



28 May 2020

The General Manager  
Penrith City Council  
PO Box 60  
Penrith  
NSW 2571

Attention: The General Manager

Dear Sir / Madam,

**PASSENGER VEHICLE MANOEUVRING WITHIN PROPOSED SENIORS LIVING RESIDENTIAL  
DEVELOPMENT  
8 LINKSVIEW AVENUE, PENRITH**

This Practice has been engaged by Glenstone Constructions to undertake an assessment of the ability or otherwise of passenger vehicles to access and vacate internal vehicle parking spaces within the proposed seniors living residential development at 8 Linksview Avenue, Penrith.

The Development Application seeks consent for the construction of a multi-dwelling seniors living residential development comprising five dwellings. Each of the dwellings are proposed to be serviced by single vehicle garages, linking with an internal circulation roadway connecting with Linksview Avenue via a single combined / ingress driveway approximately central to the site frontage to that roadway.

In order to demonstrate the internal passenger vehicle manoeuvrability to and from the development parking spaces, this Practice has prepared a number of swept path plans which are included as **Appendix 1**. The turning paths provided on the plans have been generated using the abovementioned amended architectural plan as a base, Autoturn software and B99 and B85 vehicle specifications provided within AS2890.1:2004.

Section B4.4 of AS2890.1:2004 states the following with respect to the use of swept path templates to assess vehicle manoeuvring:

*'Constant radius swept turning paths, based on the design vehicle's minimum turning circle are not suitable for determining the aisle width needed for manoeuvring into and out of parking spaces. Drivers can manoeuvre vehicles within smaller spaces than swept turning paths would suggest.'*

It would therefore appear that whilst the turning paths provided within AS2890.1:2004 can be utilised to provide a 'general indication' of the suitability or otherwise of internal parking and manoeuvring areas, vehicles can generally manoeuvre more efficiently than the paths indicate. Notwithstanding this, the swept path plans illustrate the following:

- B85 and B99 passenger vehicles with 300mm manoeuvring clearances are capable of entering and exiting the site in a forward direction in combination with each other, without encroachment on driveway extents, public roadway kerbs and / or the opposing Linksview Avenue travel lane; and
- B85 vehicles with 300mm manoeuvring clearances are capable of reversing from the internal circulation roadway to allow all internal vehicular parking garages and thence exiting the garages (and site) in a forward direction without encroachment on internal obstructions.

Passenger vehicles are therefore concluded to be capable of accessing and vacating the subject site and all internal vehicle parking spaces within the proposed residential development with a reasonable level of safety and efficiency.

It would be appreciated if the information contained within and appended to this correspondence could be incorporated within Council's assessment of the subject application.

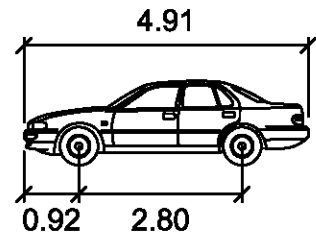
Submitted for your consideration.

Yours sincerely,



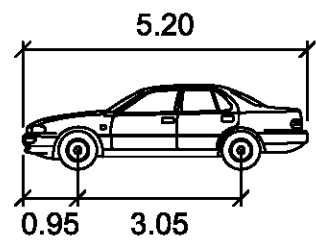
**Morgan Stanbury**  
**Director**  
**Traffic Engineer**

# APPENDIX 1



**B85**

	meters
Width	: 1.87
Track	: 1.77
Lock to Lock Time	: 6.0
Steering Angle	: 34.1

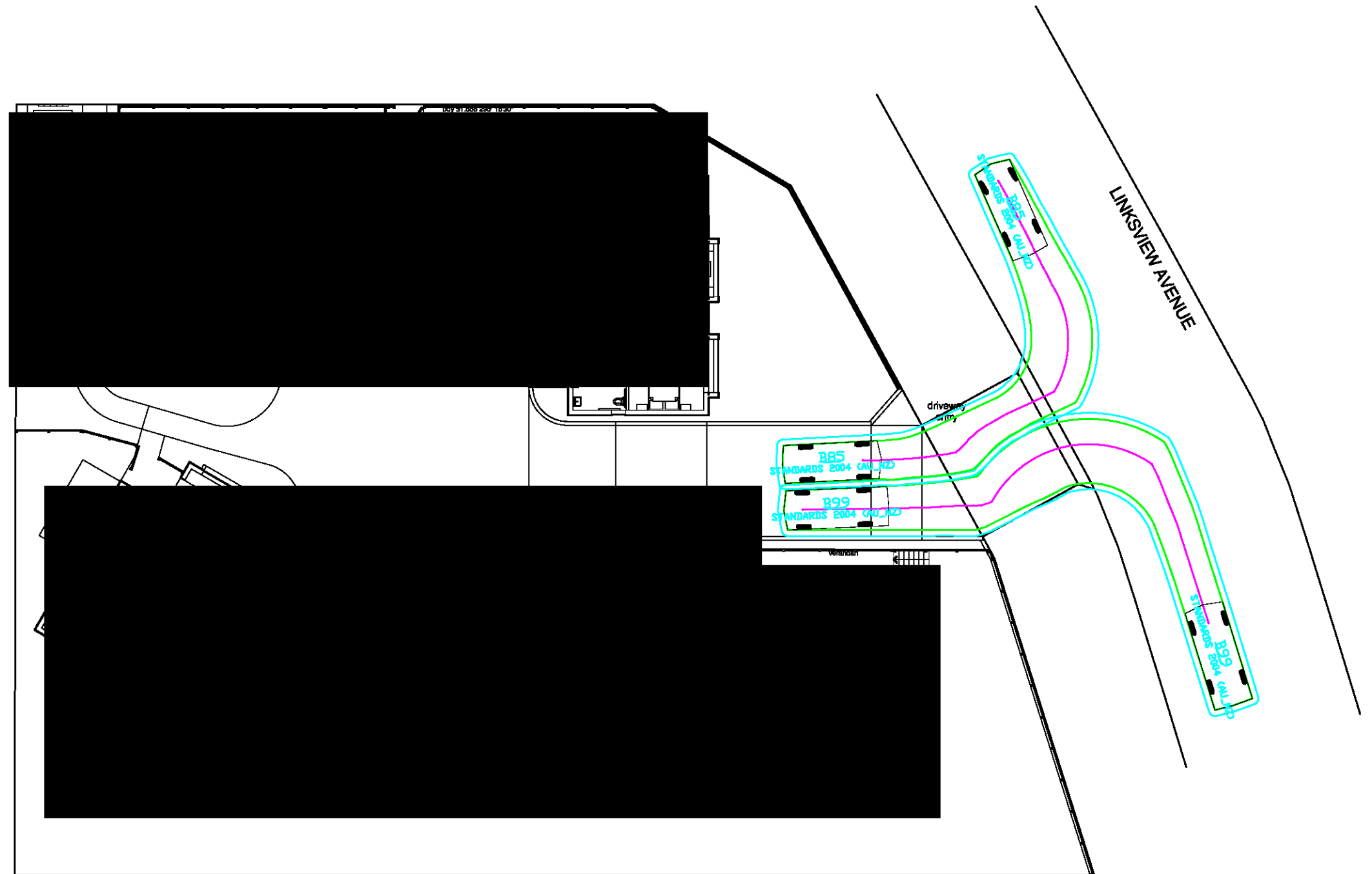


**B99**

	meters
Width	: 1.94
Track	: 1.84
Lock to Lock Time	: 6.0
Steering Angle	: 33.9

**LEGEND**

- VEHICLE BODY PATH (INCLUDING OVERHANG)
- MANOEUVRING CLEARANCE (300mm)



**STANBURY TRAFFIC PLANNING**  
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 WEBSITE: www.stanburytraffic.com.au

**NOTES:**  
 1. THIS PLAN IS BASED ON ARCHITECTURAL PLANS PREPARED BY INTEGRATED DESIGN GROUP.  
 2. THE SWEEP PATHS PROVIDED ON THIS PLAN HAVE BEEN GENERATED UTILISING AUTOTURN PRO VERSION 10 IN CONJUNCTION WITH B99 & B85 PASSENGER VEHICLE MANOEUVRING SPECIFICATIONS IN ACCORDANCE WITH THE AUSTRALIAN STANDARD FOR PARKING FACILITIES PART 1: OFF-STREET CAR PARKING (AS2890.1:2004).

**STANBURY TRAFFIC PLANNING**  
 PASSENGER VEHICLE SWEEP PATHS  
 SITE INGRESS / EGRESS MOVEMENTS  
 PROPOSED SENIORS LIVING RESIDENTIAL DEVELOPMENT  
 8 LINKSVIEW AVENUE, LEONAY

SCALE: 1:250 AT A3

FILE: 20-102

DATE: 28/05/2020

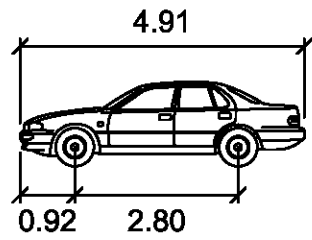
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ISSUE

**A**

SHEET

**1**

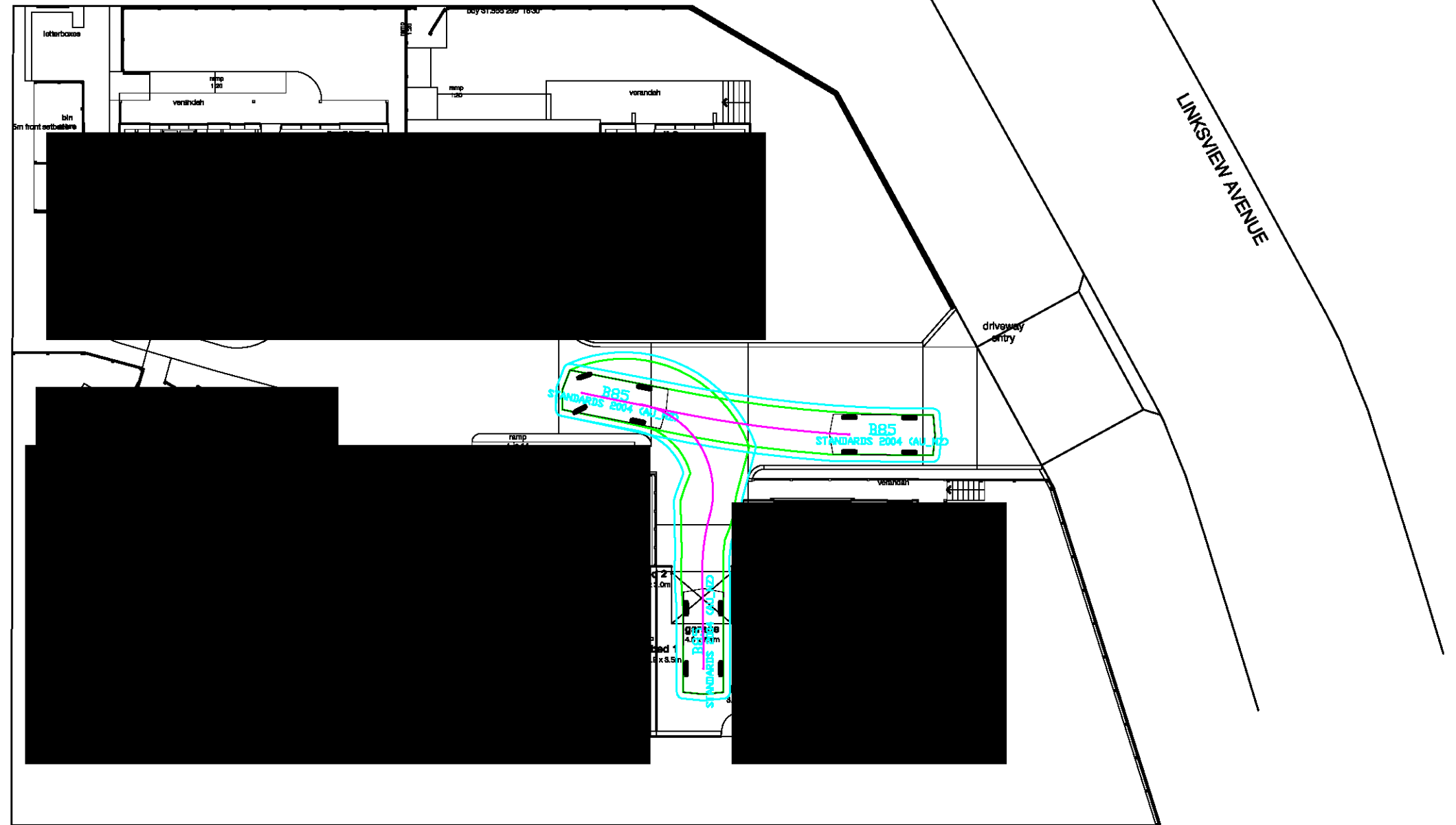


**B85**

	meters
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**LEGEND**

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 PASSENGER VEHICLE SWEEP PATHS  
 UNIT 3 GARAGE SPACE INGRESS MOVEMENT  
 PROPOSED SENIORS LIVING RESIDENTIAL DEVELOPMENT  
 8 LINKSVIEW AVENUE, LEONAY

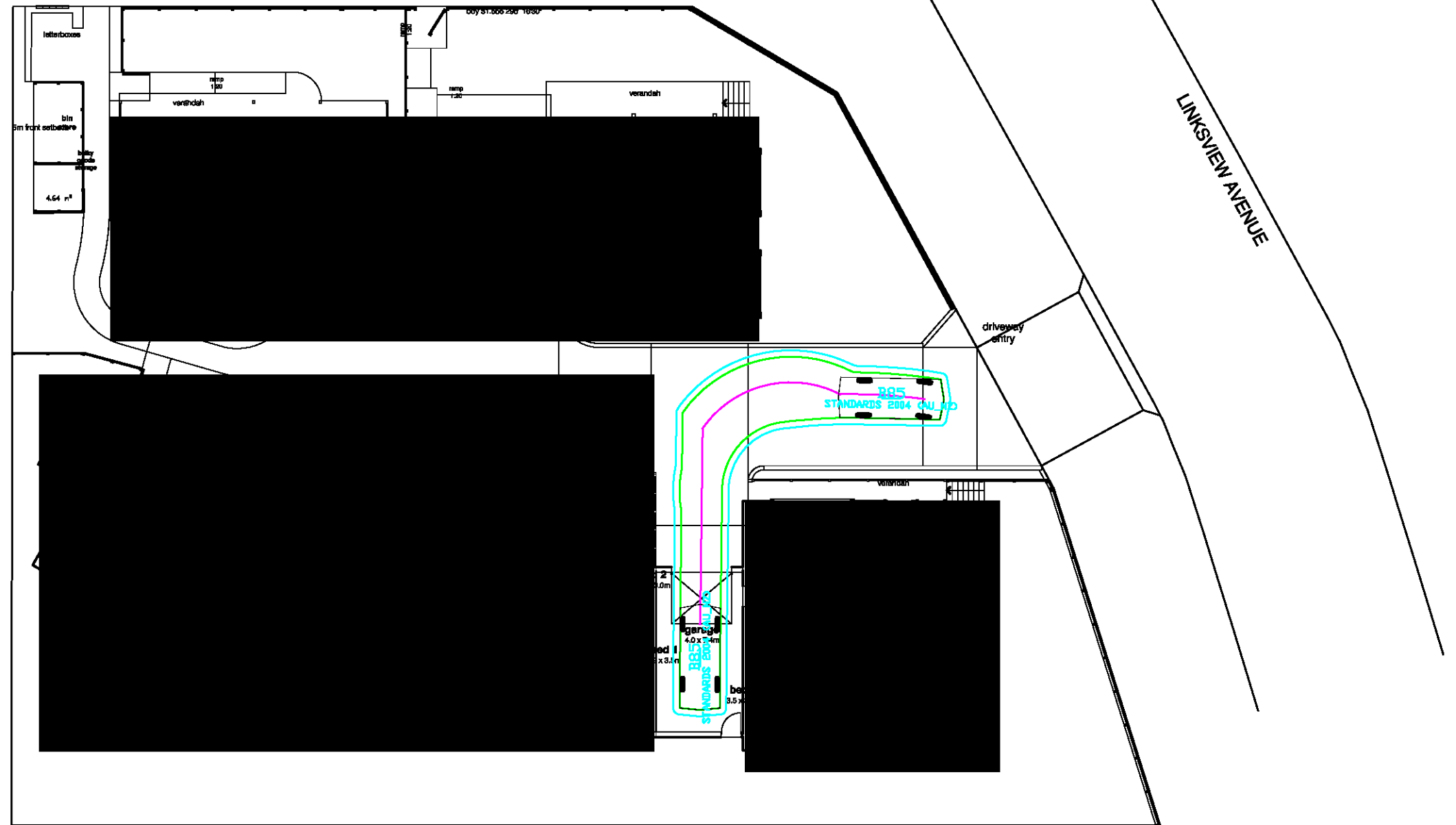
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 UNIT 3 GARAGE SPACE EGRESS MOVEMENT  
 PROPOSED SENIORS LIVING RESIDENTIAL DEVELOPMENT  
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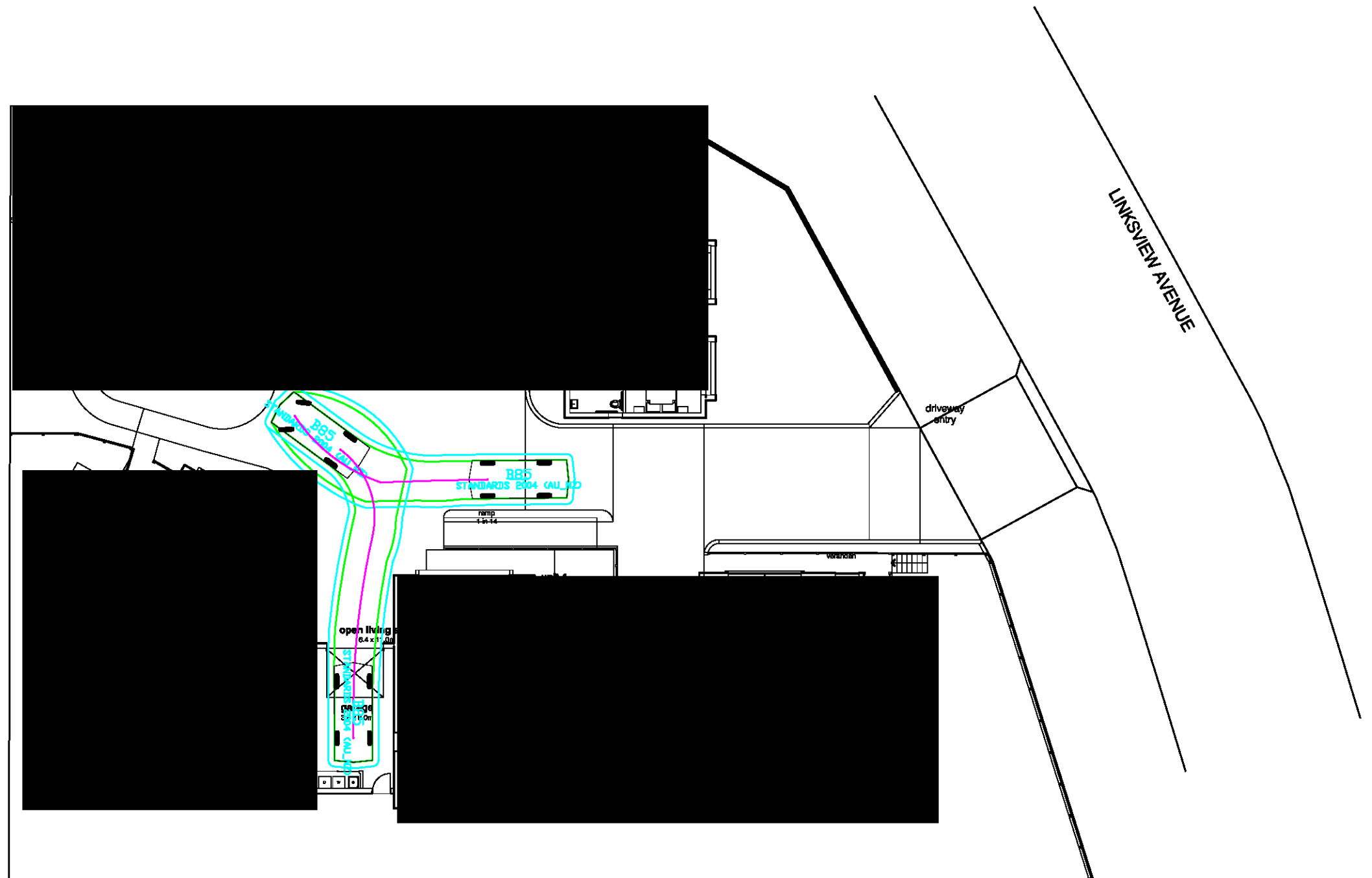
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SCALE: 1:250 AT A3

FILE: 20-102

DATE: 28/05/2020

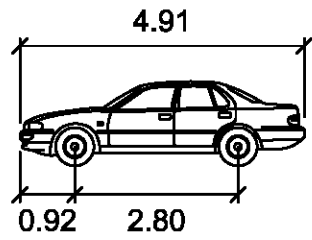
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ISSUE

**A**

SHEET

**4**

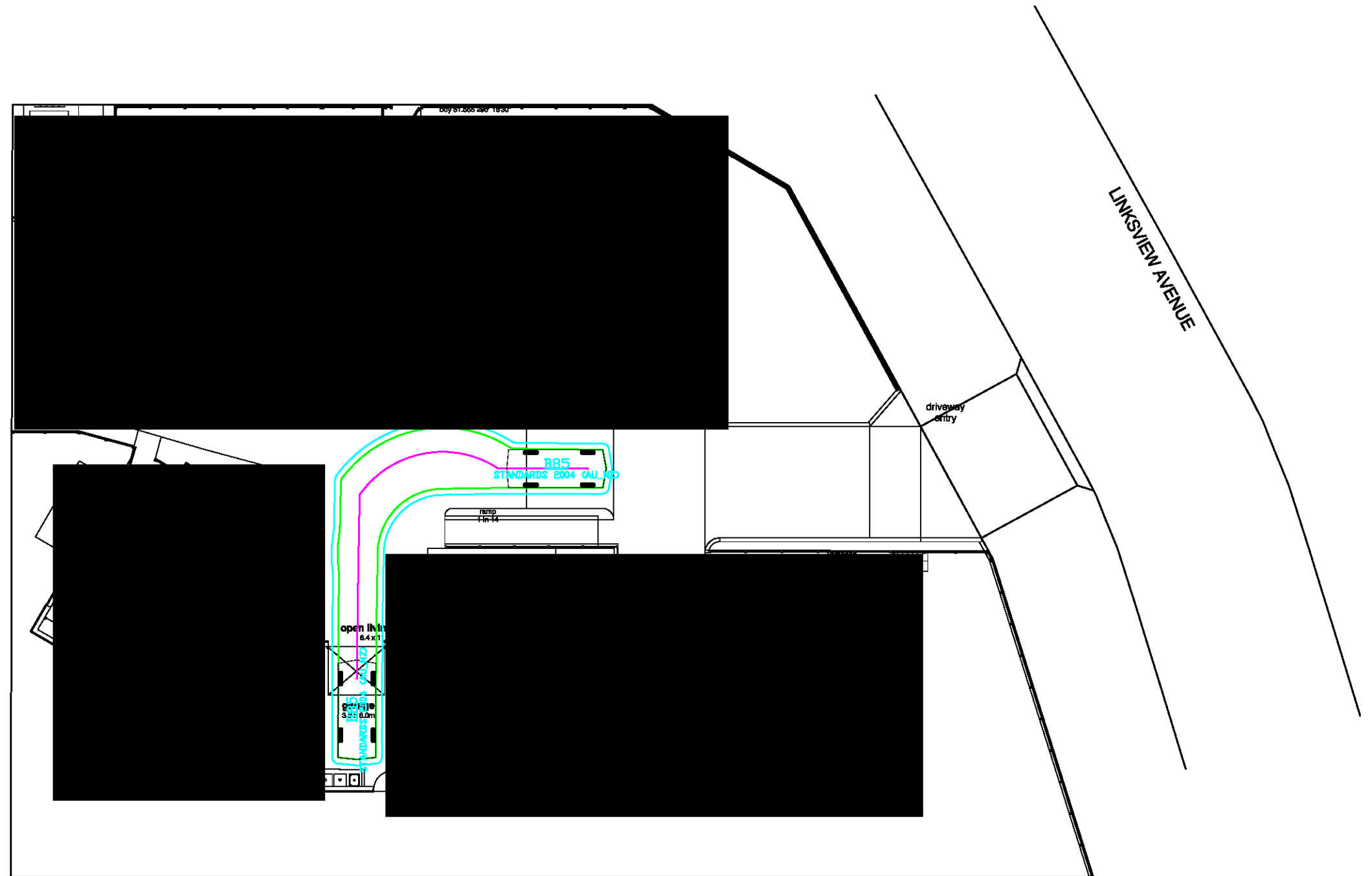


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**LEGEND**

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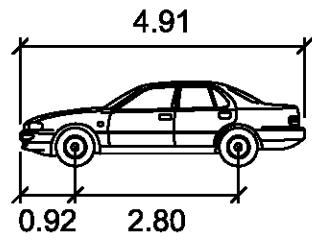
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 8 LINKSVIEW AVENUE, LEONAY

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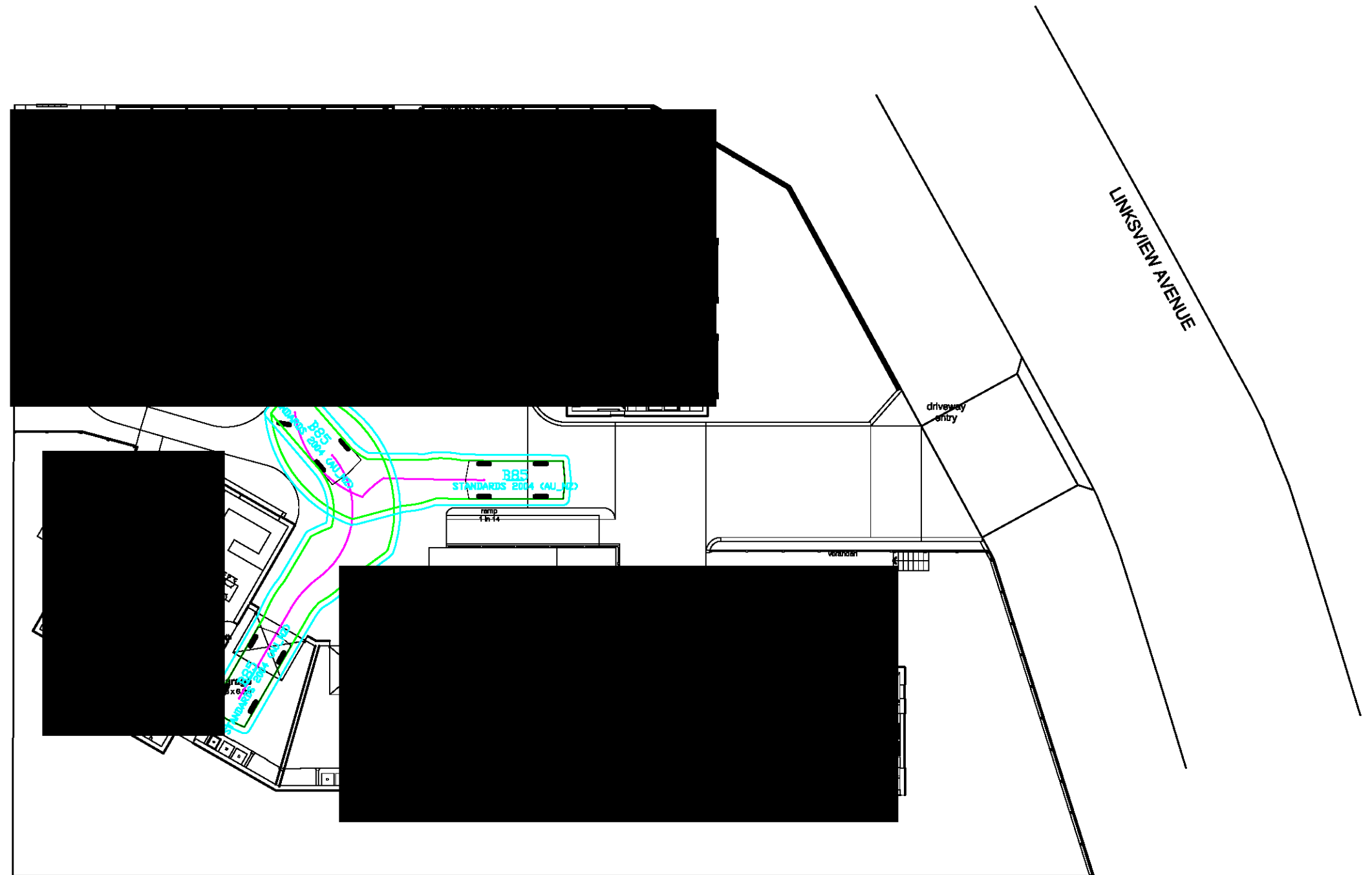


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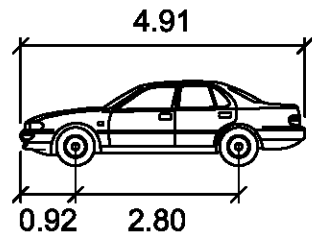


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 UNIT 5 GARAGE SPACE INGRESS MOVEMENT  
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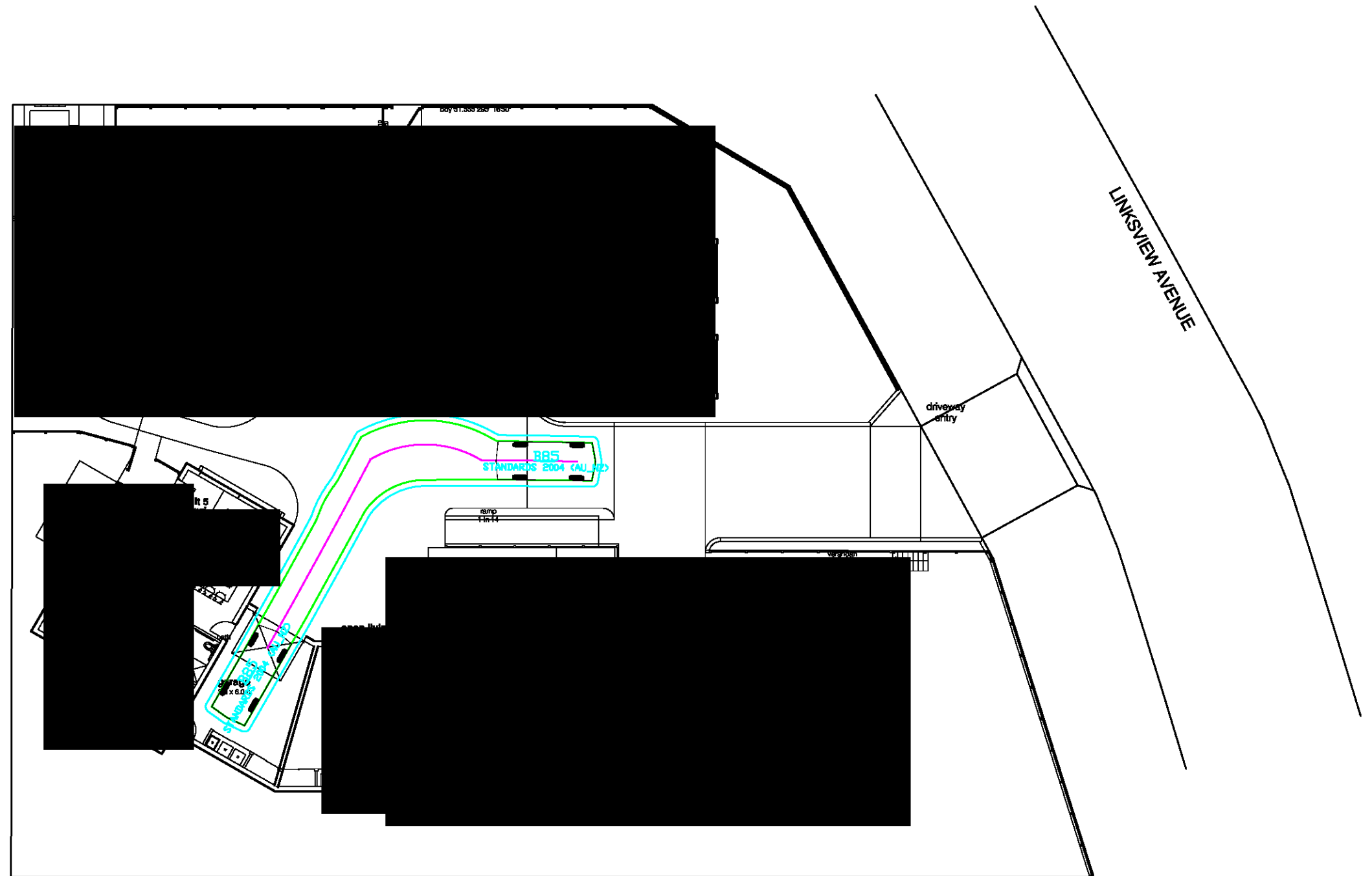


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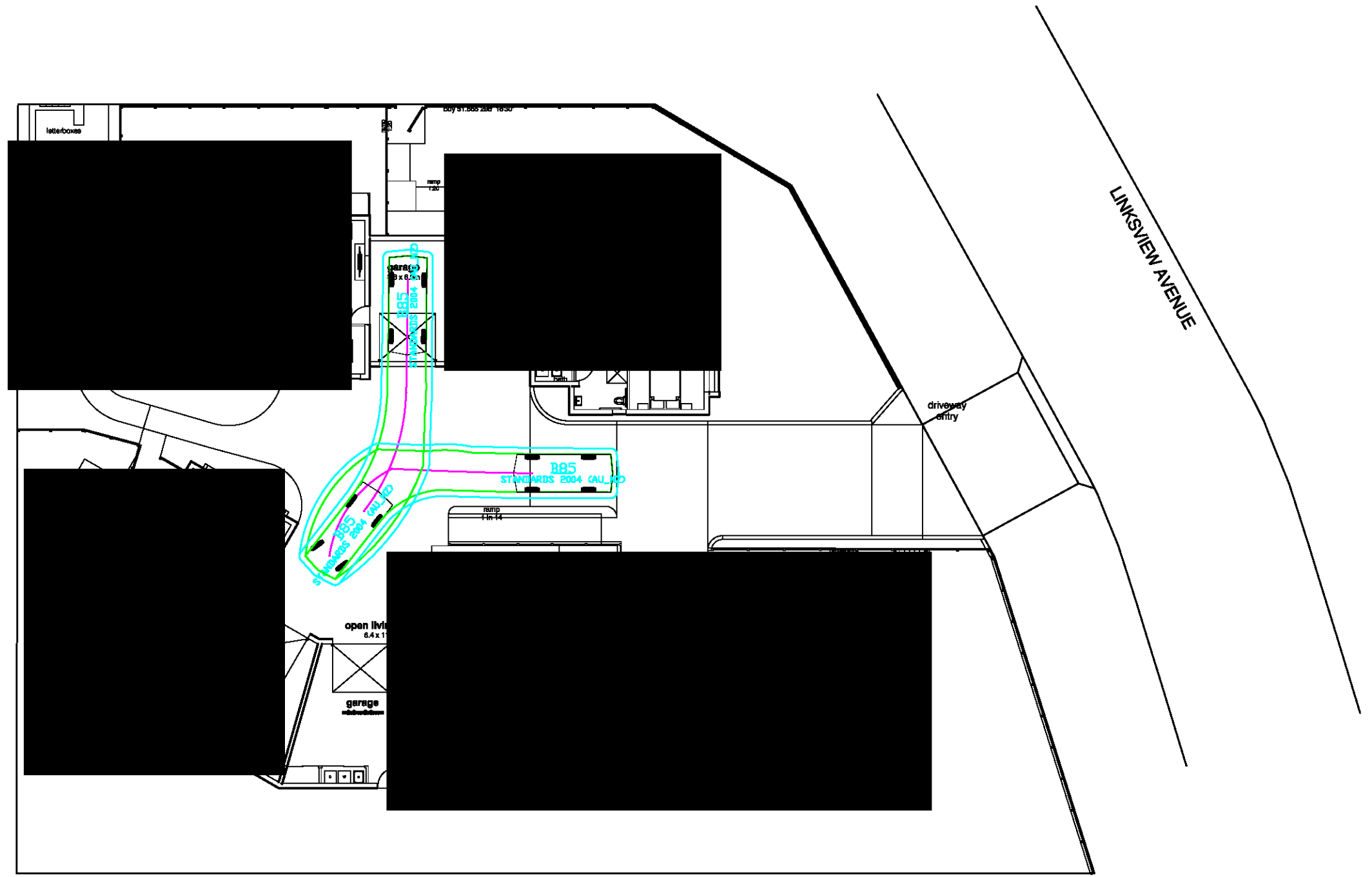
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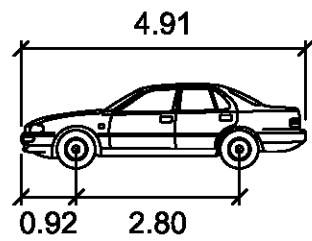
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<p><b>STANBURY TRAFFIC PLANNING</b> <small>TRAFFIC, PARKING &amp; TRANSPORT CONSULTANTS</small></p>	<p><b>STANBURY TRAFFIC PLANNING</b> ADDRESS: 302/166 GLEBE POINT RD, GLEBE PH: (02) 8971 8314 MOB: 0410 561 848 EMAIL: info@stanburytraffic.com.au WEBSITE: www.stanburytraffic.com.au</p>	<p><b>NOTES:</b></p> <p>1. THIS PLAN IS BASED ON ARCHITECTURAL PLANS PREPARED BY INTEGRATED DESIGN GROUP.</p> <p>2. THE SWEEP PATHS PROVIDED ON THIS PLAN HAVE BEEN GENERATED UTILISING AUTOTURN PRO VERSION 10 IN CONJUNCTION WITH B85 PASSENGER VEHICLE MANOEUVRING SPECIFICATIONS IN ACCORDANCE WITH THE AUSTRALIAN STANDARD FOR PARKING FACILITIES PART 1: OFF-STREET CAR PARKING (AS2880.1:2004).</p>	<p><b>STANBURY TRAFFIC PLANNING</b></p> <p>PASSENGER VEHICLE SWEEP PATHS</p> <p>UNIT 1 GARAGE SPACE INGRESS MOVEMENT</p> <p>PROPOSED SENIORS LIVING RESIDENTIAL DEVELOPMENT</p> <p>8 LINKSVIEW AVENUE, LEONAY</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td colspan="2">SCALE: 1:250 AT A3</td> <td rowspan="2" style="text-align: center; vertical-align: middle;"><b>A</b></td> </tr> <tr> <td>FILE: 20-102</td> <td>SUPERSEDES SHEET/ISSUE -</td> </tr> <tr> <td colspan="2">DATE: 28/05/2020</td> <td style="text-align: center; vertical-align: middle;"><b>8</b></td> </tr> </table>	SCALE: 1:250 AT A3		<b>A</b>	FILE: 20-102	SUPERSEDES SHEET/ISSUE -	DATE: 28/05/2020		<b>8</b>
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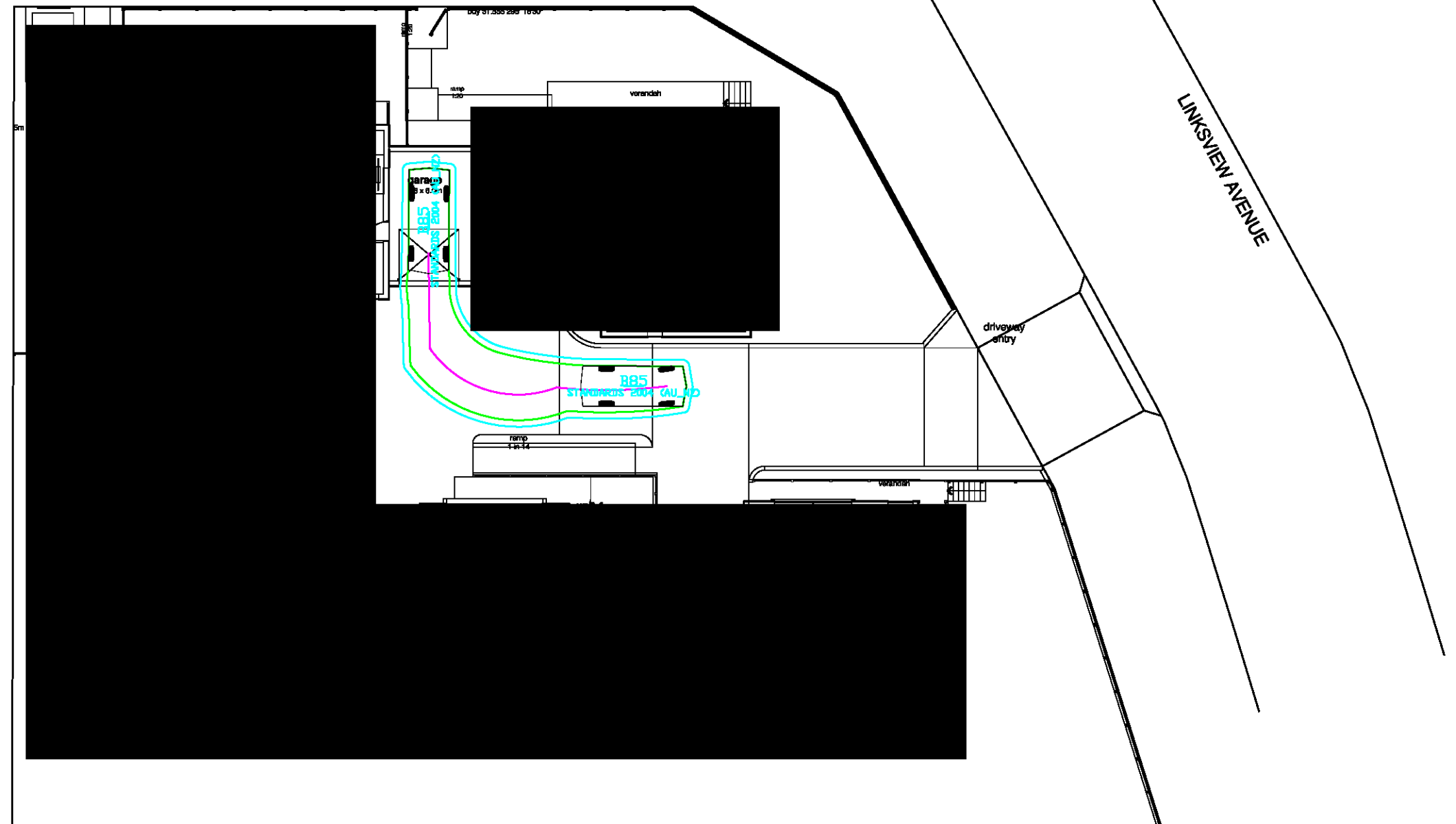


**B85**

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**LEGEND**

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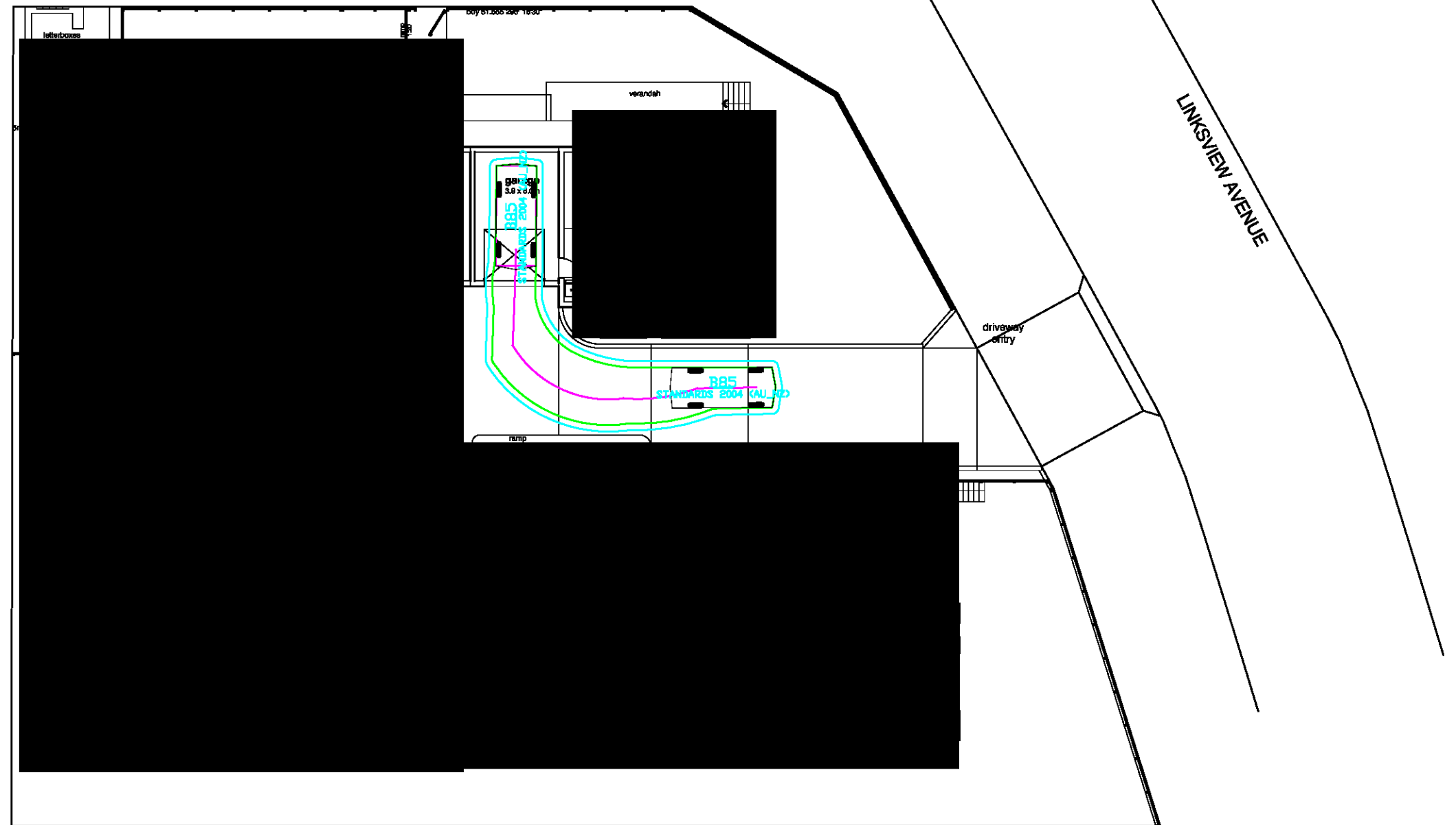
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