6th March 2023

Kara McCormick CPB Royal Prince Alfred Hospital Redevelopment

Dear Kara

ptc. prepare the following statement related to REF5 EW7 (Western Medical Gas Compound) in respect to traffic engineering.

A review of the Traffic Impact Statement prepared by SCT Consultants and issued as Revision 2 on 17th January 2023 has been undertaken. As part of the finalisation of the design, an assessment of the proposed facility has been undertaken with reference to the latest architectural drawings prepared by Jacobs and TTW. The documentation list referred to is as follows:

- 240205_RPAH_REF#5 Architects Statement WIP_Master
- Appendix K_Traffic Impact Statement
- RPA-ARC-JAC-DRG-EW7-150101(D)
- RPA-ARC-JAC-DRG-EW7-150101(G)
- RPA-ARC-JAC-DRG-REF5-000000(H)
- RPA-ARC-JAC-DRG-REF5-000001(G)
- RPA-ARC-JAC-DRG-REF5-000002(H)
- RPA-ARC-JAC-DRG-REF5-000003(I)
- RPA-ARC-JAC-DRG-REF5-000004(I)
- RPA-ARC-JAC-DRG-REF5-180001(H)
- RPA-ARC-JAC-DRG-REF5-400001(I)
- RPA-STR-TTW-DRG-EW7-060501 [A] MEDICAL GAS STORAGE LEVEL 5

1. Background

As defined in the SCT Traffic Impact Statement, the scope of works related to this REF5 EW7 Western Medical Gas Compound are as follows;

• "alterations and additions to the Capital Infrastructure and Engineering (CI & E) building loading dock located off Rochester Street in the RPA Hospital West Campus."

There are no proposed alteration to the roadway or access driveway. The existing loading dock shall be reduced in length from approximately 18 metres to 12.5m to allow room for a raised loading dock.

It is noted that Rochester Street, which forms the access and site frontage for the Western Medical Gas Compound loading area, is a private roadway. It is described as being supporting to 'back of house' functions, and as such vehicle access to this street is important. It is noted that the street is often occupied by parked vehicles throughout the day.

The expected service frequency of the bulk oxygen and medical gas cylinder is defined as a few times per month.

2. Previous REF5 Proposal

In January of 2023, the previously prepared proposal for the development of the Western Medical Gas Compound had the following plan:



Figure 1: RPA-ARC-JAC-DRG-EW7-150101(D) Prepared by Jacobs

Regarding anticipated traffic generation, a negligible increase in the frequency and hence service vehicle volumes was detailed to be expected.

No assessment of the proposed design was undertaken in the SCT RPA Hospital Campus Infrastructure Works REF 5 documentation.

3. Current REF5 Proposal

ptc. has undertaken an evaluation of the current proposal design, which is provided below for reference.



Figure 2: RPA-ARC-JAC-DRG-EW7-150101(G) Prepared by Jacobs

ptc. note that in regard to traffic engineering, there are no proposed changes to the existing vehicular access or driveway from Rochester Street. As such, the proposed development will continue to operate as existing and be serviced by the following existing vehicle types:

- 12.5m Heavy Rigid Vehicles
- 10.1m Truck

There are no proposed changes to the grade of the existing loading dock (service vehicle parking bay) as shown in the architectural drawing provided, and as such there is not expected to be any concern regarding vehicle access or underbody scraping.

To accommodate the extension of the existing raised loading dock platform, the total service vehicle bay length is to be reduced from approximately 18 metres to 12.5 metres which meets the requirements of AS2890.2(2018).

It is noted that the existing platform height is to be maintained. Refer to RPA-STR-TTW-DRG-EW7-060501 [A] MEDICAL GAS STORAGE - LEVEL 5 (prepared by TTW).

4. ptc. Assessment

With regard to Australian Standards, specifically AS2890.2(2018), the following summary of assessment is provided.

Component	Requirement	Provided	Spatial Compliance	Notes
Loading Bay - AS2890.2				
Height Clearance	4.5m	4.5m	\checkmark	
Space Length	12.5m	12.5m	\checkmark	At-grade existing dock
Space Width	3.5m	4.9m	\checkmark	
Access Ramp – AS2890.2	·			
Ramp Grade	1:6.5	-	-	
Transitions	1:16 for 7m	-	-	Existing
Ramp Width	3.5m	-	-	

ptc. confirm that the service vehicle bay is deemed to satisfy AS2890.2(2015).

The access to the dock is existing and shall be retained and as such is beyond scope of this traffic assessment. The existing vehicles that currently service the site shall continue to do so, noting no impact to vehicular access has been found as a result of the proposed loading dock.

5. Construction Impacts

Reference has been made to the *'Preliminary Construction Management Plan – Western Campus Medical Gas Compound'* Revision C, prepared by CPB Contractors and dated 06/03/2024.

Access for construction vehicles will be via Susan Street. All vehicles accessing the work site shall be limited to a suitable size for the road geometry.

Given the constrained road conditions and pedestrian activity in the area, Traffic Control personnel shall be in place to assist construction vehicle access and egress, and manage any potential conflicts that may arise.

Existing pedestrian movements and access shall be retained throughout the hospital site.

Construction vehicle activity shall be monitored by the principal contractor to ensure no interruptions to the ongoing operation of surrounding roads.

It is expected that construction vehicles shall typically travel to and from the work site outside of the peak morning and afternoon commuter hours to reduce impact and minimise risk to pedestrians and vehicles.

ptc.

Yours faithfully

Jake Jansen Traffic Engineer

Document Control: Prepared by JAJ on 6 March 2024. Reviewed by SW on 6 March 2024.

Attachment 1. ptc. Assessment

EW LANDING FLUSH WITH EXISTING TORAGE LEVEL. EW FLAMMABLE GAS CYLINDER TORAGE BAYS.

8. EXISTING LIQUID NITROGEN VESSEL 9. EXISTING MAIN OXYGEN VESSEL



I. EXISTING GENSET/FUEL RELOCATED BY CIE

Ю	BE
то	RS.

ROCHESTER STREET

	CLIENT	СРВ	PRELIMINARY
ledical Gas Compound	DRAWING #	ptc-(1)	
sment	PROJECT #	22-0523	RFV P1
	SCALE	1 : 100	