# **Traffix Group**

# Memorandum of Opinion

Proposed Residential Development 517 High Street Road, Mount Waverley

Prepared for Kamrun Nesa Hossain

July 2021

G30275A-01B

#### **Document Control**

Our Reference: G30275A-01B

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В	Final	22/07/2021	M. O'Shea / M. Huynh	M. Huynh

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**Traffix Group** 

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#### 1. Instructions

Traffix Group have been instructed to undertake a traffic engineering design review of the proposed residential development at 517 High Street Road, Mount Waverley.

The review undertaken by our office has included the following tasks:

- Design review of the car parking and vehicle access arrangements against the relevant design standards,
- Preparation of swept paths demonstrating suitable access to the on-site car parking areas (amended layout based on our recommendations), and
- Preparation of Memorandum of Opinion summarising our investigations and recommendations.

#### 2. Review Documents

As part of our investigations, we have had considered of the following documents:

- Application Plans by Planning and Design Pty Ltd (dated 21 July, 2021)
- Notice of Refusal for Application No. TPA/51717 (dated 24<sup>th</sup> December, 2020).
- Department of Transport Referral Appeal Acknowledgement for Application TPA/51717 (dated 29<sup>th</sup> April, 2021).

#### 3. Proposal

The proposal is for the construction of a three-storey residential development comprising four dwellings.

On-site car parking is proposed to accommodate 8 car spaces via a double garage to each dwelling. Car parking has been provided to accord with the minimum requirements set out under Clause 52.06-5 for 'dwellings' which is:

2 car spaces to each three or more bedroom dwelling (with studies or studios that are separate rooms counted as a bedroom).

No visitor car parking is provided in accordance with Clause 52.06-5.

Vehicle access to the site is provided via an existing shared crossover to High Street Road.

This review provides a concise summary of the plans (dated 21 July, 2021) from a design and access perspective.



#### 4. Subject Site

The subject site is located on the east side of High Street Road, Mount Waverley. A locality plan is presented at Figure 1.

The subject site is currently occupied by single storey dwelling. Car parking for the existing building is provided via at-grade hard stand areas.

Vehicle access to the site is provided via a shared crossover (with No. 515 High Street Road) to High Street Road.

The subject site is located within a General Residential Zone – Schedule 3 (CDZ3) under the Planning Scheme.

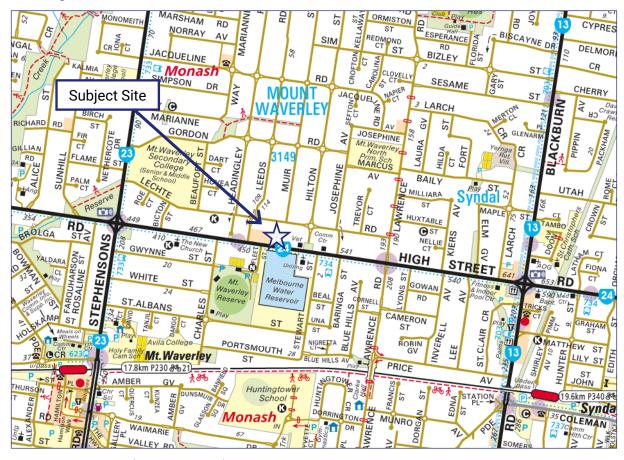


Figure 1: Locality Map (source: Melways)

#### 5. Car Parking Design Consideration

#### 5.1. Layout Review

The proposed car parking layout and access arrangements have been assessed under the following guidelines:

- Clause 55.03-9 (Access objectives) and Clause 55.03-10 (Parking location objectives) of the Planning Scheme,
- Clause 52.06-9 (Design standards for car parking) of the Planning Scheme, and
- AS2890.1-2004 Part 1: Off-Street car parking, where relevant.

Our assessment are based on the plans prepared by Planning & Design Pty Ltd (dated 21 July, 2021). A copy of these plans is attached at Appendix A.

The key elements of the car parking and access layout are outlined below.

#### 5.1.1. Design Standard 1 - Accessways

 The proposal includes the use of a 3.0m wide accessway and existing crossover in accordance with Clause 52.06-9 (Design Standard 1) and AS2890.1-2004 for a singlelane, two-way accessway. Based on the low number of traffic movements a single lane driveway is acceptable.

Localised widening to 5.15-5.50m is provided adjacent to garages. We are satisfied that this will facilitate two-way passing at low speeds. Although the site takes access to a road in Road Zone Category 1, only 8 car spaces are provided which does not trigger the requirement for a two-way passing area at the property boundary.

Nevertheless, swept path diagrams have been provided to demonstrate an internal propand-pass arrangement between B99 design vehicles in the case that there are two vehicles travelling in opposite directions. The swept paths are attached at Appendix B.

- All cars can enter or exit the site in a forwards direction in accordance with Clause 52.06 9.
- Standard B14 of Clause 55.03-9 requires that the width of accessways or car spaces should not exceed 40% if the width of the street frontage is less than 20 metres. The 3m wide crossover will not exceed this requirement.
- Standard B15 of Clause 55.03-10 requires that shared accessways or carparks of other dwellings and residential buildings should be located at least 1.5m from the windows of habitable rooms. This requirement is met on the plans.
- Car parking for residents is attached to each dwelling, with two secure garaged spaces available for each dwelling.
- A full pedestrian sight triangle is provided on the eastern side of the existing accessway in accordance with Clause 52.06-9.
- The pedestrian sight triangle on the western side of the existing accessway is located within the adjacent site (No. 515 High Street Road) however we are satisfied with this



arrangement given that no fence is provided within the first approx. 9m from the site's boundary to Beverley Street. If a fence is to be provided in the future, it must be no higher than 900mm within at least the first 2.5m from the site's boundary to Beverley Street.

#### 5.1.2. Design Standard 2 - Car Spaces

- A minimum headroom clearance of 2.2m is provided to the garages and along the access aisle in accordance with the requirements of Clause 52.06-9.
- Garages accord with the requirements of Clause 52.06-9, specifically double garages are at least 5.8m wide x 6.0m long.
- The garage openings and associated manoeuvring areas have been specifically designed to accommodate suitable access by the B85 design vehicle presented at AS2890.1-2004.
  - Whilst car spaces will require an additional manoeuvre to access, this is expressly permitted by AS2890.1-2004 for long-term, resident parking.
  - A copy of swept paths that demonstrate entry and exit movements from the car spaces of each garage is attached at Appendix B.

#### 5.1.3. Design Standard 3 - Gradients

- A maximum change in grade of 1:20 (5%) is provided immediately at the entry to each garage in accordance with Clause 52.06-9.
- Suitable gradients for drainage (i.e. 1 in 200) will be provided within the flat car parking areas for drainage purposes.

#### 5.1.4. Design Standard 6 - Safety & Pedestrian Access

- Primary pedestrian access from High Street Road is provided via independent internal pedestrian footpath which is provided along the site's eastern boundary.
- The shared use of the ramp between pedestrians and vehicles is acceptable given the low frequency of vehicle movements along the driveway.

#### 6. Conclusions

Having undertaken a detailed traffic engineering assessment of the proposed residential development at 517 High Street Road, Mount Waverley, we are of the opinion that:

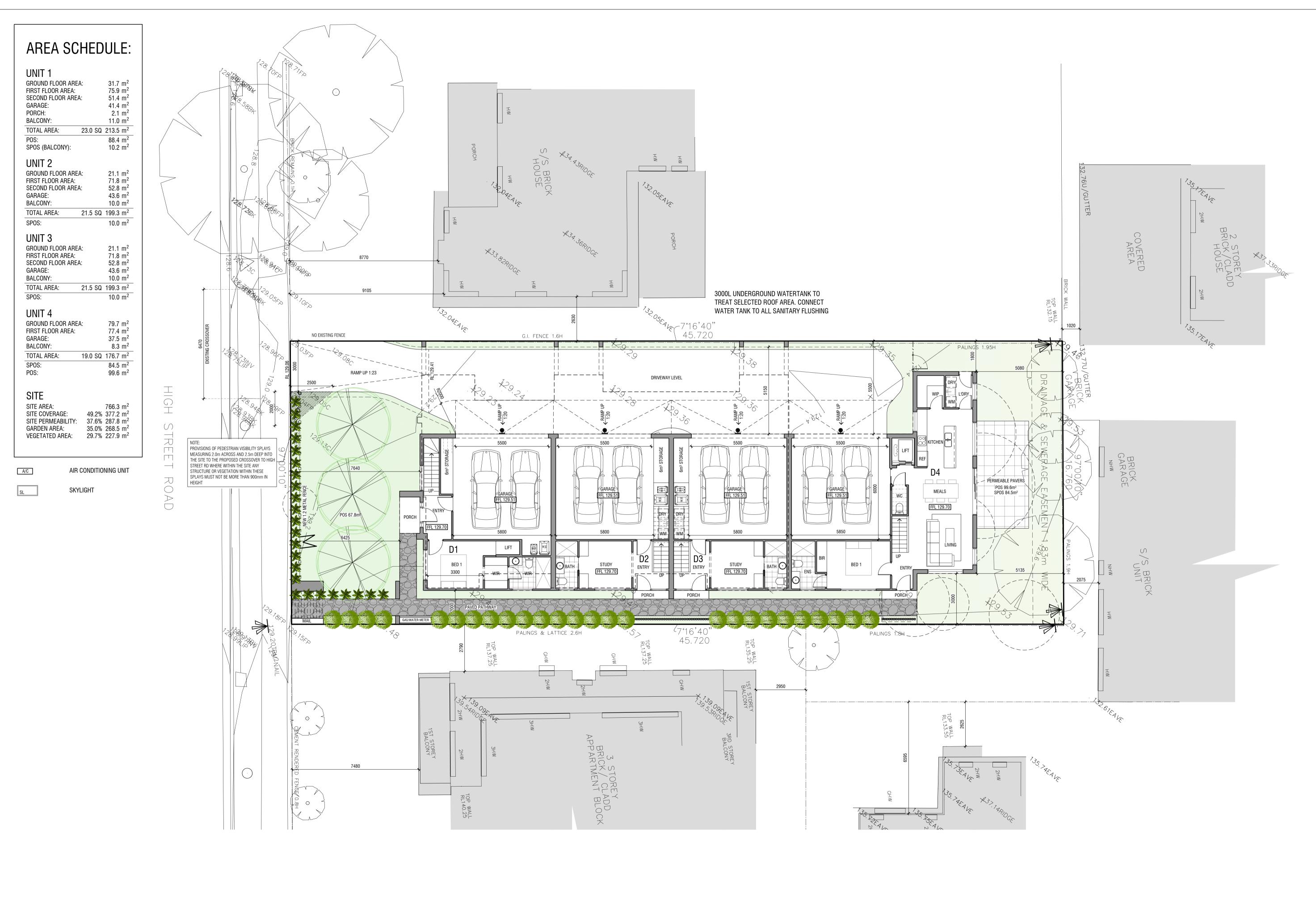
- a) the provision of car parking will accord with the relevant requirements under Clause
   52.06-5 of the Monash Planning Scheme,
- b) the proposed parking layout and vehicle access arrangements accord with the requirements of the Planning Scheme, Australian Standards (where relevant) and current practice,
- c) there are no traffic engineering reasons why a planning permit for the proposed residential development at 517 High Street Road, Mount Waverley should be refused, subject to appropriate conditions.



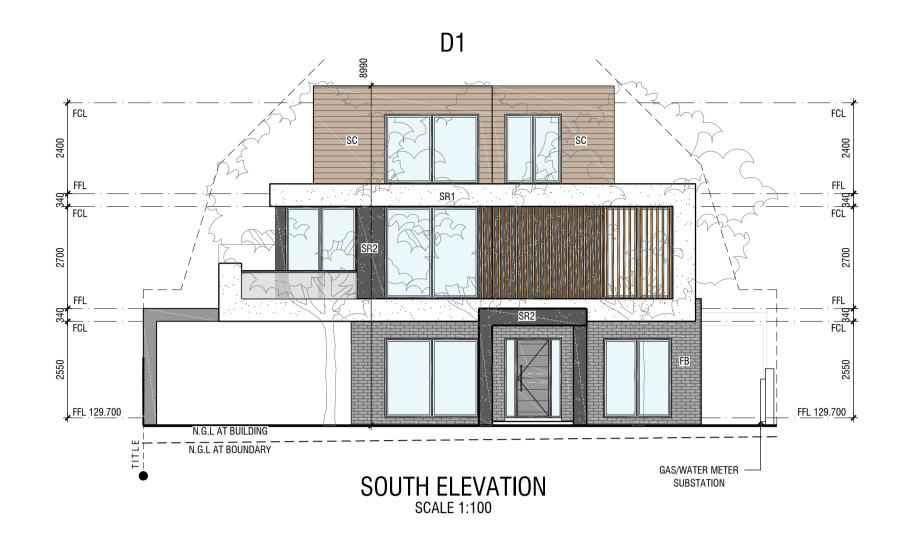


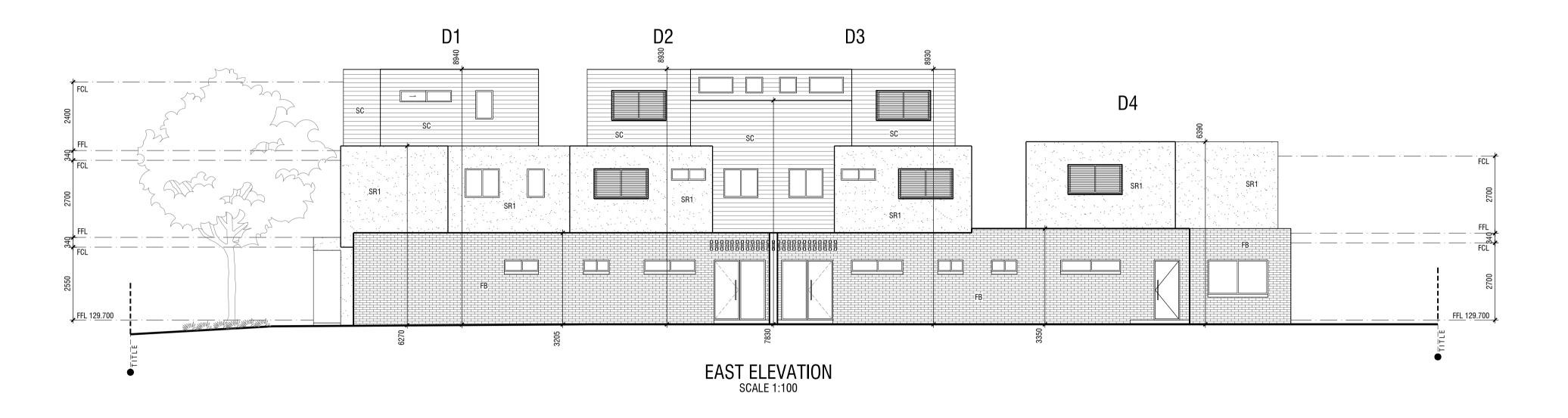
# **Appendix A**

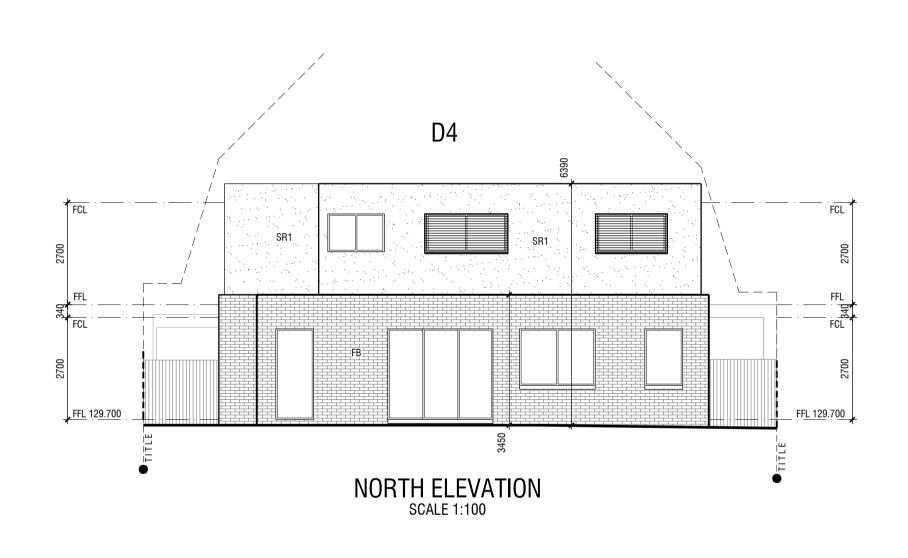
**Development Plans** 

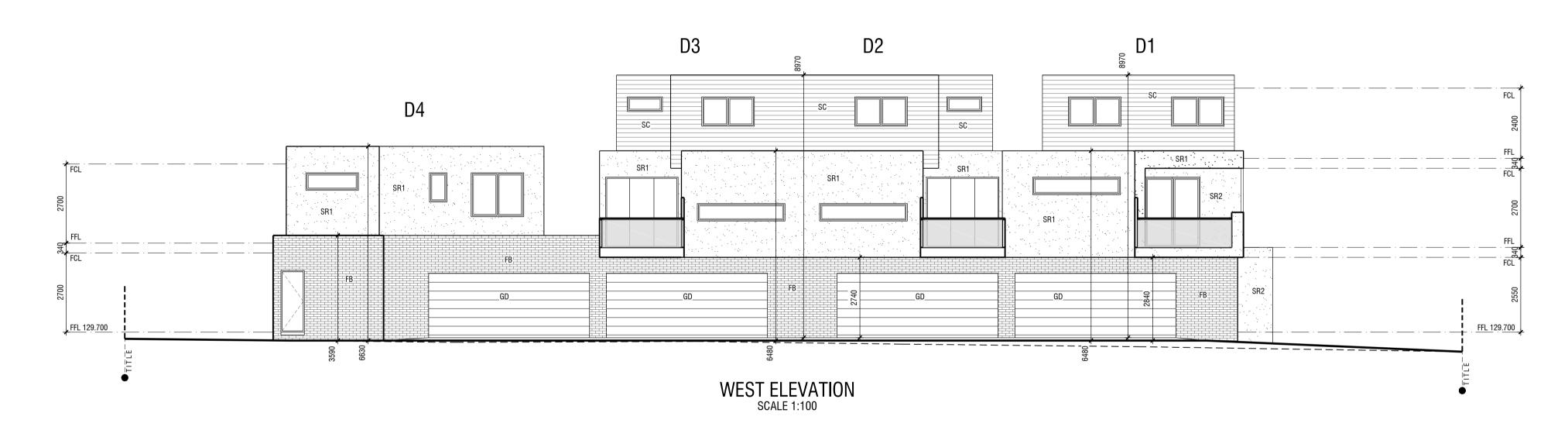




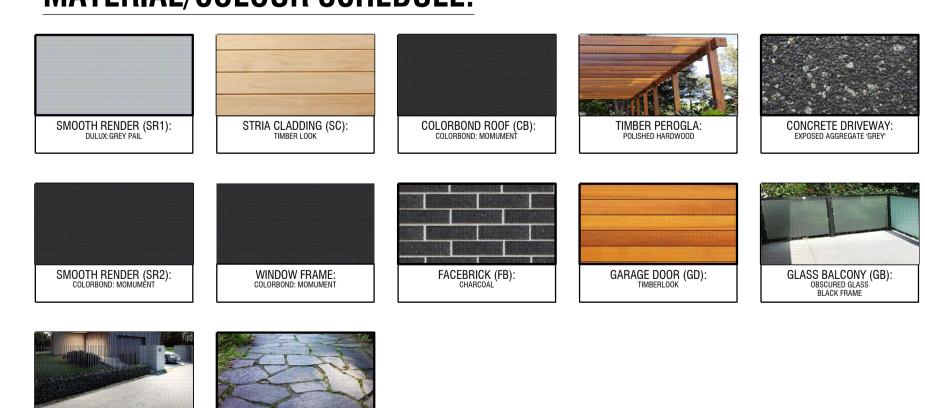


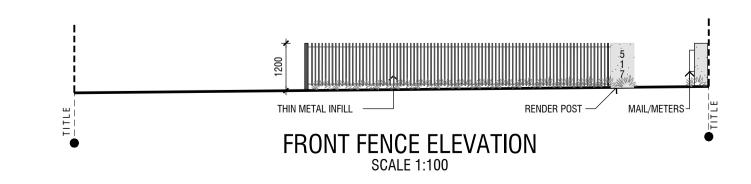


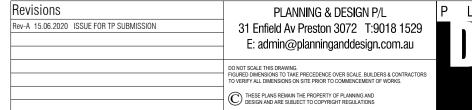




### MATERIAL/COLOUR SCHEDULE:







GLAZING NOTE:
DOUBLE GLAZING (DG) TO ALL HABITABLE ROOM WINDOWS





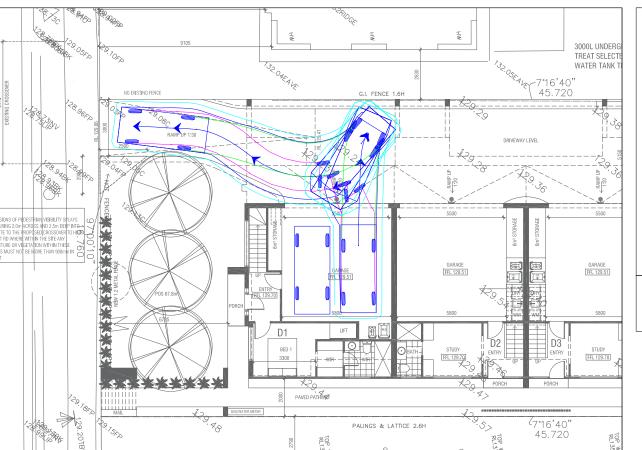
# **Appendix B**

**Swept Path Diagrams** 

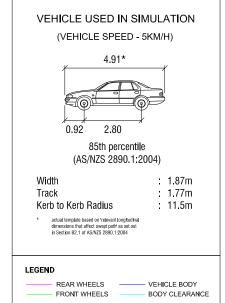
#### DWELLING 1 GARAGE - CAR SPACE 1 - INGRESS

# G.I. FENCE 1.6H

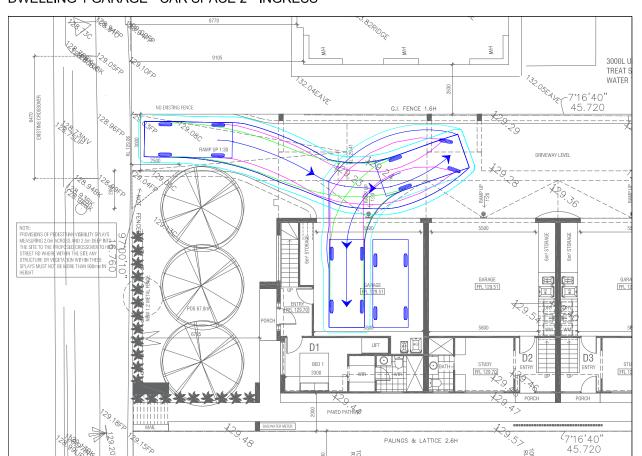
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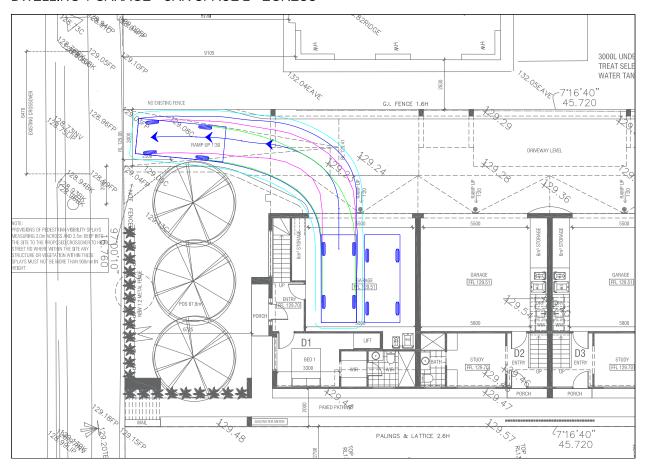
#### **VEHICLE PROFILE**



#### DWELLING 1 GARAGE - CAR SPACE 2 - INGRESS



#### DWELLING 1 GARAGE - CAR SPACE 2 - EGRESS



REV DATE A 22/07/2021

TOWN PLANNING

DESIGNED BY M. HUYNH

CHECKED BY M. O'SHEA

**517 HIGH STREET ROAD, MOUNT WAVERLEY** PROPOSED RESIDENTIAL DEVELOPMENT

GENERAL NOTES: INFORMATION BASED ON "517 HIGH ST RD MOUNT WAVERLEY - CLEAN.dwg"

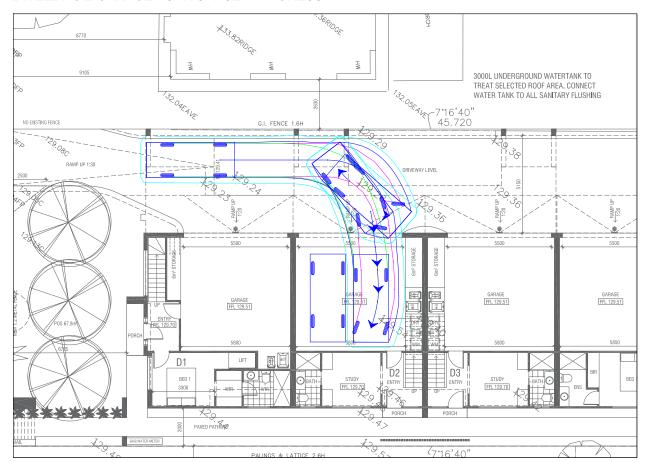
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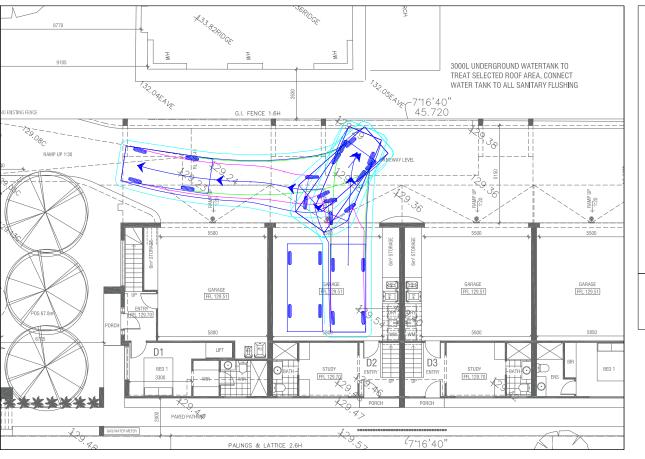
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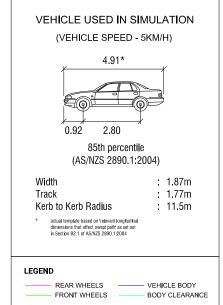
#### DWELLING 2 GARAGE - CAR SPACE 1 - INGRESS



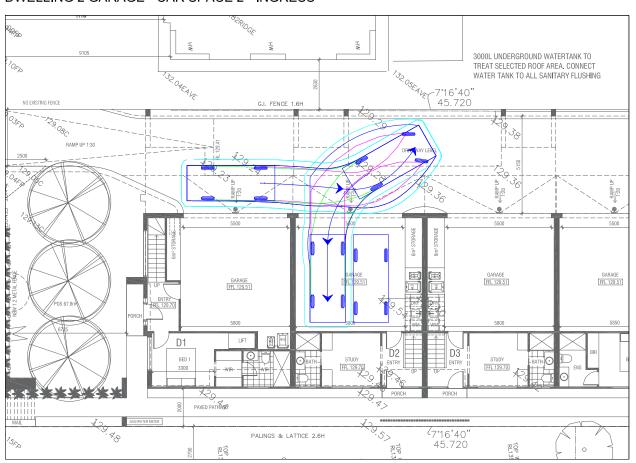
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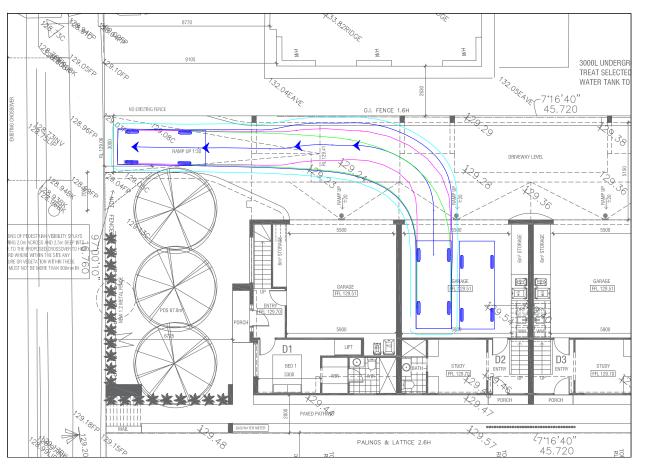
#### VEHICLE PROFILE



#### DWELLING 2 GARAGE - CAR SPACE 2 - INGRESS



#### DWELLING 2 GARAGE - CAR SPACE 2 - EGRESS



**REV DATE** A 22/07/2021

**NOTES** TOWN PLANNING DESIGNED BY M. HUYNH CHECKED BY M. O'SHEA **517 HIGH STREET ROAD, MOUNT WAVERLEY** PROPOSED RESIDENTIAL DEVELOPMENT

GENERAL NOTES:

INFORMATION BASED ON "517 HIGH ST RD MOUNT WAVERLEY - CLEAN.dwg" FILE NAME: G30275-01 SHEET NO.: 02



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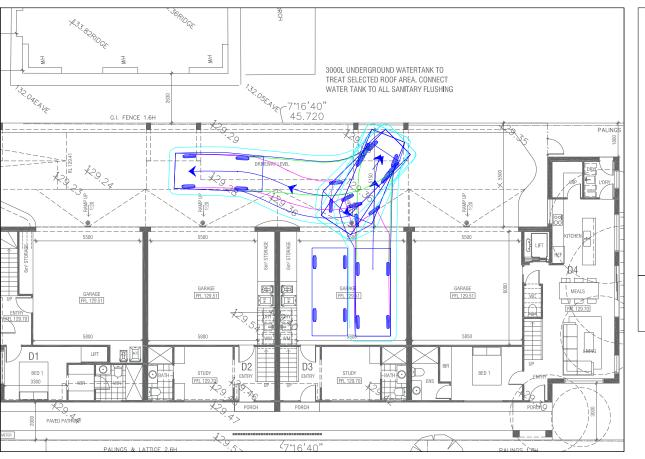
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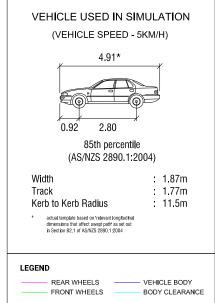
#### DWELLING 3 GARAGE - CAR SPACE 1 - INGRESS

## 3000L UNDERGROUND WATERTANK TO TREAT SELECTED ROOF AREA. CONNECT WATER TANK TO ALL SANITARY FLUSHING 7°16'40' 45.720 G.I. FENCE 1.6 GARAGE FFL 129.51 GARAGE FFL 129.51 GARAGE FFL 129.51 <sup>7</sup>16'40' PALINGS & LATTICE 2.6H

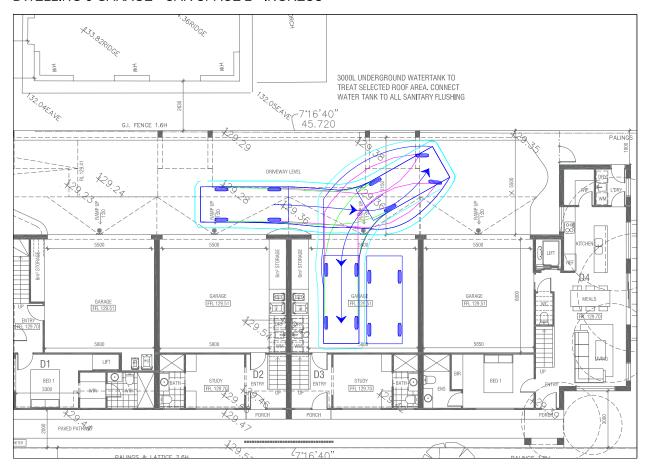
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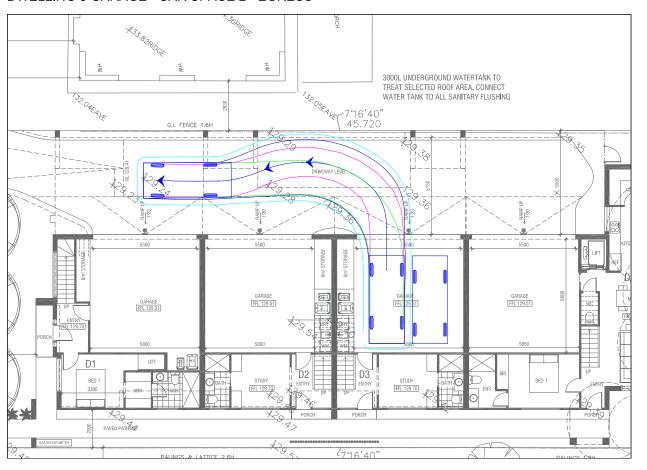
#### VEHICLE PROFILE



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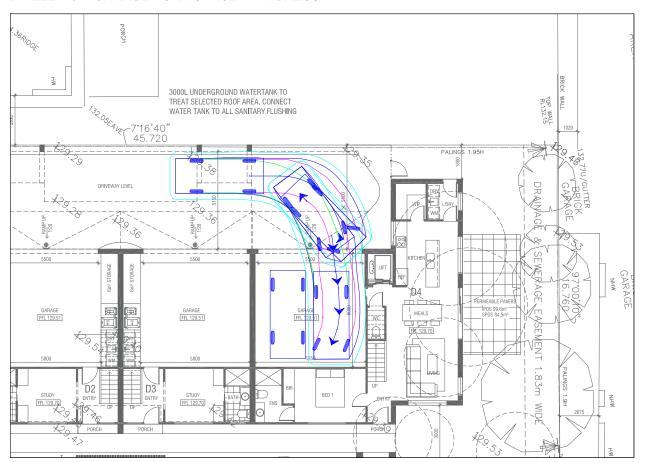


#### DWELLING 3 GARAGE - CAR SPACE 2 - EGRESS

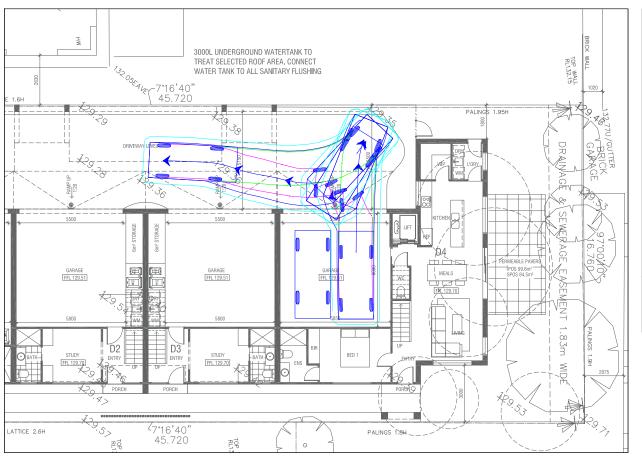




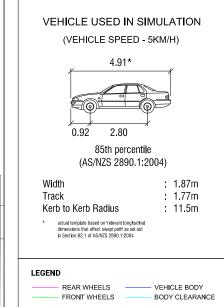
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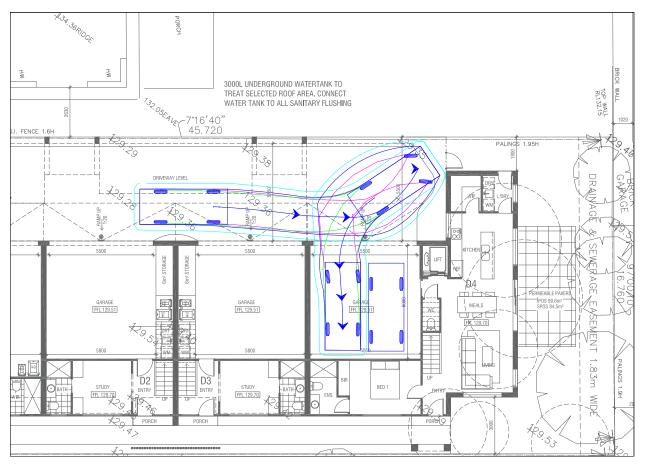
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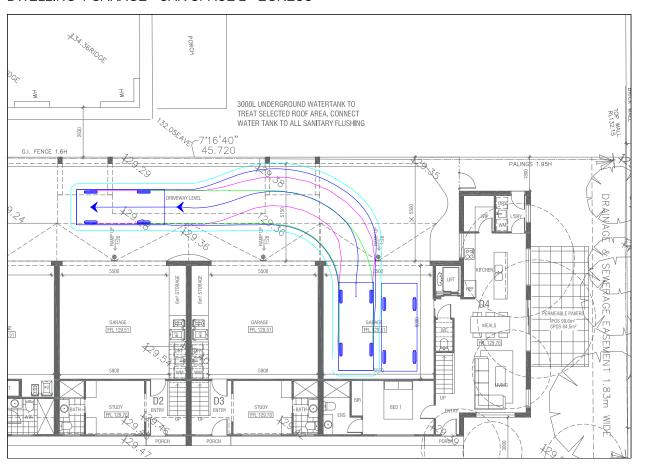
#### **VEHICLE PROFILE**



#### DWELLING 4 GARAGE - CAR SPACE 2 - INGRESS



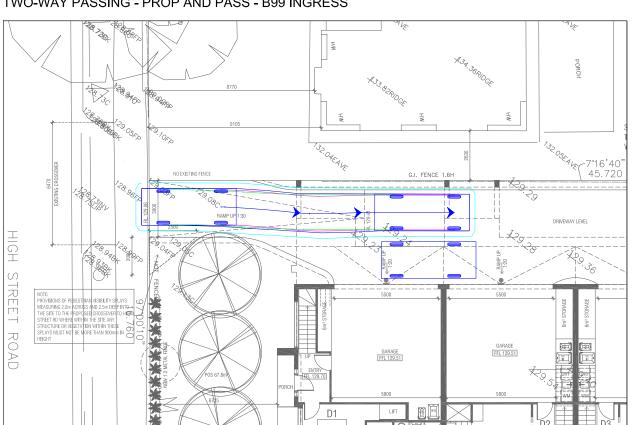
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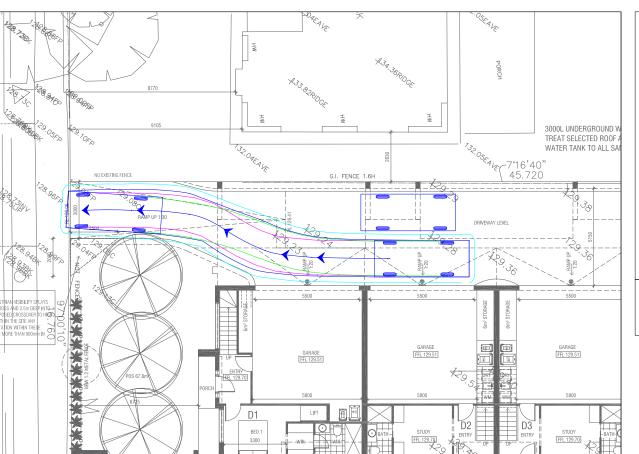




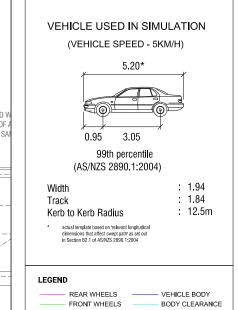
#### TWO-WAY PASSING - PROP AND PASS - B99 INGRESS



#### TWO-WAY PASSING - PROP AND PASS - B99 EGRESS



#### VEHICLE PROFILE





FILE NAME: G30275-01

SHEET NO.: 05

