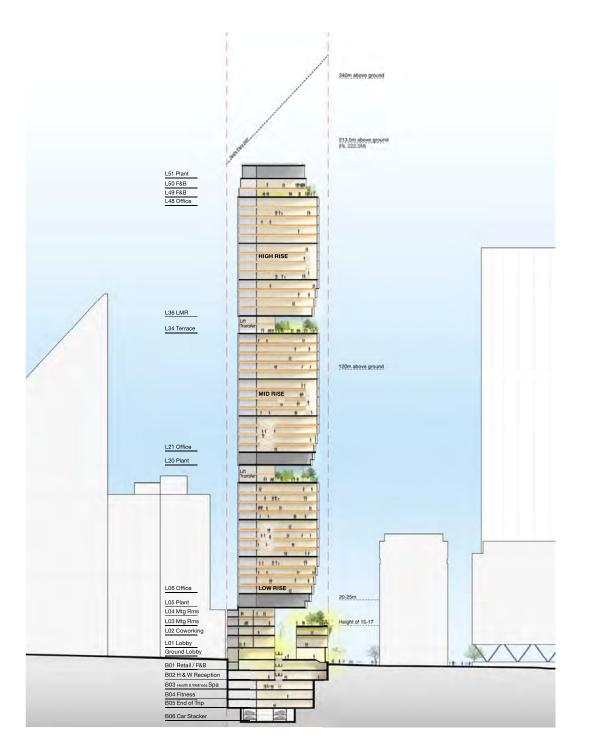
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LEVEL 51 PLANT

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INDICATIVE SECTION

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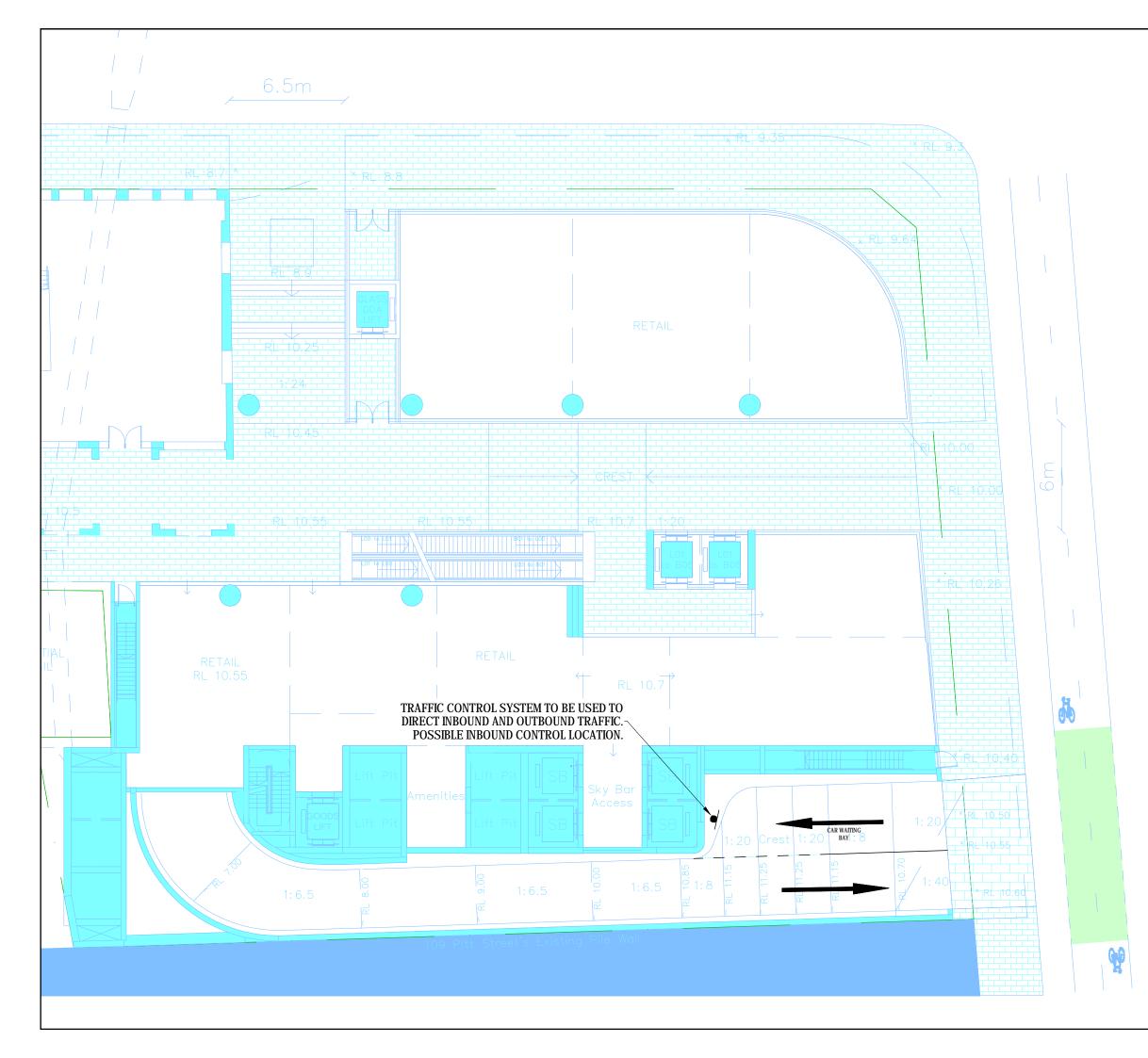
AREAS SCHEDULE

| | | Envelope | | | | Combined AA + FZ GBA | | | | CORE | GFA | | | |
|------------------|---------------------------------------|--|----------|--------------|----------------|----------------------|------------------|--------------|--------------------------------|----------------|----------------|----------------------------|------------|----------------|
| R. L. | DESCRIPTION | | LEVEL | HEIGHT | Area | Volume | layered | Area | Volume layered | Area | Volume | Allowance | GFA | Area |
| | | | | m | m² | m ³ | volume | m² | m ³ volume | m² | m ³ | (Excl. GFA) m ² | | m ² |
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| | | | | | | , | ' roof of 15-17) | | envelope △ / roof of 15-17) | | | 1 | | |
| 222.50 | TOP OF ENVELOPE | Glazing Setback to Hunter St: | | | | | | | | | | | | |
| 214.90 208.90 | Above Plant (Above RL 216.0) PLANT |) 10.50m | 51 | 7.60 6.00 | 567,873 873 | 4,646 5,239 | 6.50 , 1.10 | 567 132 | 4,646 793 | 0 741 | 0 4,446 | | | |
| 205.15 | Lounge Upper Level / Mezza | | 50 | 3.75 | 1,196 , 873 | | 1.05 , 2.70 | | 65 475 layered | 808 | 3,030 | 143 | 78 | 666 |
| 201.40 | Lounge Roof Terrace (2m Bal | | 49 | 3.75 | 1,264 , 1,196 | | 2.80 , 0.95 | | 356 1,544 layered | 840 | 3,152 | 143 | 78 | 698 |
| 197.65 | | | 48 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 193.90 | | | 47 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 190.15 | | | 46 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 186.40 | | | 45 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 182.65 | | | 44 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 178.90 | | | 43 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 175.15 | | | 42 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 171.40 | | 4.75 = 4m + 750mm Façade Zone | 41 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 167.65 | | Glazing Setback to Hunter St: | 40 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 143 | 80 | 1,040 |
| 163.90 160.15 | | 4.75m typical 5.35m △ 0.60m | 39 | 3.75 3.75 | 1,264 | 4,742 | | 82 102 | 309 380 layered | 1,183 | 4,433 | 143 143 | 80 80 | 1,040 |
| 160.15 156.40 | HIGH RISE OFFICE | 5.35m △ 0.60m 5.95m △ 0.60m | 38 37 | 3.75 | 1,264 1,264 | 4,742 4,742 | | 102 123 | 380 layered 459 layered | 1,162 1,142 | 4,361 4,283 | 143 143 | 80 80 | 1,020 999 |
| 156.40 | Motor Room Level | 5.95m △ 0.60m 6.55m △ 0.60m | 37 | 3.75 | 1,264 | 4,742 | | 123 | 537 layered | 1,142 | 4,283 | 143 | 80 78 | 999 |
| 148.90 | Lift Over Run / Void | 9.00m 4 2.45m | 35 | 3.75 | 1,264 | 4,742 | | 507 | 1,698 layered | 757 | 3,043 | 174 | 78 | 563 |
| 145.15 | Terrace / Lift Tranfer Level | 9.00m & 0.00m | 34 | 3.75 | 1,264 | 4,742 | | 507 | 1,901 | 757 | 2,840 | 174 | 102 | 570 |
| 141.40 | | | 33 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 137.65 | | | 32 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 133.90 | | | 31 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 130.15 | | | 30 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 126.40 | | | 29 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 122.65 | | | 28 27 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 118.90 115.15 | | | 27 | 3.75 3.75 | 1,264 1,264 | 4,742 4,742 | | 82 82 | 309 309 | 1,183 1,183 | 4,433 4,433 | 183 183 | 78 78 | 999 999 |
| 111.40 | | 4.75 = 4m + 750mm Facade Zone | 25 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 107.65 | | Glazing Setback to Hunter St: | 24 | 3.75 | 1,264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 103.90 | | 4.75m typical | 23 | 3.75 | 1.264 | 4,742 | | 82 | 309 | 1,183 | 4,433 | 183 | 78 | 999 |
| 100.15 | MID RISE OFFICE | 5.35m △ 0.60m | 22 | 3.75 | 1,264 | 4,742 | | 102 | 380 layered | 1,162 | 4,361 | 183 | 78 | 979 |
| 96.40 | Fire stair transfer level | 5.95m 🛆 0.60m | 21 | 3.75 | 1,264 | 4,742 | | 123 | 459 layered | 1,142 | 4,283 | 193 | 90 | 949 |
| 90.40 | | △ 0.60m / 7.15m △ 0.60m | 20 | 6.00 | 1,287 | 7,725 | layered | 153 | 904 layered | 1,134 | 6,821 | 0.00 | 447 | 504 |
| 86.65 | Meeting Rooms | 9.00m ∠ 1.85m | 19 18 | 3.75 | 1,311 | 4,998 | layered | 504 504 | 1,688 layered | 807 837 | 3,310 | 263 268 | 117 117 | 591 591 |
| 82.90 79.15 | Terrace / Lift Tranfer Level | 9.00m 🛆 0.00m | 18 | 3.75 3.75 | 1,341 1,341 | 5,027 5,027 | | 504 82 | 1,890 layered 309 | 1,259 | 3,137 4,718 | 268 | 79 | 1.032 |
| 75.40 | | | 16 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 71.65 | | | 15 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 67.90 | | | 14 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 64.15 | LOW RISE OFFICE | | 13 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 60.40 | | | 12 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 56.65 | | 4.75 = 4m + 750mm Façade Zone | 11 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 52.90 | | Glazing Setback to Hunter St: | 10 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 49.15 | | 4.75m typical | 9 | 3.75 | 1,341 | 5,027 | | 82 | 309 | 1,259 | 4,718 | 223 | 79 | 1,032 |
| 45.40 | | 5.25m △ 0.50m | 8 | 3.75 | 1,341 | 5,027 | | 103 | 383 layered | 1,238 | 4,644 | 223 | 79 | 1,015 |
| 41.65 | | 6.00m / 0.75m | 7 | 3.75 | 1,341 | 5,027 | | 128 | 478 layered | 1,212 | 4,549 | 223 | 79 | 989 |
| 37.90 | | 6.90m △ 0.90m | 6 | 3.75 | 1,341 | 5,027 | | 159 | 593 layered | 1,181 | 4,434 | 223 | 79 | 958 |
| 31.90 | routant func | △ 1.10m / 9.50m △ 1.50m | 5 | 6.00 | 1,341 | 7,737 | 1 | 188 | 1,532 layered | 1,153 | 6,204 | | | 601 |
| 28.15 | Podium Level 04 | Meeting Rooms | 4 | 3.75 | 1,622 | 6,526 | layered | 766 | 2,746 layered | 856 | 3,780 | | | 621 |
| 24.40 20.40 | Terrace / L03 Podium Level 02 | Hunter St Podium Roof Terrace Co-working | 3 | 3.75 4.00 | 2,101 2,101 | 6,653 8,262 | layered | 1,186 513 | 2,939 layered 2.054 | 915 1,587 | 3,714 6,209 | | | 677 1.378 |
| 20.40 15.40 | Podium Level 02 Podium Level 01 | Co-working Commercial Lobby | 2 | 4.00 5.00 | 2,101 2,101 | 8,262 10,609 | | 513 554 | 2,054 2,772 layered | 1,587 | 6,209 7,837 | | | 1,378 |
| 15.40 | Ground Level | Laneway Retail | GL | 5.00 | 2,101 | 10,609 | lavered | 584 584 | 2,772 layered 2,921 layered | 1,546 | 7,837 | | | 1,352 |
| 6.10 | Basement B01 | Food Market & Bligh Metro / Loading | B01 | 0.00 | 1,647 | 10,000 | layered | 504 | Z,UZ I layelleu | 1,317 | 7,000 | | | 555 |
| 2.00 | Basement B02 | Health + Wellness Reception | B02 | | 1,647 | | | | | 1,775 | | | | 687 |
| -2.00 | Basement B03 | Health + Wellness Treatments & Studios | B03 | | 1,647 | | | | | 1,549 | | | | 1,335 |
| -6.00 | Basement B04 | Health + Wellness Gym | B04 | | 1,647 | | | | | 1,549 | | | | 1,335 |
| -9.50 | Basement B05 | End of Trip | B05 | | 1,647 | | | | | 1,549 | | | | 1,335 |
| -15.00 | Basement B06 | Commercial Car Stacker | B06 | | 808 | | | | | 952 | | | | |
| | | zone is RL 10.40, and lowest existing footpath RL is RL 8.70 | | | | | | | | | | | | |
| | ` | | | | Envelo | pe | | Façade Z | Zone + Articulation | GBA | | CORE A. | FSR | GFA |
| | | | | | | • | | , | | | | | | |

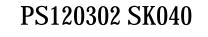
| | Envelope | | Façade Zone + Articulation | | GBA | | CORE A. | FSR | GFA | |
|-----------------------------------|---------------|-------------------|----------------------------------|-------------------|---------------------------------|-------------------------------|----------------------------------|---------------|---------|-----------|
| Site Area: 2,108.1 m ² | Above Ground | Area 70.693 m² | Volume 279.300 m ³ | Area 10.912 m² | Volume 43.442 m ³ | Area 59 781 m ² | Volume 235,769 m ³ | Area 8.127 | 22.43:1 | 47,284 m² |
| | | , 0,000 m | 2,0,000 11 | iojone in | 16% | 00,001 111 | 200,000 111 | 16% | | 17,20111 |
| | Below Ground: | | | | | | | uding EoT | 1.86:1 | 3,912 m² |
| | | | | | | 9,149 m² | Inclu | uding EoT: | 2.49:1 | 5,247 m² |
| | Total: | | | | | 68,930 m² | Abov | e & Below: | 24.92:1 | 52,531 m² |

APPENDIX B SWEPT PATH DIAGRAMS



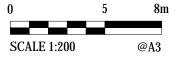


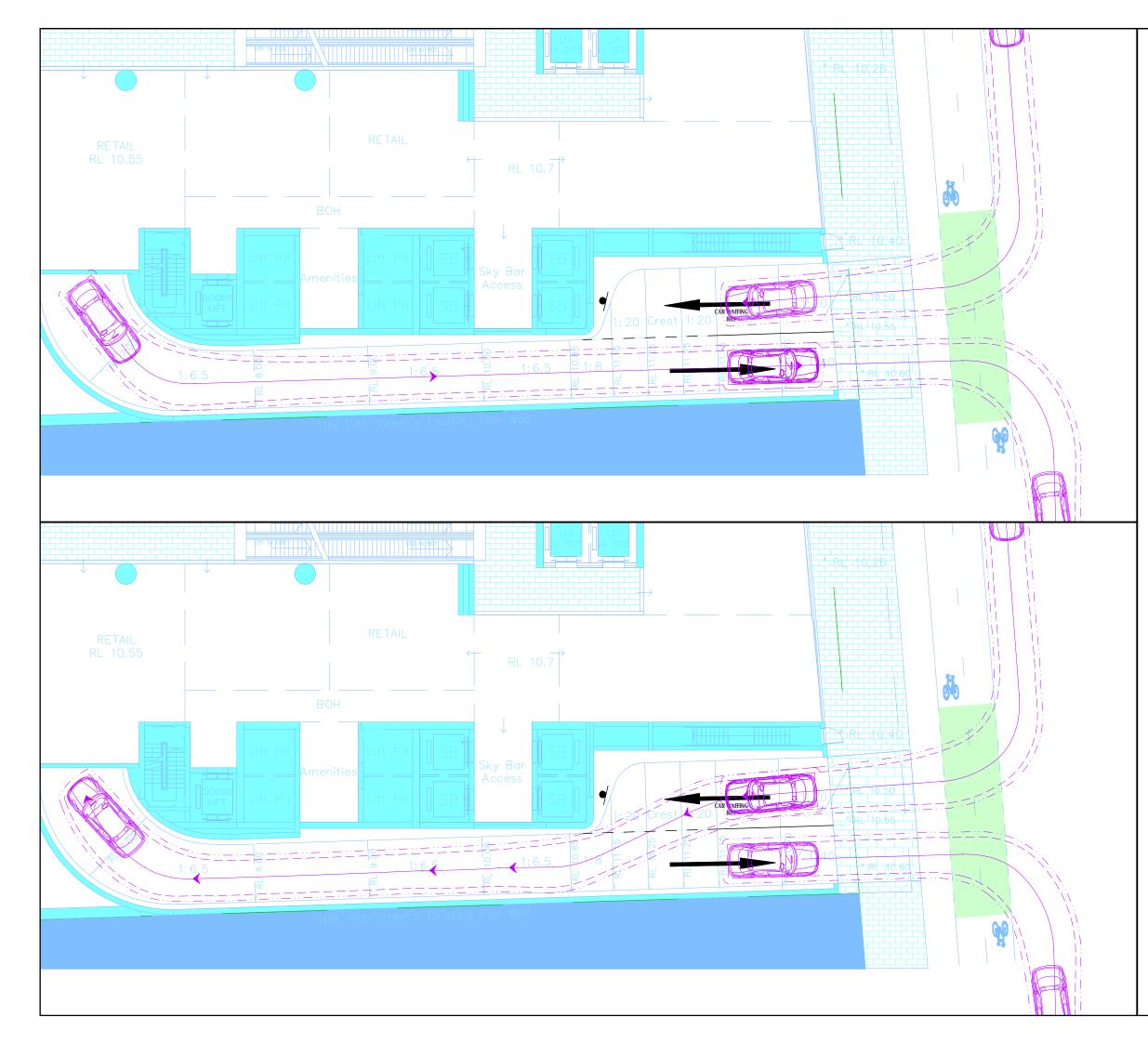




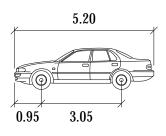
GROUND LEVEL GENERAL DESIGN COMMENTS

С.Н. 10.02.2022



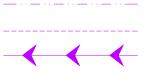






| B99 | meters |
|-------------------|---------|
| Width | : 1.94 |
| Track | : 1.84 |
| Lock to Lock Time | : 6.00 |
| Steering Angle | : 33.50 |

VEHICLE LEGEND



 \square

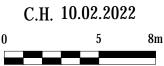
B99CAR 300mm CLEARANCE B99CAR OVERHANG

B99CAR CENTRELINE

AUSTROADS B99CAR

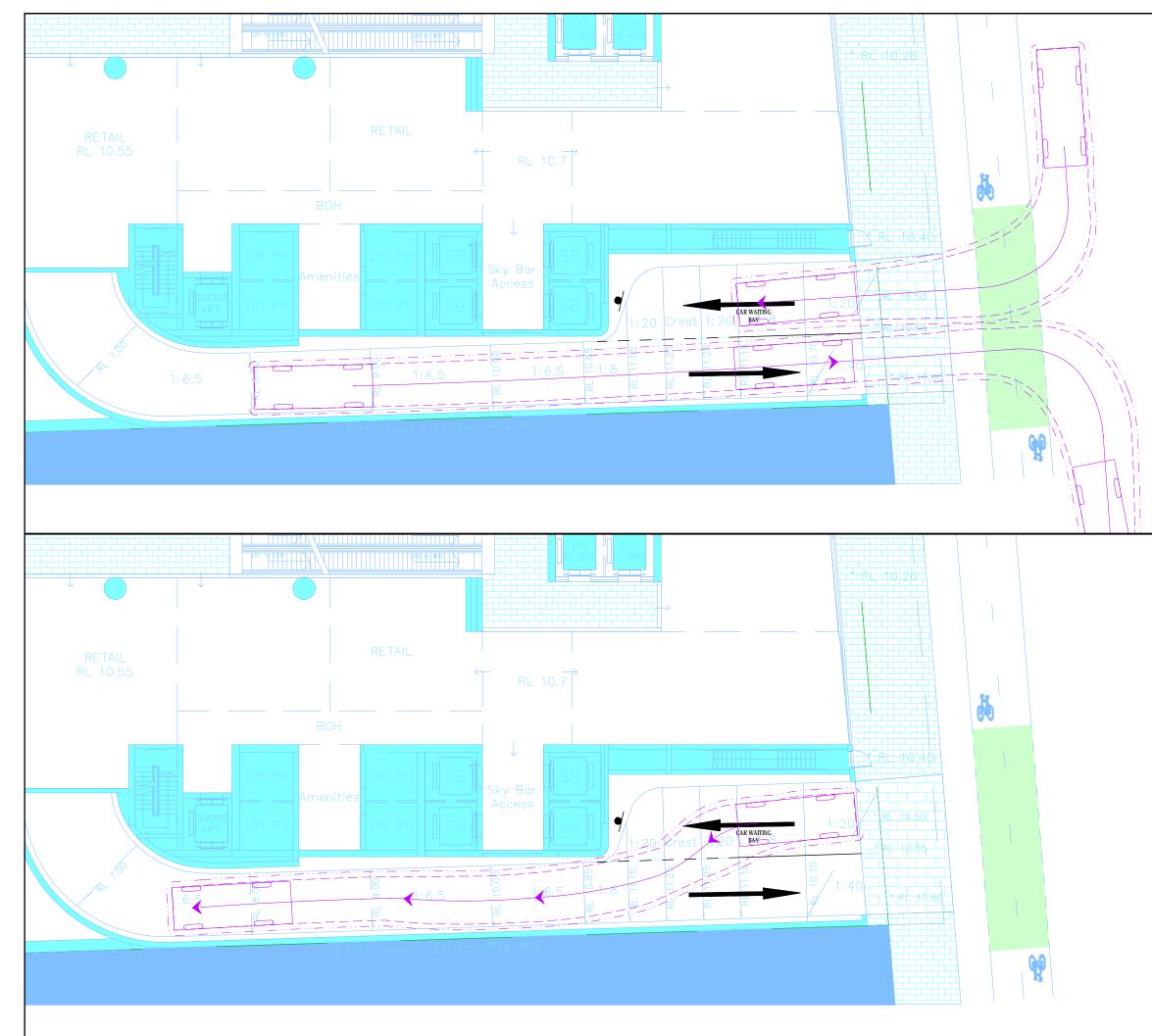
PS120302 SK041

GROUND LEVEL B99 CAR - SITE INGRESS/EGRESS

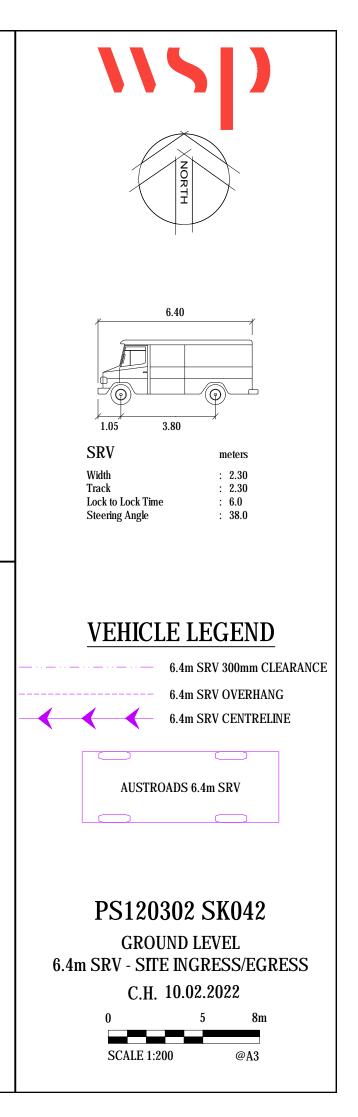


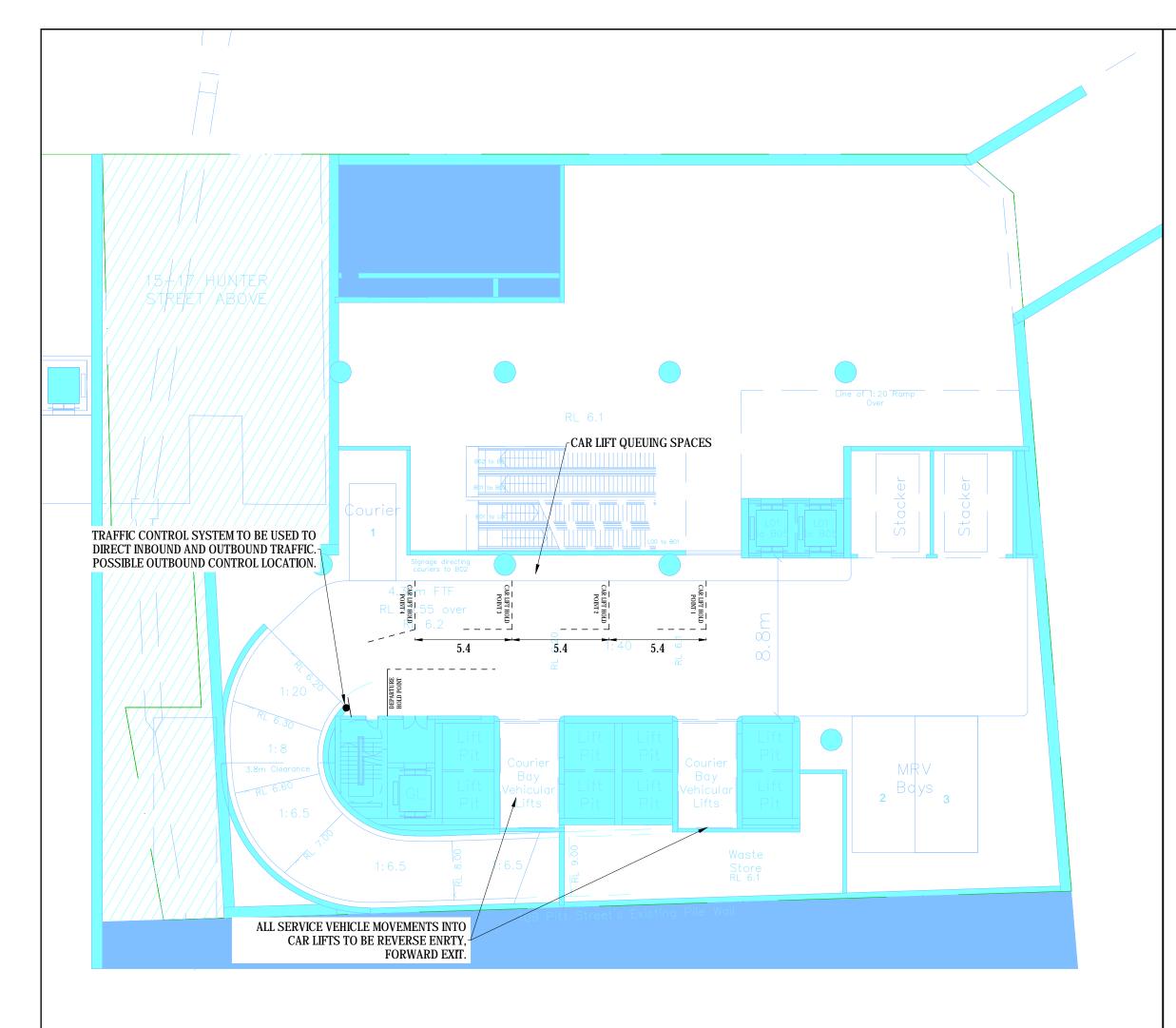
SCALE 1:200

@A3

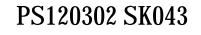


GENERAL NOTE: 300mm VEHICLE CLEARANCE USED DUE TO LOW SPEED ENVIRONMENT





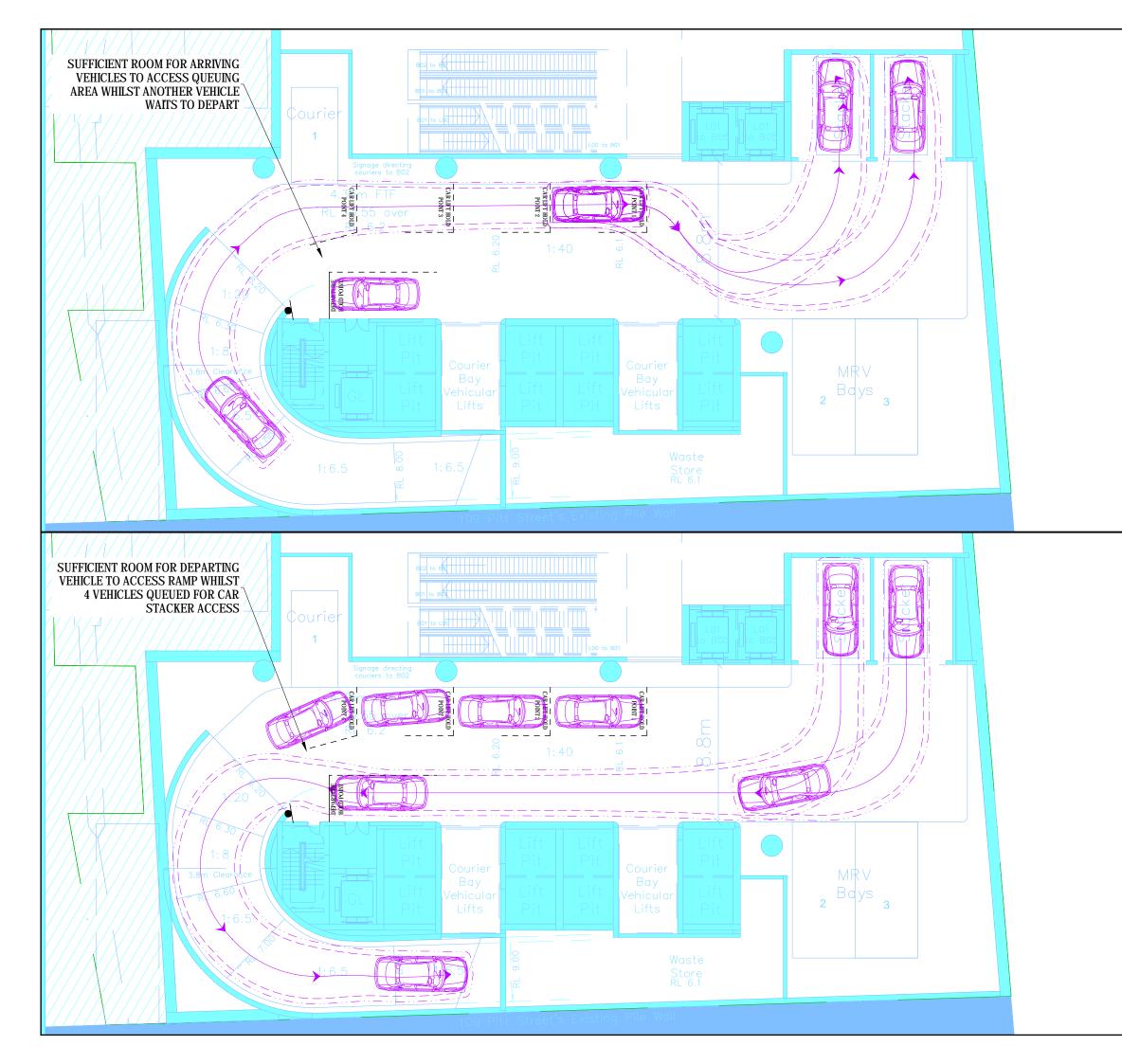




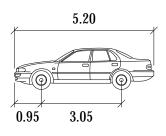
BASEMENT LEVEL 1 GENERAL DESIGN COMMENTS

С.Н. 10.02.2022



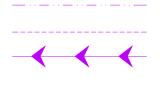






| B99 | meters |
|-------------------|---------|
| Width | : 1.94 |
| Track | : 1.84 |
| Lock to Lock Time | : 6.00 |
| Steering Angle | : 33.50 |

VEHICLE LEGEND



 \square

B99CAR 300mm CLEARANCE B99CAR OVERHANG

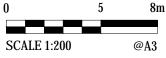
B99CAR CENTRELINE

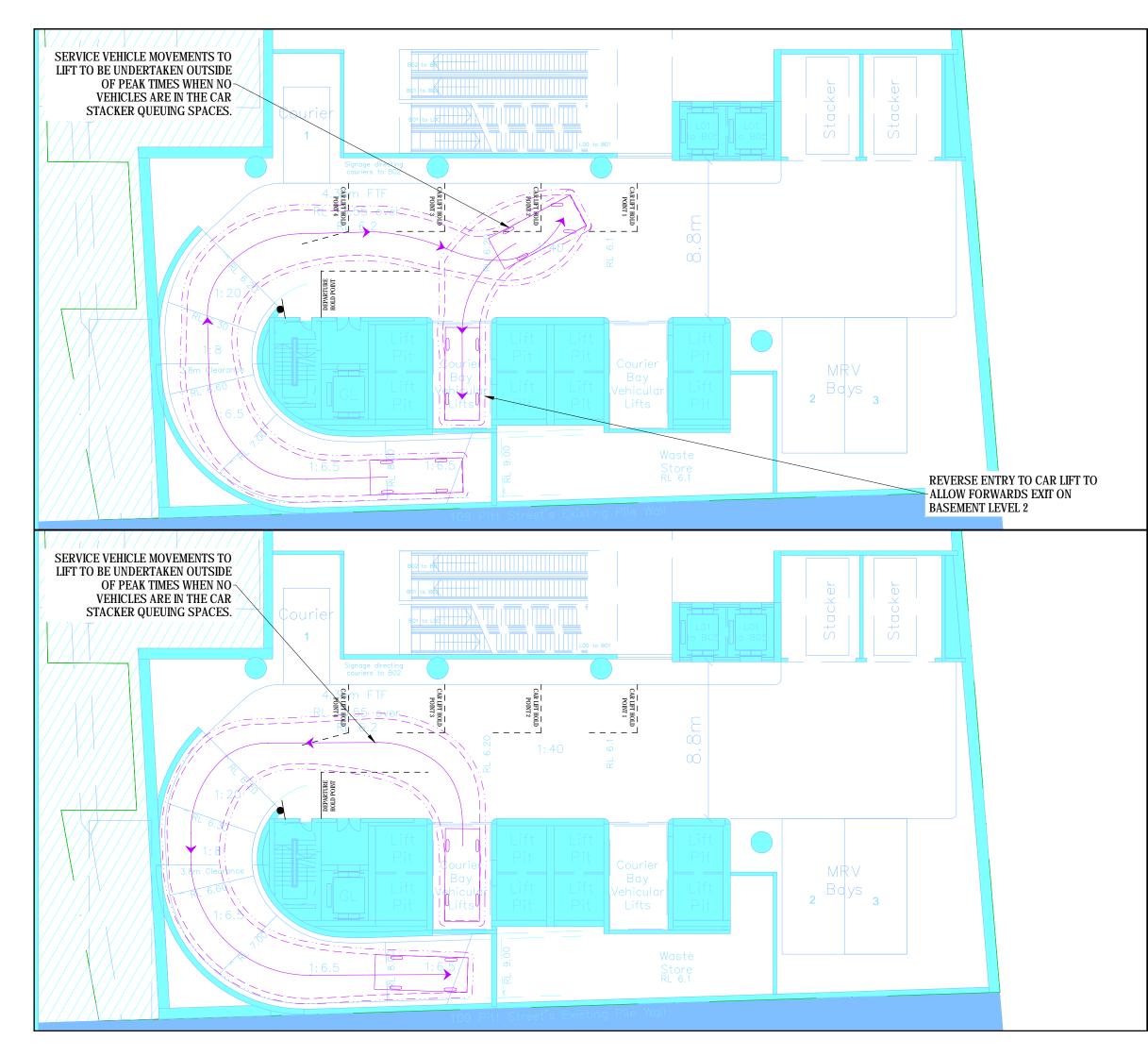
AUSTROADS B99CAR

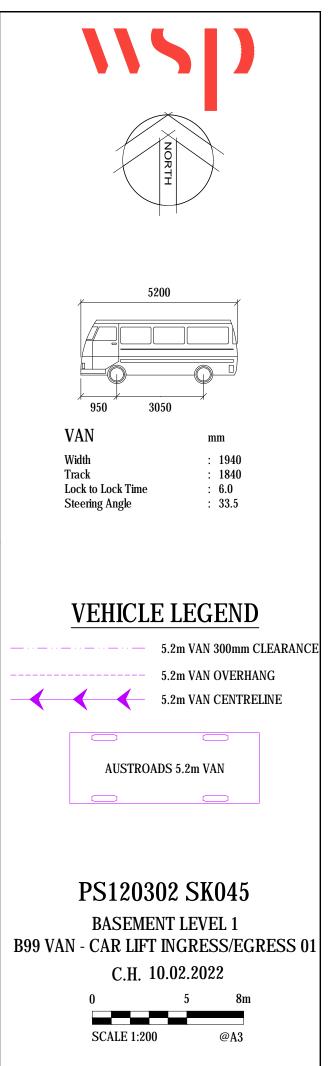
PS120302 SK044

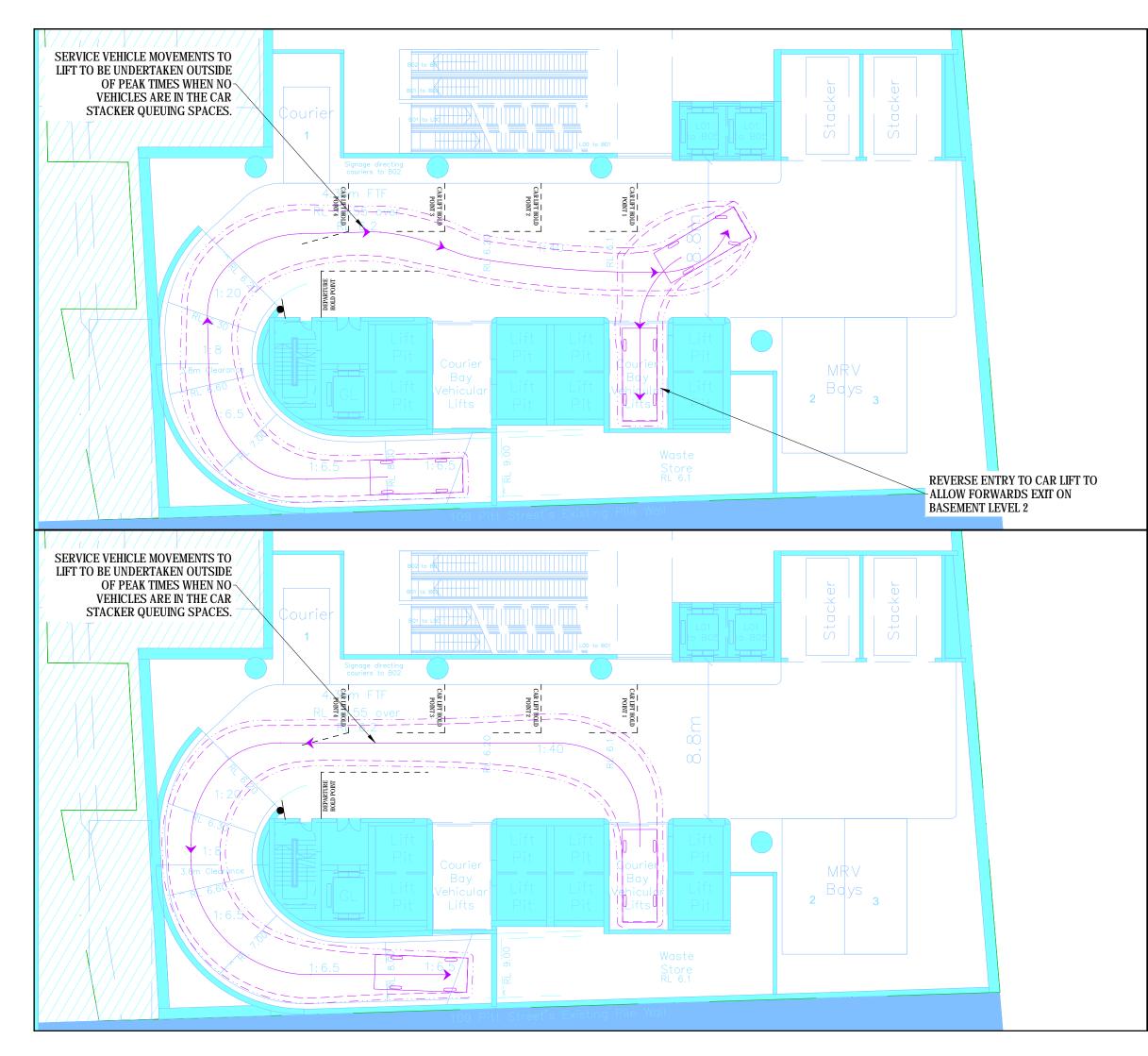
BASEMENT LEVEL 1 B99 - CAR STACKER INGRESS/EGRESS

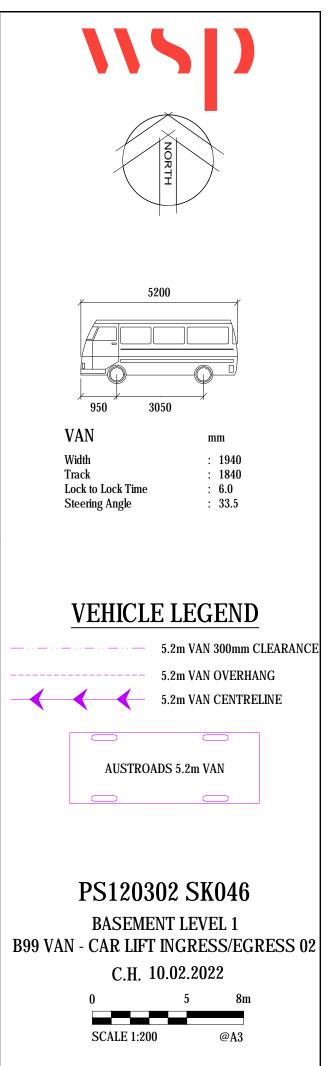
С.Н. 10.02.2022

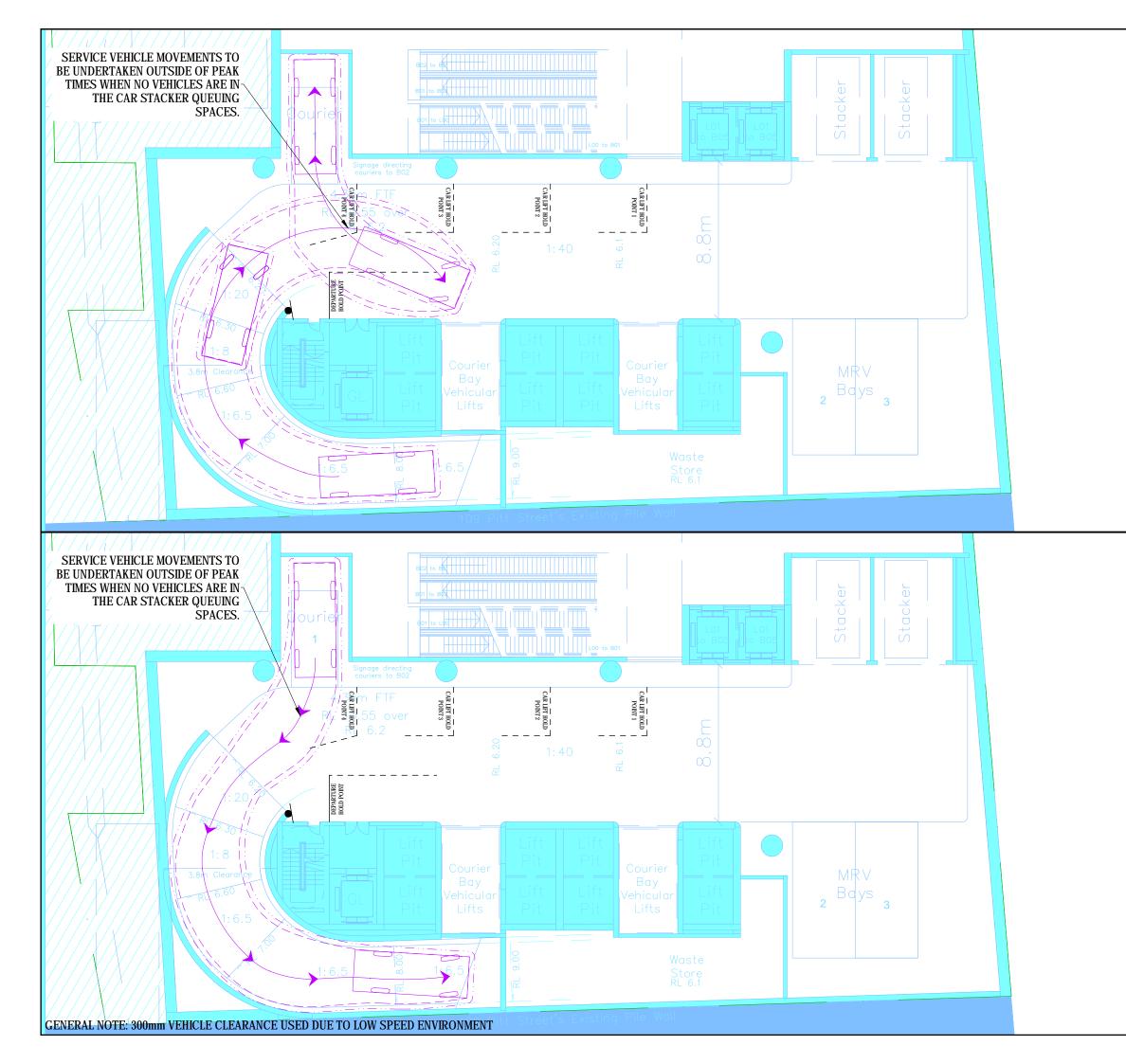


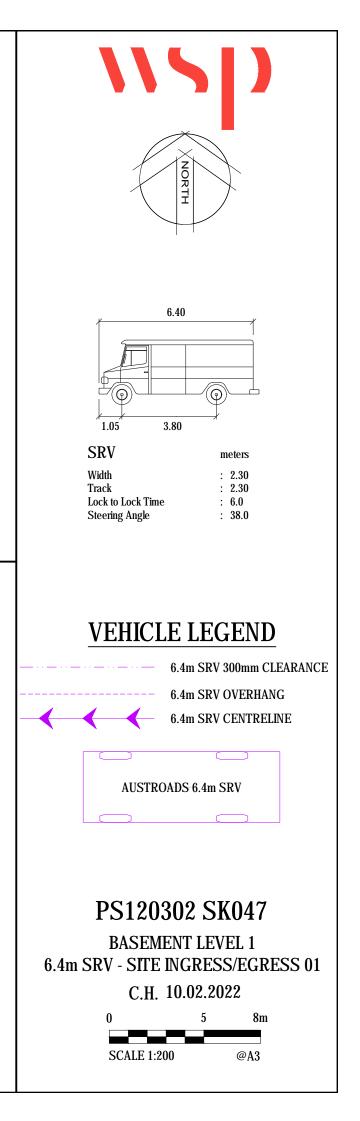


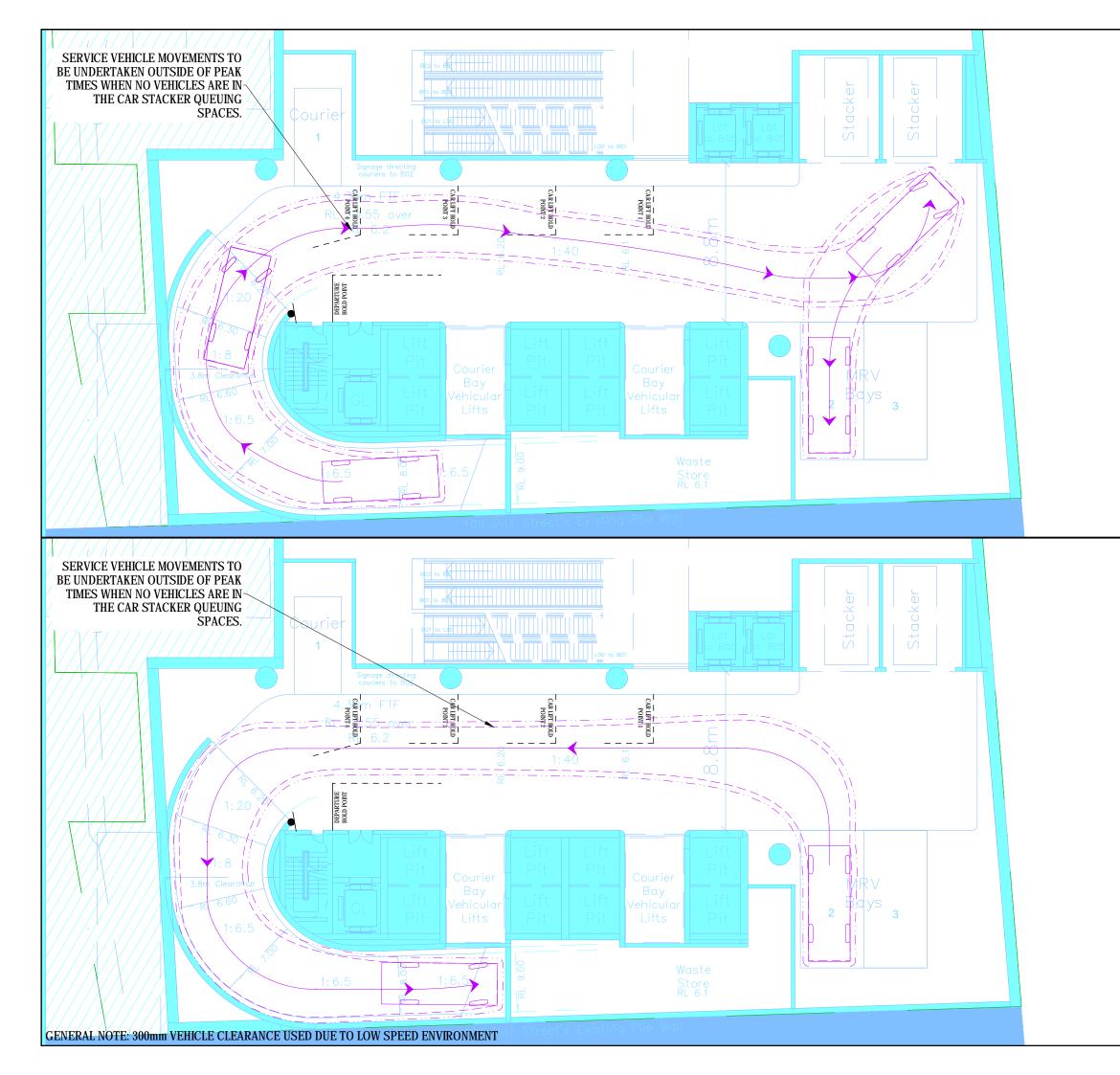


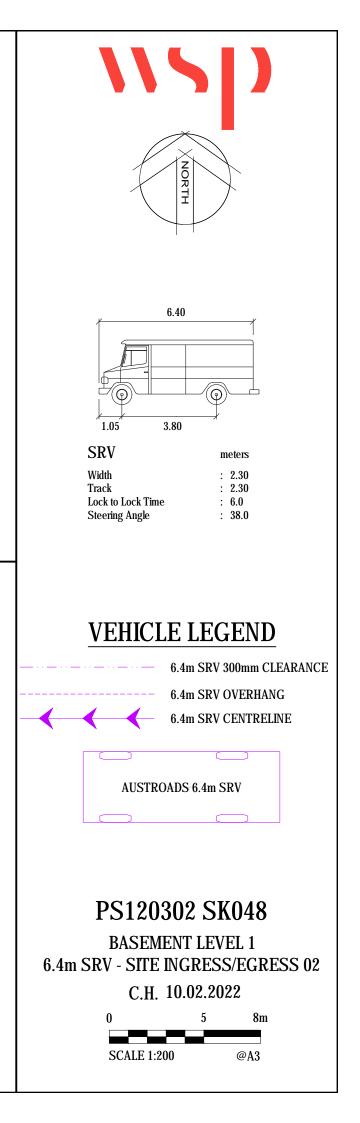


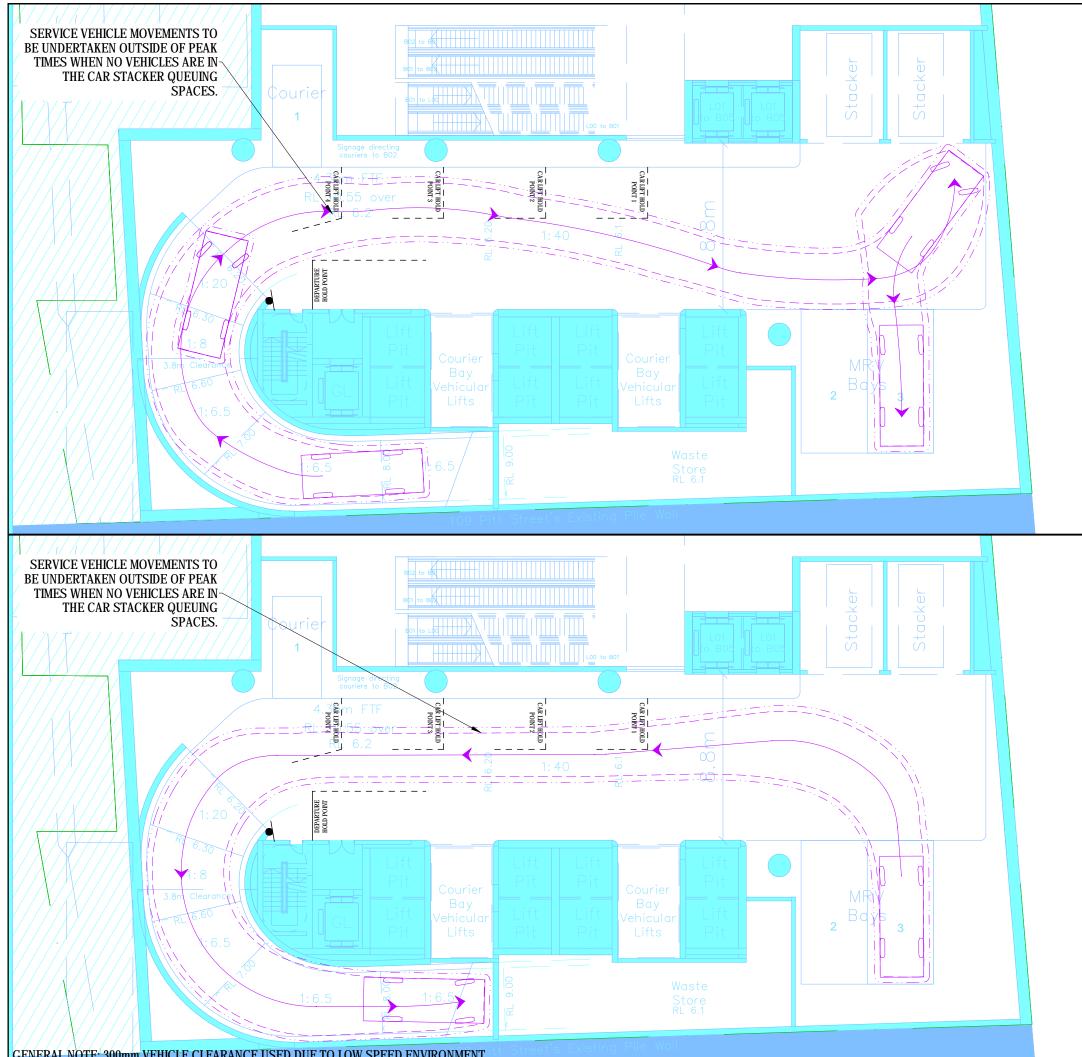




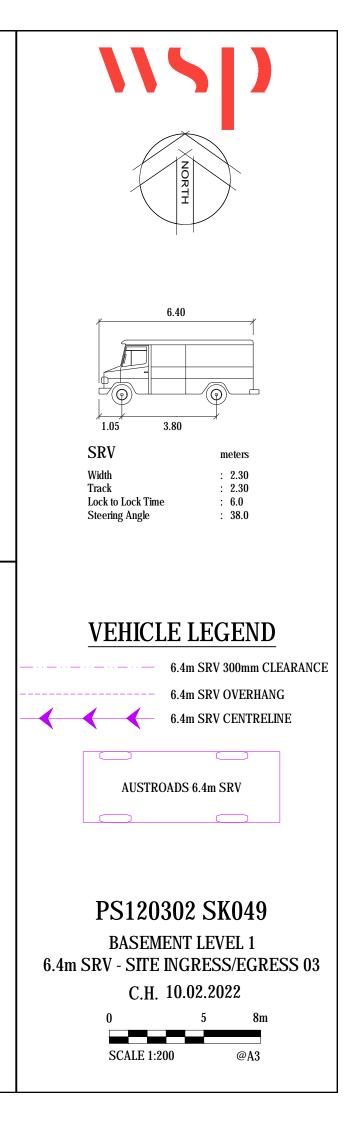


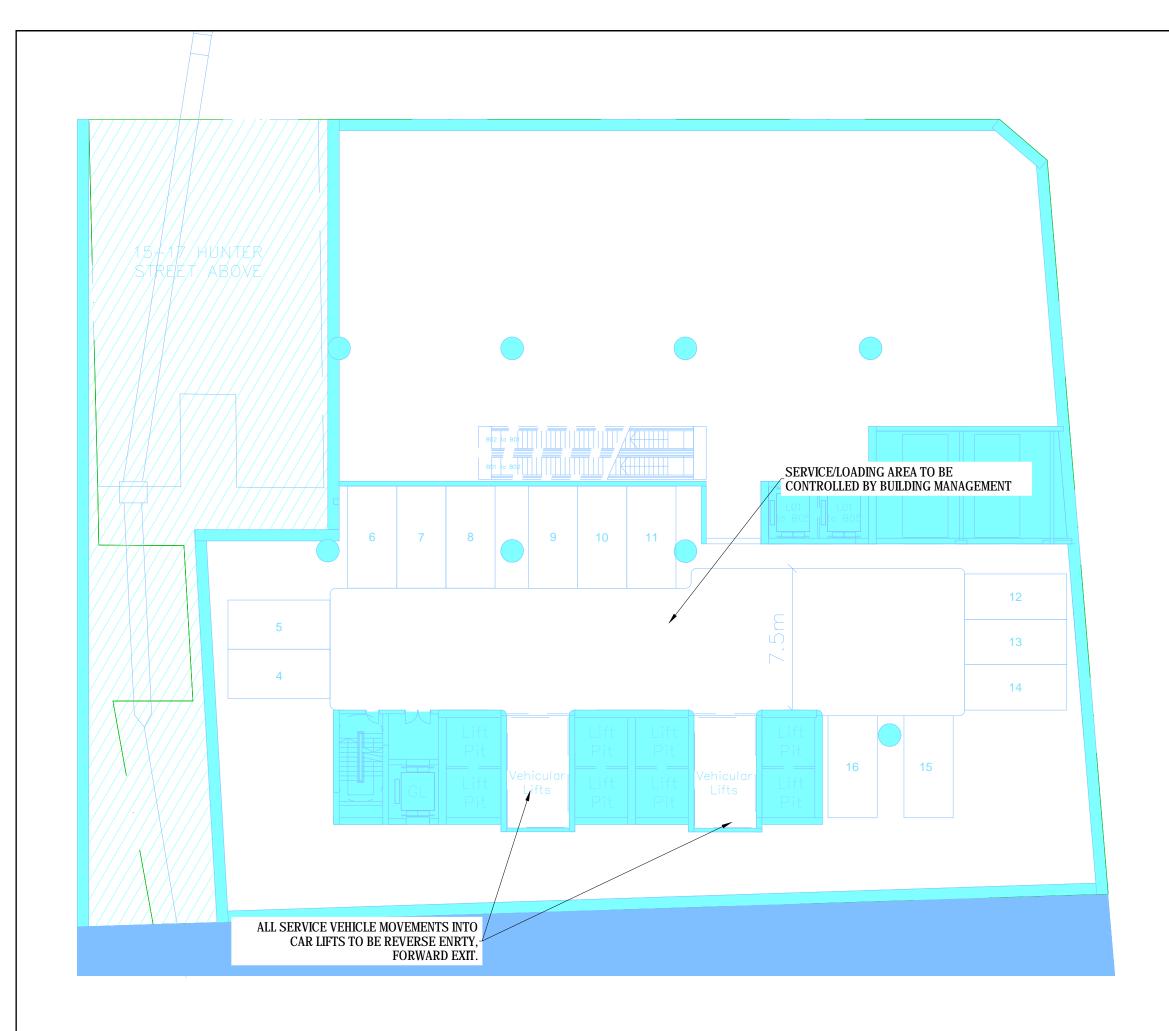




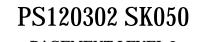


GENERAL NOTE: 300mm VEHICLE CLEARANCE USED DUE TO LOW SPEED ENVIRONMENT







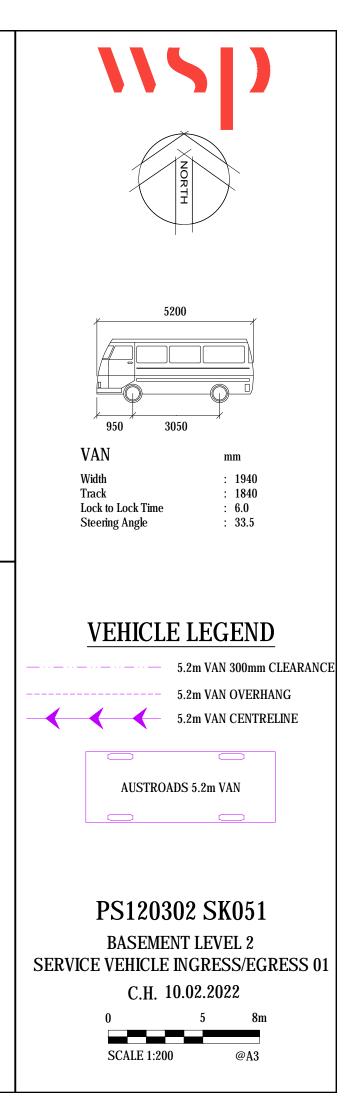


BASEMENT LEVEL 2 GENERAL DESIGN COMMENTS

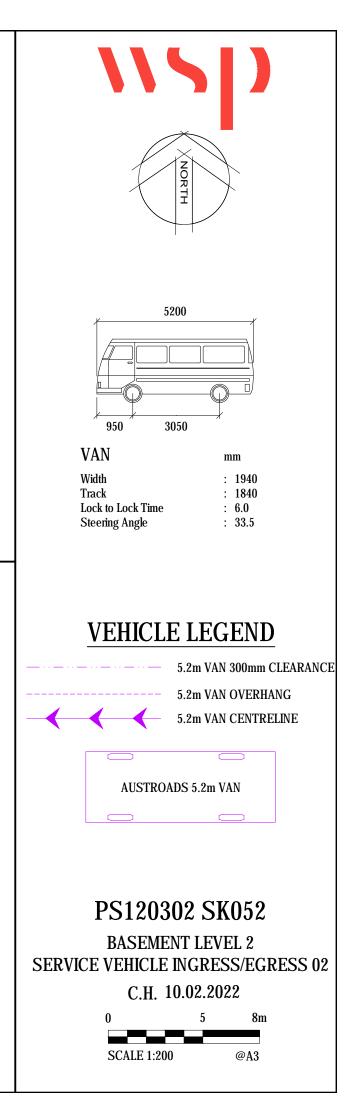
С.Н. 10.02.2022

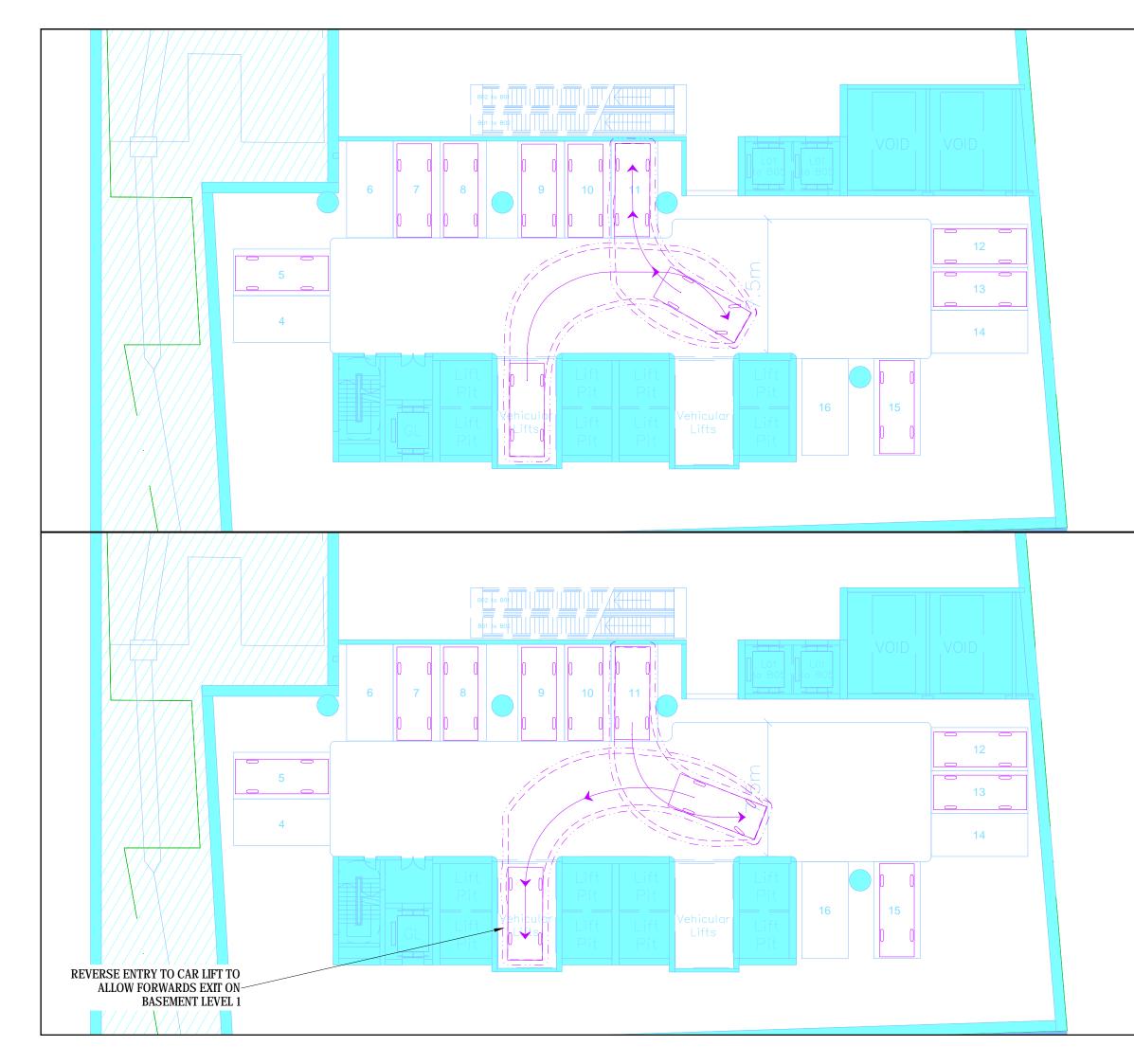


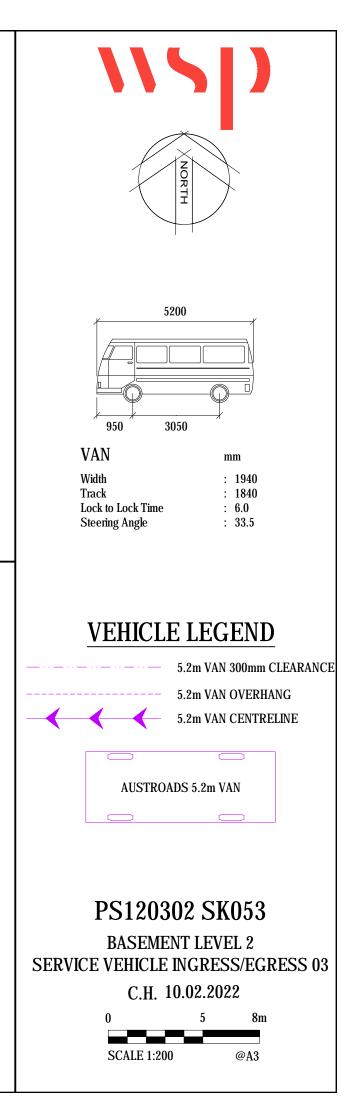




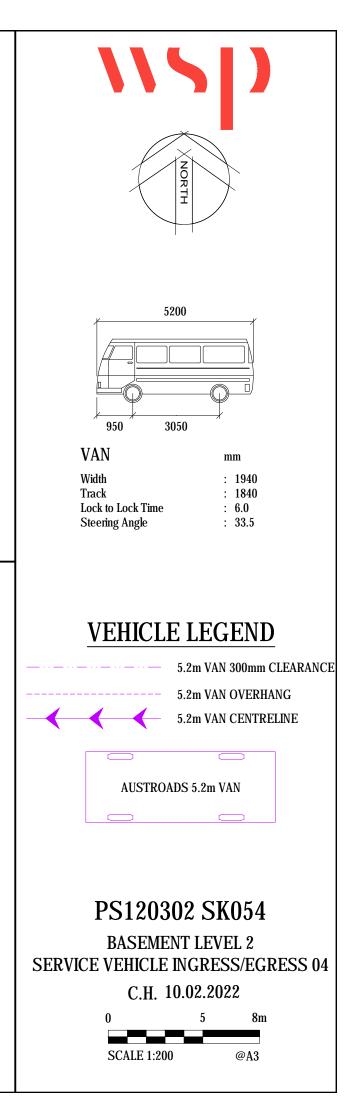




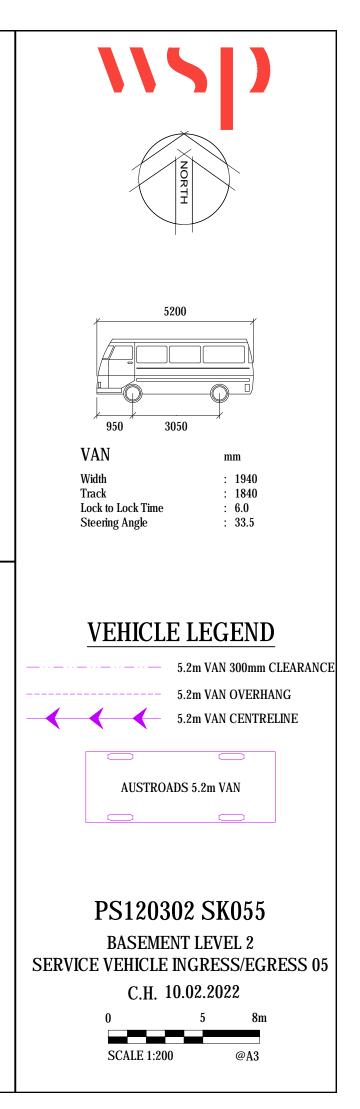


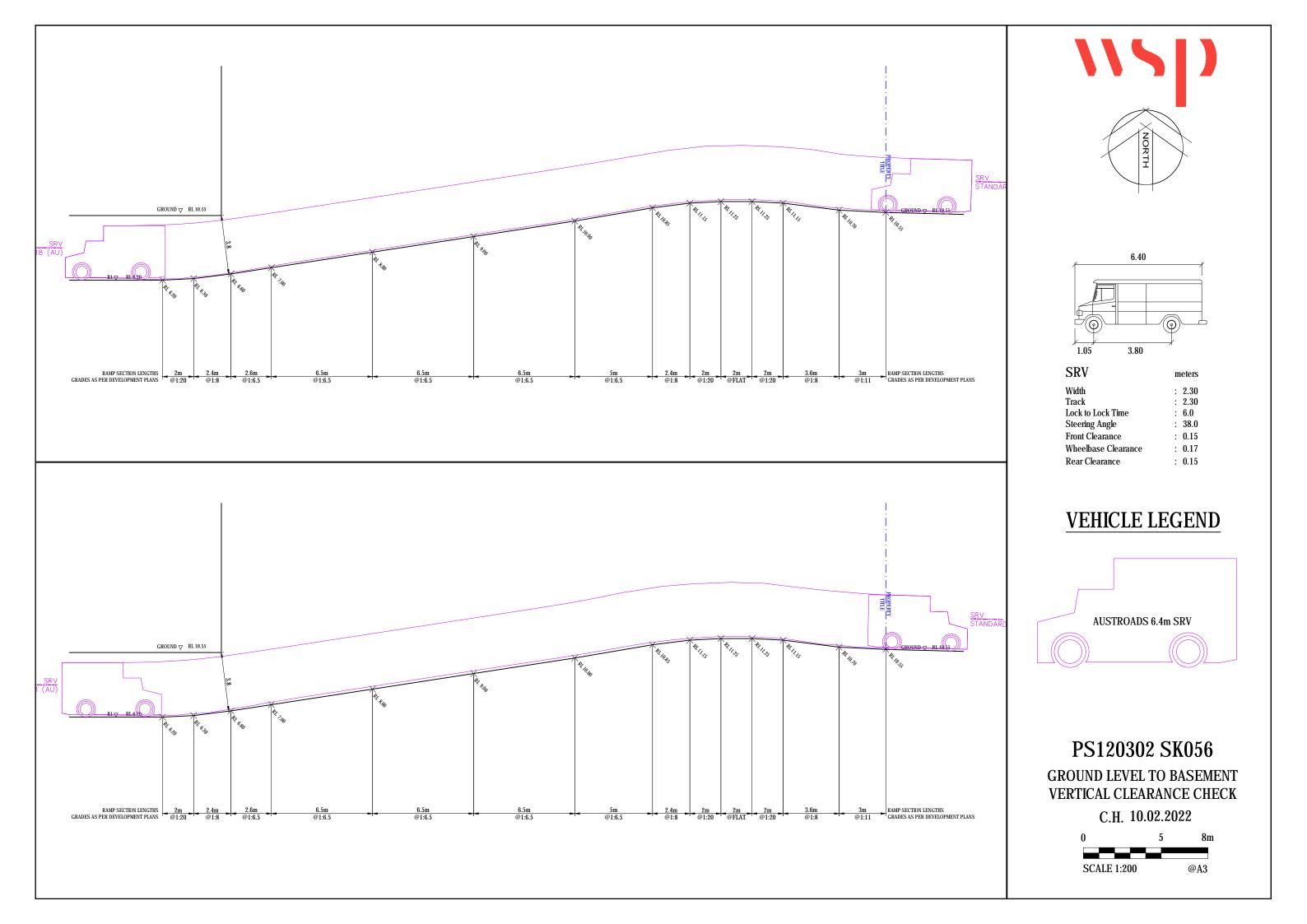




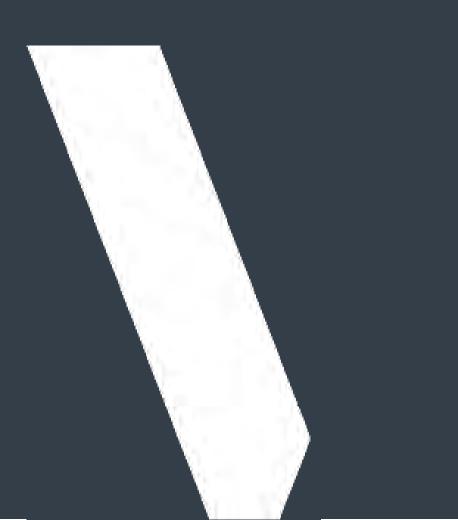








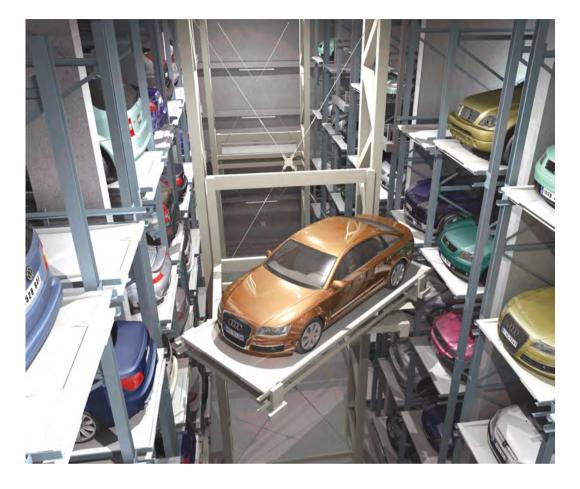
APPENDIX C MECHANICAL CAR STACKER AND CAR LIFT SPECIFICATIONS



Data Sheet WÖHR MULTIPARKER 710/720/730



Please observe the separate Technical Notes!



The Multiparker utilizes clever and smart the available surface and provides parking space with different variants.

- As tower and/or pit version
- Automatically operated parking systems for 10 to more than 100 cars
- Variable system length available
- Multiple row arrangement with up to 2 parking rows behind each other
- Well adaptable to individual project requirements
- Safe for user and cars (no narrow ramps, dark stairs, no damage caused by theft or vandalism)
- Customizable arrangement of transfer area
- Very fast access time by use of a quick-change pallet system

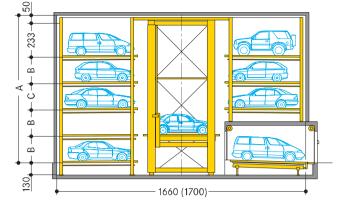
- No ramps and driving lanes
- No costly illumination and ventilation necessary
- Different car heights possible, e.g. Vans, SUVs
- For car weight up to 2.5 t, higher loads are possible after consultation with WÖHR
- Easy operation with several control options, e.g. transponder chip or remote control
- Suitable for apartment- and office buildings and for public parking
- Following the idea of "Green Parking"

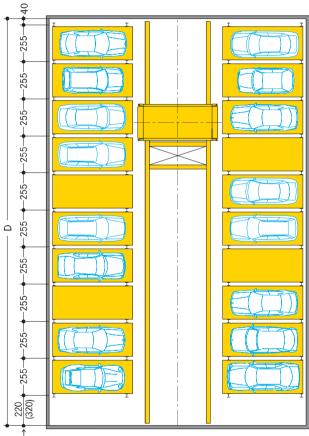
Multiparker 710 | Tower system for 2–8 parking levels

- Parking system for 2–8 parking levels as tower variant
- Linear expansion variable (see dimension D on table below)
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)

60

- Quick-change pallet system = short access times
- Integrated turning device possible (option)

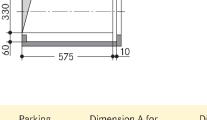




L Dimensions for pallet width 230

() Dimensions in brackets for storage and retrieval unit with turning device $% \left({{{\bf{r}}_{{\rm{s}}}}} \right)$

For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.



| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars | |
|-------------------|-------------------------------------|-------------------------------------|--|
| 2 | 476 | 516 | |
| 3 | 689 | 769 | |
| 4 | 882 | 1002 | |
| 5 | 1075 | 1235 | |
| 6 | 1288 | 1488 | |
| 7 | 1481 | 1721 | |
| 8 | 1674 | 1954 | |
| | | | |

| Car height | Dimension B | Dimension C |
|------------|-------------|-------------|
| 160 | 193 | 213 |
| 185 | 218 | 238 |
| 200 | 233 | 253 |

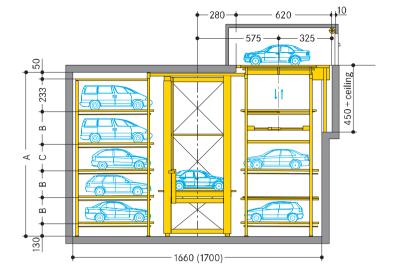
| Parking places per level* | Pallet width 230 Grid width 255 cm Length D | |
|------------------------------|---|--|
| 12 | 1790 | |
| 14 | 2045 | |
| 16 | 2300 | |
| 18 | 2555 | |
| 20 | 2810 | |
| 22 | 3065 | |
| 24 | 3320 | |
| 26 | 3555 | |
| 28 | 3830 | |
| 30 | 4085 | |
| 32 | 4340 | |
| 34 | 4595 | |
| 36 | 4850 | |
| 38 | 5105 | |
| 40 | 5360 | |
| | | |

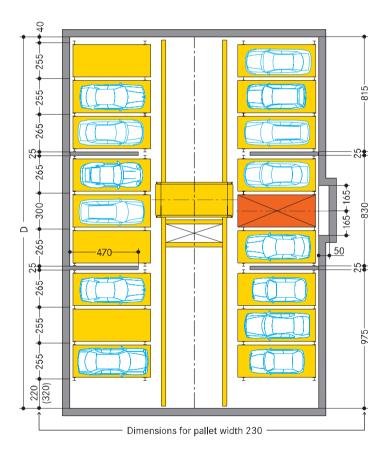
* The number of parking places depends on number and arrangement of transfer areas

Multiparker 710 | Shaft system for 2–8 parking levels

- Parking system for 2–8 parking levels as shaft variant
- Linear expansion variable (see dimension D on table below)
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)

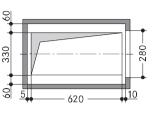
Transfer area (dimensions without turning device)





() Dimensions in brackets for storage and retrieval unit with turning device

For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.



| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|-------------------|-------------------------------------|-------------------------------------|
| 2 | 606 | 646 |
| 3 | 819 | 899 |
| 4 | 1012 | 1132 |
| 5 | 1205 | 1365 |
| 6 | 1418 | 1618 |
| 7 | 1611 | 1851 |
| 8 | 1804 | 2084 |

| Car height | Dimension B | Dimension C | |
|------------|-------------|-------------|--|
| 160 | 193 | 213 | |
| 185 | 218 | 238 | |
| 200 | 233 | 253 | |

| Parking places per level* | Pallet width 230 Grid width 255 cm Length D** | |
|------------------------------|---|--|
| 12 | 1880 | |
| 14 | 2180 | |
| 16 | 2435 | |
| 18 | 2690 | |
| 20 | 2990 | |
| 22 | 3245 | |
| 24 | 3500 | |
| 26 | 3800 | |
| 28 | 4055 | |
| 30 | 4310 | |
| 32 | 4610 | |
| 34 | 4865 | |
| 36 | 5120 | |
| 38 | 5420 | |
| 40 | 5675 | |
| 42 | 5930 | |

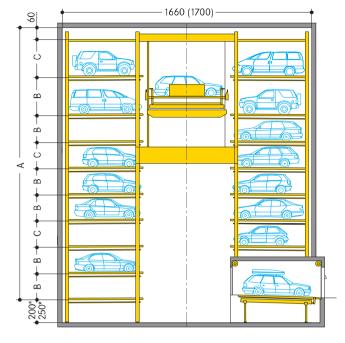
 The number of parking places depends on number and arrangement of lifts
 All specified dimensions of length D are examples only

All specified dimensions of length D are examples only and depend on width and number of partitions walls

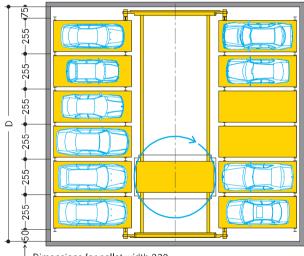
Multiparker 720 | Tower system for 4–20 parking levels

- Parking system for 4-20 parking levels as tower variant
- Linear expansion limited to max. 6 parking bays per row
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)

Transfer area (dimensions without turning device)

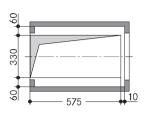


- * Dimension 200 cm apply to 4 or 8 parking places per level Dimension 250 cm apply to 10 or 12 parking places per level
- () Dimensions in brackets for storage and retrieval unit with turning device



L Dimensions for pallet width 230

For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.



| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars | |
|-------------------|-------------------------------------|-------------------------------------|--|
| 4 | 852 | 1012 | |
| 5 | 1045 | 1245 | |
| 6 | 1258 | 1498 | |
| 7 | 1451 | 1731 | |
| 8 | 1644 | 1964 | |
| 9 | 1857 | 2217 | |
| 10 | 2050 | 2450 | |
| 11 | 2243 | 2683 | |
| 12 | 2456 | 2936 | |
| 13 | 2649 | 3169 | |
| 14 | 2842 | 3402 | |
| 15 | 3055 | 3655 | |
| 16 | 3248 | 3888 | |
| 17 | 3441 | 4121 | |
| 18 | 3654 | 4374 | |
| 19 | 3847 | 4607 | |
| 20 | 4040 | 4840 | |

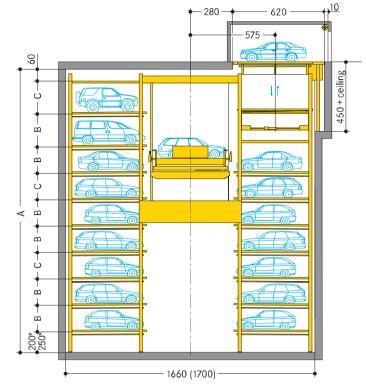
| Car height | Dimension B | Dimension C |
|------------|-------------|-------------|
| 160 | 193 | 213 |
| 185 | 218 | 238 |
| 200 | 233 | 253 |

| Parking places per level** | Pallet width 230 Grid width 255 cm Length D | |
|-------------------------------|---|--|
| 6 | 890 | |
| 8 | 1145 | |
| 10 | 1400 | |
| max. 12 | 1655 | |

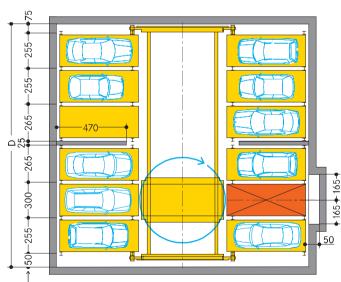
** The number of parking places depends on number and arrangement of transfer areas

Multiparker 720 | Shaft system

- Linear expansion limited to max. 6 parking bays per row
- Variable arrangement of transfer area (see page 8)
- Vehicles of various height can be parked thanks to parking levels of various height



- * Dimension 200 cm apply to 6 or 8 parking places per level Dimension 250 cm apply to 10 or 12 parking places per level
- () Dimensions in brackets for storage and retrieval unit with turning device $% \left({{{\boldsymbol{x}}_{i}}} \right)$

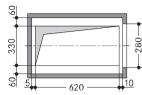


Dimensions for pallet width 230

For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.

- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device possible (option)

Transfer area (dimensions without turning device)



| Parking levels | Dimension A** for 160 cm high cars | Dimension A** for 200 cm high cars |
|-------------------|---------------------------------------|---------------------------------------|
| 1 | 453 | 493 |
| 2 | 646 | 726 |
| 3 | 859 | 979 |
| 4 | 1052 | 1212 |
| 5 | 1245 | 1445 |
| 6 | 1458 | 1698 |
| 7 | 1651 | 1931 |
| 8 | 1844 | 2164 |
| 9 | 2057 | 2417 |
| 10 | 2250 | 2650 |
| 11 | 2443 | 2883 |
| 12 | 2656 | 3136 |

** All mentioned dimensions apply to 6 or 8 parking places per level. If 10 or 12 parking places per level are planned, these dimensions are to be increased by 50 cm.

| Car height | Dimension B | Dimension C | |
|------------|-------------|-------------|--|
| 160 | 193 | 213 | |
| 185 | 218 | 238 | |
| 200 | 233 | 253 | |

| Parking places per level*** | Pallet width 230 Length D**** | |
|--------------------------------|----------------------------------|--|
| 6 | 935 | |
| 8 | 1235 | |
| 10 | 1490 | |
| max. 12 | 1745 | |

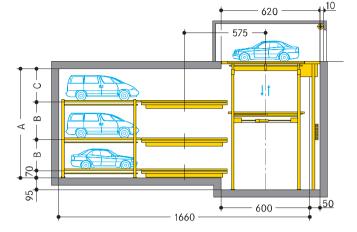
*** The number of parking places depends on number and arrangement of transfer areas

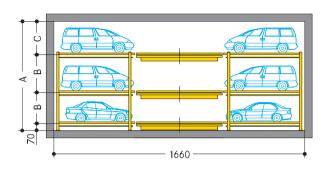
**** All specified dimensions of length D are examples only and depend on width and number of partitions walls

Dimensions in cm

Page 5 of 8

- Separate shuttle in each parking level
- Each parking level connected with entrance/exit level by lifting unit
- Linear expansion variable (see dimension D on table below)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device in the transfer area possible (option)

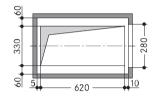




³⁰ -255--255-855 265-52 5 265-255-+ 785-Δ -265-5 5 -300-+-265-+165+165+ 830 -265-+ 50 5 5 -265--300-+ 165 + 165 + 900 255-50 Dimensions for pallet width 230

For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.

Transfer area (dimensions without turning device)



| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|-------------------|-------------------------------------|-------------------------------------|
| 2 | 465 | 545 |
| 3 | 690 | 810 |
| 4 | 915 | 1075 |
| 5 | 1140 | 1340 |

| Car height | Dimension B | Dimension C | |
|------------|-------------|-------------|--|
| 160 | 225 | 170 | |
| 185 | 250 | 195 | |
| 200 | 265 | 210 | |
| | | | |

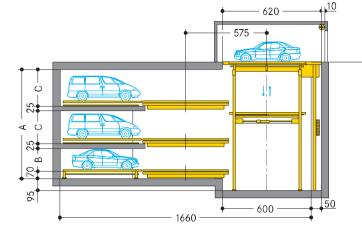
| Parking places per level* | Pallet width 230 Length D** | |
|------------------------------|--------------------------------|--|
| • | - | |
| 22 | 3495 | |
| 24 | 3795 | |
| 26 | 4050 | |
| 28 | 4305 | |
| 30 | 4605 | |
| 32 | 4860 | |
| 34 | 5115 | |
| 36 | 5415 | |
| 38 | 5670 | |
| 40 | 5925 | |
| 42 | 6225 | |
| 44 | 6480 | |
| 46 | 6735 | |
| 48 | 7035 | |
| 50 | 7290 | |

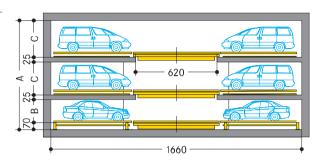
The number of parking places depends on number and arrangement of the lift

** All specified dimensions of length D are examples only and depend on width, number of partitions walls and number of lifts

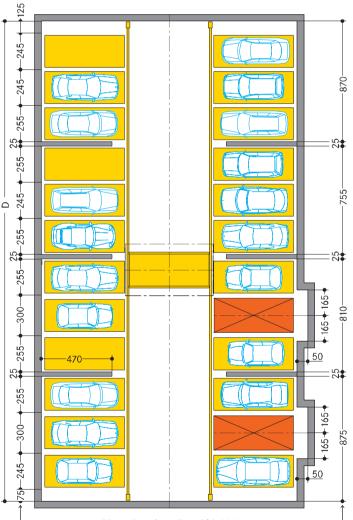
Multiparker 730 | Shuttle/Lift system with intermediate ceiling

- Parking system for a high number of parking spaces and a high throughput
- Separate shuttle in each parking level
- Each parking level connected with entrance/exit level by lifting unit
- Linear expansion variable (see dimension D on table below)
- Vehicles of various height can be parked thanks to parking levels of various height
- Multi-row arrangement (see page 8)
- Quick-change pallet system = short access times
- Integrated turning device in the transfer area possible (option)



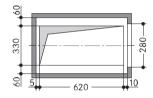


Transfer area (dimensions without turning device)



— Dimensions for pallet width 230

For the control unit, space (at least length 500 cm x width 200 cm x height 240 cm) must be available near the transfer area.



| Parking levels | Dimension A for 160 cm high cars | Dimension A for 200 cm high cars |
|-------------------|-------------------------------------|-------------------------------------|
| 2 | 471 | 551 |
| 3 | 704 | 824 |
| 4 | 937 | 1097 |
| 5 | 1170 | 1370 |
| | | |

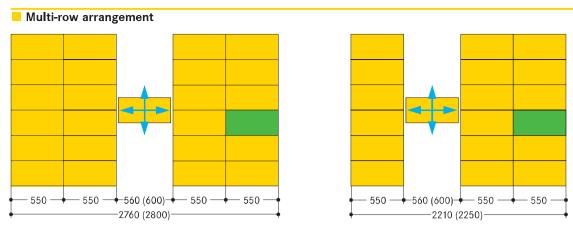
| Car height | Dimension B | Dimension C | |
|------------|-------------|-------------|--|
| 160 | 168 | 208 | |
| 185 | 193 | 233 | |
| 200 | 208 | 248 | |

| Parking places per level* | Pallet width 230 Length D** | |
|------------------------------|--------------------------------|--|
| 22 | 3385 | |
| 24 | 3675 | |
| 26 | 3920 | |
| 28 | 4165 | |
| 30 | 4455 | |
| 32 | 4700 | |
| 34 | 4945 | |
| 36 | 5235 | |
| 38 | 5480 | |
| 40 | 5725 | |
| 42 | 6015 | |
| 44 | 6260 | |
| 46 | 6505 | |
| 48 | 6795 | |
| 50 | 7040 | |

* The number of parking places depends on number and arrangement of the lift

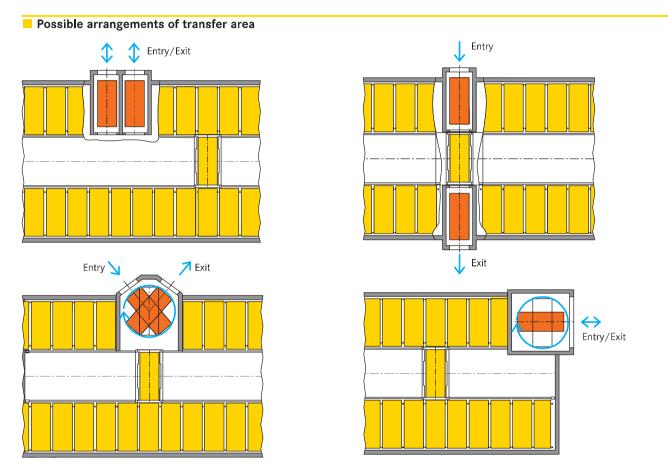
** All specified dimensions of length D are examples only and depend on width, number of partitions walls and number of lifts

WÖHR MULTIPARKER 710/720/730 | 01.2020 | C803-1307



The multi-row arrangement allows an optimum utilisation of the available space and/or land area and saves civil engineering costs, particulary with the shaft variant.

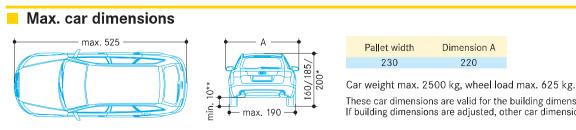
() Dimensions in brackets for storage and retrieval unit with turning device



The arrangement of the transfer area is flexible. The optimum arrangement is always in the system center which has the shortest access times. Depending on the need and kind of utilisation, the number of the transfer areas can be adapted.

Maintenance access and switch cabinet

Maintenance access as well a room for the switch cabinet (min. 2 x 5 m) is required (please check with WÖHR).



Overall height (cars with roof racks, roof rails, antennas etc. should not exceed the mentioned overall height).
 ** Clearance underneath the gear case





FA-575NF

SMART SOLUTIONS FOR VEHICLE PARKING AND CAR STORAGE



The Hyperlift is the largest platform lift available on the LevantaPARK product range capable of lifting vehicles and goods with people on board.

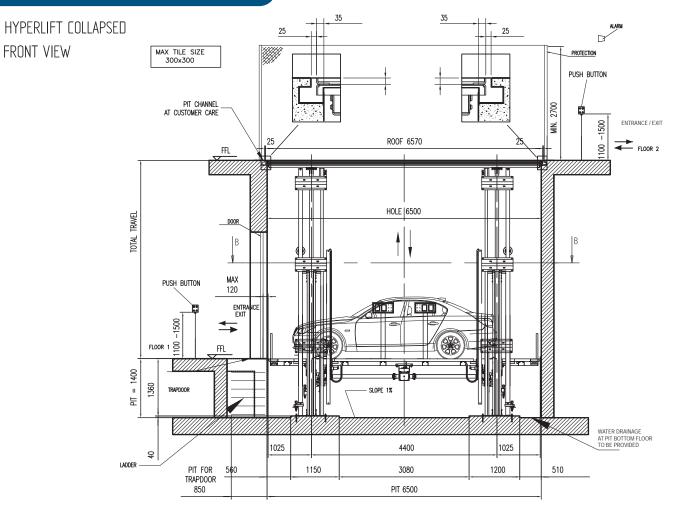
Utilising four columns and a unique design with interconnecting torsion bars all with independent hydraulic cylinders the platform has the capacity to lift 8000 kgs to a height of 14 meters with people on board in complete safety.

Guarding around the hydraulic cylinders, on board data connection through a phone network and photoelectric sensors make sure the vehicle or goods can be moved in a safe manner while providing a solution to moving heavy vehicles or goods safely between multiple floors levels.

SPECIFICATION TABLE

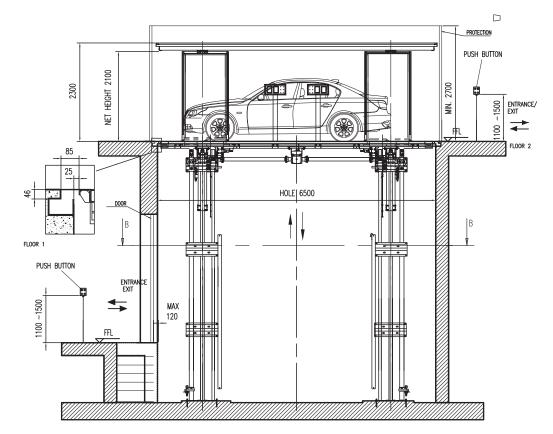
| Model Number | Capacity | Standard Lifting Height | Max Lifting Height | Minimum Platform | Maximum Platform | Pit Depth | Power | Speed | Power Supply | Standard Weight | Notes |
|-----------------|----------|-------------------------------|-----------------------|------------------------|---------------------|--------------|------------|---------------|------------------|--------------------|--|
| LP-HP80-4C | 8000 kgs | 4,000 mm | 14,000mm | 6,000 mm x 3,250 mm | 7,950mm x 3950mm | 1200 mm | 3 x 7.5 kw | 0.15 m/sec | 415 v / 50 Hz | 6500 kgs. | |
| LP-HP80 4C RG | 8000 kgs | 4,000 mm | 14,000mm | 6,000 mm x 3,250 mm | 7,950mm x 3950mm | 1400 mm | 3 x 7.5 kw | 0.15 m/sec | 415 v / 50 Hz | 6500 kgs. | Reverse Guides Option to ensure no columns protrude past top level of lift |
| LP-HP50 4CRT | 5000 kgs | 4,000 mm | 14,000mm | 6,000 mm x 3,250 mm | 7,950mm x 3950mm | 1400 mm | 3 x 7.5 kw | 0.15 m/sec | 415 v / 50 Hz | 8500 kgs. | Comes with integrated Roof that can be tiled - Capacity of Roof is 3000 kgs |

HYPERLIFT LP-HP50 4CRT

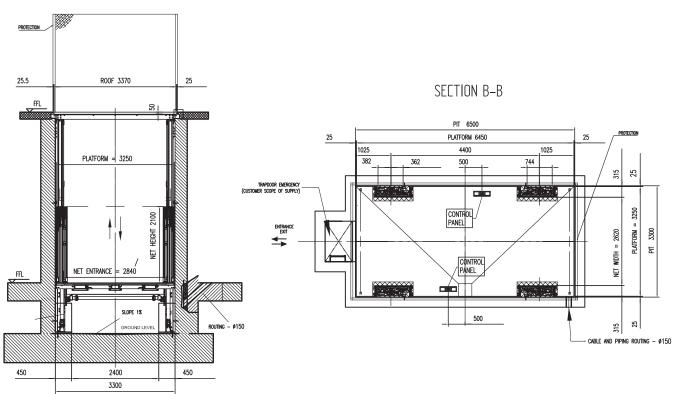




HYPERLIFT LIFTED FRONT VIEW



SIDE VIEW



ACCESSORIES

■ STANDARD □ OPTIONAL

| DESCRIPTION | HYPERLIFT | HYPERLIFT + T | NOTES |
|---|-----------|---------------|--|
| Standard colours: SILVER RAL 9006 | | | |
| No. 4 columns complete with lifting cylinders and tooth racks | | | |
| No. 1 platform with metal smooth staves | | | |
| No. 1 balance system with 5 torsion bars | | | |
| No. 2 "Dead man present" push button boards with key | | | |
| Push button board design style | | | |
| Security control module for sensors and safety locks | | | |
| Emergency auto-dialer | | | Based on AS1418.8 |
| Back up battery for auxiliary circuits | | | Allows emergency descent with platform not on floor |
| No. 1 hydraulic pump with motor | | | |
| No. 1 Electrical panel board | | | |
| No. 2 Electrical magnetic sensors | | | |
| Standard power supply 415V/3Ph/50hz | | | |
| No. 1 slowing kit | | | |
| No. 1 Acoustic warning | | | |
| No. 4 protections on a columns side | | | Height = 2000 mm |
| No. 2 stopping wheel L=745 mm | | | |
| Photocell barriers H=600 mm. for forward and backward control | | | |
| Adjustable Floor mechanical locking devices | | | |
| Emergency descent maneuver (with manual pump) | | | |
| Nylon Package | | | |
| Screws anchors | | | |
| Roof in diamond checker plate | | | Roof transittable: 3000 kg. (Not suitable to lift a vehicle) |
| Tileable roof | | | Roof transittable: 3000 kg. (Not suitable to lift a vehicle) |
| Tileable roof in stainles steel | | | |
| Additional push button board at the floor | | | |
| Additional push button board with upright for double entrance/exit | | | |
| Push button board in stainless steel | | | |
| Push button board on platform in stainless steel | | | |
| Electro mechanical lock | | | For manual doors control |
| Additional key for push button | | | |
| Additional Electromagnetic sensors | | | |
| Outside pulse recall for each push button board | | | Applicable just on enclosed shaft |
| Pulse command return to home position button (just with pulse manouver) | | | Applicable just on enclosed shaft |
| Automatic respositioning to the floor in case of fire | | | Applicable just on enclosed shaft |
| Remote control each receiver | | | Max. ray 5 mt |
| Remote control each transmitter | | | Max. ray 5 mt |
| Flashing light | | | |

TECHNICAL SPECIFICATION HYPERLIFT Levantapark



ACCESSORIES

STANDARD OPTIONAL

| DESCRIPTION | HYPERLIFT | HYPERLIFT + T | NOTES |
|--|-----------|---------------|---|
| Siren | | | |
| N° 4 photocells barriers for roof perimetric control | | | To install along with the laser scanner |
| Additional acoustic warning | | | |
| 2 colors traffic light (Red / Green) | | | |
| LED lights low voltage on platform | | | |
| Soft Starter | | | |
| Additional cost for waterproof push button board IP 54 | | | |
| Handrail H = 1.200 mm. (per meter) | | | Available as either fixed or removable" |
| Photocell barrier for doors' area control H = 150 mm | | | |
| Photocell barrier for doors' area control H = 300 mm | | | |
| Control photocells for car's height (X 2) | | | |
| Laser scanner for control area | | | |
| Sheet cover in diamond alluminium | | | |
| Complete lateral protection | | | |
| Non standard power supply | | | On request |
| Hydraulic pump with low acoustic emission | | | On request |
| Non standard colour* | | | |
| Hot dip galvanization (platform, columns and guides) | | | |













The platform has a 2.50 m high guard which can only be removed using special maintenance tools, thus preventing contact with the moving parts of the platform (complaint with EC 2006/42).





Interconnecting torsion bars ensure that regardless of where the weight is placed on the platform it will rise consistently and evenly across the width and length.



Engineered & Manufactured in Europe



6

Designed for Australian site conditions

| QLD NSW VIC | - 17 Canberra Street - 89 Gascoigne Street - 135 Northcorp Boulevard | Hemmant Kingswood Broadmeadows | QLD NSW VIC | 4174 2747 3043 |
|-------------------|--|--------------------------------------|-------------------|----------------------|
| SA | - 6 Sheffield Street | Woodville North | SA | 5012 |
| WA | - 67 Tacoma Circuit | Canning Vale | WA | 6155 |



Smart Solutions for Vehicle Parking and Car Storage

COMPLIANCE DATA

HYPERLIFT SYSTEMS CONFORM TO

- AS 3000
- AS Part 1601
- ISO 9001
- AS 60204
- AS1217.1
- EN14010
- AS1418.8



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