

# Attachments

## Ordinary Council Meeting

Tuesday 29 January 2019

<b>9.1.1</b>	<b>25 Holland Road, Blackburn South (Lot 1 TP 599873E) Construction of five double storey dwellings, associated front fence and other works</b>	
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9.1.1            25 Holland Road, Blackburn  
                     South (Lot 1 TP  
                     599873E) Construction of five  
                     double storey dwellings,  
                     associated front fence and other  
                     works

Attachment 1    Advertised Plans

Attachment 2    Without Prejudice Plans



9.1.1 – ATTACHMENT 1.

Advertised Plans

SHEET LIST		
No.	Sheet Name	Rev
A001	FRONT COVER	B
A002	EXISTING SITE LAYOUT/DEMOLITION PLAN	B
A003	NEIGHBOURHOOD & SITE DESCRIPTION	B
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A101	PROPOSED OVERALL SITE PLAN	B
A102	PROPOSED SITE PLAN	B
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A104	PROPOSED GROUND FLOOR PLAN	B
A105	PROPOSED FIRST FLOOR PLAN	B
A110	PROPOSED ROOF PLAN	B
A120	GARDEN AREA	A
A201	PROPOSED SECTIONS	B
A301	PROPOSED ELEVATIONS	B
A302	PROPOSED ELEVATIONS	B
A303	PROPOSED ELEVATIONS - ADJOINING VIEW	B
A304	PROPOSED ELEVATIONS - ADJOINING VIEW	B
A401	SHADOW DIAGRAM - 9AM SEPTEMBER EQUINOX	B
A402	SHADOW DIAGRAM - 12PM SEPTEMBER EQUINOX	B
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A501	3D IMAGES 01	B
A502	3D IMAGES 02	B
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PROPOSED RESIDENTIAL DEVELOPMENT

25 HOLLAND ROAD

BLACKBURN SOUTH, VIC 3130

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ISSUE	DESCRIPTION	DATE
A	ISSUED FOR TOWN PLANNING PURPOSES	27.06.18
B	REVISED FOR TOWN PLANNING PURPOSES	01.10.18

ISSUED FOR  
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PURPOSES ONLY



PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
FRONT COVER  
Date: 27.06.18 Drawn: DL  
Job No: 2617 Scale: 1:1 : 400  
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TP A001 B



### 9.1.1 – ATTACHMENT 1.      Advertised Plans





9.1.1 – ATTACHMENT 1.

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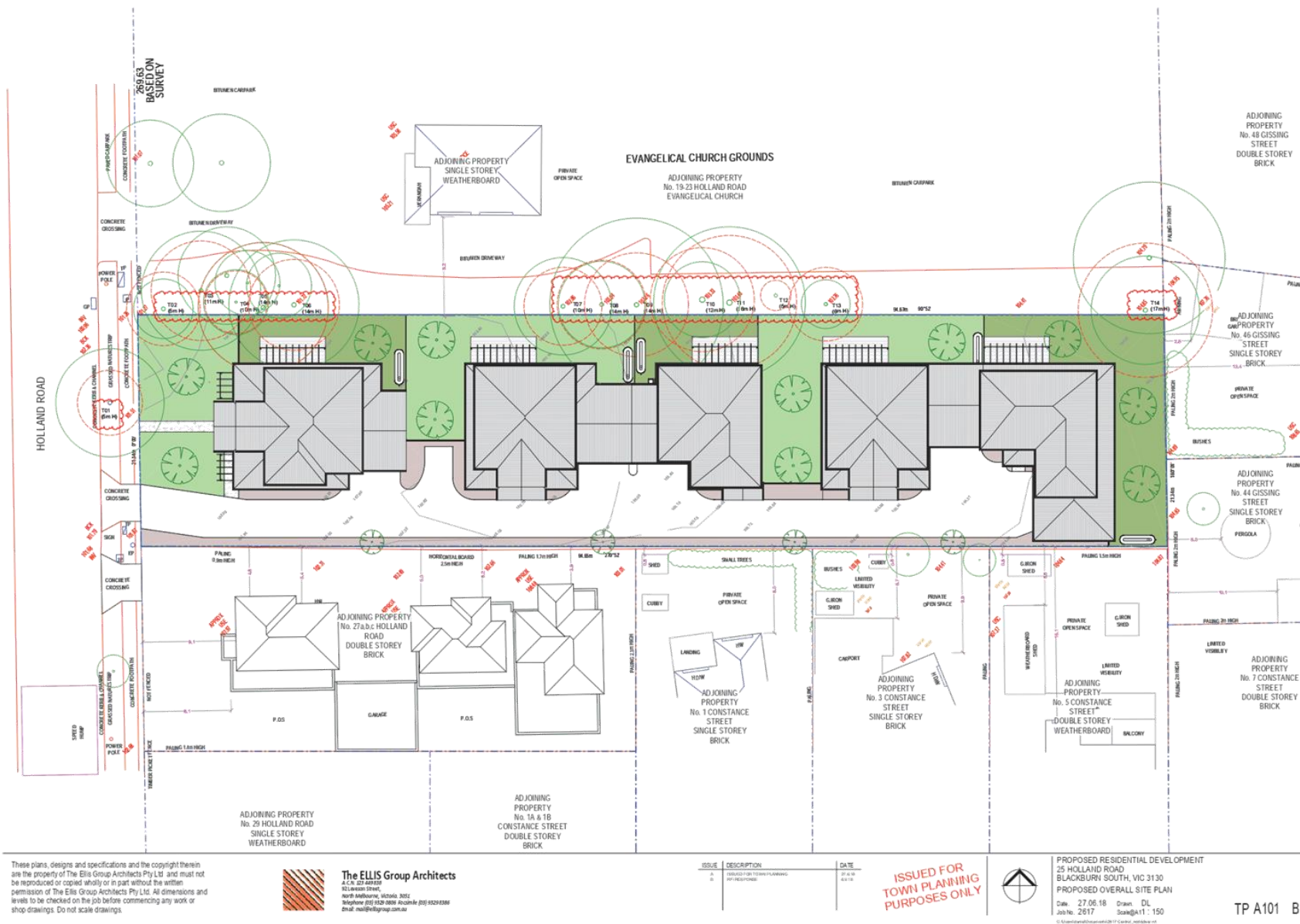
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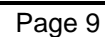




9.1.1 – ATTACHMENT 1. Advertised Plans

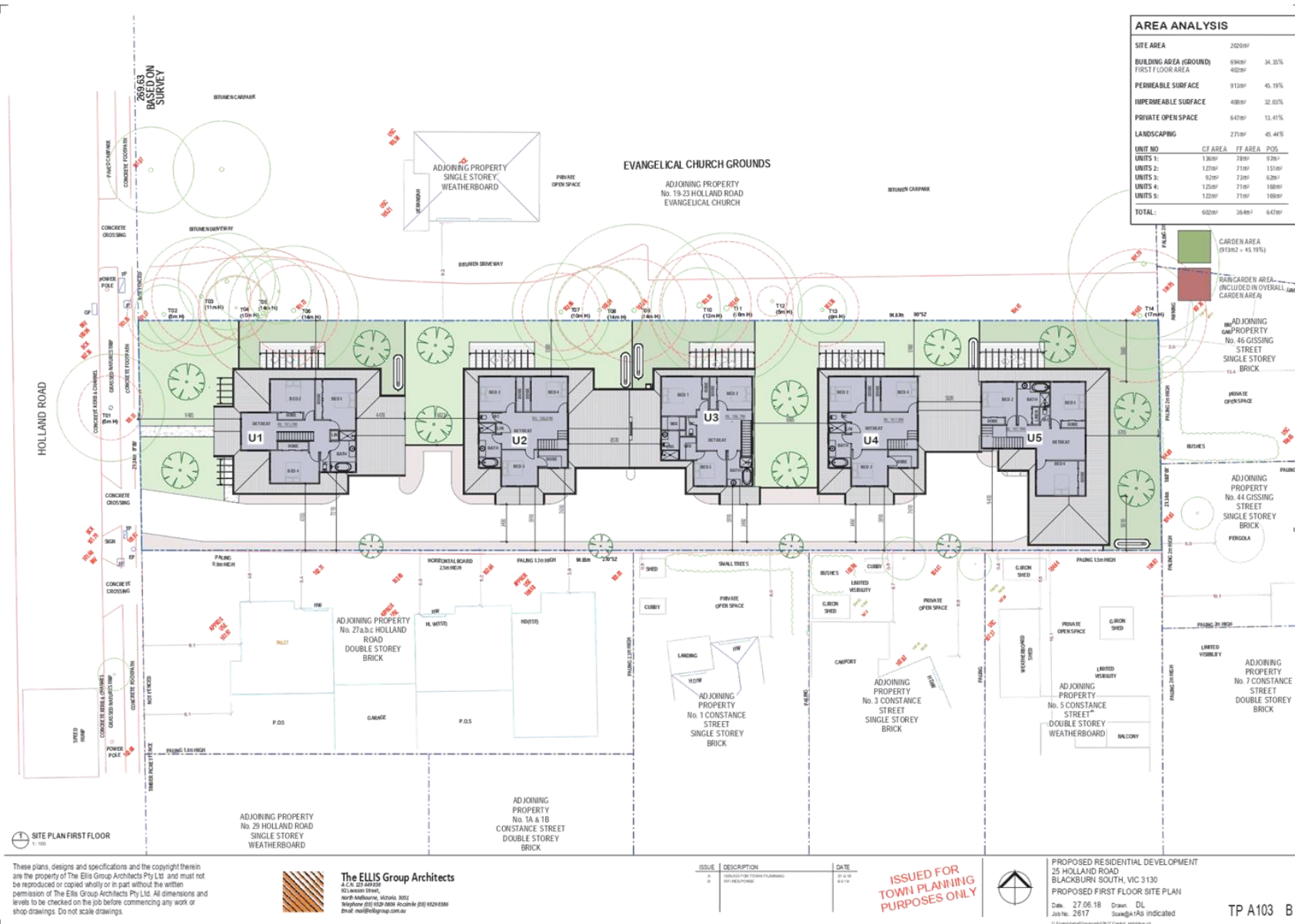


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9.1.1 – ATTACHMENT 1.

Advertised Plans





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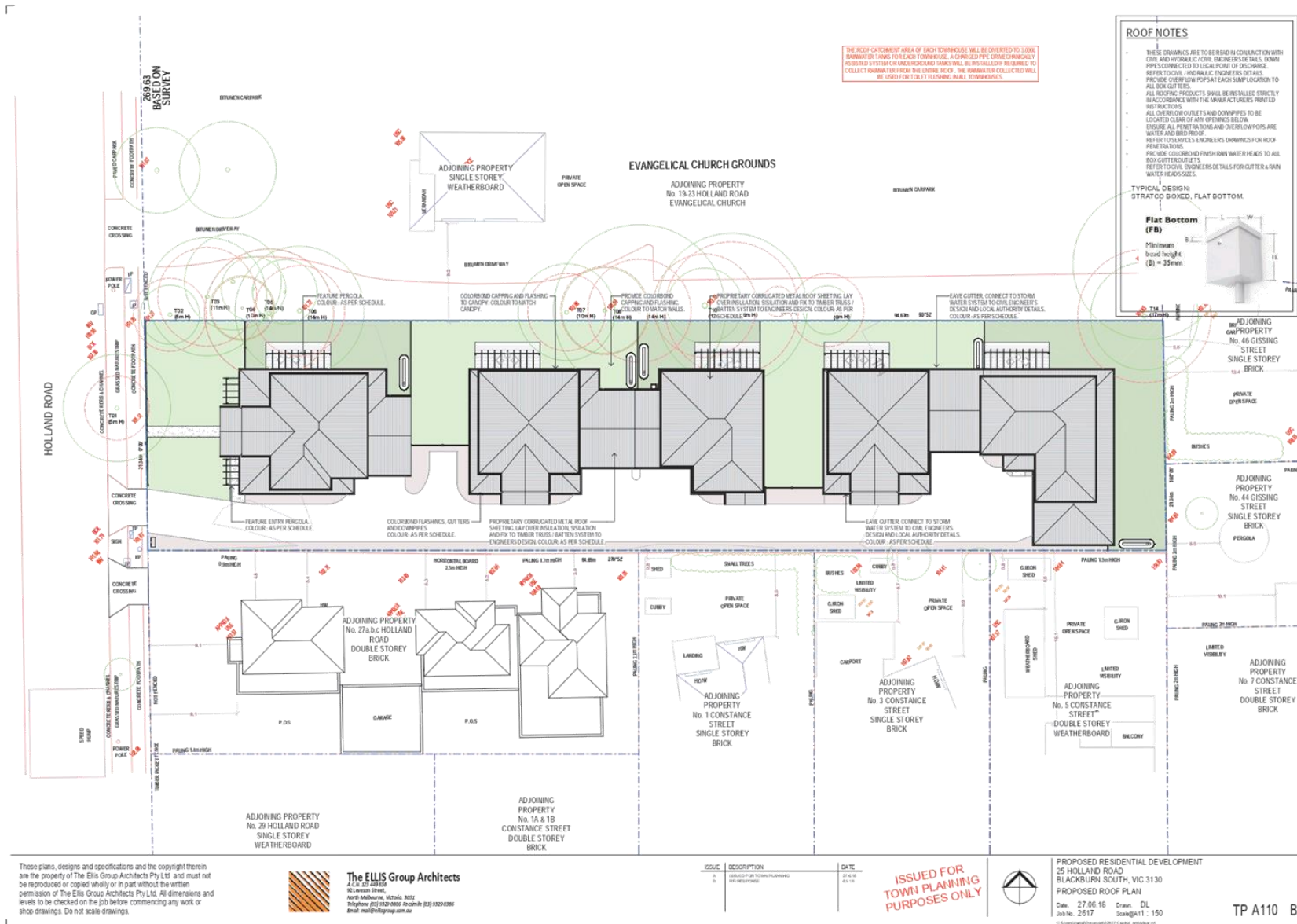


PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
PROPOSED FIRST FLOOR PLAN  
Date: 27.06.18 Drawn: DL  
Job No: 2617 Scale: 1:100  
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9.1.1 – ATTACHMENT 1.

Advertised Plans

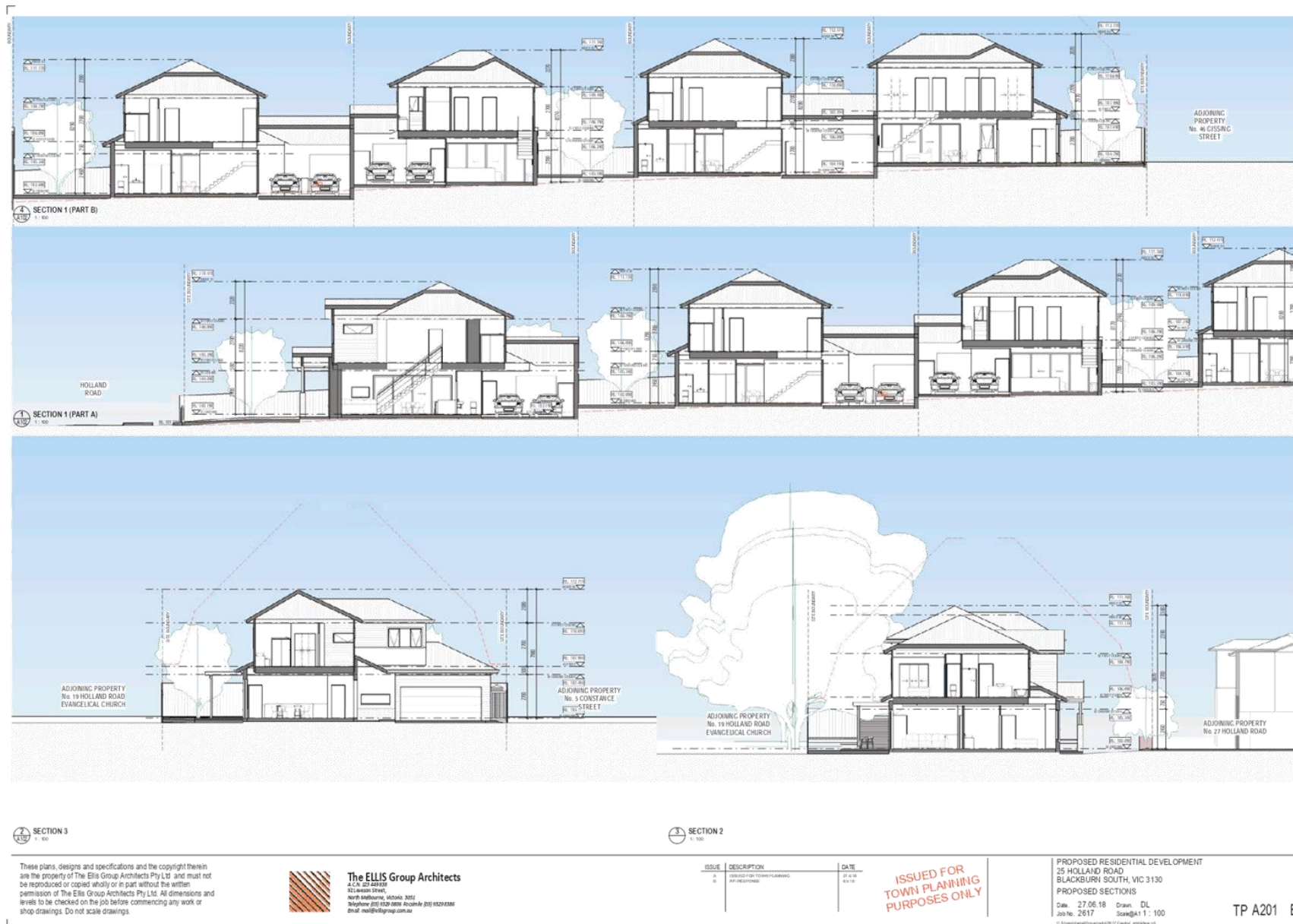




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9.1.1 – ATTACHMENT 1.      Advertised Plans





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ISSUE	DESCRIPTION	DATE
1	ISSUED FOR TOWN PLANNING PURPOSES ONLY	27.06.18

**ISSUED FOR TOWN PLANNING PURPOSES ONLY**

PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
PROPOSED ELEVATIONS  
Date: 27.06.18 Drawn: DL  
Job No: 2617 Scan: JAS indicated  
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9.1.1 – ATTACHMENT 1. Advertised Plans





9.1.1 – ATTACHMENT 1. Advertised Plans





9.1.1 – ATTACHMENT 1. Advertised Plans



2 SOUTH ELEVATION - ADJOINING VIEW  
1:100



3 NORTH ELEVATION - ADJOINING VIEW  
1:100

FINISHES SCHEDULE	
01	METAL ROOF SHEETING: COLORBOND WOOLAND GREY
02	WEATHERBOARD CLADDING: LIGHT GREY
03	APPLIED RENDER FINISH: GREY
04	BRICKWORK: GREY TONES
05	FACIA, GUTTER, TRIM: COLORBOND SLATIMIST
06	TILT PANEL DOOR: WHITE
07	GLASS DOUBLE GLAZING
08	TRIMS AND CLADDING: WHITE
09	SELECTED TIMBER LOOK

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PURPOSES ONLY**

PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
PROPOSED ELEVATIONS - ADJOINING VIEW  
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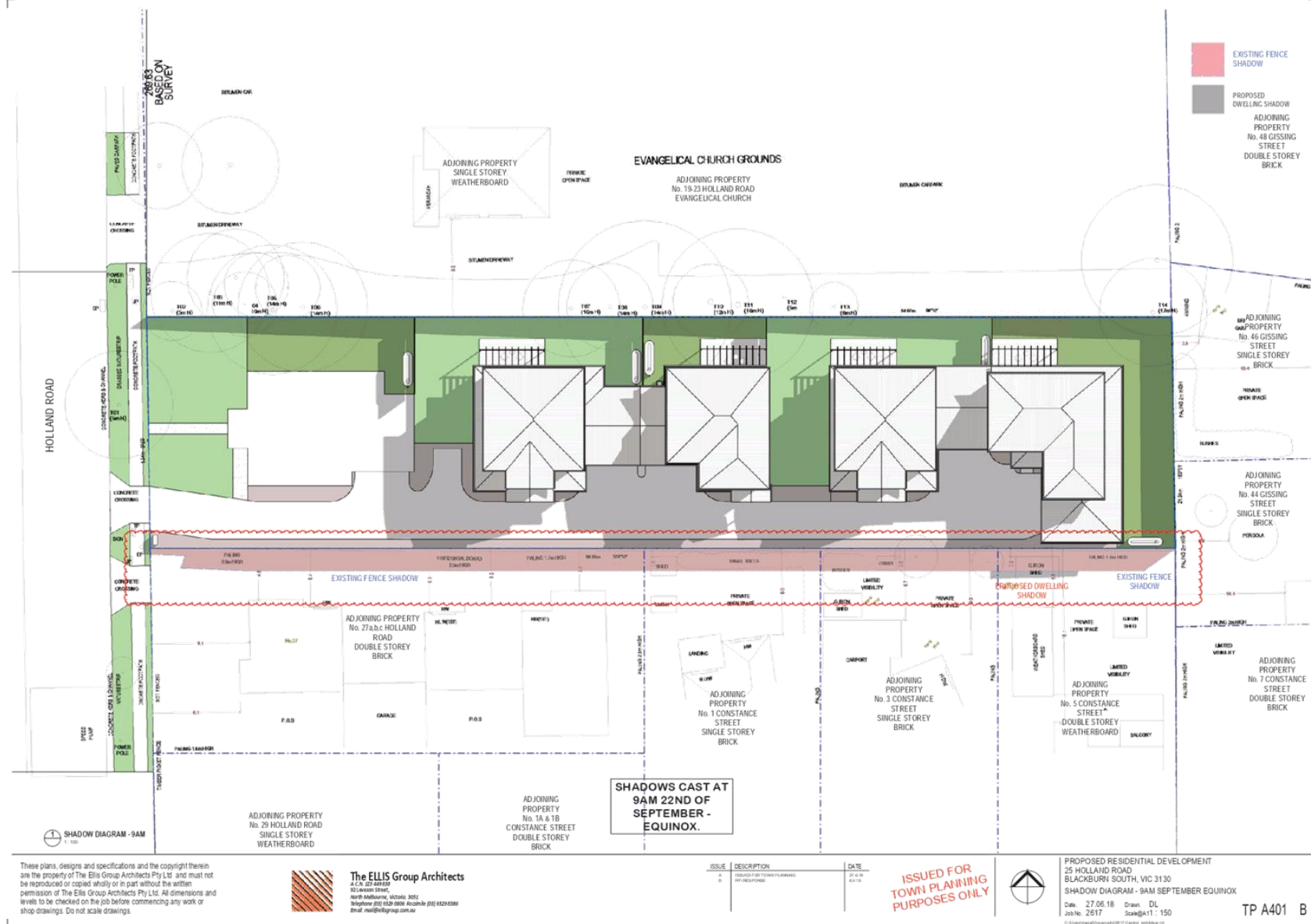
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PURPOSES ONLY

PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
PROPOSED ELEVATIONS - FENCING  
Date: 27.06.18 Drawn: SM  
Job no: 2617 Scale: As Indicated  
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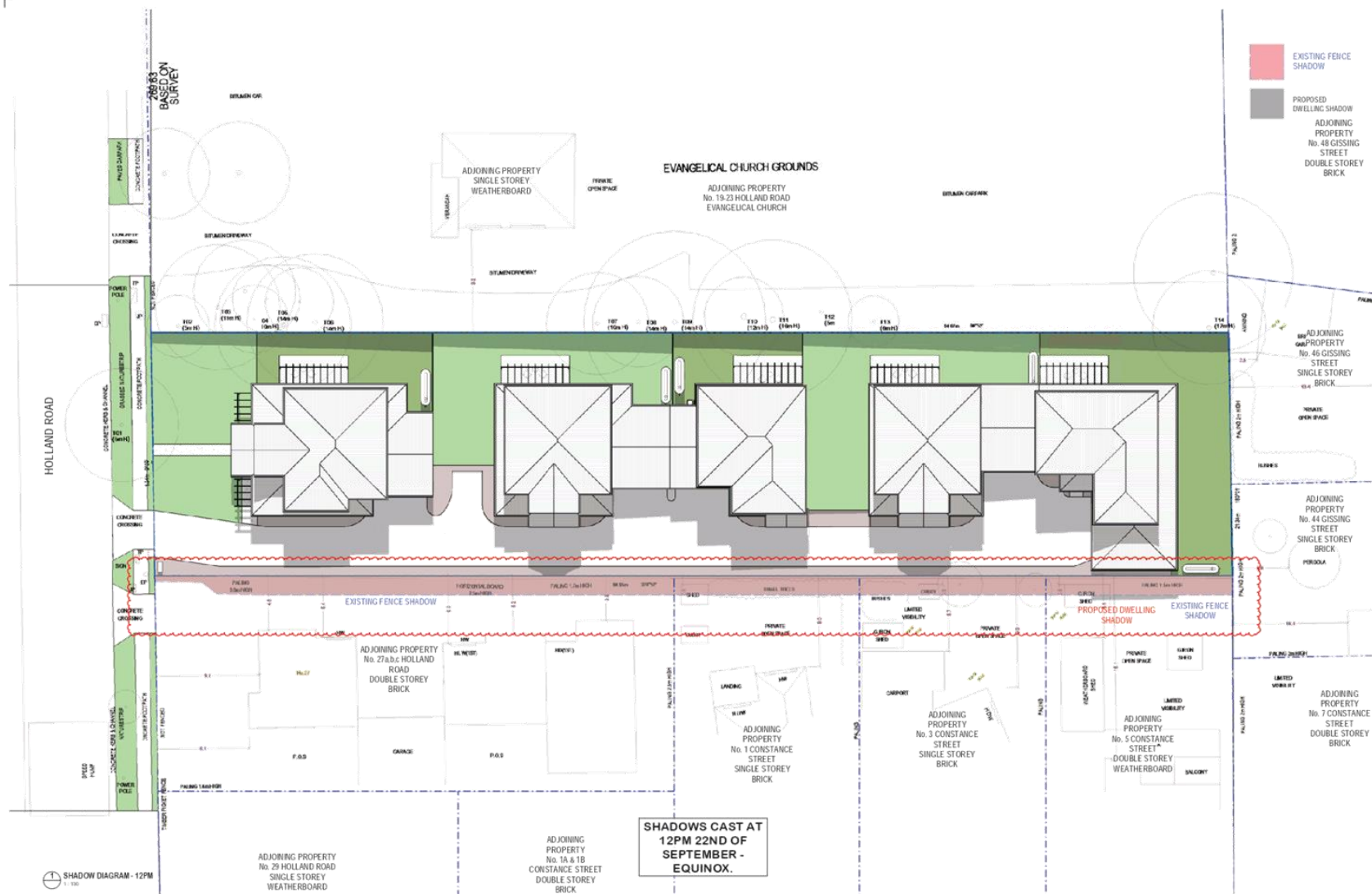
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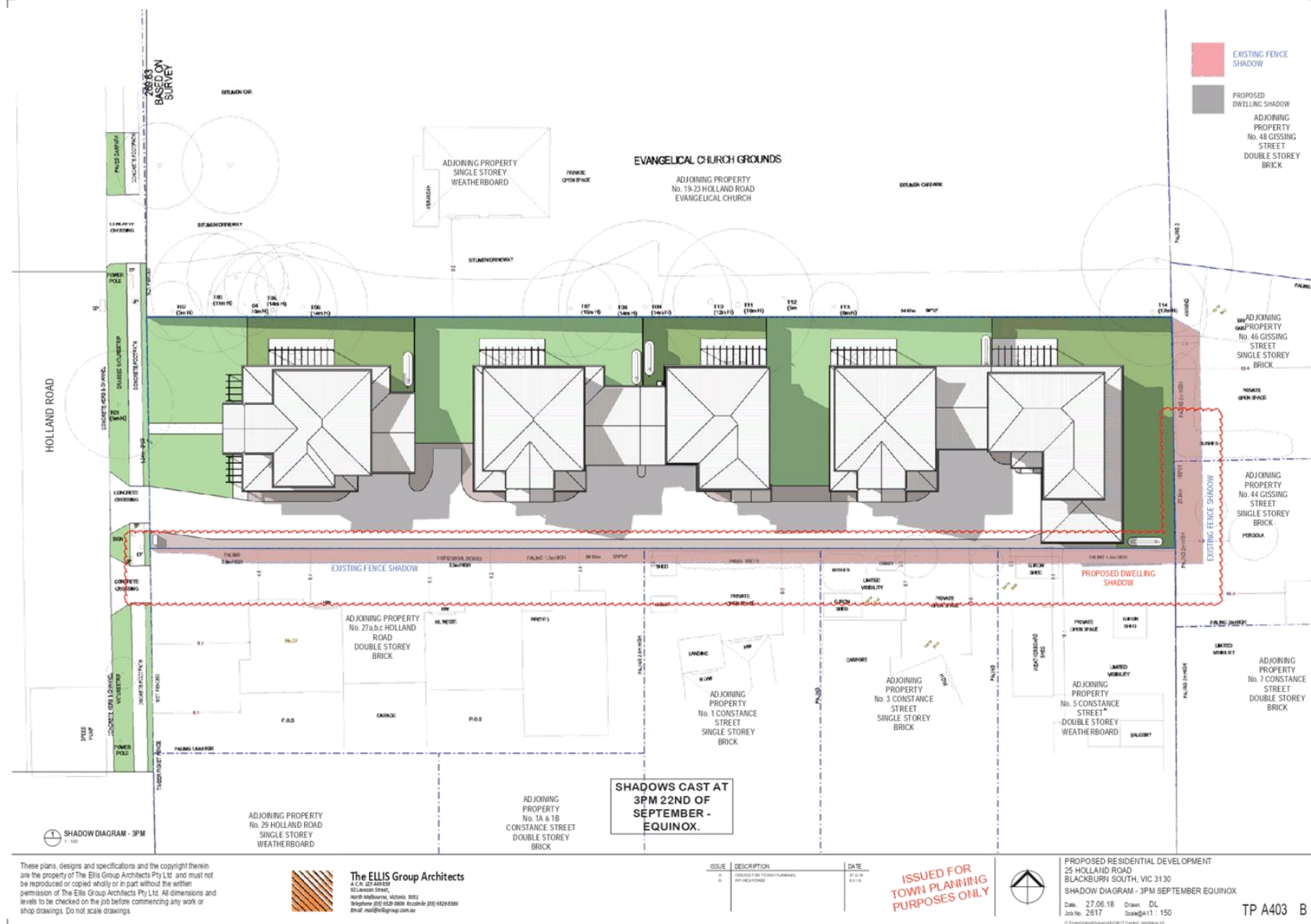


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A/CN 22/23/24/25  
92/1-10/11/12/13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31/32/33/34/35/36/37/38/39/40/41/42/43/44/45/46/47/48/49/50/51/52/53/54/55/56/57/58/59/60/61/62/63/64/65/66/67/68/69/70/71/72/73/74/75/76/77/78/79/80/81/82/83/84/85/86/87/88/89/90/91/92/93/94/95/96/97/98/99/100/101/102/103/104/105/106/107/108/109/110/111/112/113/114/115/116/117/118/119/120/121/122/123/124/125/126/127/128/129/130/131/132/133/134/135/136/137/138/139/140/141/142/143/144/145/146/147/148/149/150/151/152/153/154/155/156/157/158/159/160/161/162/163/164/165/166/167/168/169/170/171/172/173/174/175/176/177/178/179/180/181/182/183/184/185/186/187/188/189/190/191/192/193/194/195/196/197/198/199/200/201/202/203/204/205/206/207/208/209/210/211/212/213/214/215/216/217/218/219/220/221/222/223/224/225/226/227/228/229/230/231/232/233/234/235/236/237/238/239/240/241/242/243/244/245/246/247/248/249/250/251/252/253/254/255/256/257/258/259/260/261/262/263/264/265/266/267/268/269/270/271/272/273/274/275/276/277/278/279/280/281/282/283/284/285/286/287/288/289/290/291/292/293/294/295/296/297/298/299/300/301/302/303/304/305/306/307/308/309/310/311/312/313/314/315/316/317/318/319/320/321/322/323/324/325/326/327/328/329/330/331/332/333/334/335/336/337/338/339/340/341/342/343/344/345/346/347/348/349/350/351/352/353/354/355/356/357/358/359/360/361/362/363/364/365/366/367/368/369/370/371/372/373/374/375/376/377/378/379/380/381/382/383/384/385/386/387/388/389/390/391/392/393/394/395/396/397/398/399/400/401/402/403/404/405/406/407/408/409/410/411/412/413/414/415/416/417/418/419/420/421/422/423/424/425/426/427/428/429/430/431/432/433/434/435/436/437/438/439/440/441/442/443/444/445/446/447/448/449/450/451/452/453/454/455/456/457/458/459/460/461/462/463/464/465/466/467/468/469/470/471/472/473/474/475/476/477/478/479/480/481/482/483/484/485/486/487/488/489/490/491/492/493/494/495/496/497/498/499/500/501/502/503/504/505/506/507/508/509/510/511/512/513/514/515/516/517/518/519/520/521/522/523/524/525/526/527/528/529/530/531/532/533/534/535/536/537/538/539/540/541/542/543/544/545/546/547/548/549/550/551/552/553/554/555/556/557/558/559/560/561/562/563/564/565/566/567/568/569/570/571/572/573/574/575/576/577/578/579/580/581/582/583/584/585/586/587/588/589/590/591/592/593/594/595/596/597/598/599/600/601/602/603/604/605/606/607/608/609/610/611/612/613/614/615/616/617/618/619/620/621/622/623/624/625/626/627/628/629/630/631/632/633/634/635/636/637/638/639/640/641/642/643/644/645/646/647/648/649/650/651/652/653/654/655/656/657/658/659/660/661/662/663/664/665/666/667/668/669/670/671/672/673/674/675/676/677/678/679/680/681/682/683/684/685/686/687/688/689/690/691/692/693/694/695/696/697/698/699/700/701/702/703/704/705/706/707/708/709/710/711/712/713/714/715/716/717/718/719/720/721/722/723/724/725/726/727/728/729/730/731/732/733/734/735/736/737/738/739/740/741/742/743/744/745/746/747/748/749/750/751/752/753/754/755/756/757/758/759/760/761/762/763/764/765/766/767/768/769/770/771/772/773/774/775/776/777/778/779/780/781/782/783/784/785/786/787/788/789/790/791/792/793/794/795/796/797/798/799/800/801/802/803/804/805/806/807/808/809/810/811/812/813/814/815/816/817/818/819/820/821/822/823/824/825/826/827/828/829/830/831/832/833/834/835/836/837/838/839/840/841/842/843/844/845/846/847/848/849/850/851/852/853/854/855/856/857/858/859/860/861/862/863/864/865/866/867/868/869/870/871/872/873/874/875/876/877/878/879/880/881/882/883/884/885/886/887/888/889/890/891/892/893/894/895/896/897/898/899/900/901/902/903/904/905/906/907/908/909/910/911/912/913/914/915/916/917/918/919/920/921/922/923/924/925/926/927/928/929/930/931/932/933/934/935/936/937/938/939/940/941/942/943/944/945/946/947/948/949/950/951/952/953/954/955/956/957/958/959/960/961/962/963/964/965/966/967/968/969/970/971/972/973/974/975/976/977/978/979/980/981/982/983/984/985/986/987/988/989/990/991/992/993/994/995/996/997/998/999/1000/1001/1002/1003/1004/1005/1006/1007/1008/1009/1010/1011/1012/1013/1014/1015/1016/1017/1018/1019/1020/1021/1022/1023/1024/1025/1026/1027/1028/1029/1030/1031/1032/1033/1034/1035/1036/1037/1038/1039/1040/1041/1042/1043/1044/1045/1046/1047/1048/1049/1050/1051/1052/1053/1054/1055/1056/1057/1058/1059/1060/1061/1062/1063/1064/1065/1066/1067/1068/1069/1070/1071/1072/1073/1074/1075/1076/1077/1078/1079/1080/1081/1082/1083/1084/1085/1086/1087/1088/1089/1090/1091/1092/1093/1094/1095/1096/1097/1098/1099/1100/1101/1102/1103/1104/1105/1106/1107/1108/1109/1110/1111/1112/1113/1114/1115/1116/1117/1118/1119/1120/1121/1122/1123/1124/1125/1126/1127/1128/1129/1130/1131/1132/1133/1134/1135/1136/1137/1138/1139/1140/1141/1142/1143/1144/1145/1146/1147/1148/1149/1150/1151/1152/1153/1154/1155/1156/1157/1158/1159/1160/1161/1162/1163/1164/1165/1166/1167/1168/1169/1170/1171/1172/1173/1174/1175/1176/1177/1178/1179/1180/1181/1182/1183/1184/1185/1186/1187/1188/1189/1190/1191/1192/1193/1194/1195/1196/1197/1198/1199/1200/1201/1202/1203/1204/1205/1206/1207/1208/1209/1210/1211/1212/1213/1214/1215/1216/1217/1218/1219/1220/1221/1222/1223/1224/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9.1.1 – ATTACHMENT 1.

Advertised Plans



9.1.1 – ATTACHMENT 1.      Advertised Plans



9.1.1 – ATTACHMENT 1.      **Advertised Plans**



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ISSUE	DESCRIPTION	DATE
A	ISSUED FOR TOWN PLANNING PURPOSES	27.06.18
B	REVISED FOR TOWN PLANNING PURPOSES	02.07.18

**ISSUED FOR  
TOWN PLANNING  
PURPOSES ONLY**

PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
3D IMAGES 02  
Date: 27.06.18 Drawn: DL  
Job No: 2617 Scale: A1  
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9.1.1 – ATTACHMENT 1.      **Advertised Plans**

ADJOINING PROPERTY  
No. 19-23 HOLLAND ROAD  
EVANGELICAL CHURCH



ADJOINING PROPERTY  
No. 27 HOLLAND ROAD

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ISSUE	DESCRIPTION	DATE
A	ISSUED FOR TOWN PLANNING PURPOSES	27.06.18
B	REVISED FOR TOWN PLANNING PURPOSES	06.07.18

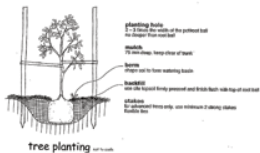
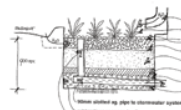
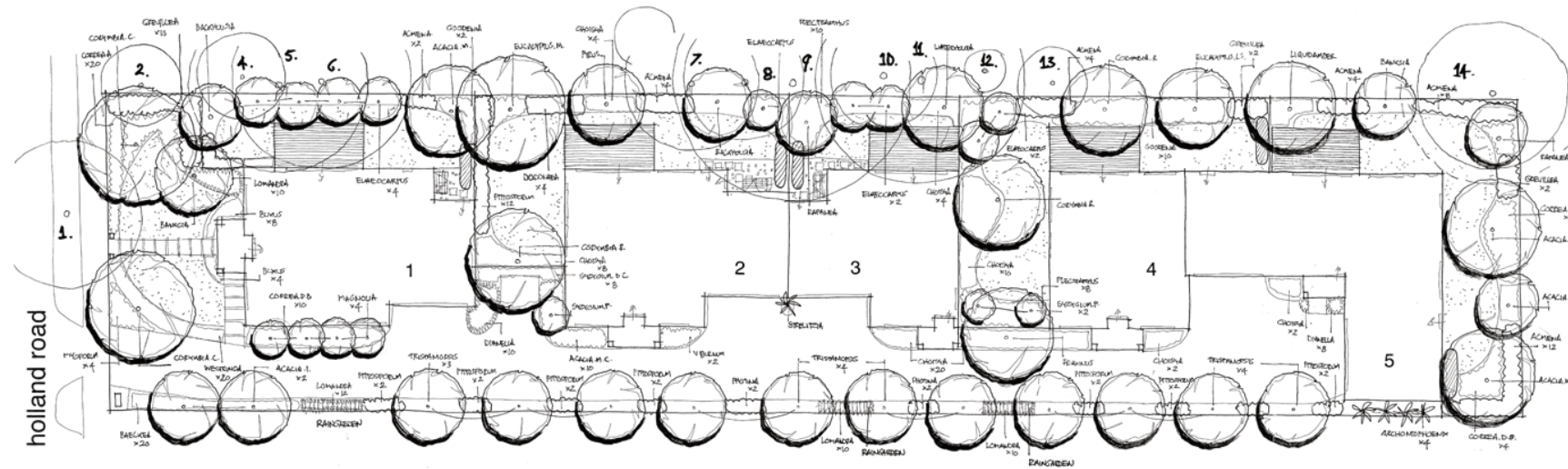
ISSUED FOR  
TOWN PLANNING  
PURPOSES ONLY

PROPOSED RESIDENTIAL DEVELOPMENT  
25 HOLLAND ROAD  
BLACKBURN SOUTH, VIC 3130  
3D IMAGES 03  
Date: 27.06.18 Drawn: DL  
Job No: 2617 Scale: A1  
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TP A503 B



### 9.1.1 – ATTACHMENT 1.      Advertised Plans



### Planting Schedule

[illegible]<sup>a</sup>Height x width average at maturity estimated for this location or maintained by thinning.

notes

### Existing vegetation

**Existing vegetation**  
Existing trees and shrubs indicated for retention are to be protected in accordance with Australian standards for tree retention. Any trees and shrubs outside the protection zone are to be protected in accordance with the relevant Australian standards. All trees and shrubs outside the protection zone are to be protected with physical barriers to prevent access within nominated tree protection zones which are to be marked and signed during construction. No trees to be removed without clarification from the owner or local council. All tree protection to be in accordance with relevant Australian Standards.

**Garden Beds**  
Cultivate existing soil to 200mm. Re-use site topsoil if suitable or imported garden mix topsoil to provide minimum 100mm of topsoil to garden beds. Spread 75mm layer of 12mm grade bark mulch.

### Irrigation

**Fences**

### Drainage

**Drainage**  
Refer to architectural or engineering plans for stormwater and drainage pit locations. All paved areas in rear gardens are to have a grade of 2.5% minimum, away from buildings. All grades, levels and drainage to comply with relevant building codes and council planning requirements.

**Services**  
Contractors are

Contractors are to determine the location of all underground and overhead services prior to construction. Any services, pits, etc. illustrated on this plan are indicative only and are to be checked with architectural and engineering plans.

**Building Structures**

The use of this plan and glass barriers or specifically engineered into adjacent areas or building

into adjacent areas or building foundations. A qualified consultant should advise on foundation design and/or barriers (physical or chemical) as appropriate.

**key**

- lawn**  
decorative turf, grass - invasive species planted or sown on 50mm square or other small or pebbles as substrate during periods.
- garden edging**  
decorative border panels
- pebbles/turfcan toppings**  
stones compacted in 50mm space next to decorative sustainably sourced water warm pebbles such as 'jade' or 'turquoise' pebbles or toppings as per
- decking**  
made from natural panels
- path**  
plant or concrete as selected
- driveway**  
asphalt or concrete as per architectural plans or as selected
- fence**  
refer to architectural plans
- water tanks**  
refer to structural and drainage engineering plans
- existing trees**  
trees to be retained, refer to arborists report for details
- raingardens**  
refer to structural and drainage engineering plans

## Site Preparation and Maintenance notes

All weeds to be removed from site by physical removal or spraying with glyphosate based herbicide. Spraying should be restricted to the addition of organic matter and light cultivation only to break up soil crusts. No cultivation without the aid of existing related forms of soil or adjacent areas to avoid possible contamination with salt, acid, or any other materials used on site are to be removed and replaced from a suitable source. All vegetation to be removed must be cut down to ground level or to levels at or below ground level. Salt to be sprayed with glyphosate salt previously collected on site or from quality controlled and sustainable sources.

Weeds to be in accordance with current water restrictions and weather conditions generally to include every second day during establishment period (6 months) and during dry summer periods as appropriate. Preemptive irrigation systems are to be low water use drippers and targets as appropriate and designed by the engineer or contractor.

Seeding and forming every 14 – 21 days. Plant placement as required during establishment period of 6 months or more until plants are established. The number of plants to be placed/shooted is approximate size of an emerging bush. Much seeds to be maintained at 0m.

**landscape  
plan**



**project:** 25 holland road, blackburn south

**client:**

scale: 1:100 B1 date: june 2018 sheet: 1 of 1

1000000

**habitat**

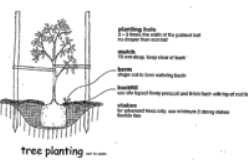
landscape and environmental design consultants 9806 1272

this plan is intended as a layout and planting guide only all dimensions, locations, etc are to be checked and verified on site. Refer to architectural and engineering plans and permit conditions.  
habitat accepts no responsibility or liability as a result of errors or omissions on this plan

### 9.1.1 – ATTACHMENT 2. Without Prejudice Plans



CITY OF WHITEHORSE  
Date: 19th December 2018  
RECEIVED



RECEIVED

**note – root control**  
trees growing along the driveway have non invasive root systems but the installation of a polypropylene root barrier along the south boundary would prevent any roots extending in adjacent properties

[illegible]

## notes

### Extensive vegetation

Existing trees and shrubs introduced to be protected in accordance with Australian standards. The proposed landscape plan should provide for new plantations and management. These should be provided with physical barriers to prevent access within boundaries the protection zones which can be extensive (10m or greater) planting required. The trees to be removed should be noted on a schedule of removal and replaced with new plantations to be in accordance with relevant Australian Standards.

### Garden Boxes

Concrete edging up to 300mm. They are to be topped with suitable or imported garden mix to a depth of minimum 100mm or topped to garden base. Spaced 300mm or 1200mm apart.

### Water

Landscape using drip irrigation with programmable timers connected to automatic storage tanks or water mains. Irrigation must be capable of supplying the current water requirements.

### Fences

Must be suitable to complement the current water requirements.

### Drainage

Refer to architectural or engineering plans for stormwater and drainage of lots and areas. Plans placed in situ and on site and to have a plan of site drainage, away from buildings. All gullies, drains and drains to comply with relevant building codes and council planning requirements.

### Contractors

Contractors are to determine the location of underground and overhead services (pipes to construction site) and to be notified in the plan of any radiations and are to be checked with architectural and engineering plans.

### Building Structures

Existing structures including trees, shrubs, etc. are to be replaced by suitable the proposed or similar structures in a substantially equivalent arrangement. A similar method of controlling soil and water retention is to be used. The structures must be suitable for the proposed use and to be constructed in accordance with relevant building codes and appropriate.

- # key
-  **lawn**  
tough, tolerant, cool – invasive species avoided or turf on 50cm topsoil  
or in mounds or pebbles as substrate during drought periods.
-  **garden edging**  
300mm raised plant
-  **pebbles/tussocks toppings**  
30cm compacted or 50mm loose layer of selected sustainably sourced  
waterwise pebbles such as grey or honeycomb pebbles or toppings as path.
-  **decking**  
as per architectural plans,
-  **path**  
paving or concrete as selected
-  **driveway**  
as per architectural plans or as selected
-  **fence**  
as per architectural plans
-  **water tanks**  
refer to architectural and drainage engineering plans
-  **existing trees**  
trees to be retained, note to arboriculturist report for details
-  **raingardens**  
refer to architectural and drainage engineering plans.

[illegible]

9.1.2            7 Patricia Road, Blackburn (Lot  
32 PS 11426) Construction of  
two double storey dwellings and  
removal of vegetation

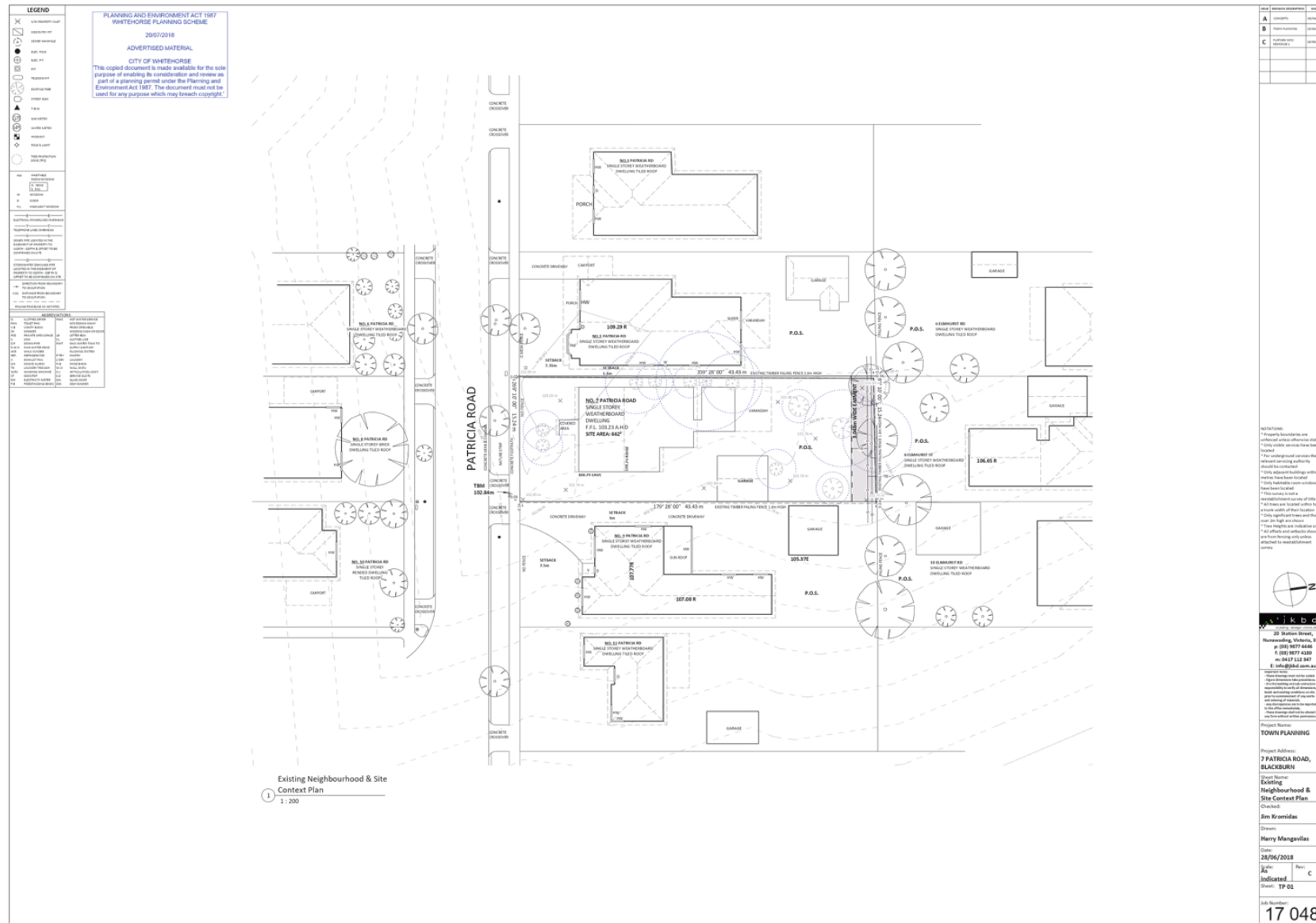
Attachment 1    Advertised Plans

Attachment 2    Additional Shadow Diagrams



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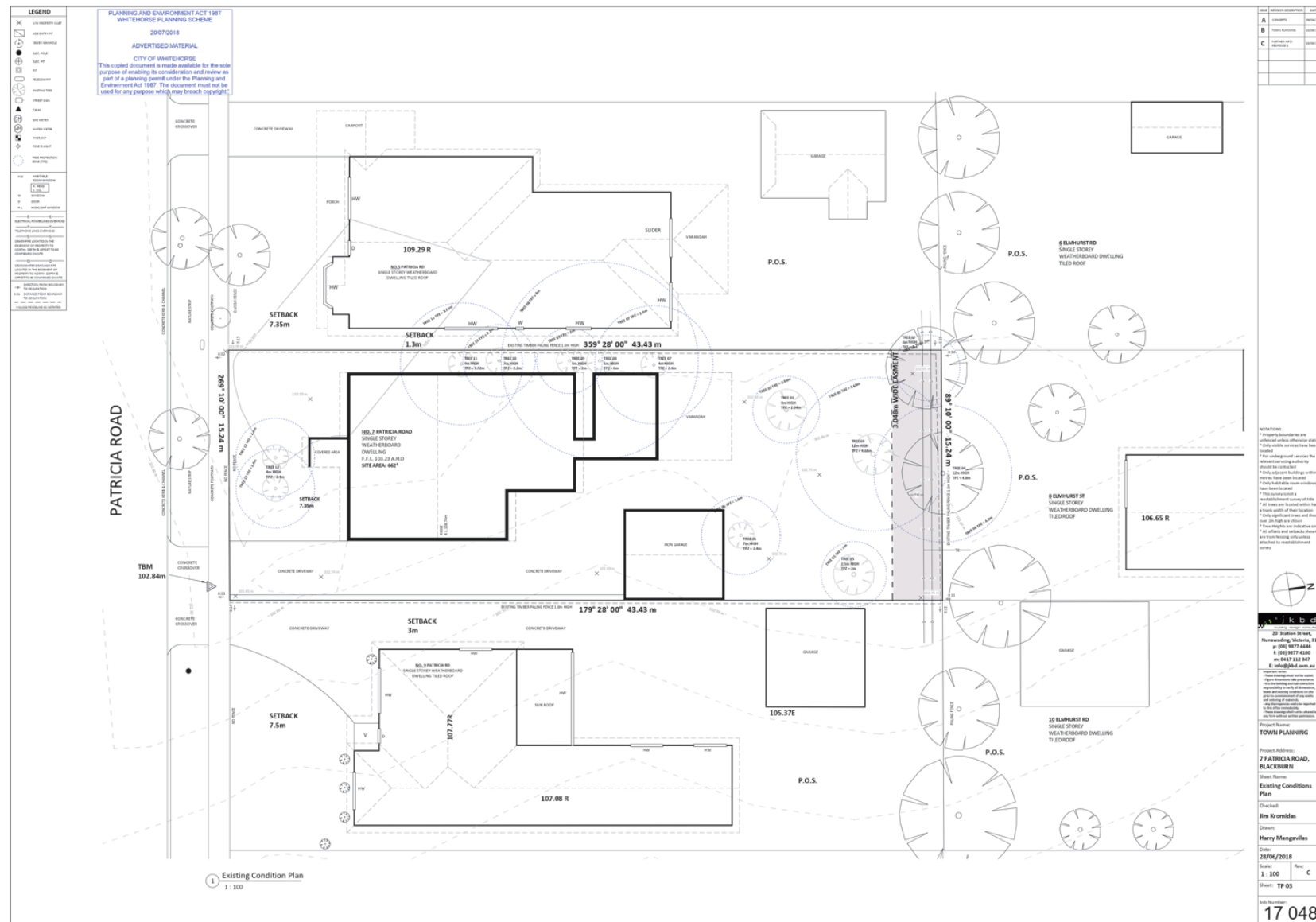
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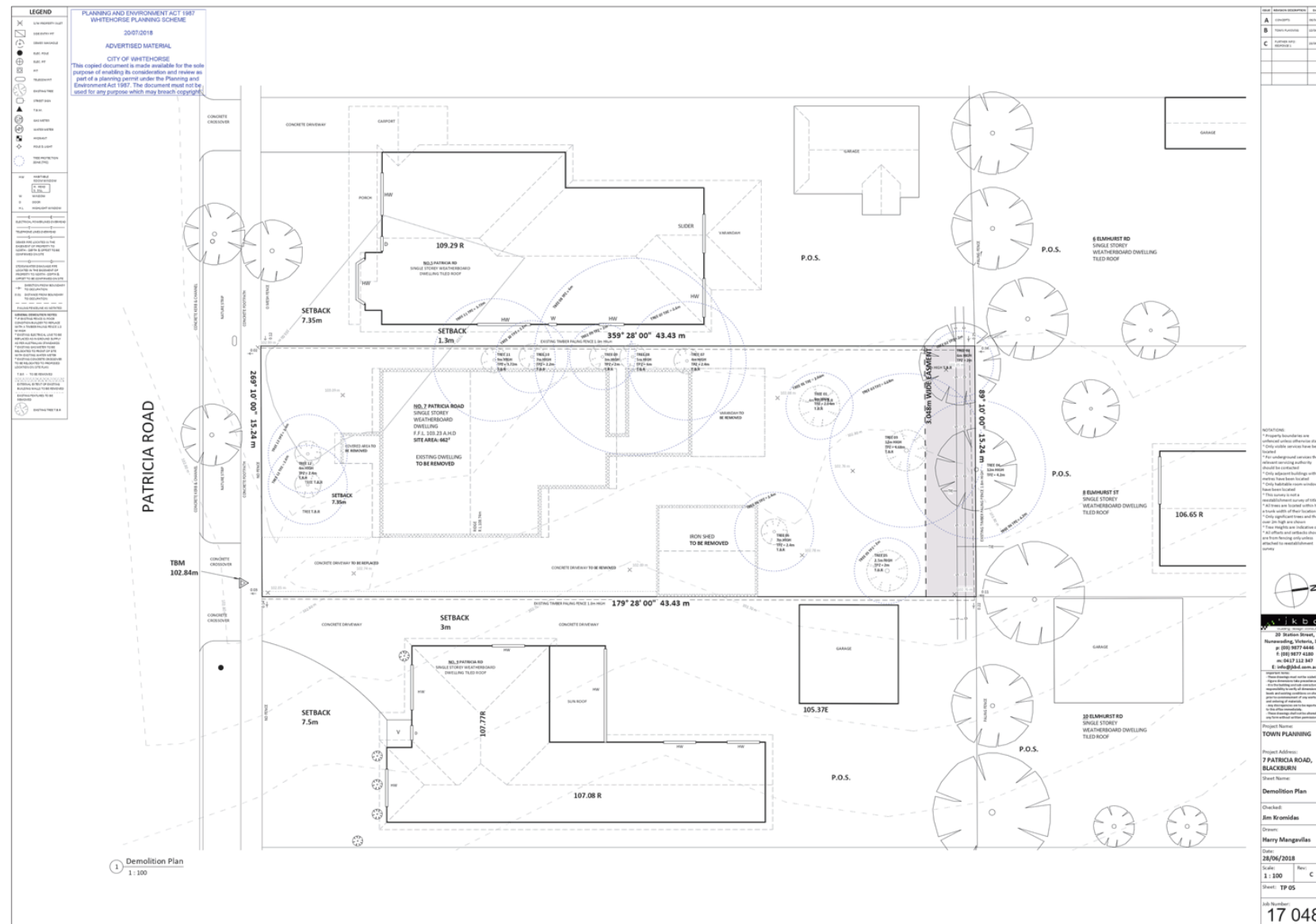
## Advertised Plans



## Advertised Plans



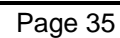
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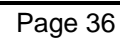




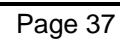
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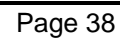




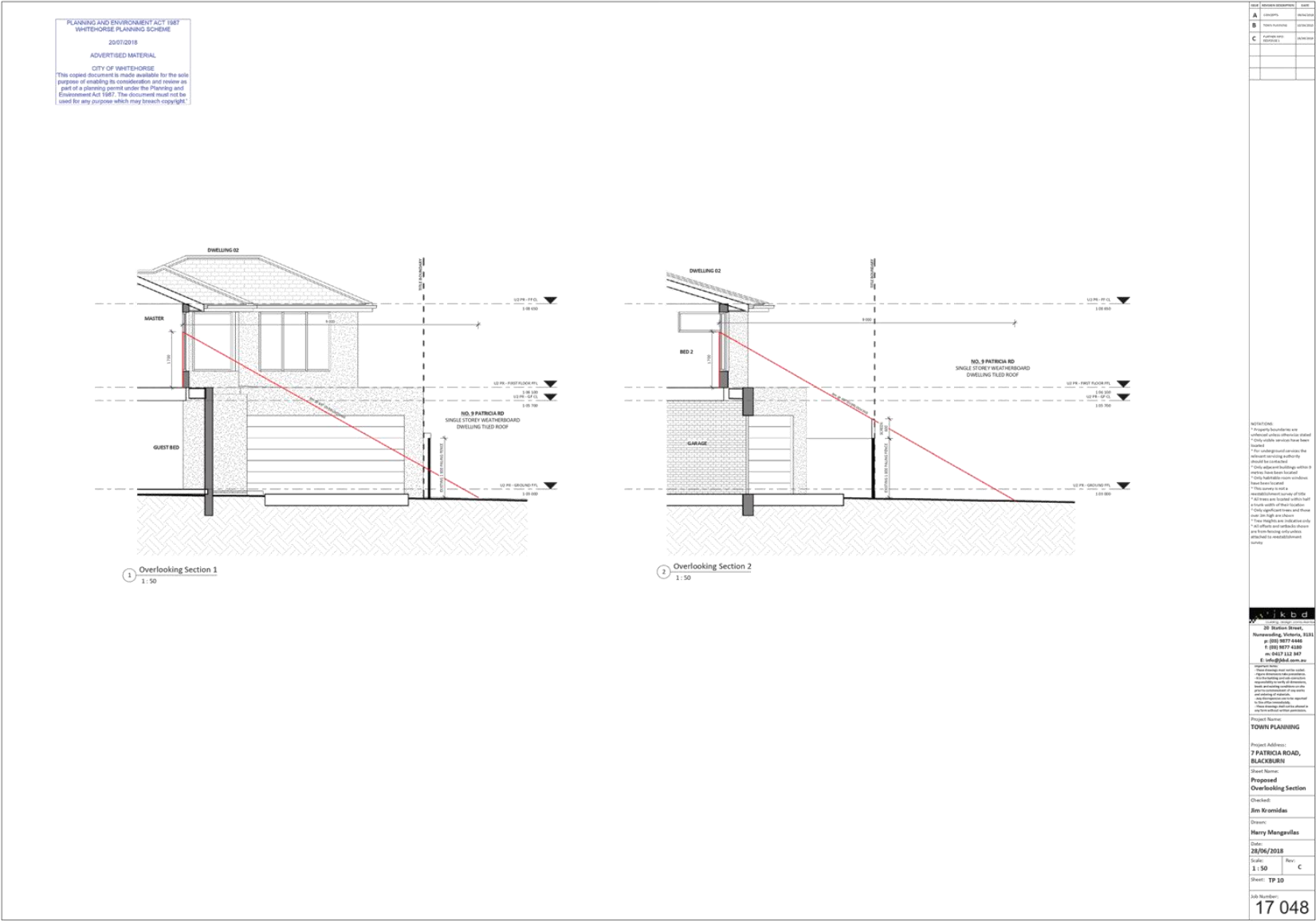
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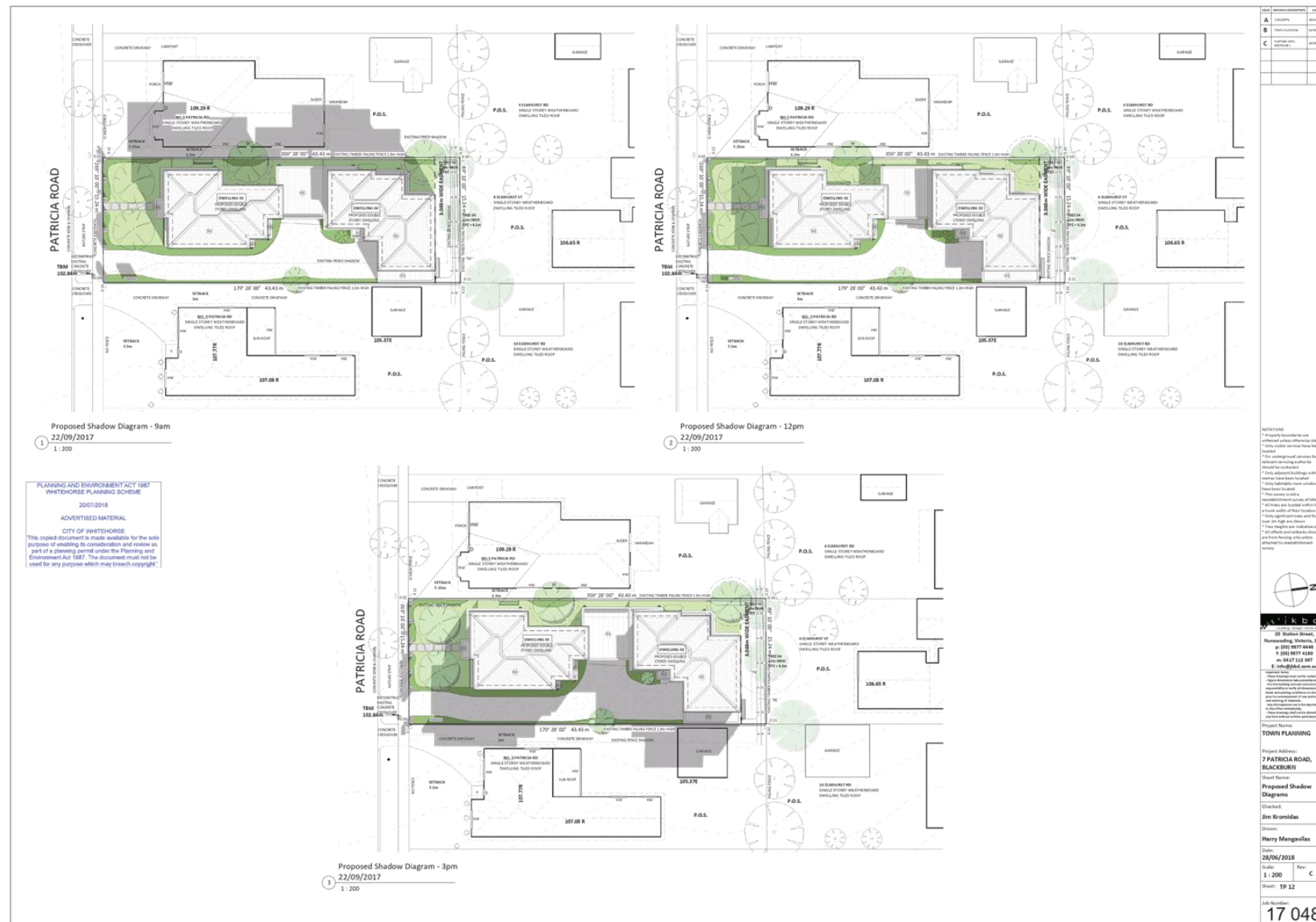


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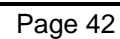


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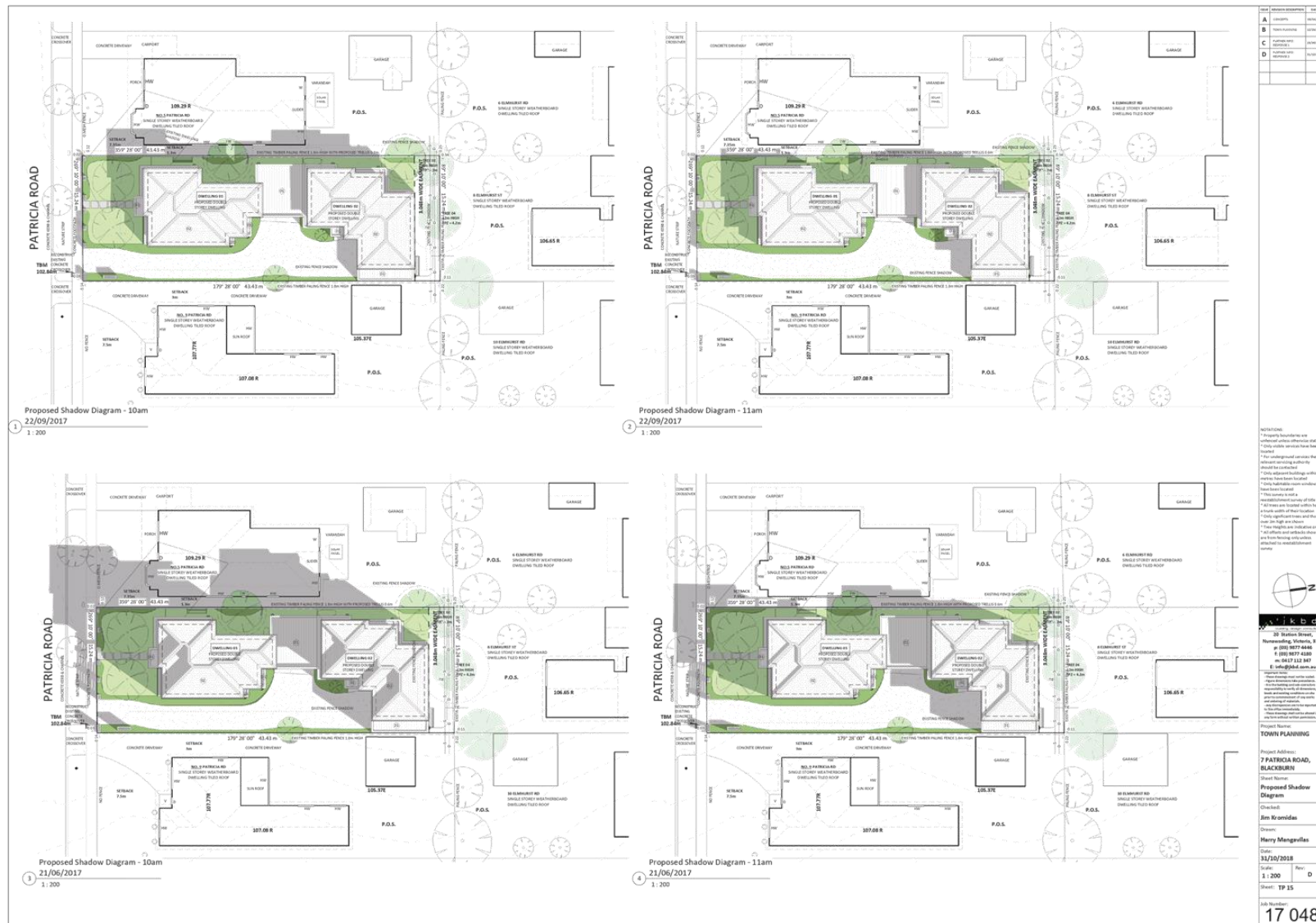


## Advertised Plans

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### Additional Shadow Diagrams





### Additional Shadow Diagrams



DATE	REVISION	BY	DATE
	A	COMMENTS	06/14/2018
	B	THOMAS PETERSON	06/14/2018
	C	REVISION 1	06/14/2018
	D	REVISION 2	06/14/2018

**NOTATIONS:**

- 1. If property boundaries are surfaced with asphalt or stone, they should be indicated.
- 2. If underground utilities should be indicated, they should be indicated.
- 3. If any additional building activities have been located, they should be indicated.
- 4. This survey is a non-surveyed survey of the lot.
- 5. All lines are based on the lot lines of the lot.
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**Project Name:**  
TOWN PLANNING

**Project Address:**  
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BLACKBURN,  
NSW 1585

**Sheet Name:**  
Section Shadow

**Checked:**  
N Krumholz

**Drawn:**  
Henry Mangavilas

**Date:**  
31/07/2018

**Scale:**  
1: 50

**Sheet:**  
1 of 1

**Job Number:**  
17 048



### 9.1.3 Residential Corridors Built Form Study - Consultation outcomes and recommended built form controls

Attachment 1 Final Report

Attachment 2 Phase 2 Consultation Summary

**ETHOS  
URBAN**

## Whitehorse Residential Corridors Built Form Study

DECEMBER 2018



9.1.3 – ATTACHMENT 1.      **Final Report**

Prepared by © Ethos Urban

CONTACT

Lisa RiddleDirectorLRiddle@ethosurban.com

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This document has been reviewed by:  
Lisa Riddle24.05.2018

The information contained in this document is for submission to the City of Whitehorse. The client shall make its own enquiries analysis and calculations and form its own views in relation to the use or development of the property including the application of local government and statutory controls. It is assumed that the client will rely on its own expertise in considering the information.  
Ethos Urban operates under a Quality Management System that has been certified as complying with ISO 9001:2008. This report has been prepared and reviewed in accordance with that system.

VERSION NO.	DATE OF ISSUE	REVISION BY	APPROVED BY
1.0 (DRAFT)	23.04.18		TC
2.0 (DRAFT)	20.05.18		TC
3.0 (DRAFT)	24.05.18		TC
4.0 (DRAFT)	01.06.18		LR
5.0 (DRAFT FINAL)	24.09.18		LR
6.0 (DRAFT FINAL v2)	18.10.18		LR
7.0 (FINAL)	16.11.18		TC
8.0 (FINAL v2)	14.12.18		TC

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**9.1.3 – ATTACHMENT 1. Final Report**

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## 1.0 Introduction & Background Review

### 1.1 Introduction



01 Development in the Residential Growth Zone



02 Development in the Residential Growth Zone

The City of Whitehorse implemented the new residential zones through Amendment C160 on 14 October 2014. The application of the zones was determined through the development of a comprehensive Housing and Neighbourhood Character Strategy 2014. Approval of the Amendment by the Minister for Planning did not incorporate all the Council's proposed provisions, including some provisions in the schedules proposed for the Residential Growth Zone (RGZ). The proposed RGZ provisions that were omitted from the approved amendment included mandatory height controls of 3 storeys (11 metres) for Schedule 1, and 4 storeys (13.5m) for Schedule 2.

The zone provisions were subsequently changed by a State-wide amendment (VC110 gazetted on 27 March 2017) to the Victoria Planning Provisions (VPP) and accompanying Practice Notes to specify mandatory and discretionary heights in all zones, and the Council's ability to alter these.

Since introduction of Amendment C160, the Council and community have become concerned at the form and height of some developments occurring along the main road corridors in the Residential Growth Zone, and in particular the interface with adjoining residential properties in the General Residential and Neighbourhood Residential Zones. The Council commissioned

Ethos Urban to develop appropriate built form controls for these areas to better manage outcomes consistent with the land use and built form aims for these areas and the impact on adjoining areas. These controls must be consistent with the regulatory framework now provided in the Victoria Planning Provisions.



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## 1.2 The Study Area

The Study Area for this project is focused on the Residential Growth Zone along the two major east-west transport corridors in Whitehorse, Whitehorse Road and Burwood Highway. The study requires consideration of the impacts of development in the Residential Growth Zone on the adjoining residential areas which are within the General Residential or Neighbourhood Residential Zone. The map overpage shows the Residential Growth Zone that is the subject of this study. It is noted that the study excludes the Residential Growth Zone within Burwood Heights, Tally Ho and Box Hill Activity Centres, as these have existing adopted controls that have been the subject of separate studies. In addition, the ARRB site at 490-500 Burwood Highway, Vermont South is also excluded from this study as it is undergoing a separate process, however future built form controls for this site will have regard to the outcomes of this study as well as neighbouring development.

To assist within the latter parts of the report, the entire study area has been divided into four parts. The Study Areas are defined as follows, and shown on the map overpage:

- Study Area 1: Whitehorse Road, Mont Albert: The RGZ is on both sides of the road generally between Elgar Road and Hood Street
- Study Area 2: Whitehorse Road, Box Hill & Whitehorse Road, Blackburn: The RGZ is on both sides of the Whitehorse Road, Box Hill generally between Miller Street and Whitehorse Reserve and on both sides of Whitehorse Road, Blackburn generally between Middleborough Road and Williams Road
- Study Area 3: Whitehorse Road, Nunawading: The RGZ is on the northern side of the road generally between Springvale Road and the City of Whitehorse municipal building, and then between Walker and Peel Streets
- Study Area 4: Burwood Highway, Burwood, Bennettswood, Burwood East & Vermont South: The RGZ is on both sides of the highway broadly between Elgar Road and Springvale Road. Specifically, the study area includes:
  - Burwood: southern side between Cromwell Street and McIntyre Street/extension of Elgar Road
  - Bennettswood: southern side between 200 Burwood Highway and Station Street
  - Burwood: both sides of the highway between Station Street and Middleborough Road
  - Burwood East: northern side of the highway between Oakham Avenue and Blackburn Road, and the southern side of the highway between Burwood Heights Shopping Centre and Witchwood Crescent. This also includes both sides the highway between Blackburn Road and Sevenoaks Road
  - Vermont South: northern side of the highway between Springvale Road and Livingstone Road and the southern side of the highway between Springvale Road and Hanover Road

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## 1.3 Strategic and Statutory Context

### 1.3.1 Planning Policy Framework

Many aspects of the PPF provide overarching strategic context and support for this project. The following objectives and strategies are particularly relevant to the strategic urban design and housing outcomes intended for the Study Areas of this project.

#### 11.06-2 Housing Choice

Objective: To provide housing choice close to jobs and services.

Strategies:

- Facilitate increased housing in the established areas to create a city of 20 minute neighbourhoods close to existing services, jobs and public transport.
- Support housing growth and diversity in defined housing change areas and redevelopment sites.
- Allow for a spectrum of minimal, incremental and high change residential areas that balance the need to protect valued areas with the need to ensure choice and growth in housing.
- Provide certainty about the scale of growth in the suburbs by prescribing appropriate height and site coverage provisions for different areas.

### 11.06-4 Place and Identity

Objective: To create a distinctive and liveable city with quality design and amenity.

Strategy: Strengthen Melbourne's network of boulevards and create new boulevards in urban-growth areas and selected existing road corridors across Melbourne.

The PPF (at Clause 15 Built Environment and Heritage) places emphasis on the importance and role of a quality built environment in supporting social, cultural, economic and environmental well being of communities. It states that planning should achieve high quality urban design and architecture that:

- contributes positively to local urban character and sense of place,
- reflects the particular characteristics of the community,
- enhances liveability, diversity, amenity and safety of the public realm,
- promotes activeness of cities within broader strategic contexts, and
- minimises detrimental impact on neighbouring properties.

### 15.01-1 Urban Design

Objective: To create urban environments that are safe, functional and provide good quality environments with a sense of place and cultural identity.

Strategies:

- Ensure transport corridors integrate land use planning, urban design and transport planning and are developed and managed with particular attention to urban design aspects.
- Encourage retention of existing vegetation or revegetation as part of subdivision and development proposals.

Approval of Amendment C160 to the Whitehorse Planning Scheme implemented the Council's Housing and Neighbourhood Character Strategy 2014. As noted in section 1.0 not all of the provisions proposed by the Council were approved by the Minister for Planning. Significantly, the height controls proposed as a result of the Housing Strategy and Neighbourhood Character Study were not included in the schedules to the Residential Growth zone as requested. It is noted that Neighbourhood Activity Centre Guidelines were also prepared in 2014, and complete the package of intended building heights in the City (outside Structure Plan areas).



### 9.1.3 – ATTACHMENT 1. Final Report

The height controls implemented for the Neighbourhood Activity centres (commercial zones) included some up to 6 storeys with rear setbacks, while those in Burwood and Vermont South are two storeys.

#### 1.3.2 Victoria Planning Provisions Changes since the introduction of Amendment C160

Since the introduction of the new residential zones in Whitehorse a number of changes have occurred within the Victoria Planning Provisions (VPPs), including the reformed residential zones (VC110 gazetted on 27 March 2017), Better Apartments Design Standards (VC136), and the Urban Design Guidelines for Victoria and Apartment Design Guidelines (VC139).

The implications of these changes need to be understood in order to determine the most appropriate approach to new built form guidelines for the Residential Growth Zones along the corridors of Whitehorse.

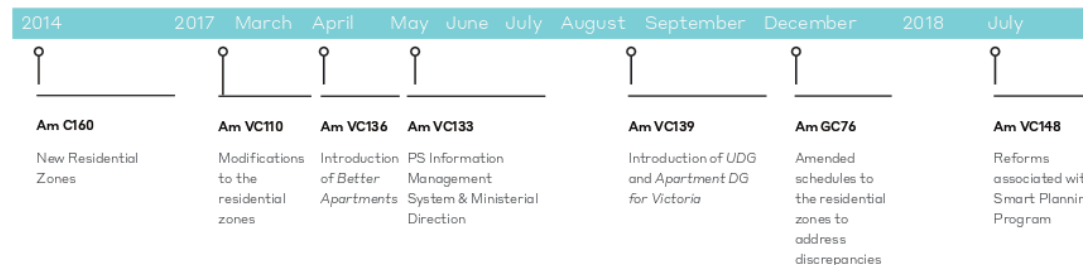
In addition, VC110 introduced mandatory minimum garden area requirements and mandatory height controls within the Neighbourhood Residential and General Residential Zones (NRZ and GRZ). The Residential Growth Zone (RGZ) is the only residential zone that does not contain a minimum garden area requirement. This is clearly in recognition of the purpose of the zone.

#### Clause 58 – Apartment Development

Amendment VC136 (gazetted on 13 April 2017) introduced the Clause 58 Apartment Development to all planning schemes, to manage residential development over 4 storeys. The new Clause includes standards associated with siting and building arrangement (building setback, communal open space, solar access, landscaping and building entry and circulation), building performance (noise, energy efficiency, waste and recycling, integrated water and stormwater management) and dwelling amenity (functional layout, room depth, windows, storage, natural ventilation, private open space and accessibility). This is the first time that any standards have been included

in the VPPs for buildings over 4 storeys, and this has fundamentally changed the way that these developments must be designed and assessed.

Developments of 4 storeys and under will continue to be assessed under the Clause 55 ResCode provisions, which will result in a different built form, particularity in relation to setbacks. The differing requirements depending upon the height of a building will potentially impact on development decisions relating to yield, however this would be quite site specific.



03 Planning Scheme Amendment Timeline

**9.1.3 – ATTACHMENT 1. Final Report**

*Urban Design Guidelines and Apartment Design Guidelines for Victoria*

Amendment VC139 (gazetted on 29 August 2017) referenced the Urban Design Guidelines (UDG) and Apartment Design Guidelines for Victoria (ADG). The ADG provides assistance and additional explanation of the Clause 58 Apartment Development standards (in the Interpreting the Standards section) and guidance on matters to consider to meet the objectives of the apartment standards (in the Design Guidance section).

The ADG are also intended to support greater consistency in the planning permit assessment phase of an apartment development. The ADG are complemented by the Urban Design Guidelines which provide best practice knowledge and advice to inform the design of buildings in relation to the function and amenity of the public realm.

The culmination of the above changes warrants a review of the development outcomes arising within the Residential Growth Zone, and more fundamentally, the application of controls that promote housing change.

**1.3.3 Local Policy Framework**

*Municipal Strategic Statement (MSS)*

The MSS contains numerous references to neighbourhood character of the residential areas, the importance of housing, environmental sustainability and trees to the Whitehorse environment.

This section of the MSS is substantially drawn from the Housing and Neighbourhood Character Strategy 2014. The Clause includes a Housing Framework Plan that identifies Substantial, Natural and Limited Change areas throughout all residential areas. It also designates the various categories of Neighbourhood Activity Centres.

Objectives for all the three change areas are included in the strategy, including other key housing principles relating to sustainability, affordability, the mix of housing sought and interface with the neighbourhood character objectives of the scheme.

Clause 21.06, Housing, recognises the principles to meet the broad housing vision including:

- Encourage housing that supports preferred neighbourhood character objectives and urban design aspirations for the City.
- Promote housing growth and diversity in locations within walking distance of public transport and local services such as shops,

parks and education.

- Ensure housing in substantial change areas is designed to achieve and enhance sense of place and identity, and facilitate neighbourhood participation.

In Substantial Change areas the strategy supports increased densities, facilitating a new preferred character for these areas over time and providing for space for planting to improve the amenity and liveability of dwellings.

Clause 21.05, Environment, emphasises the Council's strategy related to the natural environment and environmental sustainability, including objectives:

- To develop main thoroughfares as attractive boulevards with improved advertising signage, landscaping and building design.
- To achieve best practice in addressing the principles of environmentally sustainable development.

Strategies relate to providing adequate open space and landscaping in development, requiring planting of upper canopy trees, and high quality development compatible with the character and appearance of the area.

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***Residential Development Policy (Clause 22.03)***

This Policy was updated with the introduction of Amendment C160 to include reference to the Housing Change map and provide clear strategic direction regarding the different change areas. The Policy states for Substantial Change areas that townhouses, units, flats and apartments are encouraged. It is policy to:

- Locate new development in the form of flats and apartments in Substantial Change Areas only.
- Provide a range of dwelling types, sizes and tenures, including affordable housing, in larger developments.
- Ensure buildings interfacing sensitive areas and uses have a scale and massing appropriate to the character and scale of their context.
- Create a new, higher density urban character in areas located away from sensitive interfaces.
- Prioritise works to improve the appearance, function and safety of the public realm in locations subject to the greatest increase in residential density.
- Ensure new development provides space for planting, communal spaces and rooftop gardens to improve the amenity and liveability of dwellings.

- Ensure adequate infrastructure is in place to support substantial change areas.

***Tree Conservation Policy (Clause 22.04)***

The Council's long-standing Tree Preservation policy was updated with the introduction of Amendment C160. It reflects the importance of tree conservation set out in the MSS, and establishes objectives and requirements relating to protection of the existing tree canopy and the regeneration of tall trees through the provision of adequate open space and landscaping in new development. The policy applies to all land in the City.

The policy contains performance standards relating to tree regeneration that state new trees should be sited to be separated from a building by 3 metres, and within the SLO (which applies to the RGZ land) with a minimum of 50m<sup>2</sup> of open ground with a minimum dimension of 5 metres.

It is advised that whilst this provides for tree planting, this dimension is insufficient to provide for large canopy trees as required by Clause 58 Standard D10.



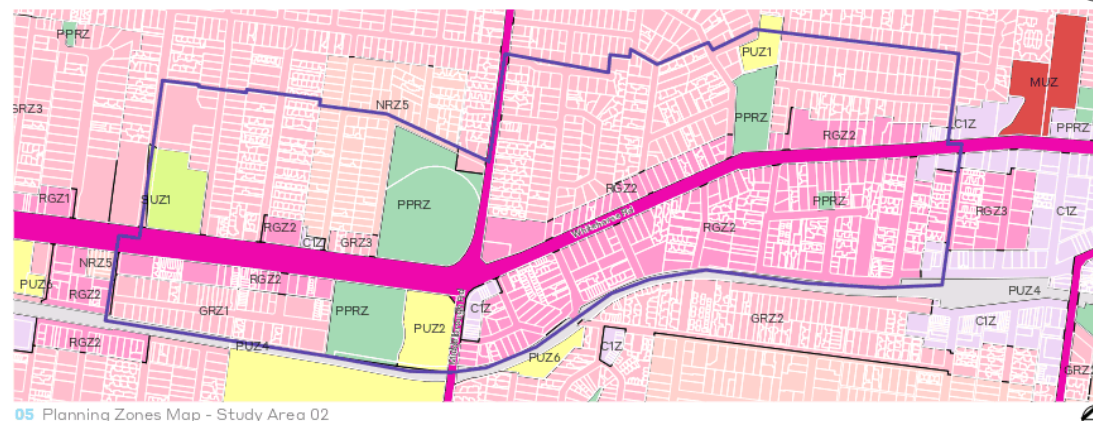
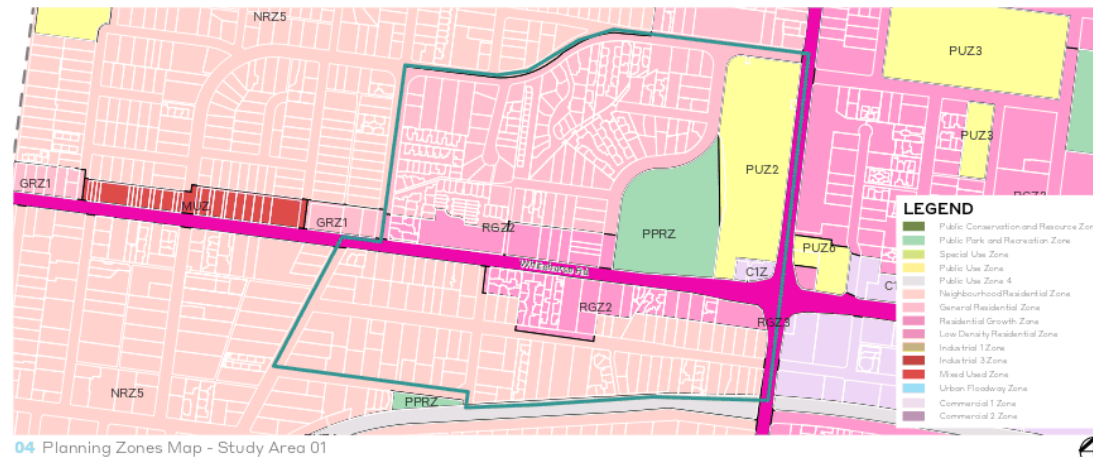
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### 1.3.4 Residential Zones

#### Residential Growth Zone (RGZ)

The purpose of the zone, as amended by Amendment VC110, is:

- To implement the State Planning Policy Framework and the Local Planning Policy Framework, including the Municipal Strategic Statement and local planning policies.
- To provide housing at increased densities in buildings up to and including four storey buildings.
- To encourage a diversity of housing types in locations offering good access to services and transport including activity centres and town centres.
- To encourage a scale of development that provides a transition between areas of more intensive use and development and other residential areas.
- To ensure residential development achieves design objectives specified in a schedule to this zone.
- To allow educational, recreational, religious, community and a limited range of other non-residential uses to serve local community needs in appropriate locations.



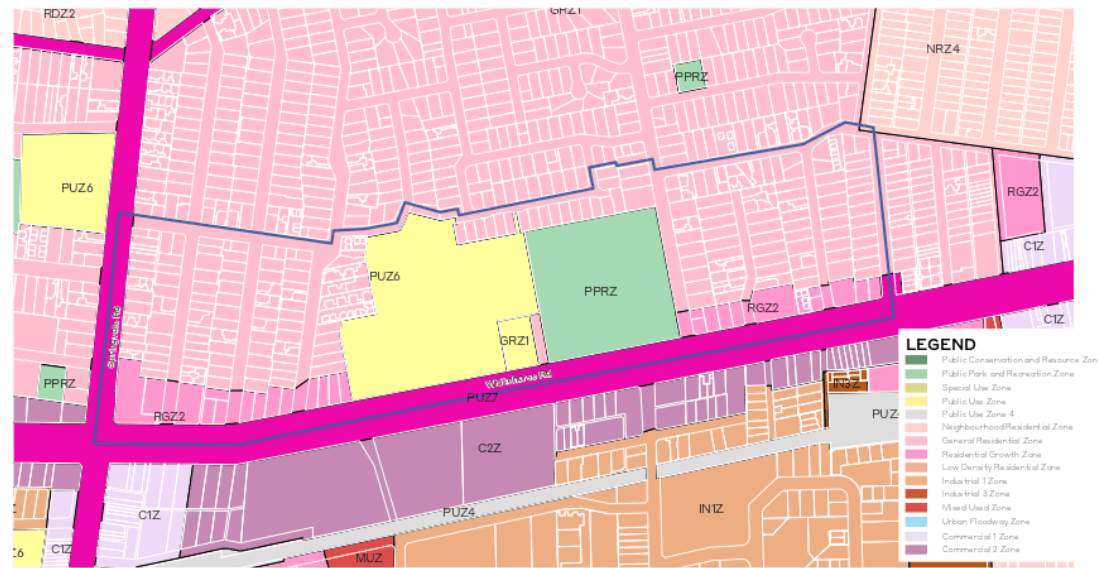
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Implementation of the Planning Policy Framework including the Local Planning Policy Framework is clearly intended to promote growth within the RGZ areas. Changes to the zone purpose now provide for the inclusion of design objectives for the RGZ in a schedule. The zone includes a discretionary maximum height of 13.5 metres (4 storeys), with no mandatory maximum height. The accompanying Practice Note on the Residential Growth Zone states that Councils can introduce an alternative mandatory maximum in the schedule to the zone, **but it must be at least 13.5 metres.**

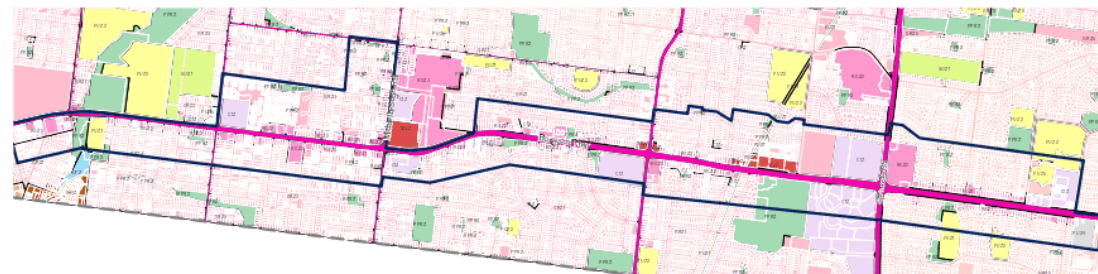
**Neighbourhood Residential Zone (NRZ)**

The purpose of the Neighbourhood Residential Zone (NRZ) is to recognise areas of predominantly single and double storey residential development and to ensure new development respects the identified neighbourhood character or landscape characteristics. The zone applies a mandatory maximum height of 9 metres, and also requires a minimum garden area of 25-35% of the site dependent on site size.

The NRZ applies to residential land across the municipality, and is particularly predominant in suburbs including Mont Albert, Blackburn, Mitcham, Burwood East and Vermont South.



06 Planning Zones Map - Study Area 03



07 Planning Zones Map - Study Area 04

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**General Residential Zone (GRZ)**

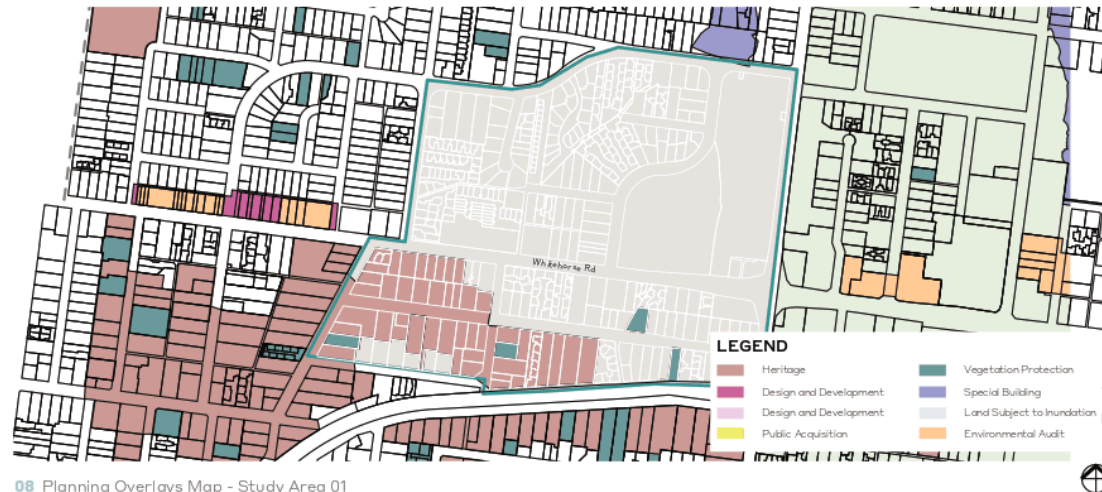
The General Residential Zone (GRZ) encourages development that respects the neighbourhood character of the area, as well as encouraging a diversity of housing typologies and growth in locations with good provision of public transport and other services. The GRZ applies to residential land across the municipality, and is particularly predominant in suburbs including Box Hill North, Blackburn North, Forest Hill and Burwood.

The GRZ contains maximum building height requirements for dwellings, with a height limit of 11m or 3 storeys, unless otherwise specified in a Schedule to the zone. It also requires a minimum garden area of 25-35% of the site dependent on site size.

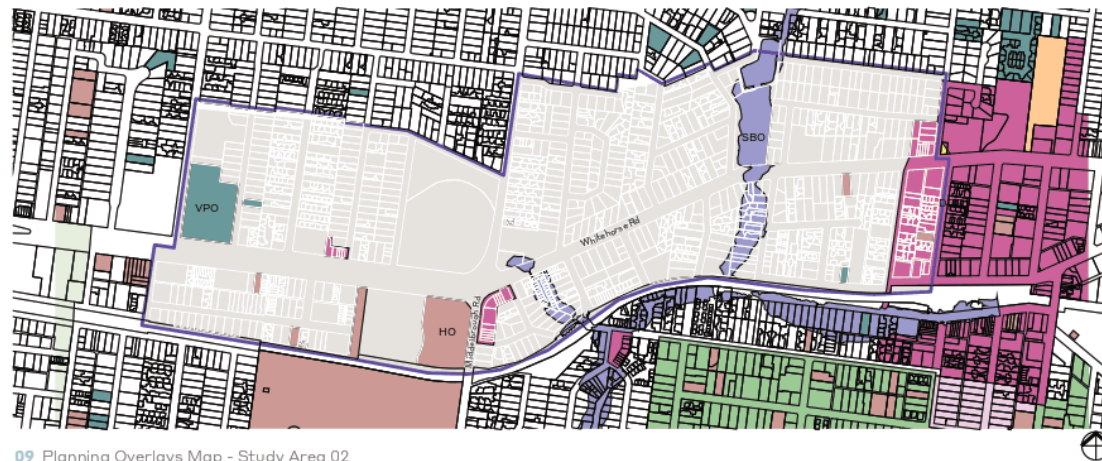
**1.3.4 Overlays**

***Neighbourhood Activity Centres (Design and Development Overlay- Schedule 4) (DDO4)***

Introduced by Amendment C162 in 2015, Design and Development Overlay – Schedule 4 (DDO4) designates a number of Neighbourhood Activity Centres (NACs) throughout the municipality. The NACs range in size from small, medium to large, with larger NACs located on wider main roads. The NACs are categorised based on their location,



08 Planning Overlays Map - Study Area 01



09 Planning Overlays Map - Study Area 02



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accessibility, size and retail and service role, and this impacts on their ability to accommodate residential use and higher built forms.

DDO4 aims to ensure that new development is designed to facilitate lively, attractive and safe local activity centres, as well as ensuring that new developments incorporate high quality and visually interesting design details.

Preferred maximum building heights and setbacks are outlined as part of this DDO. Small to medium NACs have preferred maximum height limits between 11 metres (3 storeys) and 18 metres (5 storeys), dropping to 7.5 metres (2 storeys) where a boundary adjoins a residential zone. Large NACs have a preferred maximum building height of 21.5 metres (6 storeys). Preferred setbacks vary across all NACs depending on building height, and land use of adjacent properties.

It should be noted that Activity Centres with adopted Structure Plans and Urban Design Frameworks (UDF's) already have existing guidance on built form, and the outcomes of this study are not intended to apply to those areas.



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***Blackburn Neighbourhood Activity Centre and Megamile (West) Major Activity Centre (Design and Development Overlay- Schedule 8) (DDO8)***

Introduced in 2013 by Amendment C143, the Design and Development Overlay – Schedule 8 (DDO8) outlines the design requirements for the Blackburn Neighbourhood Activity Centre and the Megamile West Major Activity Centre. DDO8 aims to ensure that development is consistent with both the Megamile (west) and Blackburn Activity Centres Urban Design Framework 2010 and Clause 22.09 Blackburn and Megamile (west) Activity Centres. The activity centre is broken into a number of precincts with different building height and setback requirements.

DDO8 outlines the preferred maximum building heights and street setbacks for each precinct within the activity centre. Blackburn Station Village and other identified residential interfaces are designated the lowest preferred building heights at 9-10 and 9 metres respectively. Preferred building heights of up to 15 metres are applied to areas within the Blackburn Activity Centre (generally between Whitehorse Road and Railway Drive), and at key sites within the Megamile (fronting Whitehorse Road).

Preferred building front setbacks are generally consistent across the precincts, with a requirement ranging between 3-5 metres. However, some precincts require setbacks to be applied in accordance with ResCode standards.

***Mitcham Neighbourhood Activity Centre (Design and Development Overlay- Schedule 5) (DDO5)***

Introduced on a permanent basis by Am C94 on 24/11/2011 (with interim controls applying since 2009), Design and Development Overlay – Schedule 5 (DDO5) outlines the design requirements for the Mitcham Neighbourhood Activity Centre (NAC). DDO5 aims to ensure that the height of any new development is compatible with the existing character and future role of the Mitcham NAC. The Schedule also encourages a high standard of architectural design, as well as consideration to preserving access to sunlight in the public realm.

DDO5 outlines preferred maximum building heights for individual properties within the NAC. The maximum building heights range from 8m (2 storeys)-15m (4 storeys), with intention for the taller developments to be located adjacent to Whitehorse Road.

***Tally Ho Activity Centre (Design and Development Overlay- Schedule 9) (DDO9)***

Introduced in October of 2015, Amendment C110 aims to ensure future development reinforces a high quality built environment, contributes to the uniform character and is consistent with the Tally Ho Major Activity Centre Urban Design Framework 2007, Landscape Guidelines 2013 and Clause 22.08. DDO9 outlines the design objectives for the Tally Ho Activity Centre including but not limited to; preferred maximum heights, building interfaces, building setbacks and landscaping.

***Significant Landscape Overlay***

Amendment C191 introduced a municipal wide Significant Landscape Overlay (SLO9) on an interim basis until 31 December 2018. This Amendment implements the recommendations of the Municipal Wide Tree Study Options and Recommendations Report June 2016 and Whitehorse Neighbourhood Character Study, April 2014.

The Neighbourhood Character Study states that “vegetation character is generally the most significant determinant of neighbourhood character” in the city, whilst the Housing Strategy (2014) aims to manage the significant population growth and change that is anticipated over the next 20 years. The community engagement undertaken in late 2016 for the preparation of the new Whitehorse Council Plan and Municipal Health and Wellbeing Plan showed that residents across all age groups highly value trees and the leafiness across the municipality. Additionally, the community identified that maintaining and protecting trees through increased development controls is a key priority for Council.

The application of a SLO requires a planning permit to remove, destroy or lop a tree over 5m and circumference of 1m. The SLO also triggers the need for a planning permit for building and works within 4m of any protected trees.

The interim SLO controls are implemented while permanent SLO controls are concurrently pursued by the Council.

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## 1.4 Study Area Analysis



12 Existing Whitehorse development

### 1.4.1 Existing Character

Whitehorse's Housing and Neighbourhood Character Study (2014) sets a hierarchy of preferred locations for growth- substantial change, natural change and minimal change – and preferred objectives and responses to ensure that the desired housing outcome is achieved. The content of these documents has now been reviewed to ensure that they are still relevant and provide appropriate direction for future housing development.

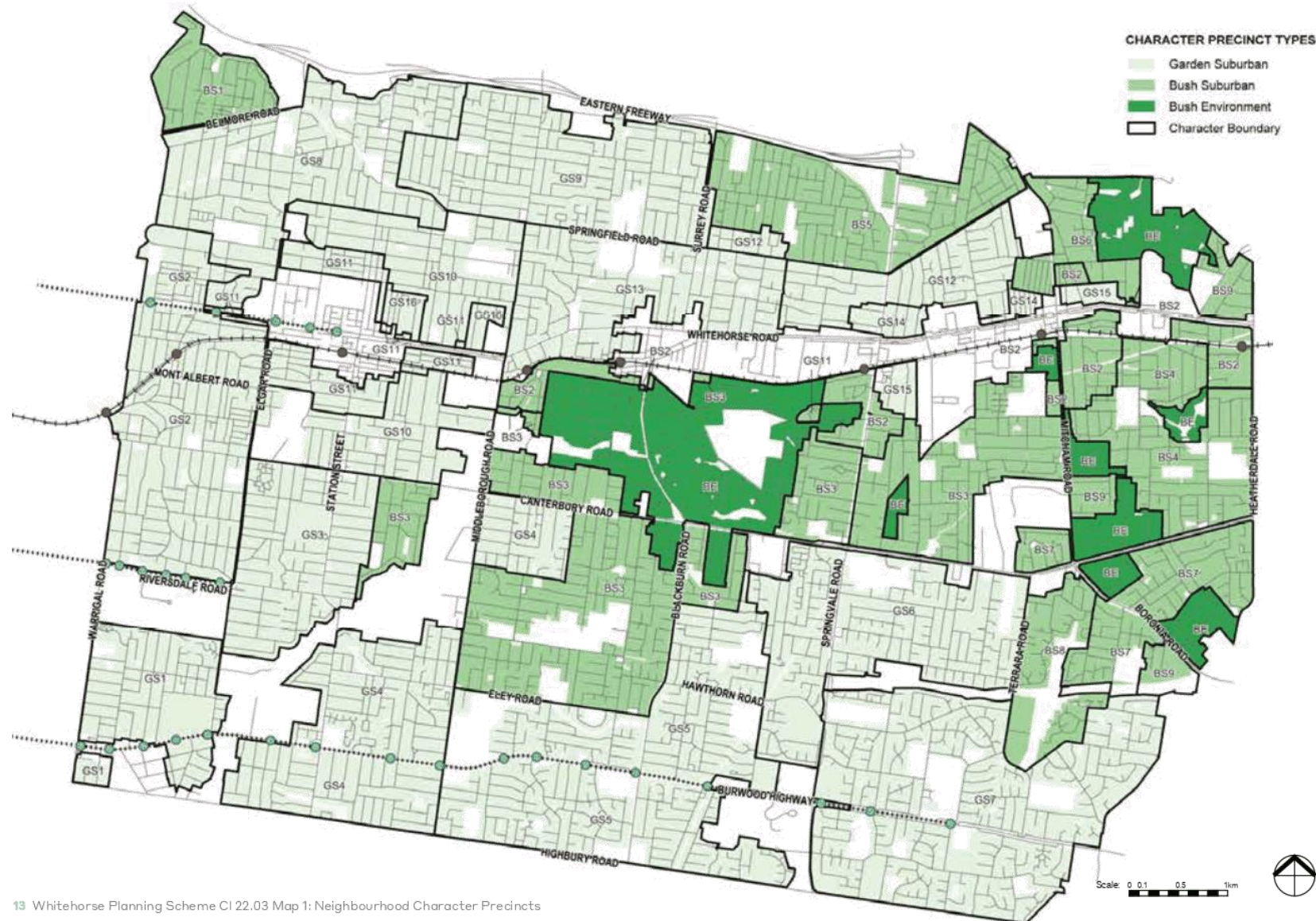
The Neighbourhood Character Types are classified in three ways:

- Garden Suburban Areas
- Bush Suburban Areas; and
- Bush Environment Areas.

All residentially zoned land within and adjacent to the Residential Growth zone (within the defined study areas) is within the Garden Suburban character types, other than a small portion of residential land south of Study Area 2 which is within Bush Suburban character type.



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The existing characteristics of each of the Study Areas and the surrounding land, as noted in the Neighbourhood Character Study, with the map showing the scale of height controls within the broader study area, as shown in the map below. It is noted that this shows both Activity Centres and Neighbourhood Activity Centre heights (annotated where applicable).

The Study Areas are described in turn below.

**Study Area 1**

This part of the study area is within the Garden Suburban Precinct 2 which also covers the adjacent Neighbourhood Residential Zone and General Residential Zone and is described as:

- predominantly 1-2 storeys in height, mostly detached with semi-detached (units, terraces and townhouses) and attached (apartment) infill throughout including heights up to 4 storeys;
- front setbacks generally range from 5-8 metres with 1-3 metres side setbacks (from at least one boundary). Some new developments have reduced front and side setbacks, or have been built up to the boundary;
- front fences are low in height (up to 1.2 metres) and generally planted with shrubs, or constructed of brick or timber;

- road treatments are sealed, generally within upstanding kerbs and footpaths on both sides; and
- street trees are regularly planted along nature strips.

**Study Area 2**

This part of the study area is within the Garden Suburban Precinct 13 which also covers the adjacent General Residential Zone and is described as:

- predominantly 1-2 storeys in height, mostly detached with semi-detached (units, terraces and townhouses) and attached (apartments) infill throughout including heights up to 3 storeys closer to Whitehorse Road;
- front setbacks generally range from 5-8 metres with 1-3 metres side setbacks (from at least one boundary). Some new developments have reduced front and side setbacks (3-5 metres to the street) and 0-1 metres to the side boundary;
- front fences are non-existent, planted with vegetation or low in height (up to 1.2 metres), and usually constructed of brick or timber;

- road treatments are sealed, generally within upstanding kerbs and footpaths on both sides; and
- street trees are regularly planted with mixed species and sizes.

**Study Area 3**

This part of the study area is within the Garden Suburban Precinct 12 and 14 covers the adjacent General Residential Zone and is described as:

- predominantly 1-2 storeys in height, mostly detached with semi-detached infill (units) with an interface with Nunawading/ Megamile Major Activity Centre;
- front setbacks generally range from 3-8 metres with 1-3 metres from both side boundaries;
- front fencing is mixed, usually low to average height (up to 1.2 metres) fencing with some open frontages and side fences are forward of dwellings;
- road treatments are sealed, generally within upstanding kerbs and footpaths on both sides; and
- street trees are regularly planted with mixed species and sizes.

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**Study Area 4**

This part of the study area is within the Garden Suburban Precinct 1, 4, 5 and 7 covers the adjacent General Residential Zone and is described as:

- GS1:
  - predominantly 1-2 storeys in height, mostly detached with semi-detached infill (units and townhouses);
  - front setbacks generally range from 5-6 metres with 1-3 metres usually from both side boundaries;
  - front fences are generally open or low in height (up to 1.2 metres) with side fences forward of the dwelling. Fences are constructed of materials appropriate to the dwelling;
  - road treatments are sealed, generally within upstanding kerbs and footpaths on both sides. Some recently developed areas consist of roll-over kerbs with or without footpaths; and
  - street trees are regularly planted with mixed species and sizes.
- GS4:
  - predominantly 1-2 storeys in height, detached with semi-detached infill (units);
  - front setbacks generally range from 3-7 metres with 1-2 metres usually from both

side boundaries. Some new developments have smaller front and side setbacks;

- front fences are non-existent or low (up to 1.2 metres), and construction of brick or timber pickets;
  - road treatments are sealed, generally within upstanding kerbs and footpaths on both sides. Newer subdivisions have roll-over kerbs; and
  - street trees are regularly planted with mixed species and sizes.
- GS5:
    - predominantly single storey and standalone with interfaces with vegetated open space and Burwood Heights and Tally Ho Major Activity Centres;
    - front setbacks are approximately 5 metres, with at least 1 metre setbacks from both side boundaries;
    - front fences are non-existent or low (up to 0.8 metres) and generally constructed of brick;
    - road treatments are sealed, generally within upstanding kerbs and footpaths on both sides, except in new courts where rollover kerbs are used; and
    - street trees are regularly planted with mixed species and sizes.
- GS7:
    - predominantly 1-2 storeys in height, detached with semi-detached infill (units);
    - front setbacks generally range from 3-7 metres with 1-2 metres usually from both side boundaries. Some new developments have smaller front and side setbacks;
    - front fences are non-existent or planted with vegetation. Where front fencing occurs, it is generally low (up to 1.2 metres) and constructed of materials suited to the dwelling;
    - road treatments are sealed, generally within upstanding kerbs and footpaths on both sides. Newer subdivisions have roll-over kerbs; and
    - street trees are regularly planted with mixed species and sizes.



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Neighbourhood Activity Centre & Neighbourhood Character - Existing Maximum Heights Within Study Area



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### 1.4.2 Desired Future Character

Whitehorse's Neighbourhood Character Study 2014, provides preferred future character statements for all character areas in the City. Those relevant to the Study Areas for this project are shown below. It is noted that the statements include specific reference to areas of substantial change and the outcome sought for these areas.

#### **Study Area 1**

Areas with good access to trams and train stations will accommodate more dwellings with slightly more compact siting than the remaining residential areas, but with the continued incorporation of trees and gardens, and high quality, responsive design.

The broader area is a combination of heritage and older style dwellings and well designed contemporary buildings to form the key characteristics of this area.

The vegetated character of the area will be maintained by retaining consistent front setbacks that allow for trees and shrubs.

Buildings will be set back from side boundaries to provide a visual separation reflecting the typical rhythm of the streetscapes. Low or open style front fences will allow private gardens to contribute to the leafy character of the area.

#### **Study Area 2**

Areas with good access to the train stations at Laburnum and Blackburn (Substantial Change) will accommodate more dwellings with slightly more compact siting than the remaining residential areas, but with space for large trees and gardens.

The broader area will retain its classic garden suburban characteristics of low set, pitched roof dwellings set in spacious garden settings, with a backdrop of large native and exotic trees.

The established pattern of regular front and side setbacks from both side boundaries will be maintained, allowing sufficient space for planting and growth of new vegetation.

Infill development including unit developments will be common, however new buildings and additions will be set back at upper levels to minimise dominance in the streetscape.

Low or open style front fences will provide a sense of openness along the streetscape, and allow views into front gardens and lawn areas.

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**Study Area 3**

Areas in proximity to train stations will accommodate more dwellings with slightly more compact siting than the remaining residential areas, but with space for large trees and gardens.

This precinct is adjacent to the Nunawading Megamile Major Activity Centre, and the Mitcham Neighbourhood Activity Centre.

The broader area will retain its classic garden suburban characteristics of low set, pitched roof dwellings set in spacious garden settings, with a backdrop of large native and exotic trees and tree-lined streets.

As contemporary infill development becomes more common, including medium density and low scale apartments buildings, new buildings and additions will be set back at upper levels to minimise dominance in the streetscape and maintain the existing rhythm of front and side setbacks from one side boundary. They will also allow sufficient space for the planting and growth of new vegetation, including trees.

Low or open style front fences will contribute to a sense of openness along the streetscape, allowing for views into private gardens.

**Study Area 4**

Along the tram corridor on Burwood Highway (Substantial Change) infill development including medium density housing and apartment developments will be common, however new buildings and additions will be set back at upper levels to minimise dominance in the streetscape and impact on nearby standard residential areas while retaining space for landscaping including trees.

This area is also adjacent to Burwood Heights Structure Plan and Tally Ho Major Activity Centre Urban Design Framework.

Areas with good access to trams and shops will accommodate more dwellings, including well designed medium density housing, with slightly more compact siting than the remaining residential areas, but with space for large trees and gardens.

The broader area will retain its classic garden suburban characteristics of modest, pitched roof dwellings in formal garden settings. The defined pattern of regular front setbacks and side setbacks from both side boundaries will be maintained, allowing sufficient space for planting and growth of new vegetation. Low or open style front fences will provide a sense of openness along the streetscape, and allow views into front gardens.

The areas at the eastern extent of the study area, in Vermont South east of Springvale Road, present a different interface scenario than the remainder. These RGZ areas were originally identified in the Housing Strategy for a maximum 3 storey built form, and directly abut a Neighbourhood Residential zone with a maximum height of 9 metres or two storeys. In this locality, the differing interface justifies a different response in the adjoining RGZ areas.

**Open Space Interfaces**

The Residential Corridors along Whitehorse Road and Burwood Highway include public spaces along the main corridors including:

- Study Area 1: Kingsley Gardens
- Study Area 2: Box Hill City Oval, Whitehorse Reserve & Elmhurst Basin Reserve
- Study Area 3: Walker Park
- Study Area 4: Local History Park, Newbiggin Street Reserve, Benwerrin Kindergarten, Clyden Ct- Witchwood Crescent Playground, Travers Crescent Reserve, East Burwood Reserve, Billabong Park



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## 1.5 Case Study Examples

A review has been undertaken to assess controls that other metropolitan Councils have introduced to resolve built form issues within Residential Growth zones or at the interface of high density development and other residential zones. Both Darebin and Moreland City Council have included mandatory provisions through Design and Development Overlays addressing:

- Overall building height
- Street- wall heights (in relation to heritage streetscapes)
- Setbacks from the front boundary
- Building design and lot width

It is useful in considering these controls, to understand the context within which they were introduced and the issues considered by the independent panel (Planning Panels Victoria) in assessing the suitability of the controls. The Planning Panel reports for Amendment C159 (Moreland) and Amendment C136 (Darebin) have provided commentary on these issues which have been used in this analysis. It is noted that these Amendments were both introduced prior to the most recent amendments to the residential zones through Amendment VC110, which introduced the ability to specify maximum heights, but not less than 13.5m (4 storeys).

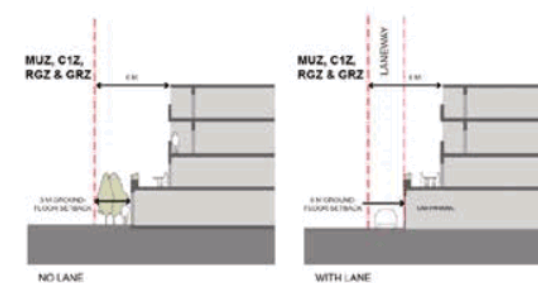
### Moreland Neighbourhood Centres

Amendment C159 to the Moreland Planning Scheme introduced consistent built form controls for the city's 11 neighbourhood activity centres in December 2017. The controls were applied through a new Design and Development overlay schedule 24, and apply to land within the Commercial, Mixed Use and Residential growth zones.

The design parameters are discretionary with the exception of where they are specified as mandatory as follows:

- Height controls (up to 13.5 metres) with 8 out of the 10 precincts mandatory;
- Site dimension requirements including a typical width of 12 metres, and depth of 35 metres (development site of a minimum of 420m<sup>2</sup>);
- Front setbacks of 3 metres to protect residential amenity at ground;
- Side setbacks, including a minimum of 4.5 metres where there is a primary outlook (living/ balcony) and as little as 2 metres for a secondary outlook (bedroom) and abutting the General or Neighbourhood Residential Zone must comply with the setback requirements of Rescode (Standard A10 or B17);

- Scaled rear setbacks (based on overall height) of:
  - 3 metres (4 metres in height) to enable rear access where none is provided,
  - 6 metres (in excess of 4 metres in height), and
  - 8.6 metres (in excess of 10.5 metres adjacent to a property in the Neighbourhood Residential Zone); and
- Design requirements regarding active frontages, awnings, building articulation, car parking and vehicle entry, site services, and landscaping.

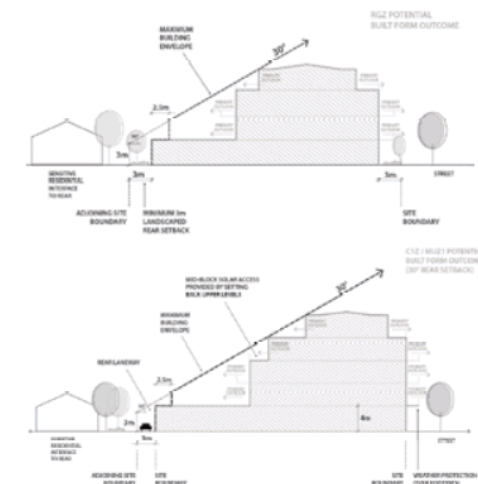


14 Rear Setbacks (Moreland Planning Scheme - DDO Schedule 24)

The design requirements include:

- Height controls ranging from 3 storeys to 6 storeys (mandatory);
- Minimum frontage widths in the Residential Growth Zone should have a minimum frontage width of 20 metres (where land is consolidated);
- A requirement for the upper levels of development to be setback from the front and side boundaries a minimum distance to create a visual delineation and more human scale to the development interface;
- Front setback of 3 metres, and additional setbacks for higher storeys to create visual separation between the lower levels and upper parts of the building;

- Scaled rear setbacks (based on overall height) of:
  - Ground floor: 3 metres including a laneway where applicable,
  - First floor: 5.5 metres including a laneway where applicable, and
  - Any other upper level must be setback from the boundary of the adjoining residential site so as to be contained within a 30 degree setback envelope (refer to adjacent Figure); and
- Design requirements regarding building design and access and parking, including objectives regarding limiting the amount and width of vehicle crossovers onto the main road.



**15** Street edge and rear setbacks (Darebin Planning Scheme - DDO Schedule 16)

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## 1.6 Review of Permit and Tribunal Decisions

In order to understand the issues arising in the Study Area through the permit approval process, including the types of applications being received, Council's considerations in determining applications and relevant Victorian Civil and Administrative Tribunal (VCAT) determinations, data was provided by the Council.

These are discussed in turn below.

### Permit Data

An extensive review of permit decisions over the last five year period has been undertaken. The permit data, at the time of the review, revealed that of the permit decisions, seventeen (17) are within the broader study area which includes land within the Commercial 1 Zone and Mixed Use Zone, with a total of fourteen (14) applications within the Residential Growth Zone (RGZ). It is advised that of the total within the RGZ, two (2) are undetermined and one (1) was withdrawn.

Of the 14 permit applications analysed (5 permits issued by Council or a delegate of Council, 6 permits issued at the direction of VCAT, 1 withdrawn and 2 applications yet to be determined, at time of review, the following was found (and graphically represented on the adjacent page):

- The minimum front setback is 5 metres;

- The permitted height within the corridors averages 19 metres (6 storeys) and heights within the RGZ include 9 applications at 5 storeys in height and 2 applications at 6 storeys in height;
- The average site coverage is 60%;
- Side and rear setbacks generally comply with standard B17 (ResCode standard for side and rear setbacks);
- The majority of car parking is provided in basements (not at or above ground level);
- Direct access to main roads, managed by VicRoads, is generally not allowed;
- Only two (2) applications are affected by Clause 58 (Residential Apartments) and remain undetermined (one is being considered by VCAT at time of review);
- The frontage width is generally 50 metres;
- The site depth is generally 45 metres; and
- Site consolidation was demonstrated in half of the applications, consolidating a minimum of 2 sites.

Refer to Appendix A for further details.

### VCAT Review

Of the permit decisions made within the study area (and within the Residential Growth Zone) there is a total of six (6) decisions made by the

VCAT and one (1) application where the VCAT decision has not been issued.

The VCAT decisions are consistent in that they acknowledge that there is clear identification of the Residential Growth Zone as being suitable for a higher form of residential development than what currently exists on the site and in the surrounding neighbourhood.

The study areas of both Whitehorse Road and Burwood Highway are consistent with the local planning policies in the planning scheme and are nominated for 'substantial change'.

This is also consistent with the Planning Policy Framework in the planning scheme that support increased housing in locations with good access to public transport, activity centres and other services.

Other decisions reviewed development and its interface with the adjacent Neighbourhood Residential Zone. It was determined that the use of articulation and change in materials at the lower levels assisted in the upper levels being considered as visually recessive without the need for a specific setback.

Lastly, landscaped setbacks were considered to be consistent with the character of the area and of importance.



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## 1.7 Impact of Clause 58 Apartment Development Standards

Clause 58 Apartment Development Standards apply to residential buildings of 5 storeys and above. The full impact of the introduction of Clause 58 in early 2017 is still being assessed and understood. In Whitehorse only two planning applications utilising the provisions of Clause 58 have been received to date within the Study Area for this project. It is evident from an examination of these applications that the outcomes achieved vary significantly from those for similar developments prior to the introduction of the new Clause 58 provisions.

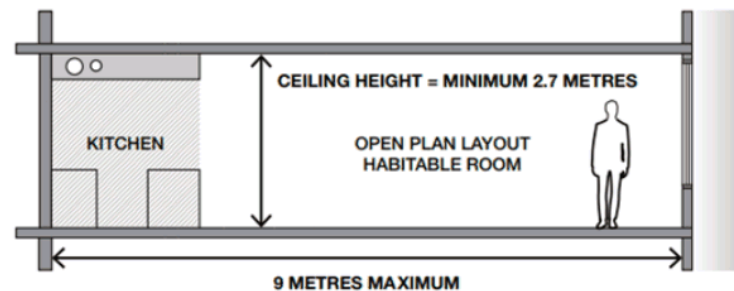
Key requirements in Clause 58 and their effects are discussed in turn below:

### Internal Amenity and Requirement for Side Setbacks

Clause 58, Standard D25 (Clause 58.07-2) relates to room depth, and the depth of an open plan, habitable room may not exceed 9 metres (refer to Figure 16). This requirement can result in a maximum floor plate width of 20 metres (9 metres + 9 metres + internal corridor, as depicted in Figure 17) without provision of a light court, or setback of some form to provide primary access to daylight to any habitable room.

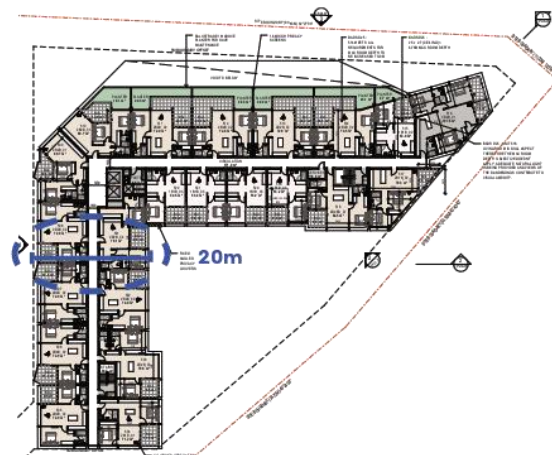
As a result of the depth limitation, narrow sites cannot comply with this requirement, which is supported with the recommended introduction of 4.5 metre setbacks to side boundaries, which will require a separation distance of a minimum of 9 metres to avoid screening of opposing windows.

It is noted that development not exceeding 4 storeys will not be affected by Clause 58 and is instead assessed against Clause 54 and 55 (ResCode). The most significant change that has occurred in apartment building design (over 4 storeys) is the application of Clause 58. As demonstrated in Figure 17, it significantly reduces the floor plate depth in order to comply with the maximum depth requirement. This is in contrast to very wide floor plates with heavy reliance on light courts as depicted in Figure 18.

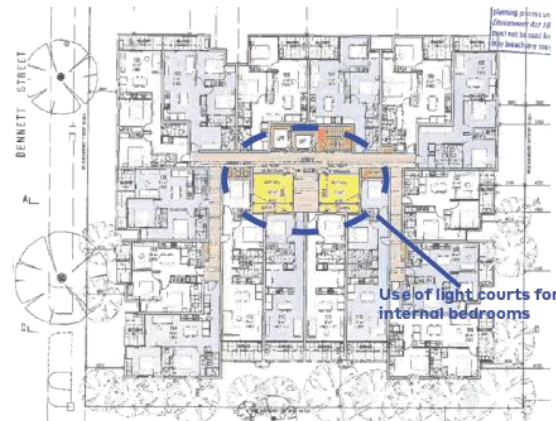


16 Extract from Apartment Design Guidelines for Victoria

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17 WH/2017/646: 380 Burwood Highway, Burwood East- Level 5  
Drawing No. TP.03.09 Rev B prepared by Hayball Architects



18 WH/2015/505: 254-258 Burwood Highway, Burwood – Level 1  
Drawing No. TP-15 Revision A prepared by Ascui & Co Architects

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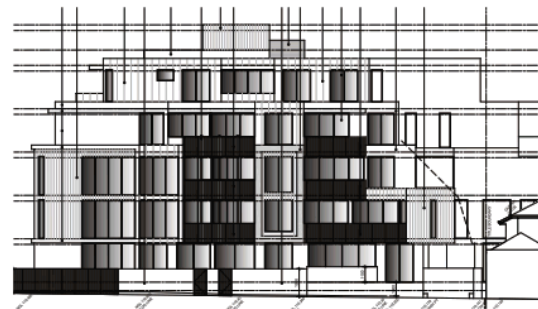
#### Rear Setbacks

Clause 58, includes Standard D25 (Clause 58.07-2) relates to room depth, and the depth of an open plan, habitable room may not exceed 9 metres. The standards do not specify any specific setback to side or rear boundaries.

As part of this review, a rear setback is critical to ensuring adequate greening, deep soil areas and landscaping of interfaces with an adjacent Neighbourhood Residential Zone and/or General Residential Zone and to alleviate overlooking.

The permit data analysis reveals that a number of applications which rise above 4-storeys in height, simply extrude any additional levels using the maximum required setback of Clause 55 (Standard B17) without any further setback (refer to Figure 19).

By contrast a single rear setback can assist in alleviating visual bulk as a stepped form can be more dominating than an element which is setback further and does not allow for significant buffer landscaping.



19 WH/2017/679: 362-364 Burwood Highway, Burwood – West  
Elevation Drawing No. TP15B prepared by Papapetrou Rice  
Architecture



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Clause 58, Standard D10 (Clause 58.03-5) encourages development that maintains and enhances the surrounding environment and habitat for plants and animals. This requirement focuses on maximising deep soil areas for the planting of canopy trees on development sites.

Standard D10 Landscaping, provides the adjacent table, which refers to the minimum size (square metres) required for deep soil areas.

SITE AREA	DEEP SOIL AREAS	MINIMUM TREE PROVISION
750 - 1000 square metres	5% of site area (minimum dimension of 3 metres)	1 small tree (6-8 metres) per 30 square metres of deep soil
1001 - 1500 square metres	7.5% of site area (minimum dimension of 3 metres)	1 medium tree (8-12 metres) per 50 square metres of deep soil or 1 large tree per 90 square metres of deep soil
1501 - 2500 square metres	10% of site area (minimum dimension of 6 metres)	1 large tree (at least 12 metres) per 90 square metres of deep soil or 2 medium trees per 90 square metres of deep soil
>2500 square metres	15% of site area (minimum dimension of 6 metres)	1 large tree (at least 12 metres) per 90 square metres of deep soil or 2 medium trees per 90 square metres of deep soil

NOTE: Where an existing canopy tree over 8 metres can be retained on a lot greater than 1000 square metres without damage during the construction period, the minimum deep soil requirement is 7% of the site area.

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## 1.8 Emerging Issues

The analysis as outlined within the remainder of Chapter 1 above indicates:

- Trees and other vegetation provide an important character context for all Whitehorse residential areas;
- Canopy trees can provide a successful visual screen between apartment development and adjoining lower scale residential areas. The provision of a large rear setback that can accommodate deep soil planting as envisaged by the Clause 58 requirements, for large canopy trees should be explored;
- Case study examples demonstrate that mandatory height controls have been implemented into the Darebin and Moreland planning schemes for higher density development. However, having reviewed a number of built form amendments throughout the State there is no evidence where a planning scheme amendment has allowed setbacks greater than those specified in Clause 55 through the schedule to the zone.
- Ground Floor interface:
  - Lack of setback to the street results in poor opportunities for landscaping;
  - Lack of activation results in services sitting away from the building face and within this limited setback due to servicing authority requirements;
  - Vehicular entrance (basement car parking) results in large setbacks to address car queuing and ramp grades into the basement with large exposed blank walls adjacent to these spaces;
- Side setbacks: Limited side setbacks to adjacent properties (combined with poor internal layouts) results in poor internal amenity (daylight and outlook), visual bulk when viewed from the street and limited opportunities for tree planting between buildings;
- Rear setbacks: The stepped rear setbacks required by ResCode provisions ('wedding cake' appearance) result in poor articulation of this interface, do not allow for more meaningful landscaping to occur from ground and also result in poor internal amenity (daylight and outlook);
- A singular setback versus stepped setbacks (wedding cake) should be explored to understand whether it addresses the desired character and vision for these areas, more appropriately assists with mitigating visual bulk and delivery of improved landscaping outcomes.

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20 Existing Whitehorse development



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## 2.0 Community Engagement

### The Process

The community engagement process for this project includes two phases of engagement. The first phase focused on an online survey, with the second phase consisting of two drop-in sessions.

Further detail from the Phase 1 and 2 consultation sessions can be found in Appendix B.

### Phase 1: (March/April 2018)

The objectives for this phase of community engagement were to:

- promote the project and opportunities for community input and feedback;
- build the community's understanding of the planning controls and issues impacting the design of residential corridors located in the RGZ;
- gain insights about what issues the community thinks should be considered in this review and why;
- gain insights about what the community thinks are positive or negative housing development examples; and,
- promote the next steps for the project.

This first phase of community engagement involved two engagement tools: a newsletter

and an online survey. The newsletter that was distributed to all properties within and adjacent to the RGZ corridor. It included information about the project and a web link to the online survey. The online survey was open for four weeks and received a total of 397 responses.

In this Phase, participants identified a number of concerns arising from development and its potential impacts. Principally, the visual appearance and bulk of development occurring in Whitehorse. Respondents indicated that development should be respectful of existing character, and must consider the resulting increased demand on infrastructure and services. The inclusion of adequate green space and parking was also identified as a priority.

### Phase 2: (June/July 2018)

The objectives for this phase of community engagement were to:

- promote the project and opportunities for community input and feedback;
- inform the community about how their feedback has been incorporated into the study; and
- present and test the draft Residential Corridor Built Form guidelines.

Two drop-in sessions were undertaken for this stage of engagement. Each session provided residents with an opportunity to learn more about the project and provide feedback on the draft report. A total of 92 attendees were recorded between the two sessions.

Whitehorse residents were invited to take part in a survey that provided them the opportunity to comment on the draft controls. This survey was available at the drop-in sessions and at Council's online website. A total of 66 survey responses were received.

From this Phase it was evident that the draft principles and controls were able to address some concerns raised in Phase 1. Respondents supported the proposed setbacks and maximum building height, but approximately 30 respondents thought they should be more conservative to further reduce visual bulk, and overlooking/overshadowing concerns persisted. Recommendations for green space and vegetation in setbacks were supported, as were the controls relating to lighting, pedestrian access, wind effects and good design.



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#### Summary of Community Feedback

Overall, the design and potential impacts of new residential buildings along road corridors is important to residents. While there is not one specific design that new developments should adhere to, it is important to residents that the built form of new structures minimise impacts to nearby properties.

Height limits, quality design, setbacks, vegetation, and attractive streetscapes were identified as important design features that improve residents' perceptions and acceptance of new developments.

According to survey responses, residents are divided in their support for the draft principles. Approximately half of survey respondents support the principles overall and expect they will deliver better built form outcomes for current and future residents. The other half do not believe the draft principles/controls will allow too much medium- and high-density development that will negatively impact the community.

There is strong opinion that new development should not come at the expense of green space or existing character. Respondents want Council to ensure that new developments do not reasonably overshadow adjoining properties, restrict access to natural light, or affect the privacy of existing residences. In this regard, proposed building

setbacks and height limits remain an area of concern. Two-thirds of survey respondents would prefer a height limit of four or fewer storeys.

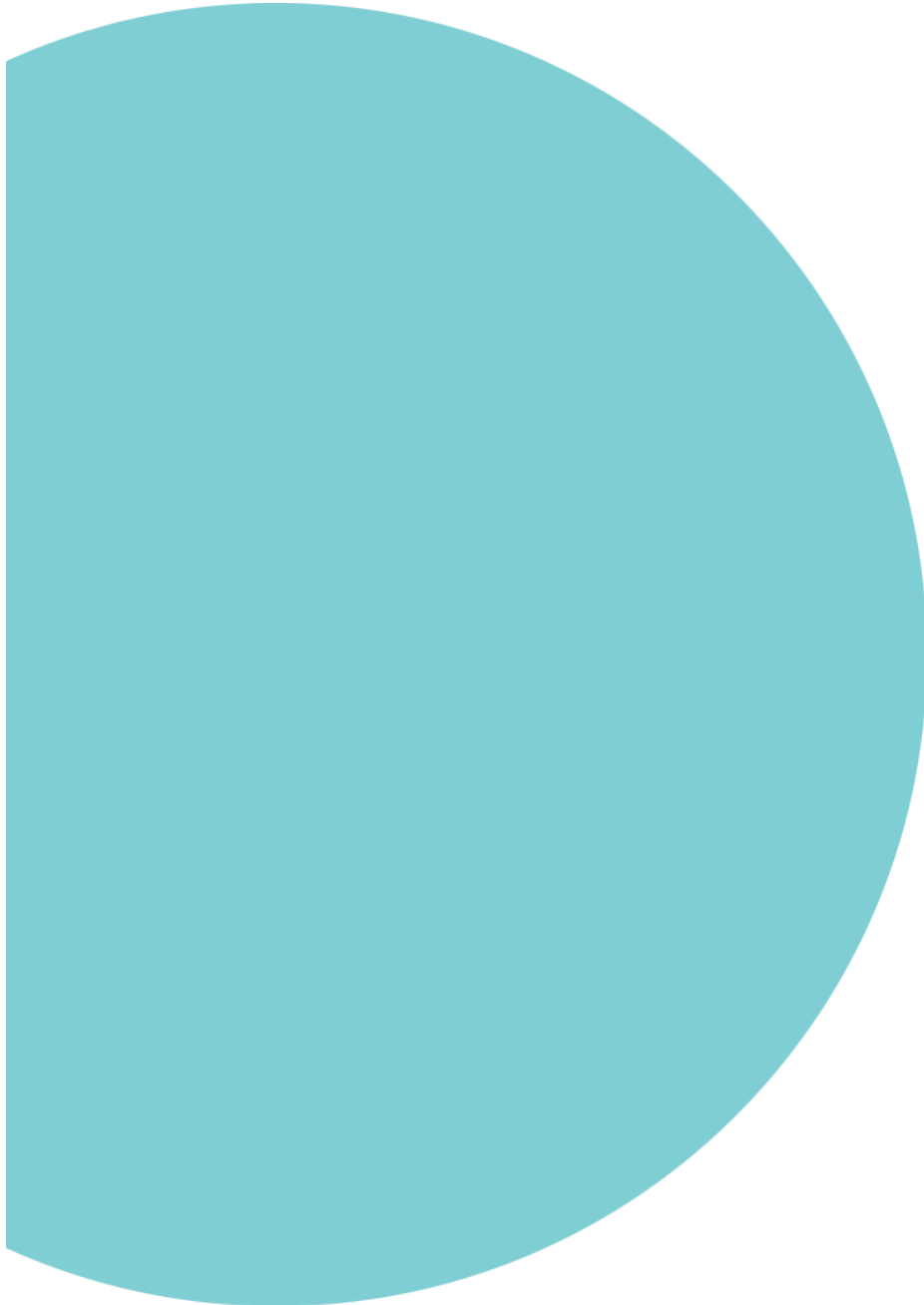
Car parking and management of traffic and access to properties along the road corridors was a popular theme throughout the engagement process. Many respondents want to see more on-site car parking and less overflow to neighbouring streets. Respondents suggested this concern could be more explicitly addressed in the draft controls.

Respondents questioned how Council would enforce built form principles and controls, and whether or not developers will successfully be held to them. Some added that it is especially difficult to enforce controls on landscaping, in particular the maintenance of private gardens.

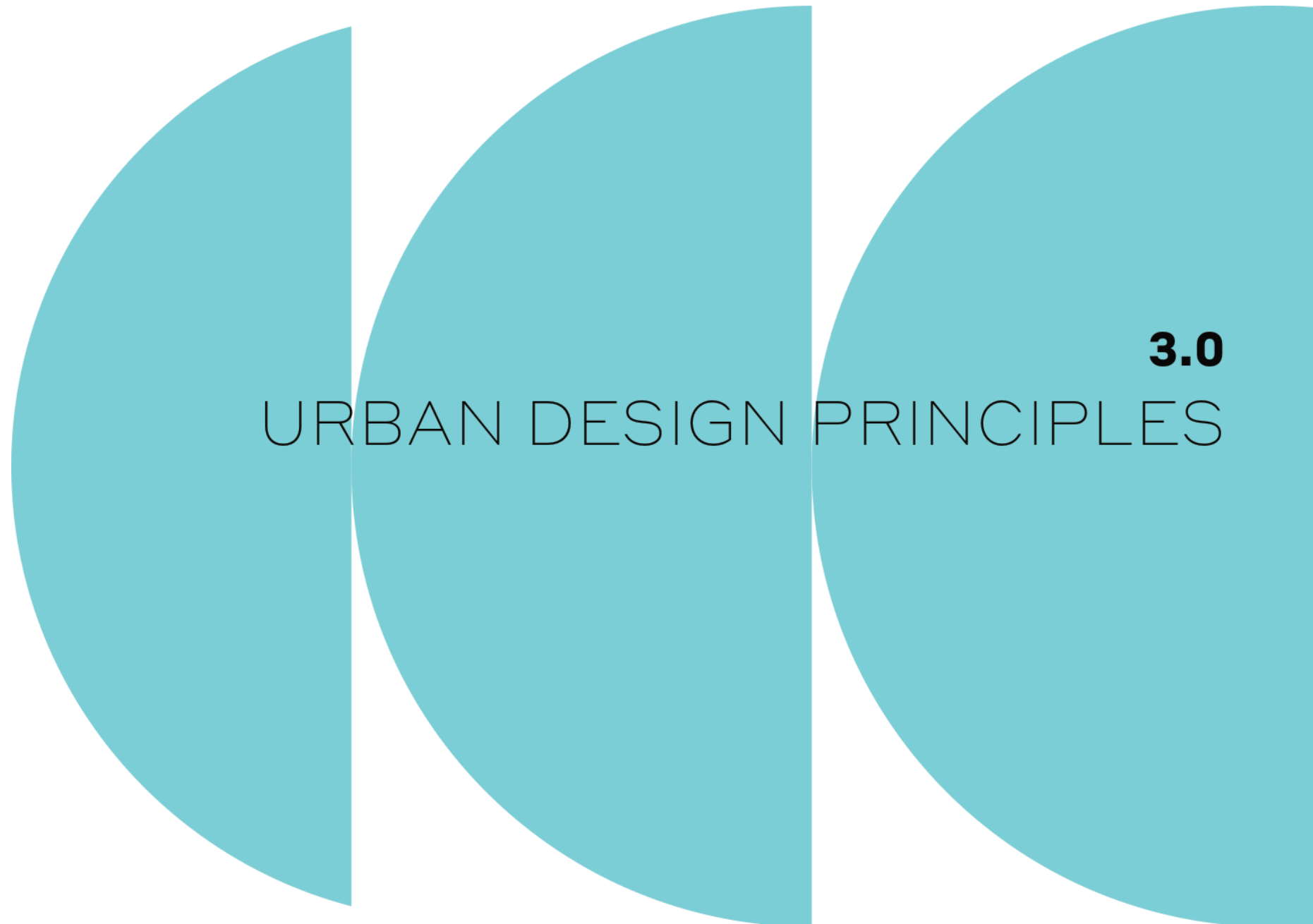
Respondents expressed the need to link the increase in population growth to additional support infrastructure and services, as well as to balance the needs of existing and new residents. Future work should also consider noise and light pollution, wind effects, and specific locations most appropriate for new development.

The following urban design principles and built form controls have been refined to reflect the feedback received during both Phase 1 and 2 of consultation.

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## 3.0 Vision and Urban Design Principles

### 3.1 Vision for the Residential Corridors

The following vision draws from the State and Local Planning Frameworks in considering Whitehorse Road and Burwood Highway forming the boulevards of Whitehorse. These corridors are key thoroughfares, acting as exemplars of the City and as gateways to the remainder of the City's residential areas.

**The Residential Corridors along Whitehorse Road and Burwood Highway will showcase the best of contemporary design, reflecting the quality and key landscape attributes of the surrounding suburbs. The interfaces with adjoining residences will be sensitively managed with space for substantial landscaping and careful attention to minimising potential amenity impacts.**

### 3.2 Principles for Corridor Development

The following design principles have informed the development of more detailed recommendations.



#### **Principle 1: Require Architectural Excellence Across All Developments**

Architectural excellence goes beyond the skin of the building; it is critically about how the building responds to its context, including the future character of the area, the street, and how it integrates best practice environmentally sustainable design techniques. It is important that excellence is achieved in some way on all developments, not just those that are in the most prominent location or those that propose the greatest height.

Detailed design objectives and preferred development outcomes are required to ensure architectural excellence is achieved on all development.

#### **Standard**

It is recommended that a professional review of developments is undertaken including referral to the Victorian Design Review Panel for significant developments, and/or engagement with the Department of Environment, Land, Water and Planning Design Advisory Service Better Apartments.

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#### **Principle 2: Enhance Sensitive Interfaces – Residential and Open Space**

The Residential Corridors interface with adjacent low scale residential areas (which are affected by the General or Neighbourhood Residential Zone). The scale and character of the Whitehorse Road and Burwood Highway corridors being within the Residential Growth Zone allows and encourages apartment developments up to 4 storeys. The permit data analysis demonstrates that based on lots sizes and consolidation, greater heights (5-6 storeys) are being permitted.

The height of buildings in the RGZ where they interface with residential areas in other zones is a key issue in this study, and a key issue of concern to the Whitehorse community. In general, it is considered that a 5-6 storey form can be accommodated in most cases, with sufficient setbacks (discussed below). It is considered a preferred height, less than a mandatory maximum of 6 storeys, would provide a nuanced preferred character adjacent to the residential zones which allow a maximum height of 3 storeys in the General Residential Zone.

Protecting the amenity of the adjacent existing residential properties is required both in the short term and long term.

Clause 55 (Standard B17) of the planning scheme aims to protect residential amenity through its side and rear setback provisions, and overlooking and overshadowing provisions.

Consideration of alternative setbacks is warranted to respond to the changing nature of development including the application of Clause 58 (Apartment Developments) which applies to development of 5 or more storeys, and also the lack of response to the desired landscaping character of the area.

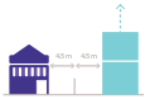
A large rear setback from adjacent residential properties adjoining the RGZ corridor is considered appropriate as it not only overcomes the need for screening of windows as the new development will include setbacks greater than the distance where screening is required, but also enables large canopy planting to this interface with the ability for 12 metre tall canopy trees (as per Clause 58 Standard D10, Landscaping of the Whitehorse Planning Scheme). This also requires deep soil to ensure that the landscaped areas around the development will thrive.

#### **Standard**

It is recommended that in general a preferred maximum height of 5 storeys (with the exception of the areas adjoining the Neighbourhood Residential Zone east of Springvale Road where a preferred maximum height of 4 storeys should apply) and a maximum height of 6 storeys should apply to development within the RGZ in the Study Areas to provide a better interface with adjoining development.

Development proposed greater than the preferred maximum heights should demonstrate excellence in design, compliance with all principles and standards in this report, and methods used to minimise impact on adjoining residences.

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**Principle 3: Provide for Equitable Access to Amenity**

Development across the Whitehorse Road and Burwood Highway corridors are likely to be sporadic with potential for new, taller buildings to be located adjacent to existing, low scale buildings for a substantial period of time. It is important to have measures in place to ensure the future development potential of adjoining sites is not compromised by the earlier development.

A key consideration is equitable access to amenity to ensure adjoining buildings within the corridors have sufficient separation, to limit overshadowing and ensure adequate privacy for apartments and access to daylight.

**Standard**

It is recommended that a mandatory minimum separation distance between buildings of 9 metres (achieved with a 4.5 metre setback to common side boundaries and an offset of windows) where the separation does not require the reliance on screening.



**Principle 4: Reinforce the Sense of Human Scale to the Street**

The built form along both the Whitehorse Road and Burwood Highway corridors include a mix of low scale detached houses, units and townhouses and the beginnings of widespread apartment developments. The existing character is changing over time, based on recent approved developments, permit applications and planning policies encouraging further intensification of development along these corridors.

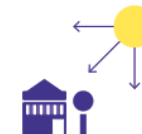
It is important that new, taller buildings are designed in a way that integrates them with existing lower scale dwellings and do not dominate the streetscape. This is possible by providing a lower scale building towards the street and setting taller elements further behind.

A four-storey building height towards the street is recommended as this will reinforce a human scale and also assists in mitigating wind downdraughts.

**Standard**

It is recommended that buildings should be setback 3 metres to the street above 4-storeys in height to reinforce a sense of human scale to the street.

It is also recommended that wind effects are considered for any development over 4 storeys in height.



**Principle 5: Maintain Solar Access to Public Open Spaces**

Maintaining sunlight to these key spaces support the vitality of the area and the landscaped character of the area.

Sunlight access is usually measured at the equinox (22 September) in Planning Schemes across Victoria. Limiting shadowing to the equinox is also considered to provide a balance between good solar access at key times of the day whilst not unduly limiting development opportunities along the residential corridors.

**Standard**

It is recommended that solar access be measured for shadows cast at the equinox (22 September) to key open spaces between 12pm and 2pm on 22 September.

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**Principle 6: Provide for Integrated Frontages**

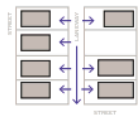
The resolution of the ground floor frontages of new apartment buildings can contribute to a positive pedestrian experience including passive surveillance. Frontages should avoid:

- blank walls,
- car parking areas,
- wide car park entrances,
- services, and
- high fences.

**Standard**

It is recommended that all buildings are constructed with larger floor to ceiling heights at ground floor, capable of supporting home based businesses or retail as allowed for in the Residential Growth zone (subject to permit). This will allow for buildings to be adapted in future as allowable in the zone, and providing passive surveillance of the street.

Additionally, consideration of lower fence heights and landscaping within the front setback will assist in integrating the new buildings with the desired landscaped character of the area.



**Principle 7: Ensure Adequate Servicing of Existing and New Developments**

As the Whitehorse Road and Burwood Highway corridors develop, so do the service and access requirements for buildings. This includes access to car parking for residents, access for service vehicles, pedestrian and cycle access, and emergency service and waste collection access.

It is important that new development takes advantage of existing service access arrangements. Where possible, driveway crossovers should be located on secondary frontages and minimised in width.

Another key consideration is ensuring that new development can be accessed adequately by pedestrians and cyclists.

**Standard**

It is recommended that buildings at ground floor resolve vehicle access and services and not dominate the streetscape/public areas.

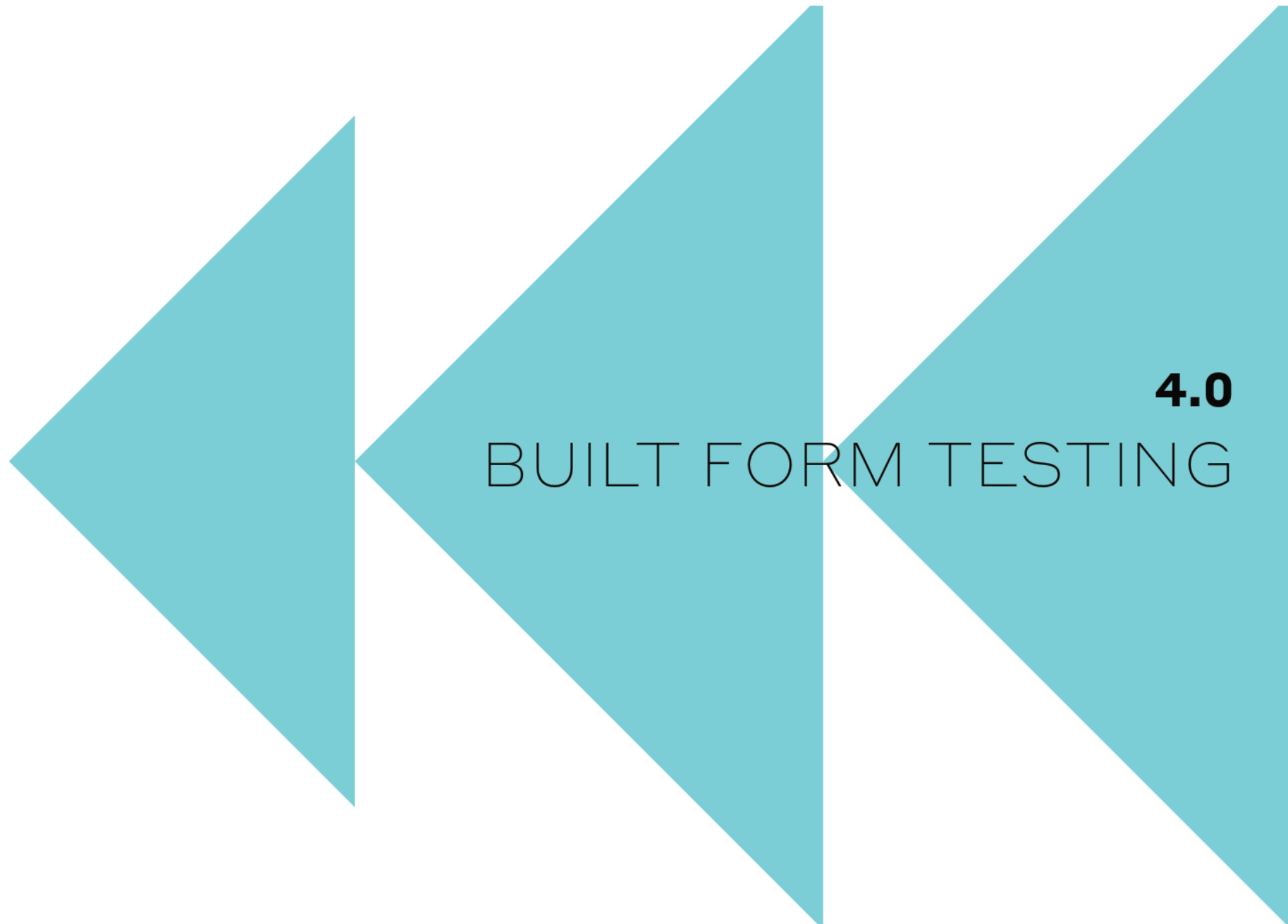


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## 4.0 Built Form Testing

The case studies are drawn from applications received and permits issued within the Study Areas over the last 5 years. The case studies were selected by Council officers to demonstrate the range of higher density applications received, with some determined by Council and some through a VCAT process. The case studies were tested against the proposed standards and demonstrates the alternative outcome should the proposed standards have been applied to the site.

The testing assumed floor to floor heights of 4 metres for ground floor and 3 metres for upper levels.

The testing includes details regarding:

- Total site area
- Gross floor area
- Site coverage (%)
- Overall building height
- Side setbacks
- Rear setbacks
- Upper level setbacks
- Open Space

- Large Tree Planting Areas
- Building Depth
- Internal Amenity
- Tree pit depths

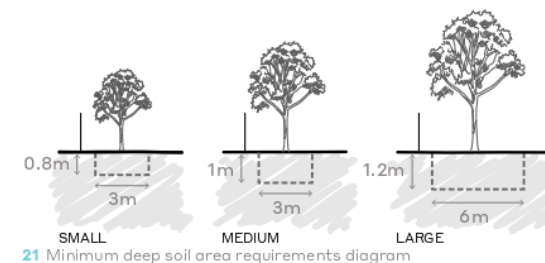
Within the four study areas, six existing permits were selected with varying site sizes, orientation and street context (main road, service road and a local court). The permit application outcomes in terms of site coverage, open space, small to medium tree planting area, and gross floor area are compared with those achieved by a combination of the Proposed Built Form Standards and Clause 58 Apartment Development requirements. By this comparison it is possible to determine whether the proposed standards are achieving a better built form outcome, while not overly restricting the housing objectives of the zone.

Comparisons were drawn between site occupation and greening and internal amenity. This included site coverage, provision of open space, provision of large tree planting area, building depth and building entry and circulation as required under Clause 58.03-5.

Clause 58, Standard D10 (Clause 58.03-5) refers to deep soil areas, but does not give a measure of the minimum required depth of a 'deep soil' area.

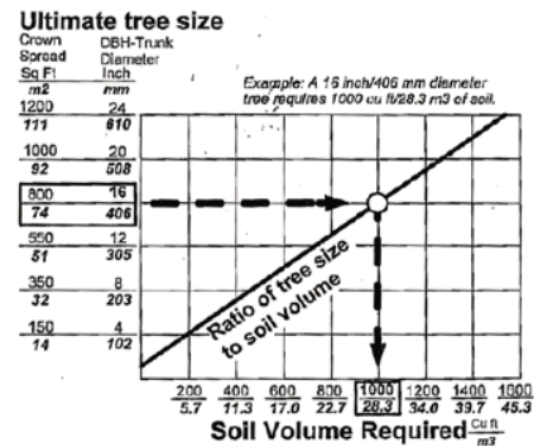
Depths have been sourced from the *Sydney Landscape Code, 2016* and the *Bartlett Tree Research Laboratories Technical Report*, to ensure trees of small, medium and large heights are provided with adequate deep soil area.

The table on the following page applies the minimum required depths to the minimum deep soil areas of Clause 58.



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Table 2.4.1. Tree size to soil volume relationships (Urban 1992).



22 Minimum soil volume required.

Source: Bartlett Tree Research Laboratories

SITE AREA	DEEP SOIL AREAS	MINIMUM TREE PROVISION	MINIMUM DEPTH
750 - 1000 square metres	5% of site area (minimum dimension of 3 metres)	1 small tree (5-8 metres) per 30 square metres of deep soil	800mm
1001 - 1500 square metres	7.5% of site area (minimum dimension of 3 metres)	1 medium tree (8-12 metres) per 50 square metres of deep soil or 1 large tree per 90 square metres of deep soil	1000mm  1200mm
1501 - 2500 square metres	10% of site area (minimum dimension of 6 metres)	1 large tree (at least 12 metres) per 90 square metres of deep soil or 2 medium trees per 90 square metres of deep soil	1200mm  1000mm
>2500 square metres	15% of site area (minimum dimension of 6 metres)	1 large tree (at least 12 metres) per 90 square metres of deep soil or 2 medium trees per 90 square metres of deep soil	1200mm  1000mm

NOTE: Where an existing canopy tree over 8 metres can be retained on a lot greater than 1000 square metres without damage during the construction period, the minimum deep soil requirement is 7% of the site area.



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23 Apartment Development showing minimal setback

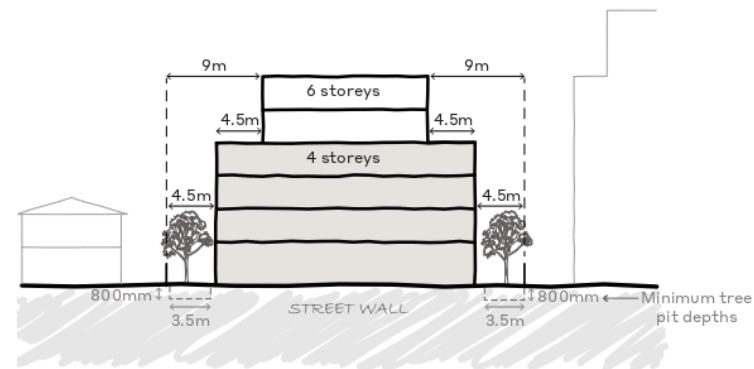
9.1.3 – ATTACHMENT 1. Final Report

Built Form Standards for Testing - 6 storeys

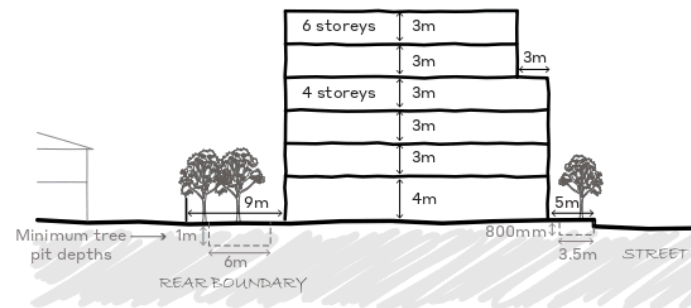
<b>Height</b>	6 storeys (19 metres)
<b>Street Setbacks</b>	5 metres (3m upper level setback above 4 storeys)
<b>Side Setbacks</b>	4.5 metres (to enable 9 metre separation) (4.5m upper level setback above 4 storeys)
<b>Rear Setbacks</b>	9 metres (to ensure adequate area for deep soil and large tree planting and landscaping) and avoid overlooking/screening

The results of the following Built Form Testing informed the subsequent Draft Built Form Guidelines and Controls in Section 5.0.

Standards for Testing - Proposed Typology



24 Front Elevation - Proposed Side Setback Standards



25 Side Elevation - Proposed Front and Rear Setback Standards

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## 4.1 Built Form Testing

801 WHITEHORSE ROAD, MONT ALBERT

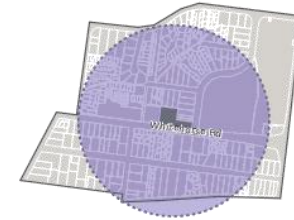
WH/2016/718

5 STOREYS

27 APARTMENTS

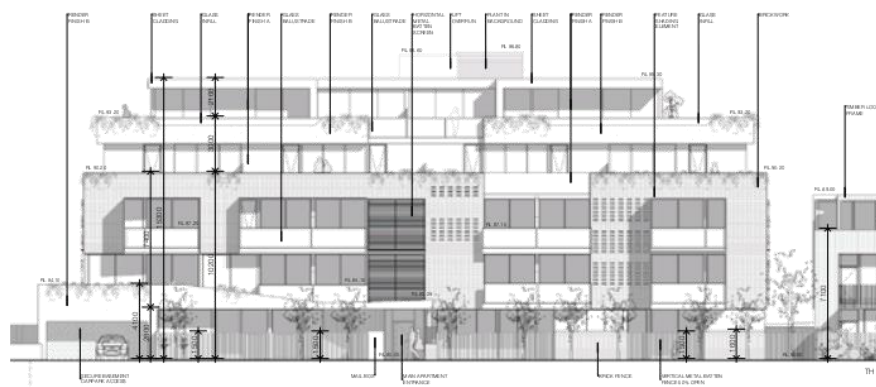
REAR ZONE INTERFACE: GRZ4 and RGZ2

SITE AREA: 3,254M<sup>2</sup>



SITE DIMENSIONS  
Frontage - 94.3m  
Depth - 50.7m & 17m

Existing Site Conditions



South Elevation - Clarke Hopkins Clarke Architects (Permit Application)

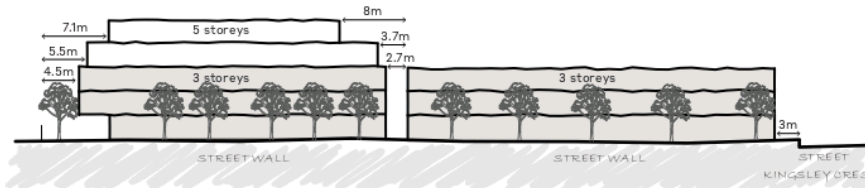


Ground Floor Plan - Clarke Hopkins Clarke Architects (Permit Application)

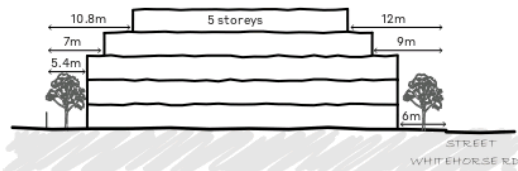
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PROPOSED SETBACKS STANDARDS

PERMIT APPLICATION



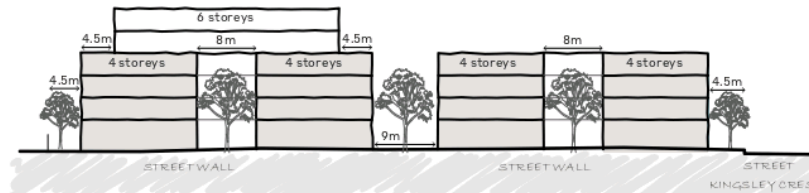
Front Elevation - Diagrammatic Representation - 801 Whitehorse Road Permit Application



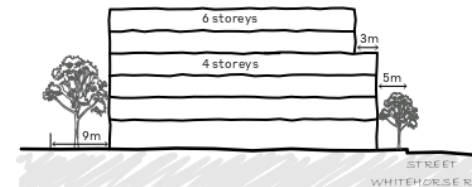
Side Elevation - Diagrammatic Representation - 801 Whitehorse Road Permit Application

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Front Elevation - Proposed Side Setback Standards

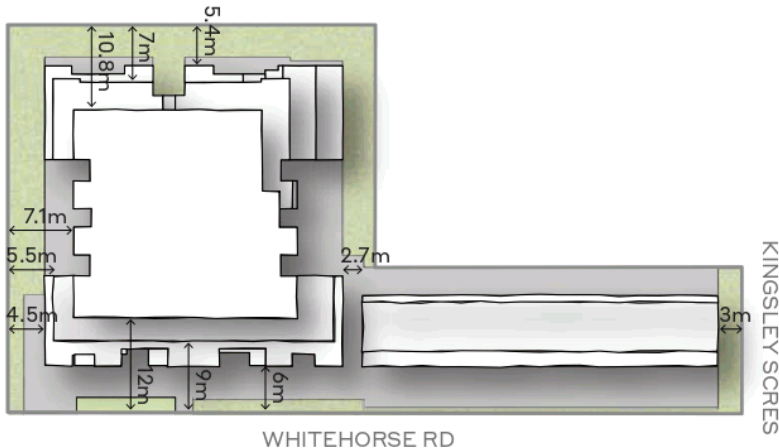
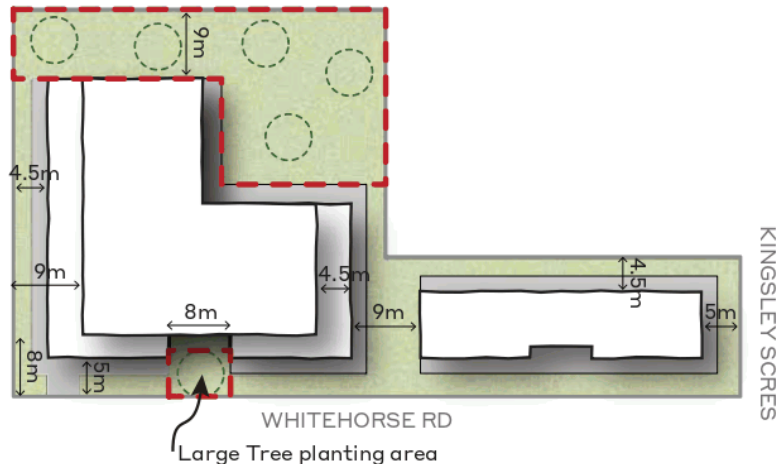


Side Elevation - Proposed Front and Rear Setback Standards

N.B. Only large and medium trees are depicted in the diagrammatic representations



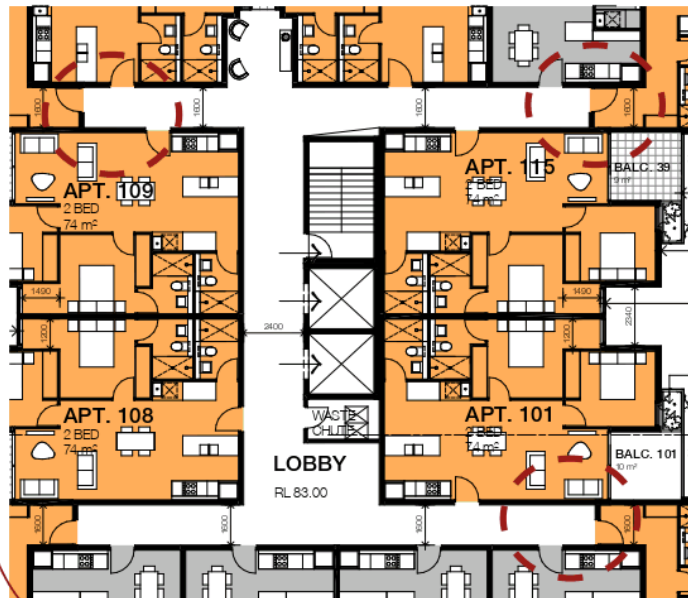
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SITE COVERAGE AND GREENING			
PERMIT APPLICATION		PROPOSED BUILT FORM STANDARDS (with Cl. 58 requirements)	
			
Plan (Diagrammatic Representation) - 801 Whitehorse Road Permit Application		Plan (Proposed Standards for Testing Diagram) - 801 Whitehorse Road	
N.B. Only large trees are depicted in the diagrammatic representations			
Site Coverage -	1,522m <sup>2</sup> (47%)	Site Coverage -	1,400m <sup>2</sup> (43%)
Open Space -	1,614m <sup>2</sup> (49%)	Open Space -	1,675m <sup>2</sup> (52%)
Large Tree Area -	0m <sup>2</sup> (0%) of the total site area can be used for large tree planting (non-compliant with cl. 58.03-5)	Large Tree Area -	774m <sup>2</sup> (24%) of the total site area can be used for large tree planting (Provides 14% additional large tree area than what is required under cl. 58.03-5)

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INTERNAL AMENITY

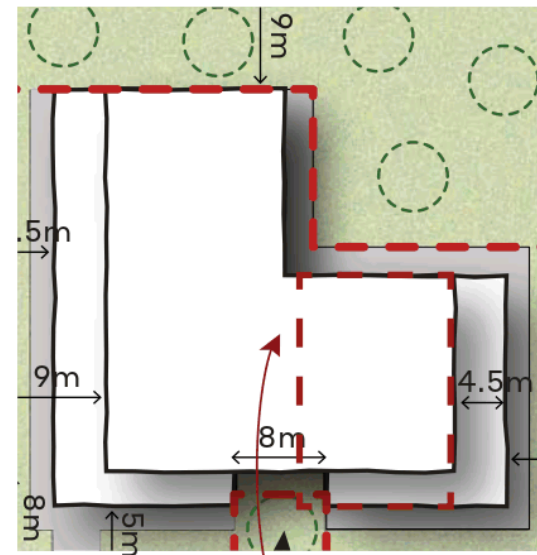
PERMIT APPLICATION



**Cl. 58.05-2 Building Entry and Circulation Objectives-** Due to excessive building depth the design does not comply with Standard D18 - Provide corridors with at least one source of natural light and natural ventilation

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Building Depth of a maximum of 20m ensures compliance with Clause 58 Internal Amenity

GROSS FLOOR AREA (GFA)

GFA - 6,321m<sup>2</sup>

GFA - 7,134m<sup>2</sup>

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40 WHITEHORSE ROAD, BLACKBURN

WH/2016/622

5 STOREYS

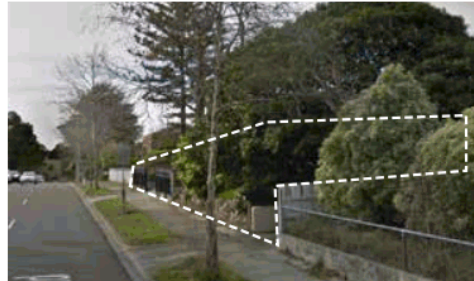
70 APARTMENTS

REAR ZONE INTERFACE: RGZ2 and GRZ2 south of the rail line

SITE AREA: 1,633M<sup>2</sup>



Existing Site Conditions



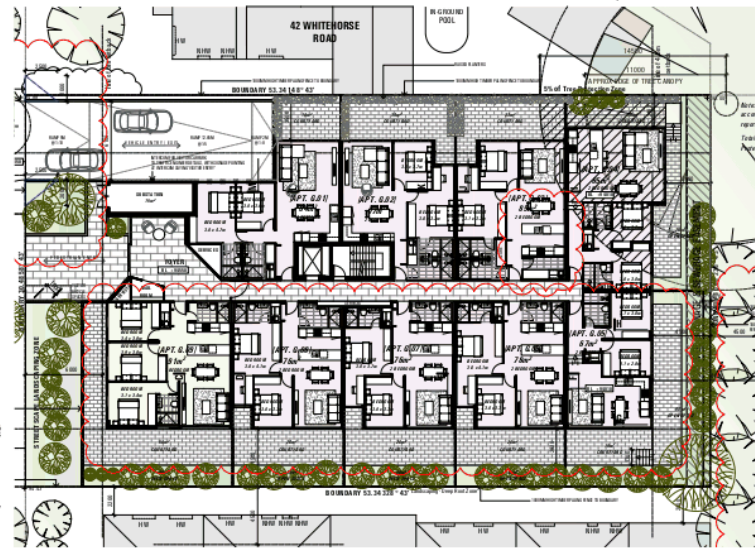
SITE DIMENSIONS

Frontage - 30.5m

Depth - 53.4m



North Elevation - IDLE Architecture Studio (Permit Application)

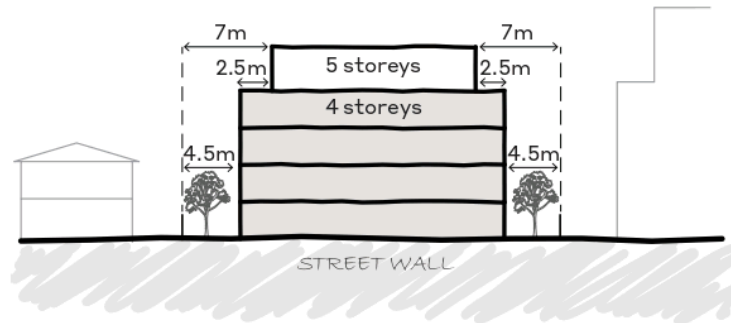


Ground Floor Plan - IDLE Architecture Studio (Permit Application)

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PROPOSED SETBACKS STANDARDS

PERMIT APPLICATION



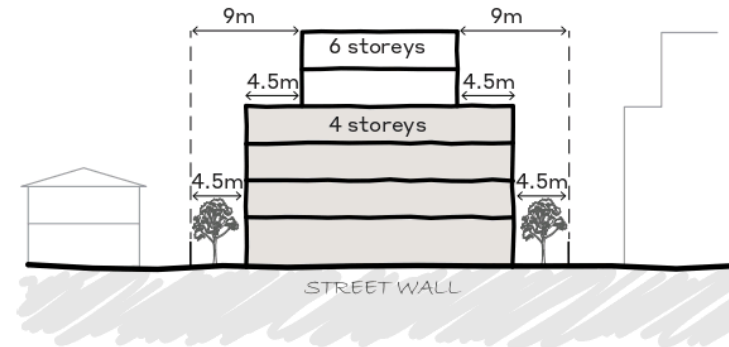
Front Elevation - Diagrammatic Representation - 40 Whitehorse Road Permit Application



Side Elevation - Diagrammatic Representation - 40 Whitehorse Road Permit Application

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Front Elevation - Proposed Side Setback Standards



Side Elevation - Proposed Front and Rear Setback Standards

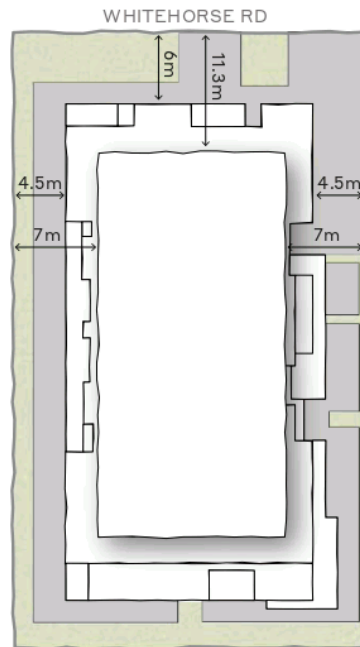
N.B. Only large and medium trees are depicted in the diagrammatic representations



9.1.3 – ATTACHMENT 1. Final Report

SITE COVERAGE AND GREENING

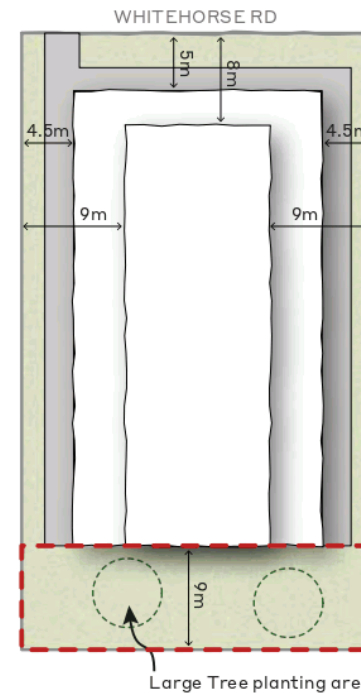
PERMIT APPLICATION



Plan (Diagrammatic Representation) - 40 Whitehorse Road Permit Application  
N.B. Only large trees are depicted in the diagrammatic representations

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



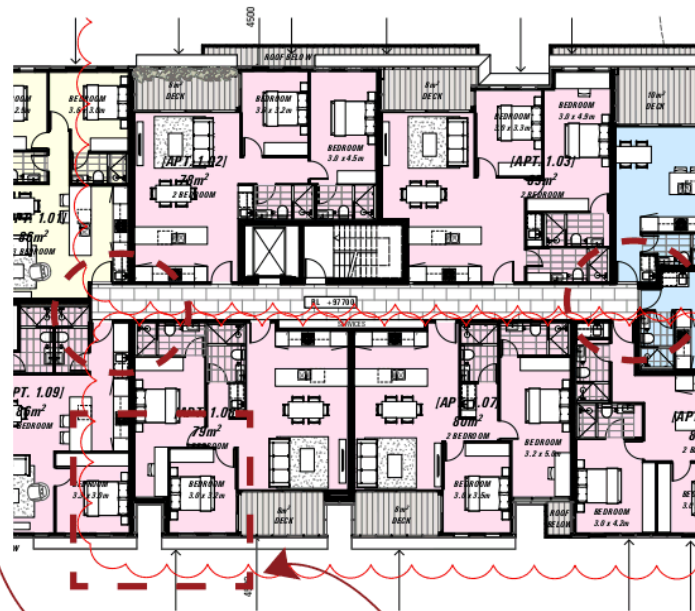
Plan (Proposed Standards for Testing Diagram) - 40 Whitehorse Road

Site Coverage -	917m <sup>2</sup> (56%)	Site Coverage -	850m <sup>2</sup> (51%)
Open Space -	585m <sup>2</sup> (35%)	Open Space -	769m <sup>2</sup> (47%)
Large Tree Area -	0m <sup>2</sup> (0%) of the total site area can be used for large tree planting (non-compliant with cl. 58.03-5)	Large Tree Area -	275m <sup>2</sup> (17%) of the total site area can be used for large tree planting (Provides 7% additional large tree area than what is required under cl. 58.03-5)

9.1.3 – ATTACHMENT 1. Final Report

INTERNAL AMENITY

PERMIT APPLICATION

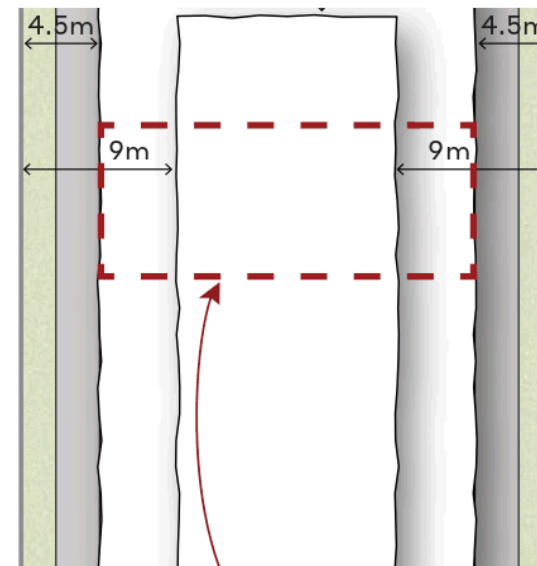


**Cl. 58.05-2 Building Entry and Circulation Objectives-** This internal building layout does not comply with Standard D18 - Provide corridors with at least one source of natural light and natural ventilation

**Cl. 58.07-3 Windows Objective** - Snorkel windows with a depth greater than 1.5 times the width and not clear to the sky does not comply

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Building Depth of a maximum of 20m ensures compliance with Clause 58 Internal Amenity

GROSS FLOOR AREA (GFA)

GFA - 3,727m<sup>2</sup>

GFA - 4,314m<sup>2</sup>

9.1.3 – ATTACHMENT 1. Final Report

9 FRANKCOM STREET, BLACKBURN

WH/2016/1172

5 STOREYS

35 APARTMENTS

REAR ZONE INTERFACE: RGZ2

SITE AREA: 3,277M<sup>2</sup>



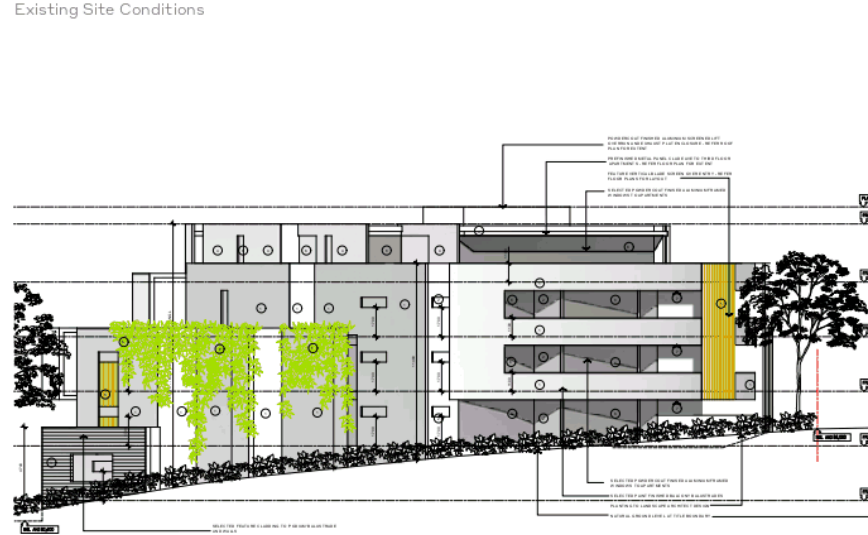
Existing Site Conditions



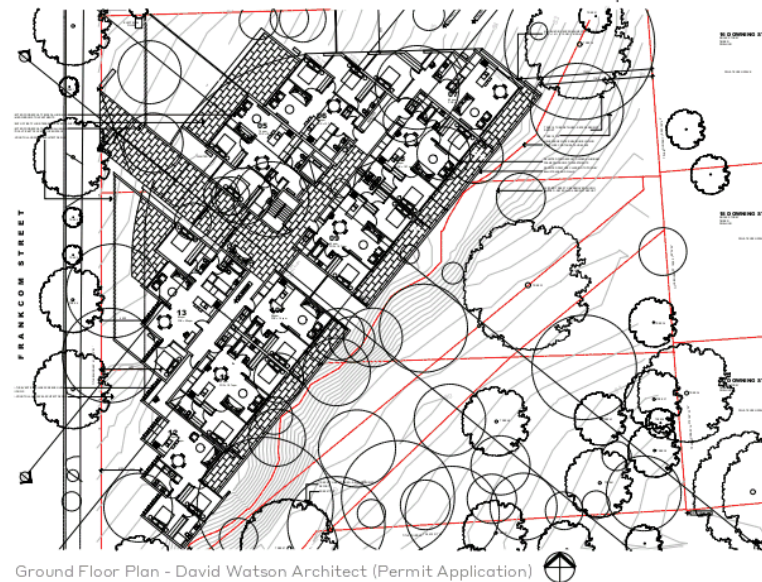
SITE DIMENSIONS

Frontage - 61.6m

Depth - 60.9m



North Elevation - David Watson Architect (Permit Application)

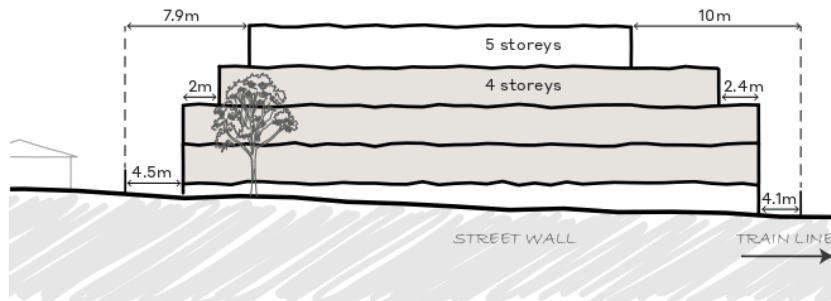


Ground Floor Plan - David Watson Architect (Permit Application)

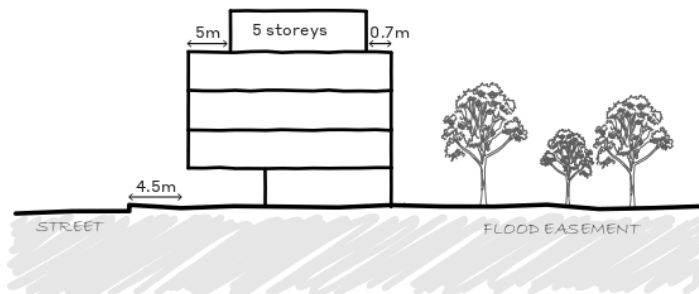
9.1.3 – ATTACHMENT 1. Final Report

PROPOSED SETBACKS STANDARDS

PERMIT APPLICATION



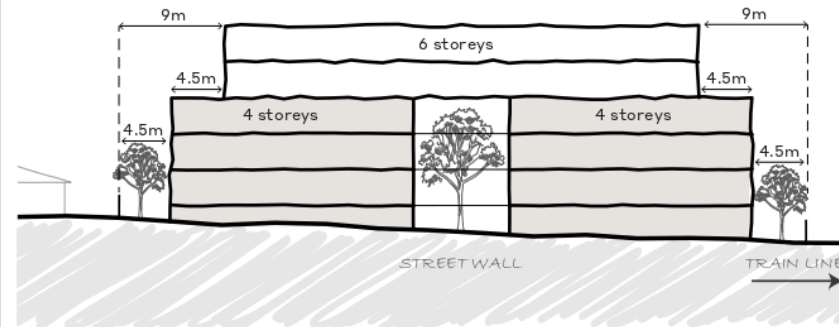
Front Elevation - Diagrammatic Representation - 9 Frankcom Street Permit Application



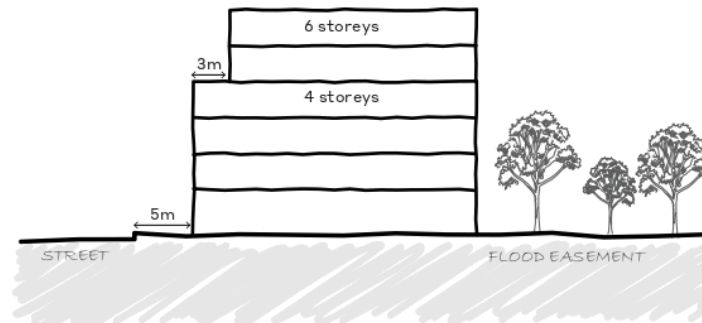
Side Elevation - Diagrammatic Representation - 9 Frankcom Street Permit Application

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Front Elevation - Proposed Side Setback Standards

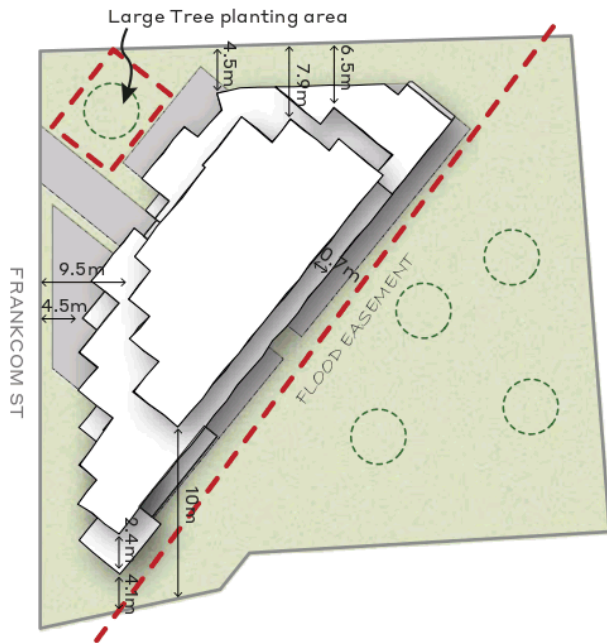
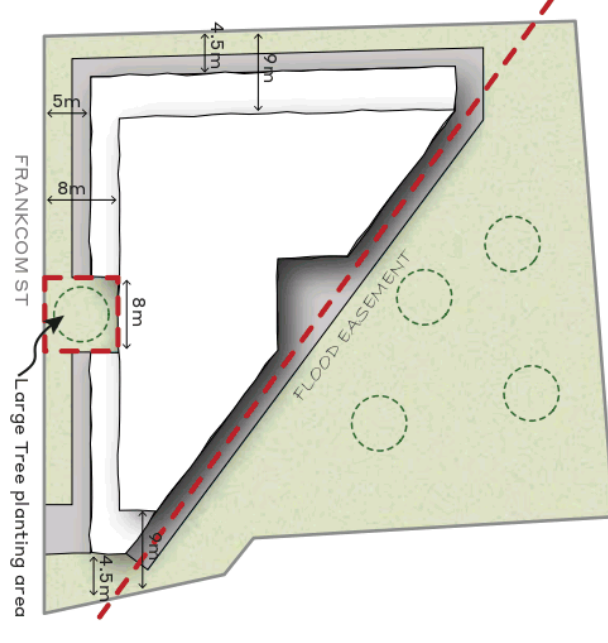


Side Elevation - Proposed Front and Rear Setback Standards

N.B. Only large and medium trees are depicted in the diagrammatic representations



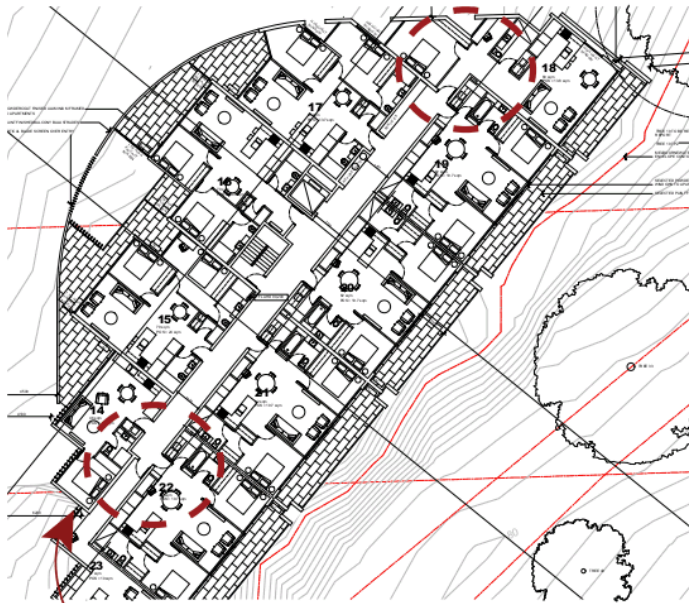
9.1.3 – ATTACHMENT 1. Final Report

SITE COVERAGE AND GREENING			
PERMIT APPLICATION		PROPOSED BUILT FORM STANDARDS (with Cl. 58 requirements)	
			
Plan (Diagrammatic Representation) - 9 Frankcom Street Permit Application		Plan (Proposed Standards for Testing Diagram) - 9 Frankcom Street	
N.B. Only large trees are depicted in the diagrammatic representations			
Site Coverage -	520m <sup>2</sup> (15%)	Site Coverage -	1,123m <sup>2</sup> (34%)
Open Space -	2,380m <sup>2</sup> (72%)	Open Space -	2,198m <sup>2</sup> (66%)
Large Tree Area -	Due to an extensive flood easement applied to the rear of the site, there is a significant area for the planting of large trees		
		Large Tree Area -	Due to an extensive flood easement applied to the rear of the site, there is a significant area for the planting of large trees

9.1.3 – ATTACHMENT 1. Final Report

INTERNAL AMENITY

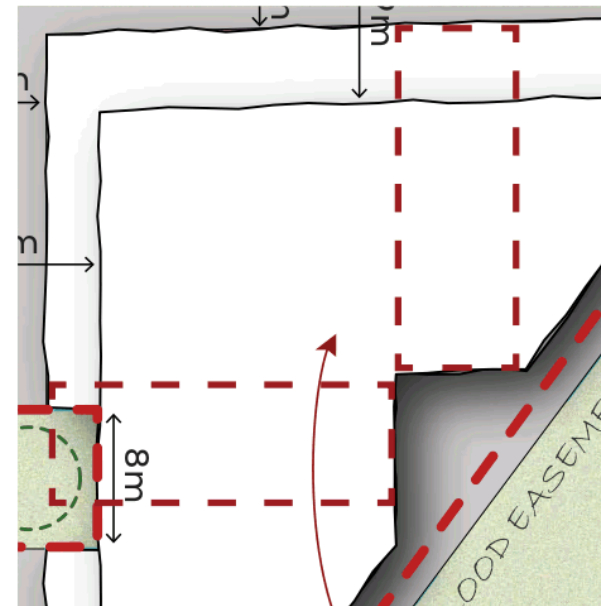
PERMIT APPLICATION



**Cl. 58.05-2 Building Entry and Circulation**  
**Objectives-** Due to excessive building depth the design does not comply with Standard D18 - Provide corridors with at least one source of natural light and natural ventilation

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Building Depth of a maximum of 20m ensures compliance with Clause 58 Internal Amenity

GROSS FLOOR AREA (GFA)

GFA - 4,253m<sup>2</sup>  
\*Inclusive of area under cantilevered Ground Floor

GFA - 6,130m<sup>2</sup>

9.1.3 – ATTACHMENT 1. Final Report

260 - 262 BURWOOD HIGHWAY, BURWOOD

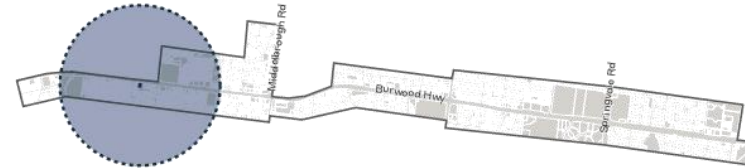
WH/2015/131

5 STOREYS

44 APARTMENTS

REAR ZONE INTERFACE: GRZ3 and PPRZ

SITE AREA: 1,577M<sup>2</sup>



Existing Site Conditions



SITE DIMENSIONS

Frontage - 34.8m

Depth - 45.5m



North Elevation - Ascuri & Co. Architects (Permit Application)

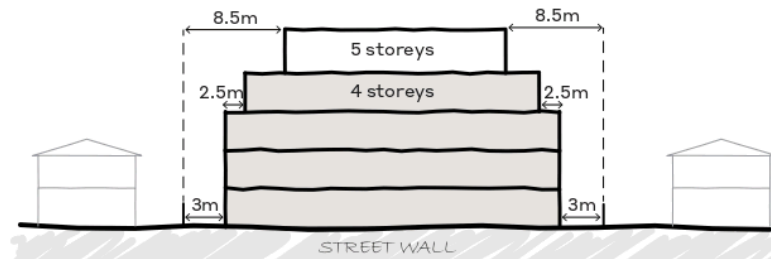


Level 1 Plan - Ascuri & Co. Architects (Permit Application)

9.1.3 – ATTACHMENT 1. Final Report

PROPOSED SETBACKS STANDARDS

PERMIT APPLICATION



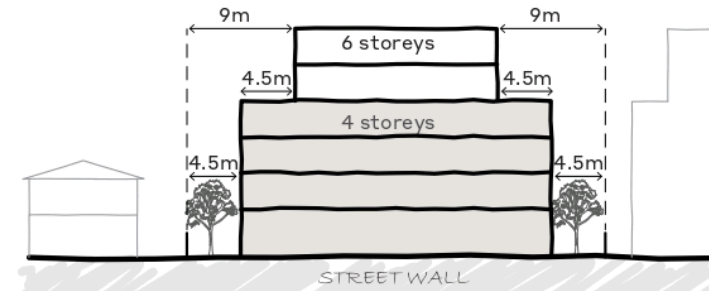
Front Elevation - Diagrammatic Representation - 260-262 Burwood Hwy Permit Application



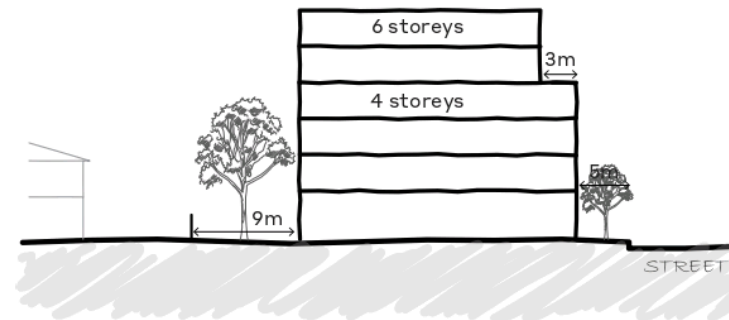
Side Elevation - Diagrammatic Representation - 260-262 Burwood Hwy Permit Application

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Front Elevation - Proposed Side Setback Standards

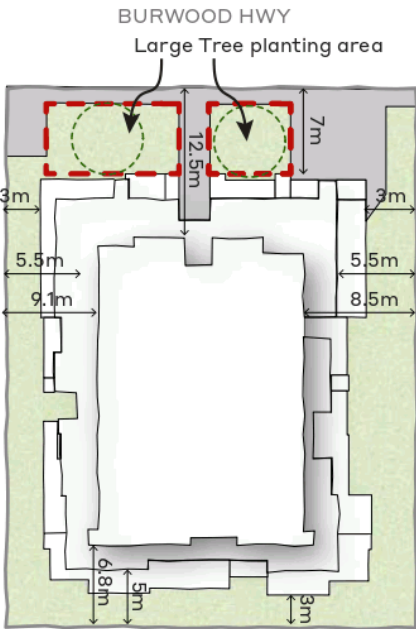
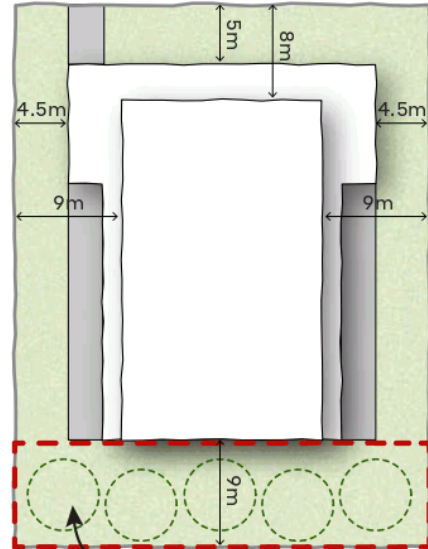


Side Elevation - Proposed Front and Rear Setback Standards

N.B. Only large and medium trees are depicted in the diagrammatic representations



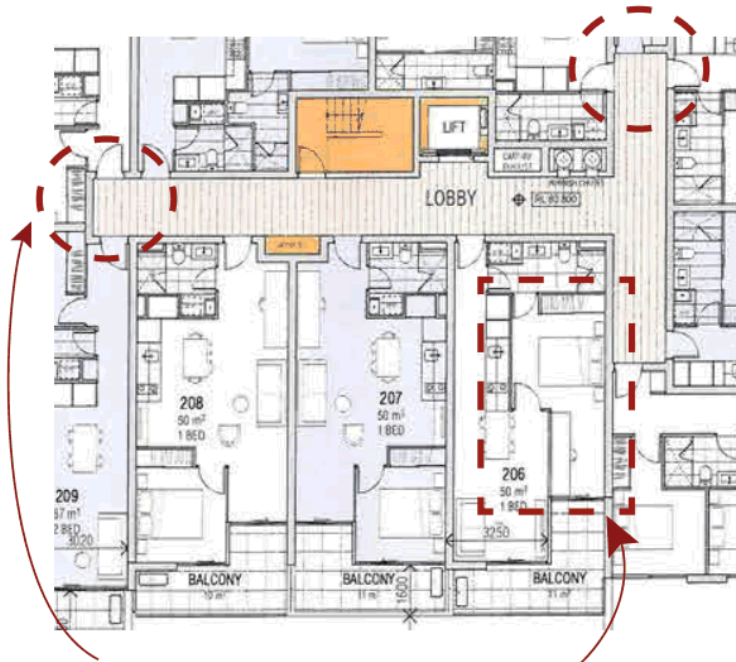
9.1.3 – ATTACHMENT 1. Final Report

SITE COVERAGE AND GREENING	
<p><b>PERMIT APPLICATION</b></p>  <p>Plan (Diagrammatic Representation) - 260-262 Burwood Hwy Permit Application N.B. Only large trees are depicted in the diagrammatic representations</p>	<p><b>PROPOSED BUILT FORM STANDARDS</b> (with Cl. 58 requirements)</p>  <p>Plan (Proposed Standards for Testing Diagram) - 260-262 Burwood Hwy</p>
Site Coverage -	941m <sup>2</sup> (60%)
Open Space -	495m <sup>2</sup> (31%)
Large Tree Area -	120m <sup>2</sup> (7.6%) of the total site area can be used for deep soil planting (non-compliant with cl. 58.03-5)
Site Coverage -	889m <sup>2</sup> (56%)
Open Space -	548m <sup>2</sup> (35%)
Large Tree Area -	313m <sup>2</sup> (20%) of the total site area can be used for large tree planting (Provides 10% additional large tree area than what is required under cl. 58.03-5)

9.1.3 – ATTACHMENT 1. Final Report

INTERNAL AMENITY

PERMIT APPLICATION

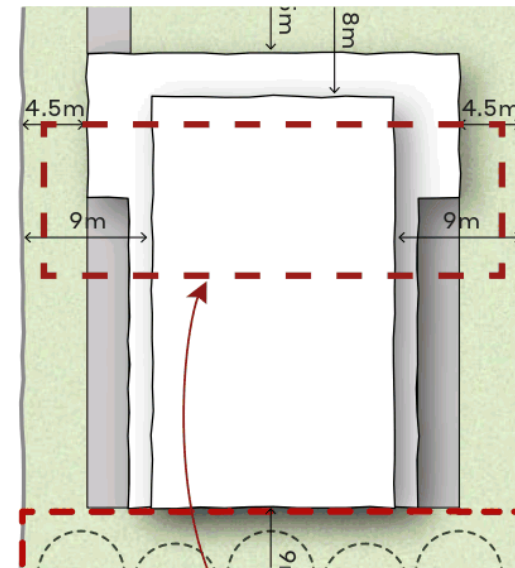


**Cl. 58.05-2 Building Entry and Circulation**  
**Objectives-** Due to excessive building depth the design does not comply with Standard D18 - Provide corridors with at least one source of natural light and natural ventilation

**Cl. 58.07-3 Windows Objective**  
- Snorkel windows with a depth greater than 1.5 times the width and not clear to the sky does not comply

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Building Depth of a maximum of 20m ensures compliance with Clause 58 Internal Amenity

GROSS FLOOR AREA (GFA)

GFA - 3,886m<sup>2</sup>

GFA - 3,710m<sup>2</sup>

9.1.3 – ATTACHMENT 1. Final Report

254-258 BURWOOD HIGHWAY, BURWOOD

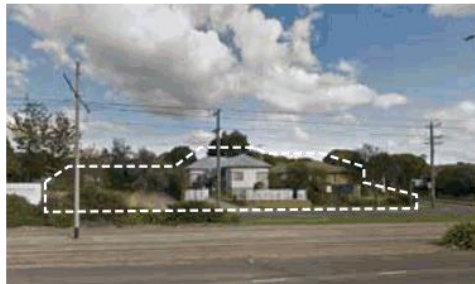
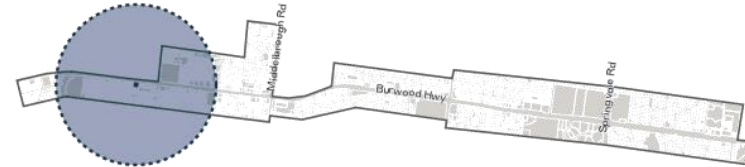
WH/2015/505

5 STOREYS

69 APARTMENTS

REAR ZONE INTERFACE: GRZ3

SITE AREA: 2,044M<sup>2</sup>



Existing Site Conditions



SITE DIMENSIONS

Frontage - 44.8m

Depth - 45.5m



North Elevation - Ascuri & Co. Architects (Permit Application)

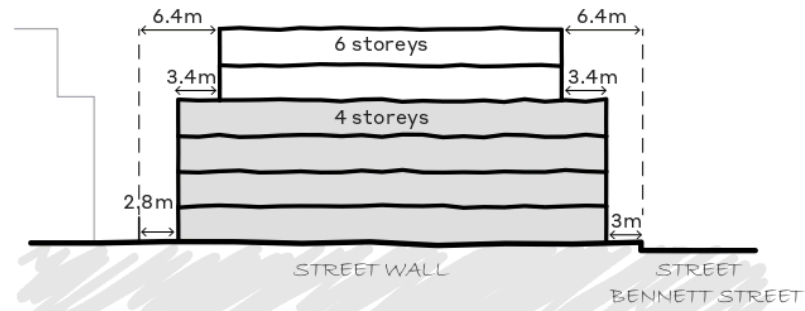


Ground Floor Plan - Ascuri & Co. Architects (Permit Application)

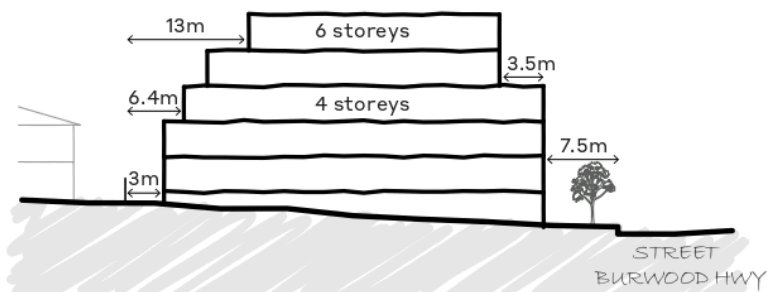
9.1.3 – ATTACHMENT 1. Final Report

PROPOSED SETBACKS STANDARDS

PERMIT APPLICATION



Front Section - Diagrammatic Representation - 254-258 Burwood Highway Permit Application

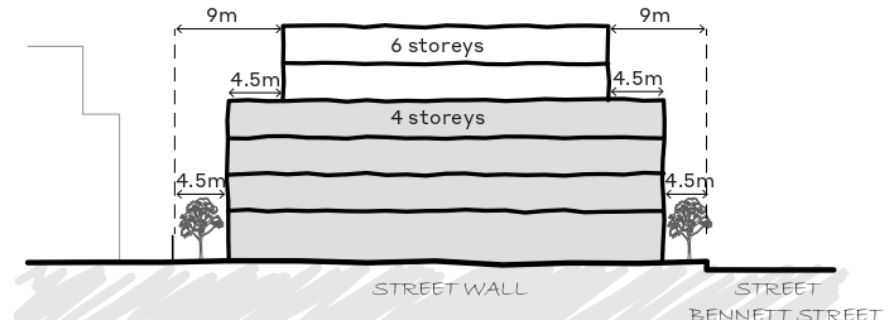


Side Section - Diagrammatic Representation - 254-258 Burwood Highway Permit Application

N.B. Only large and medium trees are depicted in the diagrammatic representations

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



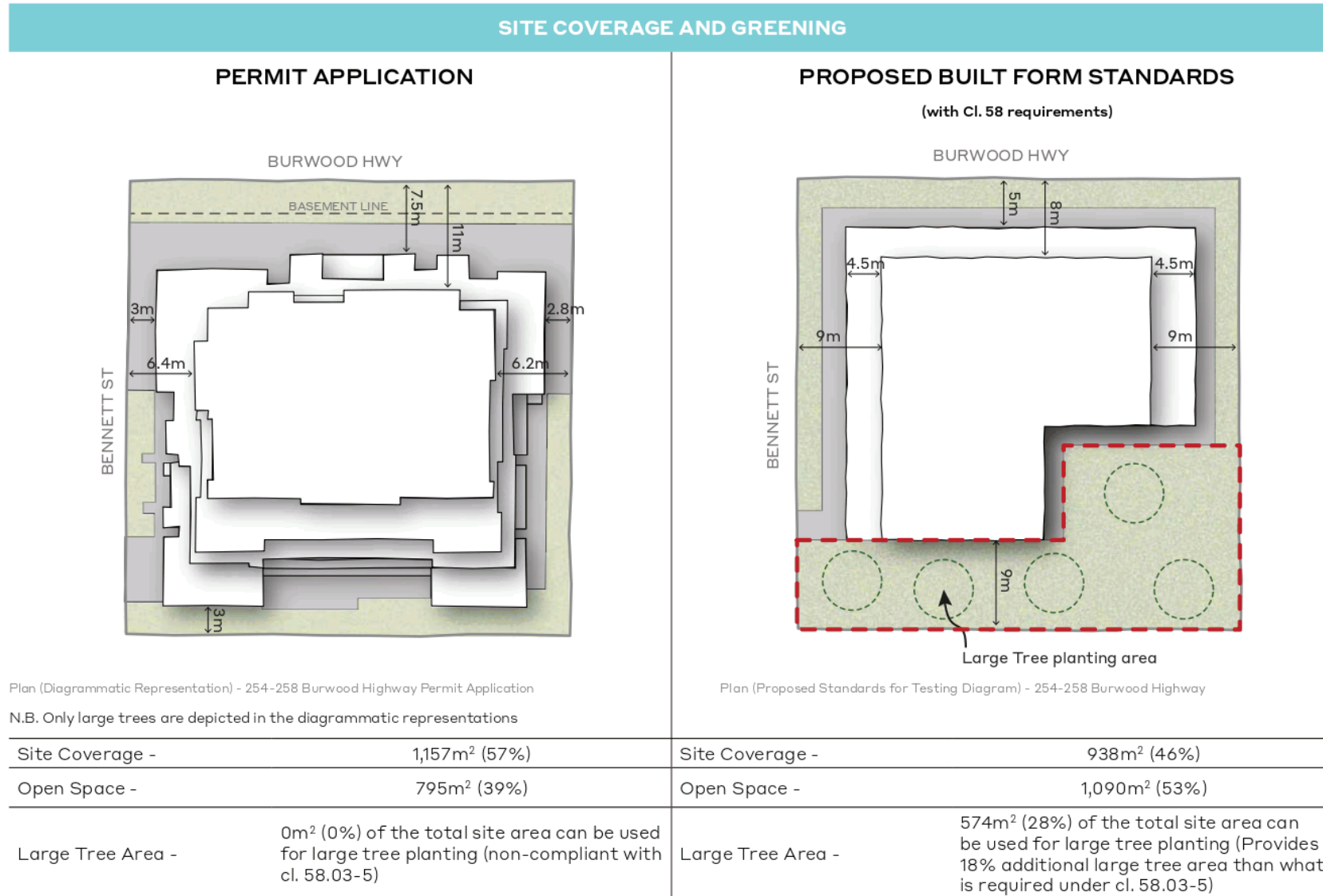
Front Elevation - Proposed Side Setback Standards



Side Elevation - Proposed Front and Rear Setback Standards



9.1.3 – ATTACHMENT 1. Final Report



9.1.3 – ATTACHMENT 1. Final Report

INTERNAL AMENITY

PERMIT APPLICATION

**Cl. 58.07-3 Windows Objective -**  
Apartments should preferably let in direct sunlight. Light courts are not a preferable outcome for habitable room windows

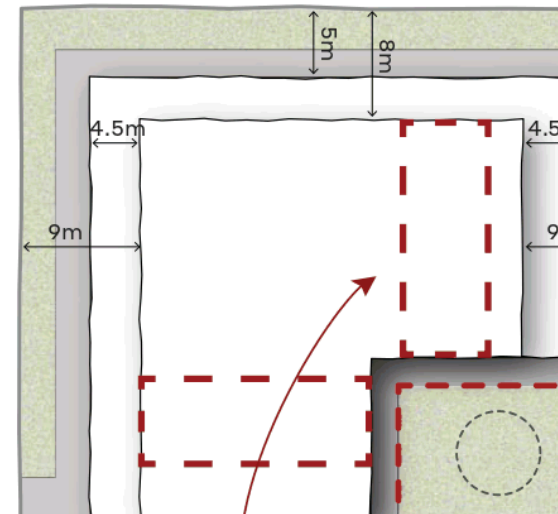


**Cl. 58.07-3 Windows Objective**  
- Snorkel windows with a depth greater than 1.5 times the width and not clear to the sky does not comply

**Cl. 58.05-2 Building Entry and Circulation Objectives-** Due to excessive building depth the design does not comply with Standard D18 - Provide corridors with at least one source of natural light and natural ventilation

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Building Depth of a maximum of 20m ensures compliance with Clause 58 Internal Amenity

GROSS FLOOR AREA (GFA)

GFA - 5,939m<sup>2</sup>

GFA - 5,093m<sup>2</sup>

9.1.3 – ATTACHMENT 1. Final Report

467 BURWOOD HIGHWAY, VERMONT SOUTH

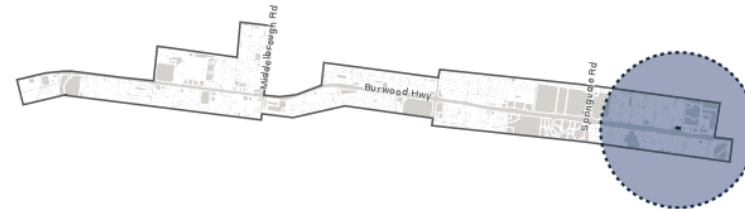
WH/2016/314

5 STOREYS

54 APARTMENTS

REAR ZONE INTERFACE: NRZ5

SITE AREA: 1,921M<sup>2</sup>



SITE DIMENSIONS

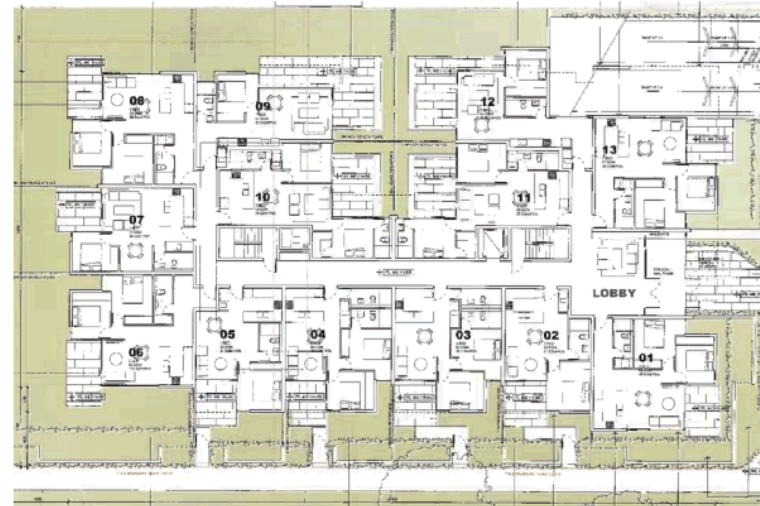
Frontage - 58m

Depth - 33.3m

Existing Site Conditions



East Elevation - David Watson Architect (Permit Application)

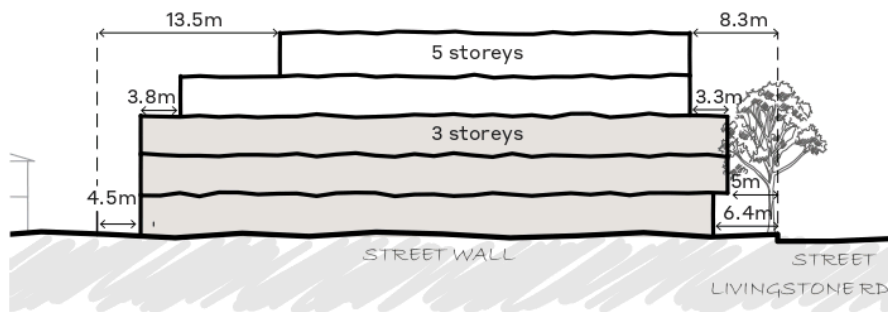


Ground Floor Plan - David Watson Architect (Permit Application)

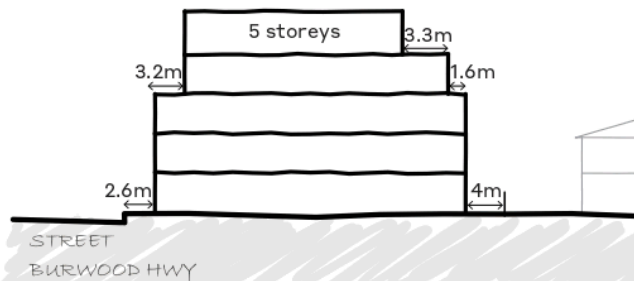
9.1.3 – ATTACHMENT 1. Final Report

PROPOSED SETBACKS STANDARDS

PERMIT APPLICATION



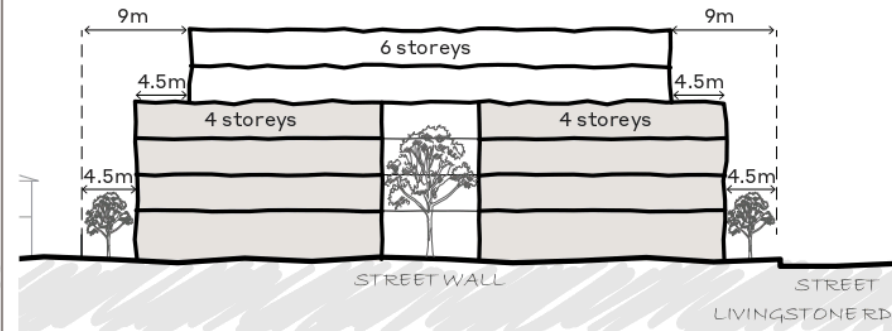
Front Elevation - Diagrammatic Representation - 467 Burwood Highway Permit Application



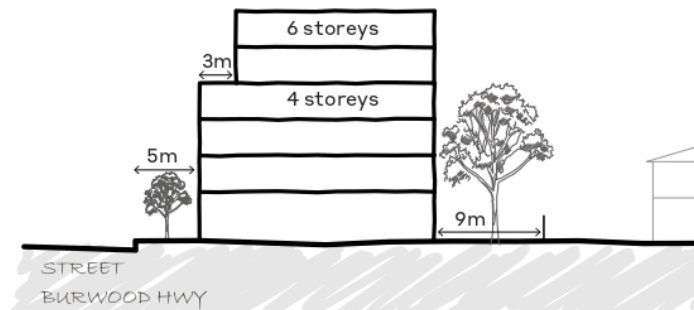
Side Elevation - Diagrammatic Representation - 467 Burwood Highway Permit Application

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Front Elevation - Proposed Side Setback Standards

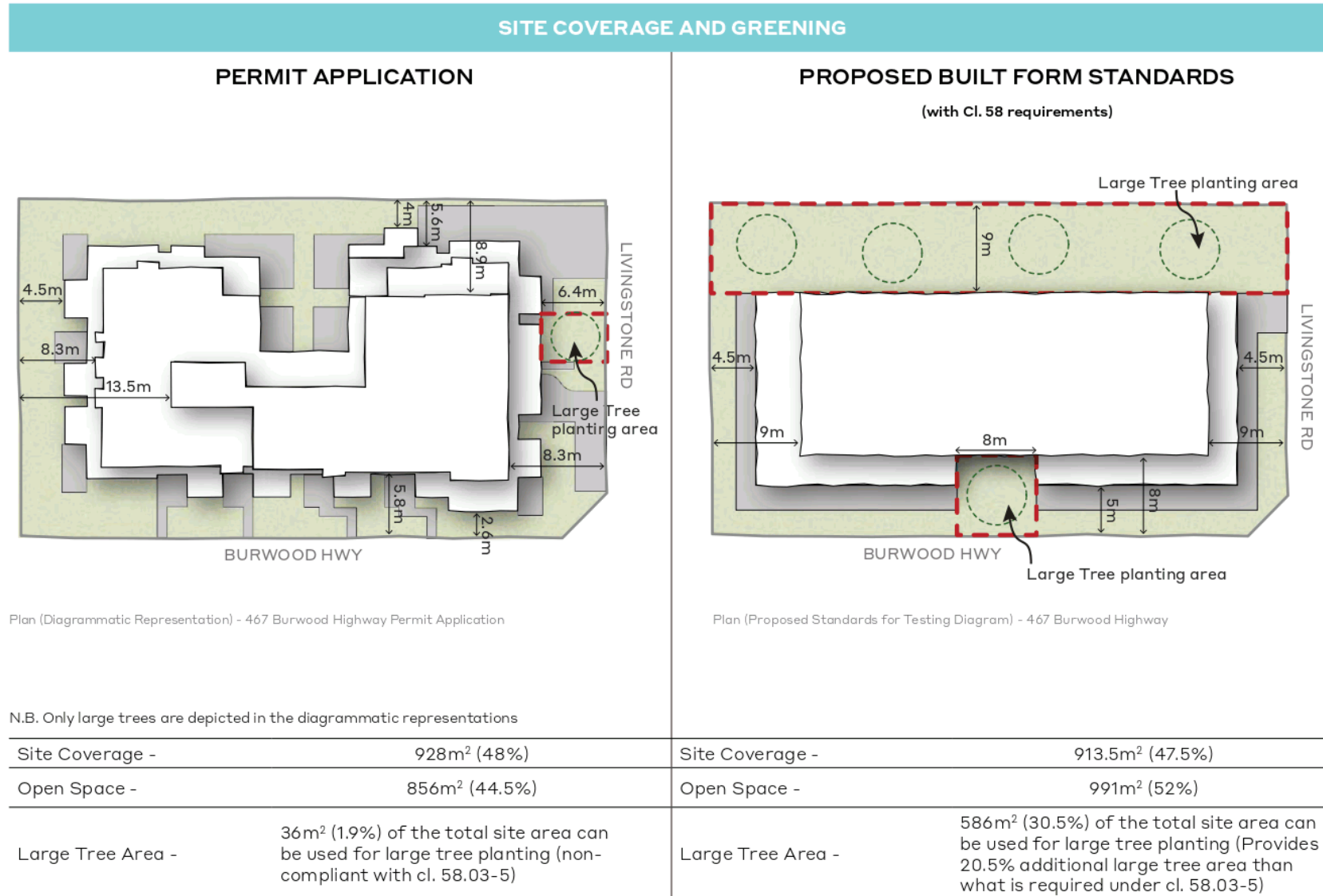


Side Elevation - Proposed Front and Rear Setback Standards

N.B. Only large and medium trees are depicted in the diagrammatic representations



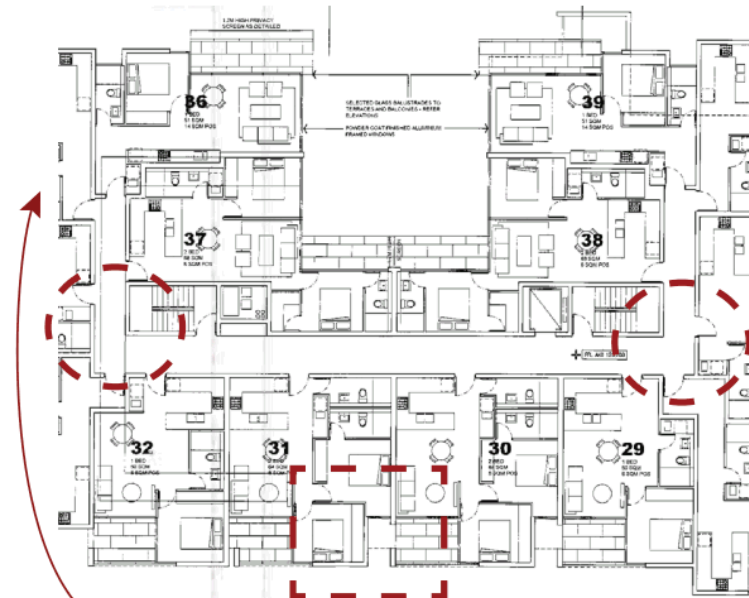
9.1.3 – ATTACHMENT 1. Final Report



9.1.3 – ATTACHMENT 1. Final Report

INTERNAL AMENITY

PERMIT APPLICATION

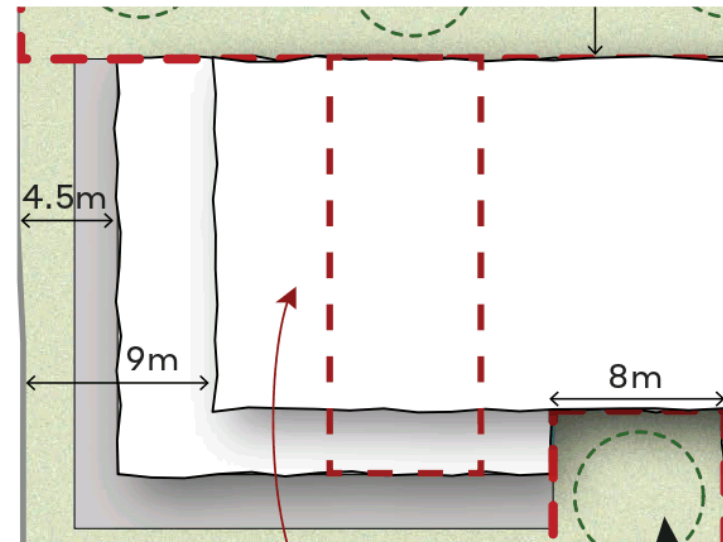


**Cl. 58.05-2 Building Entry and Circulation Objectives-** This internal building layout does not comply with Standard D18 - Provide corridors with at least one source of natural light and natural ventilation

**Cl. 58.07-3 Windows Objective -** Snorkel windows with a depth greater than 1.5 times the width and not clear to the sky does not comply

PROPOSED BUILT FORM STANDARDS

(with Cl. 58 requirements)



Building Depth of a maximum of 20m ensures compliance with Clause 58 Internal Amenity

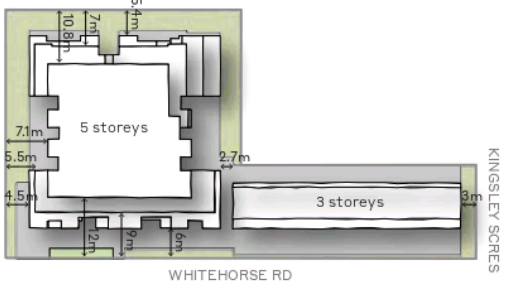


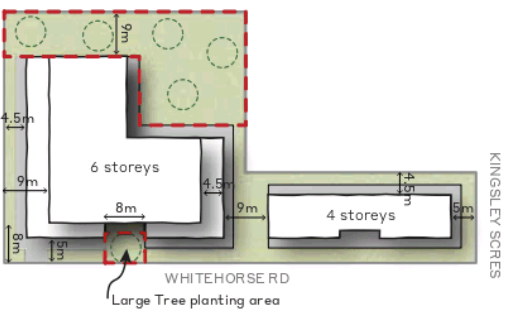
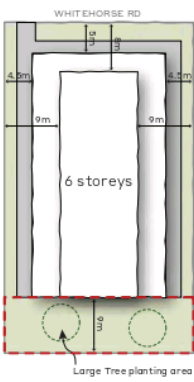
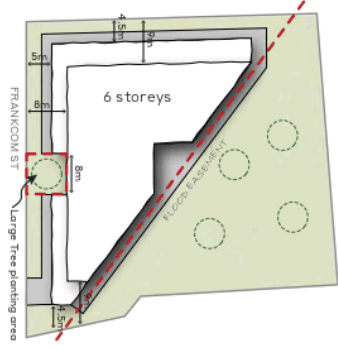
GROSS FLOOR AREA (GFA)

GFA - 3,940m<sup>2</sup>

GFA - 4,994m<sup>2</sup>

# 9.1.3 – ATTACHMENT 1. Final Report

## Built Form Testing Summary

EXISTING PERMITS		
801 WHITEHORSE ROAD, MONT ALBERT	40 WHITEHORSE ROAD, BLACKBURN	9 FRANKCOM STREET, BLACKBURN
		
Site Coverage - 1,522m <sup>2</sup> (47%)	Site Coverage - 917m <sup>2</sup> (56%)	Site Coverage - 520m <sup>2</sup> (15%)
Open Space - 1,614m <sup>2</sup> (49%)	Open Space - 585m <sup>2</sup> (35%)	Open Space - 2,380m <sup>2</sup> (72%)
Large Tree Area - 0m <sup>2</sup> (0%)	Large Tree Area - 0m <sup>2</sup> (0%)	Large Tree Area - *easement allows for significant area for large tree planting
GFA - 6,321m <sup>2</sup>	GFA - 3,727m <sup>2</sup>	GFA - 4,253m <sup>2</sup>
PROPOSED STANDARDS FOR TESTING		
		
Site Coverage - 1,400m <sup>2</sup> (43%)	Site Coverage - 850m <sup>2</sup> (51%)	Site Coverage - 1,123m <sup>2</sup> (34%)
Open Space - 1,675m <sup>2</sup> (52%)	Open Space - 769m <sup>2</sup> (47%)	Open Space - 2,198m <sup>2</sup> (66%)
Large Tree Area - 774m <sup>2</sup> (24%)	Large Tree Area - 275m <sup>2</sup> (17%)	Large Tree Area - *easement allows for significant area for large tree planting
GFA - 7,134m <sup>2</sup>	GFA - 4,314m <sup>2</sup>	GFA - 6,130m <sup>2</sup>

9.1.3 – ATTACHMENT 1. Final Report

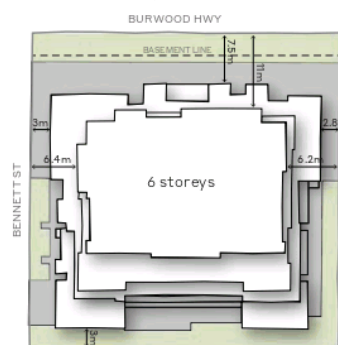
EXISTING PERMITS

260-262 BURWOOD HWY, BURWOOD



Site Coverage -	941m <sup>2</sup> (60%)
Open Space -	495m <sup>2</sup> (31%)
Large Tree Area -	120m <sup>2</sup> (7.6%)
GFA -	3,886m <sup>2</sup>

254-258 BURWOOD HWY, BURWOOD



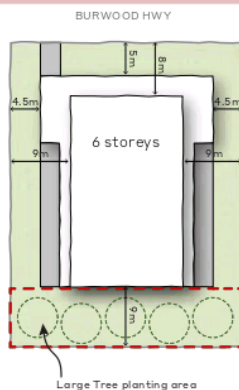
Site Coverage -	1,157m <sup>2</sup> (57%)
Open Space -	795m <sup>2</sup> (39%)
Large Tree Area -	0m <sup>2</sup> (0%)
GFA -	5,939m <sup>2</sup>

467 BURWOOD HWY, BURWOOD

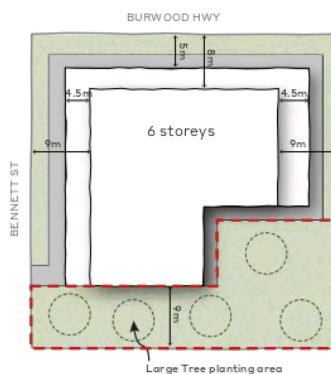


Site Coverage -	928m <sup>2</sup> (48%)
Open Space -	856m <sup>2</sup> (44.5%)
Large Tree Area -	36m <sup>2</sup> (1.9%)
GFA -	3,940m <sup>2</sup>

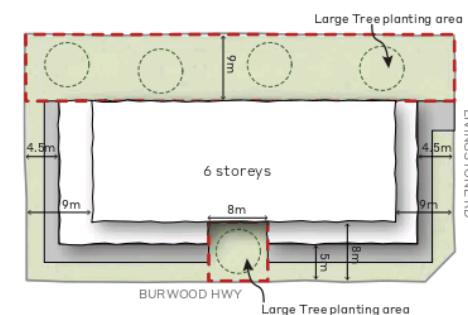
PROPOSED STANDARDS FOR TESTING



Site Coverage -	889m <sup>2</sup> (56%)
Open Space -	548m <sup>2</sup> (35%)
Large Tree Area -	313m <sup>2</sup> (20%)
GFA -	3,710m <sup>2</sup>



Site Coverage -	938m <sup>2</sup> (46%)
Open Space -	1,090m <sup>2</sup> (53%)
Large Tree Area -	574m <sup>2</sup> (28%)
GFA -	5,093m <sup>2</sup>



Site Coverage -	913.5m <sup>2</sup> (47.5%)
Open Space -	991m <sup>2</sup> (52%)
Large Tree Area -	586m <sup>2</sup> (30.5%)
GFA -	4,994m <sup>2</sup>



9.1.3 – ATTACHMENT 1. Final Report

## Development Opportunities within the Residential Growth Zone

The built form testing demonstrates that a minimum site size is required in order to develop the sites with buildings over 4 storeys in height. Specifically a minimum frontage of 30 metres and a minimum depth of 35 metres (1,050m<sup>2</sup>) is required.

It is advised that the analysis to follow does not consider the potential for site consolidation, which could occur.

### Study Area 1: Permits, Development Sites & Constrained Sites

Study Area 1 includes permitted development of 5 storeys in height, and is adjacent to Box Hill Institute and developments which are taller, including an approved development (WH/2016/1109) to the corner of Whitehorse Road and Elgar Road, in the Commercial 1 Zone, which is 16 storeys (51.4 metres) in height.

This study area includes a number of development sites, which due to their fragmented nature (ie. multi units or apartments on site) are less likely to be redeveloped.

The development opportunities, given the extent of existing development is limited, however it is advised that the maps below do not consider the potential for site consolidation, which could occur.

The adjacent diagrams demonstrate what the proposed development could look like adjacent to the existing permit and adjacent Neighbourhood Residential Zone.



26 Study Area 1 - Permits, development sites and sites with existing medium to large scale development

76



AXO diagrams depict large tree planting areas only. Smaller trees and shrubs could be provided in other landscaping areas.

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Study Area 2: Permits, Development Sites & Constrained Sites

Study Area 2 includes permitted development 5 storeys in height.

This study area includes a number of development sites which due to their fragmented nature (ie. multi units or apartments on site) are less likely to be redeveloped.

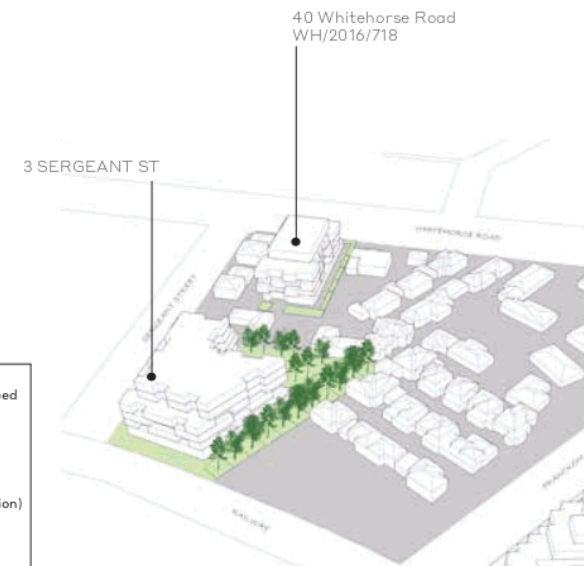
The development opportunities, given the extent of existing development is limited, however it is advised that the maps below do not consider the potential for site consolidation, which could occur.

The adjacent diagrams demonstrate what the proposed development could look like adjacent to the existing permit and adjacent developments.



27 Study Area 2 - Permits, development sites and sites with existing medium to large scale development

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AXO diagram depicts large tree planting areas only. Smaller trees and shrubs could be provided in other landscaping areas.

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Study Area 2 Cont.: Permits, Development Sites & Constrained Sites

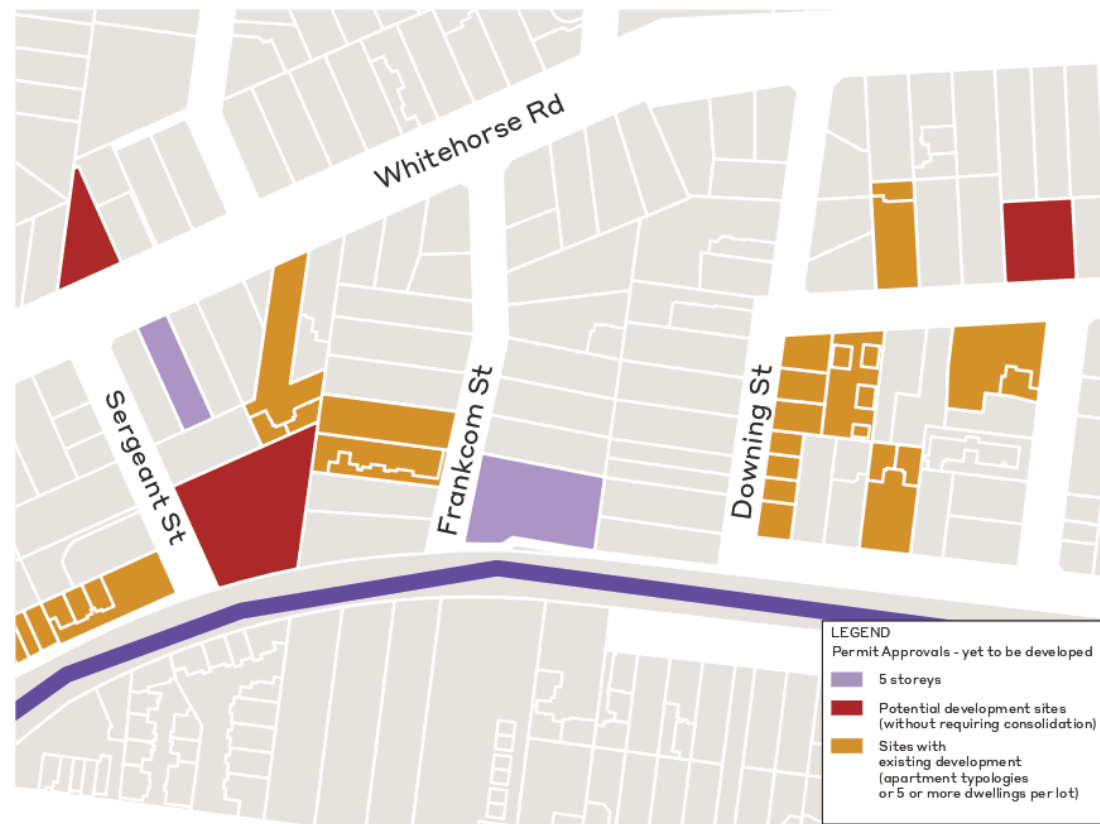
**Frankcom Street**

The site testing for Frankcom Street and the analysis demonstrates that there are sites that are already developed and there are limited remaining development opportunities without consolidation.

In addition the introduction of Clause 58 to the planning scheme has introduced additional requirements that will improve the outcome for the remaining site/s. Therefore change to the built form requirements for this area are not warranted.

Strategically given the street's close proximity to transport, it should remain within the Residential Growth Zone however, resolution of vehicle turns at the end of the street and improved access to the railway is required.

Resolution of this issue will require investigation to determine whether a turning circle can be accommodated on public land or whether a portion of private land would be required. There may be an opportunity to negotiate an outcome in the latter circumstance.



28 Frankcom St - Permits, development sites and sites with existing medium to large scale development

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### Study Area 3: Development Sites & Constrained Sites

Study Area 3 includes no existing permits or permit applications.

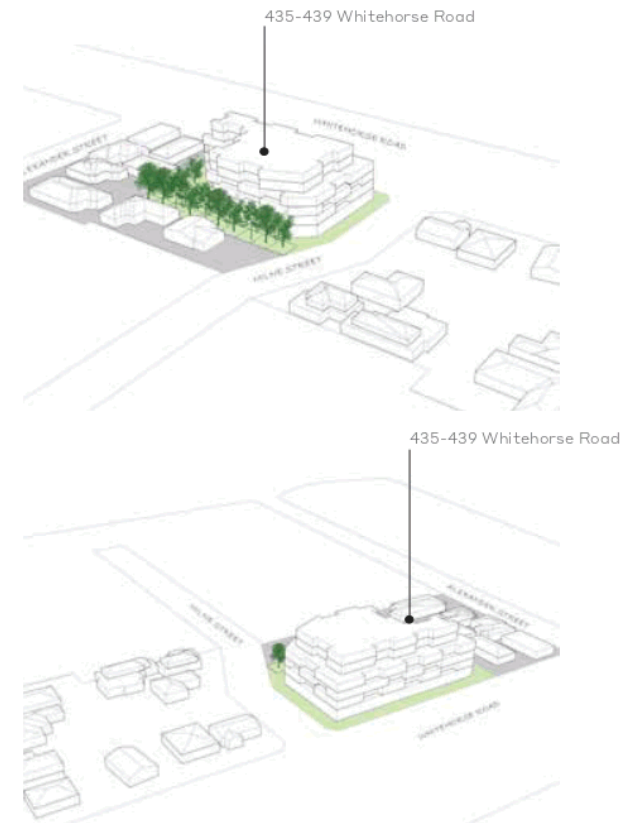
The development opportunities, given the required lot size is limited, however it is advised that the maps below do not consider the potential for site consolidation, which could occur.

The adjacent diagrams demonstrate what the proposed development could look like adjacent to the existing permit and adjacent General Residential Zone.



29 Study Area 3 - Development sites and sites with existing medium to large scale development

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AXO diagrams depict large tree planting areas only. Smaller trees and shrubs could be provided in other landscaping areas.



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Study Area 4: Permits, Development Sites & Constrained Sites

Study Area 4 includes permitted developments of 5 and 6 storeys in height, and is adjacent to Tally Ho Activity Centre and Burwood Heights Activity Centre, where proposed development (WH/2017/646) is 10 storeys in height (31 metres).

This study area includes a number of development sites which due to their fragmented nature (ie. multi units or apartments on site) are less likely to be redeveloped.

There are development opportunities available along the Burwood Highway corridor, however it is advised that the maps below do not consider the potential for site consolidation, which could occur.

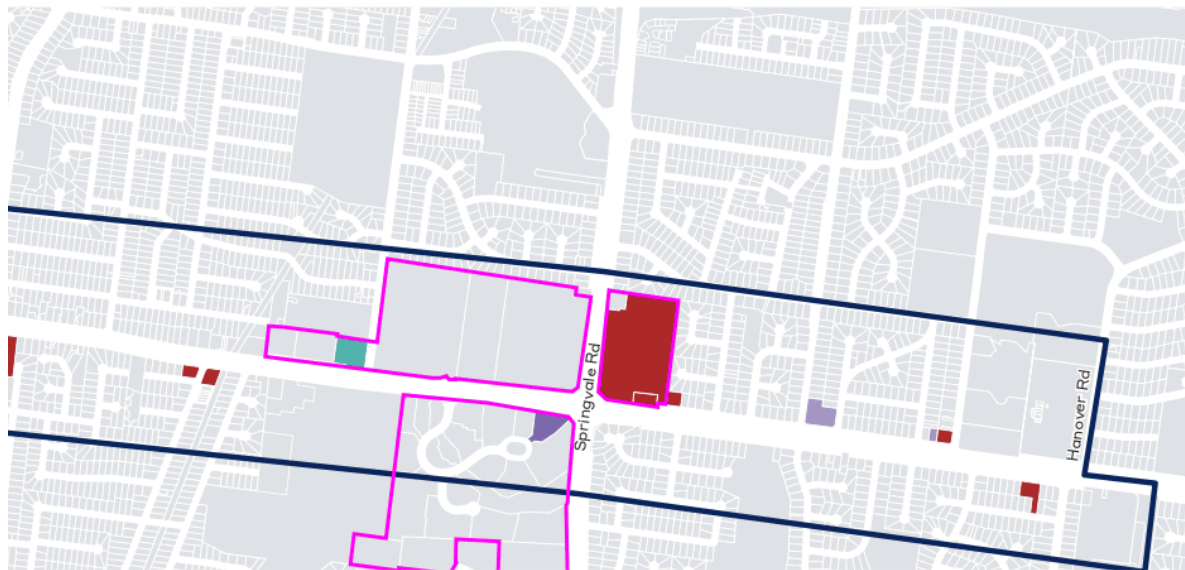


30 Study Area 4 - Permits, development sites and sites with existing medium to large scale development

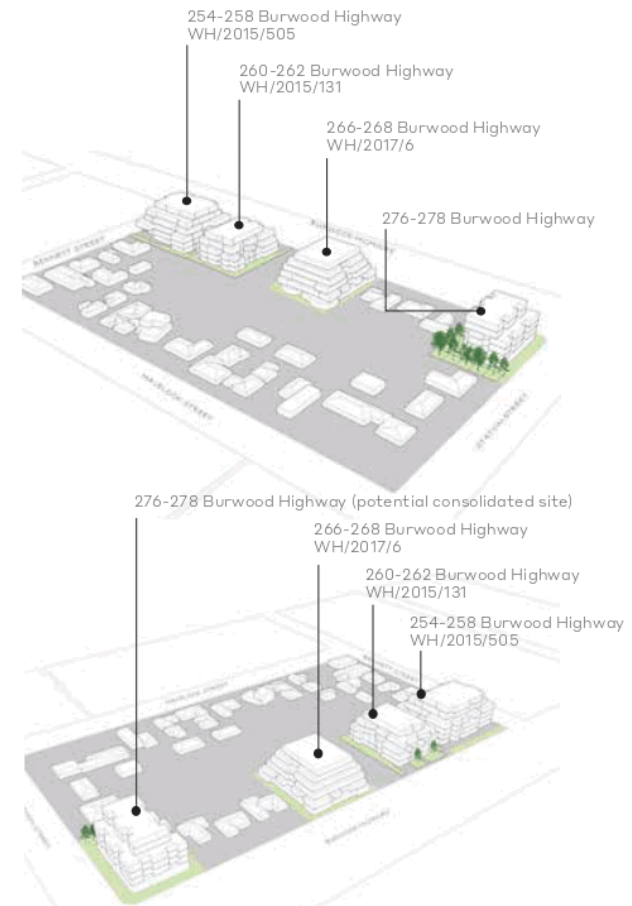
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The adjacent diagrams demonstrate what the proposed development could look like adjacent to the existing permit and adjacent General Residential Zone.

LEGEND	
Permit Approvals - yet to be developed	
3 storeys	Potential development sites (without requiring consolidation)
4 storeys	Sites with existing development (apartment typologies or 5 or more dwellings per lot)
5 storeys	
6-9 storeys	
10-15 storeys	
	Tally Ho Activity Centre



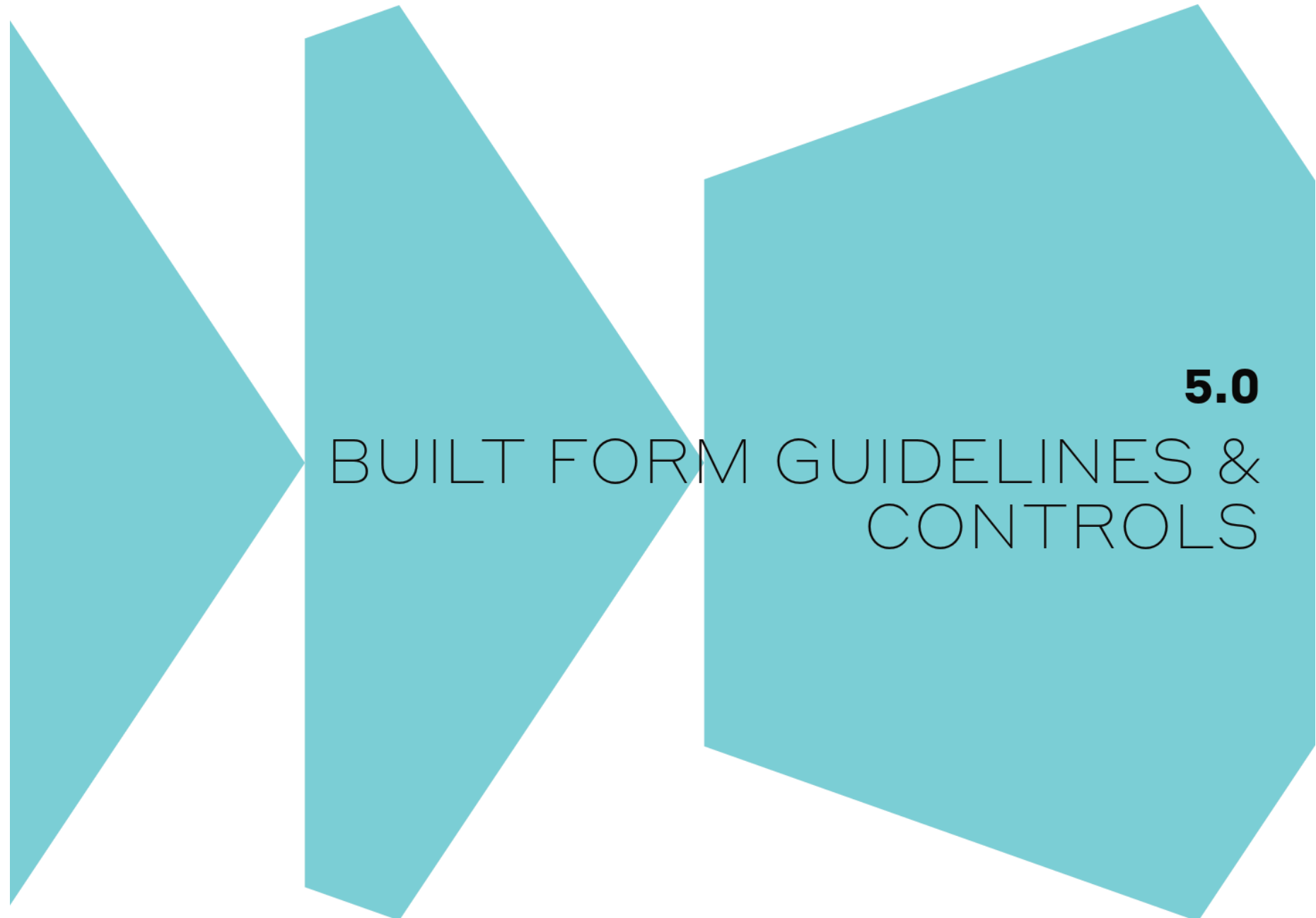
Whitehorse Residential Corridors Built Form Review



AXO diagrams depict large tree planting areas only. Smaller trees and shrubs could be provided in other landscaping areas.

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## 5.0

### 5.1 Built Form Guidelines & Controls

The following Design Objectives and Built Form Outcomes are derived from the built form testing in Chapter 4.0 of this report, best practice design principles and were refined using feedback from community consultation sessions.

The controls reinforce the importance of increased front, side and rear setbacks to allow for deep soil planting, significant vegetation and landscaping. Increased setbacks also allow for greater overall building height without compromising on aspects of amenity including overshadowing, visual bulk, overlooking and character of the surrounding area.

The Built Form Guidelines and Controls within this study should be considered in conjunction with the Whitehorse Planning Scheme (where appropriate):

- Clause 58 - Apartment Developments
- Whitehorse Significant Landscape Overlay (SLO)
- Whitehorse Landscape Guidelines, 2012
- Neighbourhood Character Study, 2014 and Clause 22.03, Residential Development Policy



31 Oakleigh: 6 storey development with upper level setback

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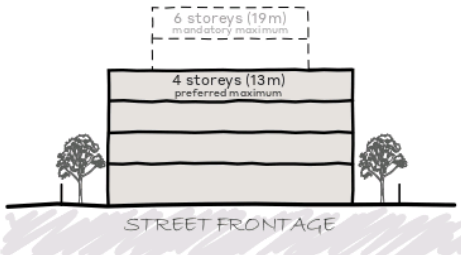
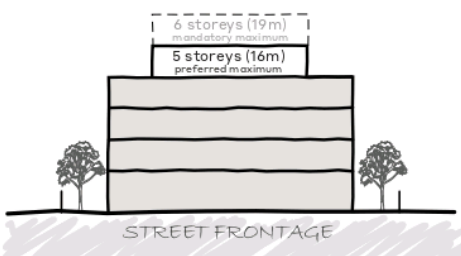
## 5.2 Design Objectives & Built Form Outcomes

- To ensure development achieves a high quality of pedestrian amenity in the public realm in relation to human scale and micro-climate conditions such as acceptable levels of sunlight access and wind effects.
- To ensure that new buildings and additions provide equitable development rights for adjoining sites.
- To ensure that the height of new buildings provides an acceptable built form interface with adjoining heights of development in other zones.
- To maintain the visual prominence of landscaping, particularly to the rear interface to and ensure space for medium-large trees on site.
- To protect sunlight access to key public places and open space areas so as to provide a comfortable, pedestrian-friendly urban environment.

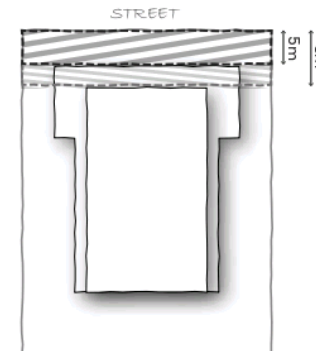
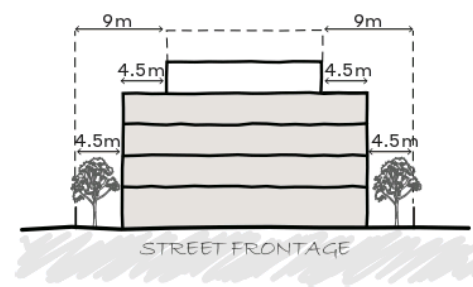
Preferred Heights Map



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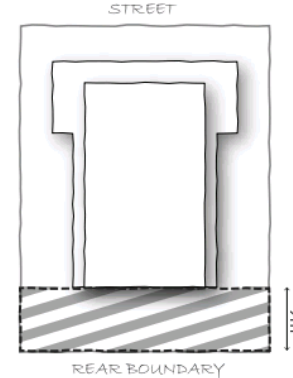
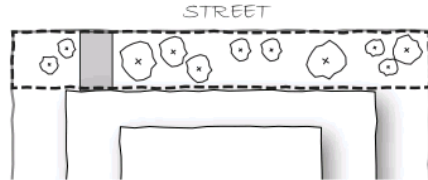
BUILT FORM ELEMENT	MEASURE	BUILT FORM OUTCOMES	ILLUSTRATIONS
Height	4 storeys (13 metres) preferred maximum east of Springvale Road	<ul style="list-style-type: none"> <li>The maintenance of a mid-rise scale of development.</li> <li>To enhance the sense of openness, maintains access to expansive sky views along the corridor and maximises solar access from/to the low scale residential development of the adjacent areas.</li> <li>The visual impact of taller buildings, above the preferred building height, is alleviated through increased upper level setbacks.</li> </ul>	 <p>4 storeys (13m) preferred maximum</p>
	5 storeys (16 metres) (preferred maximum) elsewhere		
	6 storeys (19 metres) (mandatory maximum)		
			 <p>5 storeys (16m) preferred maximum</p>

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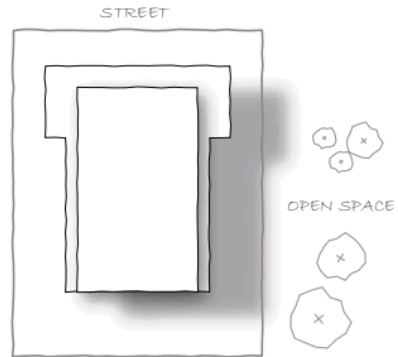
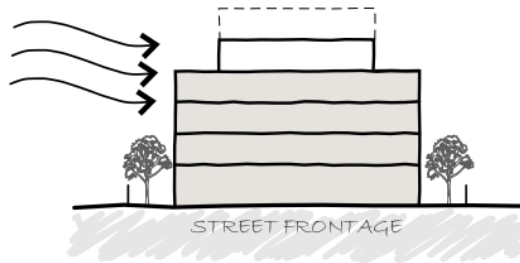
BUILT FORM ELEMENT	MEASURE	BUILT FORM OUTCOMES	ILLUSTRATIONS
Front Setback	Minimum 5 metres with an additional 3 metres to upper levels above 4 storeys (total of 8 metres) (mandatory)	<ul style="list-style-type: none"> <li>Buildings are setback from the front boundary to: <ul style="list-style-type: none"> <li>ensure they do not visually dominate the streetscape</li> <li>provide adequate sun penetration at street level</li> <li>assist with mitigating wind down-draughts</li> <li>allow for landscaping and tree planting within the front setback area</li> </ul> </li> </ul>	 <p>The diagram shows a building footprint with a dashed line indicating the street frontage. A vertical dimension line on the right shows a 5m setback from the street to the building's front edge. A larger vertical dimension line on the right shows an 8m setback for the upper levels of the building.</p>
Side Setbacks	Minimum of 4.5 metres with an additional 4.5 metres to upper levels above 4 storeys (total of 9 metres) (mandatory)	<ul style="list-style-type: none"> <li>Buildings are setback from the side boundaries to: <ul style="list-style-type: none"> <li>provide adequate sunlight, daylight, privacy and outlook from habitable rooms, for both existing and proposed developments.</li> <li>provide adequate daylight and sunlight to streets.</li> <li>ensure buildings do not appear as a continuous wall at street level or from nearby vantage points and maintain open sky views between them.</li> <li>allow for landscaping and tree planting within the side setback area</li> </ul> </li> </ul>	 <p>The diagram shows a building footprint with dashed lines indicating the side boundaries. Vertical dimension lines on the left and right show 4.5m setbacks from the side boundaries to the building's side edges. Horizontal dimension lines at the top show a 9m setback for the upper levels of the building. The building is labeled 'STREET FRONTAGE' at the bottom.</p>



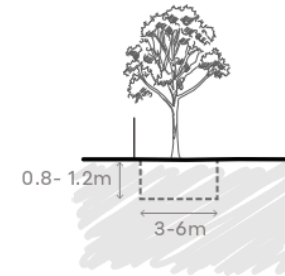
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BUILT FORM ELEMENT	MEASURE	BUILT FORM OUTCOMES	ILLUSTRATIONS
<b>Rear Setbacks</b>	Minimum of 9 metres to ensure adequate area for large canopy trees and landscaping) (mandatory)	<ul style="list-style-type: none"> <li>Buildings are setback from the rear boundary to: <ul style="list-style-type: none"> <li>provide adequate sunlight, daylight, privacy and outlook from habitable rooms, for both existing and proposed developments.</li> <li>ensure they do not visually dominate or compromise the character of adjacent existing low-scale development areas.</li> <li>allow for landscaping and tree planting, in particular large tree canopy to assist with a visual break between the lower scale built form of the adjacent areas outside of the RGZ.</li> </ul> </li> </ul>	
<b>Pedestrian Interfaces</b>	Buildings at ground floor must present attractive pedestrian orientated frontages which minimise vehicle access and services. These elements should be integrated within the landscaped front setback.	<ul style="list-style-type: none"> <li>Buildings should ensure that the ground floor frontages add visual interest and contribute to the street.</li> <li>Access to car parking and service areas should minimise impact on street frontages.</li> <li>Windows at ground level should be maximised to provide passive surveillance.</li> <li>Visible service areas (and other utility requirements) should be treated as an integral part of the overall building design and fully screened from public areas.</li> </ul>	

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BUILT FORM ELEMENT	MEASURE	BUILT FORM OUTCOMES	ILLUSTRATIONS
Shadowing	No significant shadowing to adjacent public open space between 12.00pm and 2.00pm on 22 September (discretionary)	<ul style="list-style-type: none"> <li>Additional overshadowing of adjoining open space will only be considered appropriate where: <ul style="list-style-type: none"> <li>the area of remaining sunlit space exceeds the area of shadowed space</li> <li>there is no adverse impact on the natural landscaping, including trees and lawn or turf surfaces in the public space.</li> <li>the existing and future use, quality and amenity of the public space is not compromised.</li> </ul> </li> </ul>	
Wind Effects	Developments over 4 storeys in height must be accompanied by a wind tunnel assessment to determine that the development would not cause unsafe wind conditions in publicly accessible areas (mandatory)	<ul style="list-style-type: none"> <li>The wind analysis must: <ul style="list-style-type: none"> <li>explain the effect of the proposed development on the wind conditions in publicly accessible areas.</li> <li>model the wind effects of the proposed development and its surrounding buildings</li> </ul> </li> </ul>	

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BUILT FORM ELEMENT	MEASURE	BUILT FORM OUTCOMES	ILLUSTRATIONS
Landscaping	Provide for a minimum deep soil area relative to tree height which is a minimum depth of 800mm (for small trees) to a maximum of 1200mm (for large trees)	<ul style="list-style-type: none"> <li>Ensure the green character of the area is enhanced with deep soil plantings in the front, side and rear setbacks</li> <li>Utilise appropriate native plant species in accordance with Council Guidelines</li> </ul>	

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## 5.3 Implementation Options

Consideration of Practice Note 46, Strategic Assessment Guidelines for preparing and evaluating planning scheme amendments has been undertaken. The guidelines includes questions regarding whether the amendment makes proper use of the Victoria Planning Provisions and whether the amendment seeks to duplicate or contradict other provisions.

It is recommended for clarity, that the proposed built form provisions are contained within a schedule to the Design and Development Overlay, and applied to all land within the study area within the Residential Growth Zone (RGZ) excluding land affected by structure plans, such as Box Hill Activity Centre, Tally Ho and Burwood Heights.

The inclusion of all matters related to the design outcomes sought, which also include streetscape presentation, and details regarding landscaping, are appropriately referenced within Clause 43.02-2. It is not recommended to include variations into the schedule to the RGZ as these are limited to standards of Clause 54 and 55 (ResCode).

The proposed schedule to the Design and Development Overlay, also enables the consideration of setbacks for applications affected by Clause 58 (Apartment Developments). The decision guidelines at Clause 58.04-1 (Building setback objectives) specify that the Responsible Authority must consider any urban design objective, policy or statement set out in this scheme.

Whitehorse Residential Corridors Built Form Review

The evidence based approach of this report is to support the application of mandatory controls to guide the future development of these corridors.

The establishment of clear parameters, informed by the principles as well as the built form outcomes sought, will strengthen consideration of building height above the preferred maximum, including:

- minimal amenity impacts (wind effects, overshadowing),
- resolution of the proposed developments relationship to scale of the surrounding area,
- design excellence,
- exceeding landscaping requirements.

Consideration of further policy support within the Planning Policy Framework will also be required. It is advised that with the Smart Planning reform, policy will only be required where there is an absence of guidance within the Planning Policy Framework. It is considered that updates to Clause 22.03 (Residential Development) is required to reflect the application of Clause 58 and provide strengthened policy objectives associated with design excellence, service integration and presentation of frontages along the corridors.

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## 5.4 Summary of Findings

The built form testing demonstrates reasonable development capacity is maintained and potentially increased within the Residential Growth Zones, with proposed built form typologies reflecting a varied built form response to provide greater opportunities for deep soil planting, large canopy trees and landscaping.

Specifically, the built form testing also demonstrates that:

- The overall gross floor area between the permitted developments and the built form testing (with proposed controls) is comparable;
- The introduction of larger setbacks provides lesser site coverage and greater opportunities for deep soil planting and landscaping. This is consistent with the Neighbourhood Character Study which states that "vegetation character is generally the most significant determinant of neighbourhood character" in the City of Whitehorse;
- Significant lot size achieved through site consolidation is required to pursue heights of 6 storeys; and

- Greater setbacks to side and rear boundaries are required to provide adequate amenity to apartments as required under Clause 58 (Apartment Developments).

The site testing for Frankcom Street also demonstrates that it has limited development opportunities remaining and is appropriately sited within the Residential Growth Zone. Development in the street includes many unit developments and an approved 5 storey development. However resolution of vehicle turns at the end of the street and improved pedestrian access to the railway is required.

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# APPENDIX A

- PERMIT ANALYSIS

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### Permit Analysis - Detailed Spreadsheet

App No.	Address	Description	Site Coverage (m²)	Site Coverage (%)	Total Site Area (m²)
WH/2016/718	40 Whitehorse Road BLACKBURN VIC 3130	Construction of a five storey building with basement, reduction in car parking and alteration of access to a road in a Road Zone, Category 1	917	56.92%	1611
WH/2015/370	173-175 Whitehorse Road BLACKBURN VIC 3130	Use of the land for dwellings and buildings and works to construct a five storey building with basement car parking comprising two offices, a cafe and forty-three (43) apartments, waiver of the loading bay requirements and alterations to access to a road in a Road Zone, Category 1	1055	87.84%	1201
WH/2014/568	3 Whitehorse Road BLACKBURN VIC 3130	Buildings and works to construct 115 dwellings comprising 12 double storey dwellings, and two five storey buildings (plus two levels of basement car parking), and associated alteration of access to two roads in a Road Zone Category 1	3108.5	41.89%	7421
WH/2016/1172	9-13 Frankcom Street BLACKBURN VIC 3130	Construction of a five-storey building	1143	35.02%	3264
WH/2016/130	338-342 Burwood Highway BURWOOD VIC 3125	Construction of twenty dwellings, reduction of visitor car parking spaces and alteration of access to a road in a Road Zone Category 1	955	42.98%	2222
WH/2015/505	254 Burwood Highway BURWOOD VIC 3125	Construction of a part four, part five storey building comprising 66 dwellings plus two levels of basement parking and alteration of access to a road in a Road Zone, Category 1	1301	61.31%	2122
WH/2011/187	379 Burwood Highway BURWOOD VIC 3125	Construction of a part three (3), part four (4) storey building (plus basement) comprising 32 dwellings, reduction in the standard car parking requirement and alteration of access to a road in a Road Zone, Category 1	993.52	69.20%	1435.7
WH/2015/131	260 Burwood Highway BURWOOD VIC 3125	Construction of a part four, part five storey building comprising 44 dwellings plus two levels of basement parking, a reduction in car parking and alteration of access to a road in a Road Zone Category 1	941	59.67%	1577
WH/2016/743	210 Burwood Highway BURWOOD VIC 3125	Removal of easement and development of land for a 4 storey building comprising of 13 dwellings with basement car park	361.75	56.52%	640
WH/2017/6	266 Burwood Highway BURWOOD VIC 3125	Construction of a six storey building containing sixty-one (61) apartments, three (3) commercial premises and a reduction in car parking requirements	1200	69.57%	1725
WH/2017/679	362 Burwood Highway BURWOOD VIC 3125	Construction of a five storey apartment building above basement, reduction in parking and alteration of access to a road in a road zone category 1	1039.2	63.47%	1637.2
* WH/2017/646	378 Burwood Highway BURWOOD EAST VIC 3151	Construction of a ten-storey building, reduction in car parking and alteration of access to a road in a Road Zone Category 1	1917	38.48%	4982
* WH/2016/489	315-319 Burwood Highway BURWOOD EAST VIC 3151	Buildings and works for the construction of a six (6) storey building and use of land for retail and serviced apartment	4437	73.80%	6012
WH/2016/622	801-803 Whitehorse Road MONT ALBERT VIC 3127	Construction of a part three and part five storey (plus two basement levels) apartment and townhouse development and associated alteration of access to a road in a Road Zone Category 1	1522	49.53%	3073
* WH/2016/1109	813-823 Whitehorse Road MONT ALBERT VIC 3127	The construction of buildings and works for a 16 storey building (comprising 89 dwellings, retail tenancies and office tenancies), with basement levels, use for dwellings, reduction of the car parking requirements of Clause 52.06, variation to the loading bay requirements of Clause 52.07, and alteration of access to a Road Zone Category 1	786.8	79.15%	994
WH/2016/30	431-439 Burwood Highway VERMONT SOUTH VIC 3133	Construction of two or more dwellings on a lot in the Residential Growth Zone comprising a part 4, part 5 and part 6 storey building and two levels of basement parking including; use of the land as a food and drink premises (cafe) as it is more than 100 metres from a commercial or mixed use zone and the leasable floor area exceeds 100 square metres in the Residential Growth Zone; reduction in the standard car parking for the cafe and residential visitors; and waiver of the loading bay requirement for the cafe	2487	54.54%	4560
WH/2016/314	467 Burwood Highway VERMONT SOUTH VIC 3133	Construction of a part four and part five storey apartment building (plus basement) and removal of easement	1068	54.71%	1952

NB. Information runs across the four pages

\* Permits outside the RGZ

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App No.	Gross Floor Area (GFA)	Frontage (m)	Plot Ratio (GFA/site area)	Height (above ground) (storeys & m)	Street Wall Height (m)	No. of Units	Unit Sizes
WH/2016/718	3727	15.2	2.31:1	5 storeys (16.53m)	13.72		
WH/2015/370	3200	67.9	2.66:1	5 storeys (15.215m)	10.64 to Whitehorse Rd 9.81 to Surrey Rd	46 (43 dwellings, 1 café, 2 offices)	
WH/2014/568	Apartment - 6469.6 Townhouses - 2647.8	176.8	Apartment - 0.875:1 Townhouses - 0.36:1	Apartment - 5 storeys (15.8m) Townhouses - 2 storeys (6.2m)	9.8	115(103 apartments, 12 townhouses)	Not specified
WH/2016/1172	3787.8	61.2	1.16:1	5 storeys (18.38m)	10.25	35	
WH/2016/130	3463	58.4	1.56:1	4 storeys (12.3m)	9.12	20	
WH/2015/505	9722	60.6	4.7:1	5 storeys (18.4m)	10.06 to Bennett St 12.2 to Burwood Hwy	69	Not specified
WH/2011/187	2452.3	none	1.71:1	3 storeys (9.6m)	9.6	32	
WH/2015/131	2945	17.3	1.87:1	5 storeys (15.4m)	8.5	44	
WH/2016/743	1608.5	15.3	2.51:1	4 storeys (11.6m)	11.6	13	
WH/2017/6	4290	37.8	2.49:1	6 storeys (16.31m)	14.51	61 + 3 shops	1 bedroom - 47-49 2 bedroom - 60-74
WH/2017/679	33446.01	55.7	20.4:1	6 storeys (18.8m)	5	44	1 bedroom - 53-66 2 bedroom - 67-105 3 bedroom - 87-96 4 bedroom - 126
* WH/2017/646	22322	83.6	4.48:1	10 storeys (31m)	12.4	Not specified	Not specified
* WH/2016/489	15267	166.3	2.54:1	6 storeys (24.05m)	24.05 to Mahoneys Road 7.4 to Burwood Hwy	91	
WH/2016/622	6321	108.53	2.06:1	5 storeys (15.3m)	4.4	70	
* WH/2016/1109	16555	105.9	16.6:1	16 Storeys (51.4m)	45.2	89+ retail and offices	
WH/2016/30	16565	140.8	3.6:1	5 storeys (14.5m)	9.537	113	
WH/2016/314	4390	20.1	2.25:1	5 storeys (15.5m)	"10.1 to Livingstone Rd 10.36 to Burwood Hwy"	54	1 bedroom - 50-51 2 bedroom - 63-78

NB. Information runs across the four pages

\* Permits outside the RGZ



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App No.	No. of Car Parking Spaces	Type of Car Parking	Depth (below ground) (storeys & m)	Front setback (range, m)	Side setbacks (range, m)	Rear setback	Vehicle Access	Depth of Site	Width of Site
WH/2016/718	(reduced)	Basement	2 levels (5.9m)	6	2.82	3.48		53.34	30.48
WH/2015/370		Basement	1 level	Built to Boundary	Built to Boundary	2.815	Surrey Road	irregular shape Min: 31.96 Max: 48.77	irregular shape Min: 29.1 max: 30.43
WH/2014/568	152	Basement	2 levels (5.9m)	6.2 at north end, 4 at south end	3.5	4	Whitehorse Road, Middleborough Road- New access from these roads	irregular shape min: 24.12 max: 54.86	irregular shape min: 45.76 max: 80.47
WH/2016/1172	38	Basement	3 levels	13.6	4.5	4.5		56.62	
WH/2016/130	(reduced visitor)	Ground level	N/A	2.78	6	2.73	Finch Street	39.62	52.11
WH/2015/505	24	Basement	2 levels (9m)	7.5	3 (west), 2.8 (east)	3	Burwood Highway	46.42	45.72
WH/2011/187	38	Basement	1 level	6	4.025	3.776	Burwood Highway	39.31	36.86
WH/2015/131		Basement	2 levels	7	2.96 (north), 3 (south)	3	Burwood Highway	45.57	34.83
WH/2016/743	15	Basement	1 level (3.8m)	6	1	2.4		41.95	15.24
WH/2017/6	67	Basement	2 levels	3.82	2.78 (west), 3 (east)	2.05	Burwood Highway	45.57	37.8
WH/2017/679	66	Basement	2 levels (6.1m)	4.01	"31 (north) 1.45 (south)"	2.09	La Frank Street	50.06	38.63
* WH/2017/646	Not specified	Basement	4 levels	6	5 (west), 6.7 (east)	5	Burwood Highway	62	83.63
* WH/2016/489	170	Ground+Level 1		10.49	"1.67 (west) 10 (east)"	1.7	Burwood Highway, Mahoneys Road	73.3	80.76
WH/2016/622	94	Basement	2 levels	2.5	4.5	5.46		irregular shape min: 18.29 max: 48.77	irregular shape min: 45.72 max: 91.44
* WH/2016/1109	103	Basement	5 levels (16.2m)	Built to Boundary	Built to Boundary	1.25			
WH/2016/30	153	Basement	2 levels	3.433	Built to Boundary	2.65		67.15	78.04
WH/2016/314	65	Basement	2 levels (8.63m)	6.97	2.68	4.5	Livingstone Road	58.47	33.53

NB. Information runs across the four pages

\* Permits outside the RGZ

9.1.3 – ATTACHMENT 1. Final Report

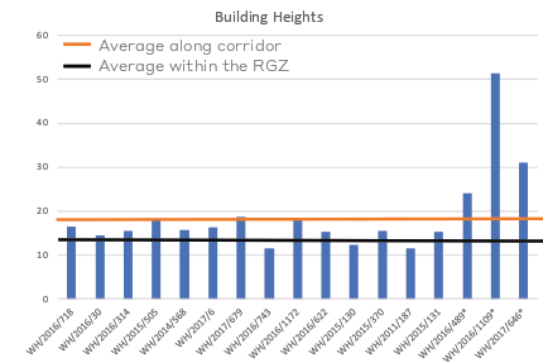
App No.	Date lodged	Date decided	Type of decision	Notes
WH/2016/718	3/08/2016	20-Oct-2017	VCAT Permit	
WH/2015/370	18/05/2015	23-May-2016	Council Permit	
WH/2014/568	17/06/2014	22-Dec-2015	Delegate Permit	
WH/2016/1172	21/12/2016	19/12/2017	VCAT Permit	
WH/2016/130		4-May-2017	Delegate Permit	Possibly incorporates 340 and 342 Burwood Hwy as well.
WH/2015/505	29/06/2015	13-Jan-2016	Delegate Permit	
WH/2011/187	11/03/2011	23-Dec-2015	VCAT Permit	379-381
WH/2015/131	5/03/2015	25-Aug-2015	Delegate Permit	
WH/2016/743	18/08/2016		Withdrawn	Withdrawn on 15/1/18
WH/2017/6	10/01/2017		Decision Pending	Amendment Request lodged and received by council
WH/2017/679	30/08/2017		Awaiting VCAT Decision	Failure - To be confirmed
* WH/2017/646	13/08/2017		Decision Pending	
* WH/2016/489	1/06/2016	19-Jun-2017	Delegate Permit	
WH/2016/622	4/07/2016	30/11/2017	VCAT Permit	Council permit issued 26/6/17
* WH/2016/1109	2/12/2016	13-Oct-2017	VCAT Permit	
WH/2016/30		20-Jul-2017	VCAT Permit	
WH/2016/314	22/04/2016	8-May-2017	Delegate Permit	

NB. Information runs across the four pages

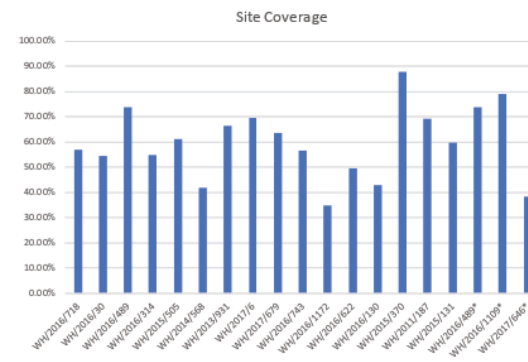
\* Permits outside the RGZ

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Permit Analysis - Graphs



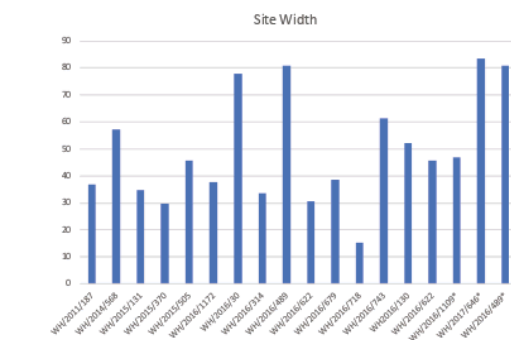
Permit Analysis - Building Heights



Permit Analysis - Site Coverage

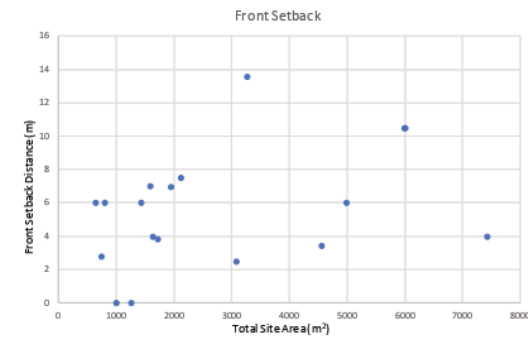


Permit Analysis - Site Depth



Permit Analysis - Site Width

NB. All permits marked with a \* are outside the RGZ



Permit Analysis - Front Setback

**9.1.3 – ATTACHMENT 1. Final Report**



# APPENDIX B

- DETAILED CONSULTATION SUMMARY



### 9.1.3 – ATTACHMENT 1. Final Report

#### Executive Summary

The community engagement process for this project includes two phases of engagement.

#### Phase 1: (March/April 2018)

The objectives for this phase of community engagement were to:

- promote the project and opportunities for community input and feedback;
- build the community's understanding of the planning controls and issues impacting the design of residential corridors located in the RGZ;
- gain insights about what issues the community thinks should be considered in this review and why;
- gain insights about what the community thinks are positive or negative housing development examples; and,
- promote the next steps for the project.

#### Engagement tools

The first phase of the community engagement involved two engagement tools.

#### Newsletter

The newsletter was distributed to all properties within, and adjacent to the RGZ corridor. The newsletter included information about the project and a web link to an online survey.

#### Online survey

The survey was open for four-weeks and respondents were encouraged to submit their responses by 22nd March 2018.

There were 397 responses to the online survey.

The online survey took between 5-10minutes to complete and asked the following questions:

**Q1.** When thinking about the design of new apartments and units in your neighbourhood, what do you think are the three most important issues to be considered in this review and why?

**Q2.** What does success look like? Is there an example of what you think is an appropriate apartment or unit development in your local area or somewhere nearby? What street is this apartment or unit located in?

**Q3.** Any other comments?

#### Summary

Overall, the design of new residential buildings along road corridors is important to residents. While there is not one specific design that new developments should adhere to, residents want high quality design that complements the style of existing residential structures and neighbourhood character and limits the impact on nearby properties.

Carparking and management of traffic and access to properties along the road corridors was a popular theme. Many respondents want to see more on-site car parking and less overflow to neighbouring streets. This includes resident and visitor car-parking.

There is strong opinion that new development should not come at the expense of green space or landscaped areas. Participants want Council to ensure that new developments do not overshadow adjoining properties, restrict access to natural light or affect the privacy or safety of existing residential areas.

Height limits, quality design, setbacks, space between buildings and the incorporation of more landscaped space in and around buildings were identified as important design features that improve residents' perceptions and acceptance of new developments.

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Respondents also expressed the need to link the increase in population growth to additional support infrastructure and services, while balancing the needs of existing and new residents.

#### Key issues

The responses have been reviewed and grouped into key issues of;

- Appearance & design
- Scale & density
- Landscape
- Vehicle parking, access & traffic
- Existing character/heritage
- Population growth and increased demand on services and infrastructure
- Balancing the needs of existing and future residents.

#### Appearance/design

Generally, residents are concerned about the appearance, quality and design of new developments. Respondents strongly oppose development that they do not believe is aesthetically pleasing. They advocate for consistency between developments, including quality design and building material. New developments should blend in or complement the

existing environment rather than appear “stark”.

There were some comments about lack of spaces for washing lines, bike storage, rubbish bins and that this negatively impacts the look and appearance of the street.

#### Examples of quotes:

- “appearance must harmonize with neighbourhood, not eye catching colours or too futuristic building because it will ruin the scenery”
- “design should complement existing houses (ie no ‘boxes’)”
- “I can’t stand seeing rubbish bins full and washing hanging off balconies”

#### Scale & density

The majority of respondents commented on the scale and density of development in Whitehorse. Most believe building heights should not surpass 3-4 storeys, but some participants do not support anything above 2 storeys. There is a perception that new development is too dense, and belief that Whitehorse should not resemble the central business district of Melbourne. Respondents are especially concerned about new developments overshadowing existing residential areas and

affecting access to light and privacy.

There was some explicit rejection of “high-rises” and “skyscrapers”, which residents believe are not appropriate for the area. Some suggest that more variety of medium-density developments would be appropriate including townhouses and smaller unit developments. In addition, they suggest setbacks and increased open/green space between and around buildings would improve perception of new development.

#### Examples of quotes:

- “Setback and street appeal with some vegetation to break the starkness”
- “A mix of townhouse and apartments along the zone, not just all apartment blocks. Lots locals been in area 40 years would like to downsize to smaller townhouse, which area lacks”

#### Landscape

Respondents suggest that developments should incorporate green spaces around buildings. Setbacks could include trees and other landscaping responses to make larger developments appear less stark. Overall, existing and new green space and landscape should not be sacrificed for the building footprint. Residents advocate for protecting native landscape and tree canopy cover in residential areas.

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#### Examples of quotes:

- “Proper gardens not token greenery. Where once was a garden with canopy trees and lawn for the rain to soak into now it is all hard surfaces concrete and boring minimalist greenery”
- “Loss of green areas and consequent loss to native wildlife”
- “tree protection”

#### Vehicle parking, access & traffic

This is the topic that received the most attention from respondents. There are significant concerns regarding how sufficient parking and access to development will be provided to accommodate residential growth. Comments focused towards the lack of on-street parking, the perceived lack of parking included with new apartment developments, and a perceived lack of access or adequacy of access for residents of new developments.

#### Examples of quotes:

- “The traffic along the major road/intersection will be affected”
- “Off street parking must be included for ALL apartments/dwellings and businesses”

#### Existing character/heritage

Residents wish to preserve the existing character of Whitehorse residential corridors. Respondents believe that rather than contrast with existing residential development, new development should fit the overall aesthetic and not detract from the heritage, suburban atmosphere of Whitehorse communities. There is fear that new development will occur through destruction of existing character that they feel makes Whitehorse unique.

#### Examples of quotes:

- “The ‘feel’ of the suburb needs to be maintained if possible - there are important heritage areas that must be protected”
- “Avoid destroying the character of the suburb, because the people already living in the suburb have chosen to live there because they like the character”

#### Population growth and increased demand on services/infrastructure

Respondents are concerned about negative amenity impacts resulting from population growth. They believe this will further strain drainage, rubbish collection, water, sewerage, electricity, and other community infrastructure and services in residential areas. There was also

concerns about safety and a perception that increased densities will increase crime.

#### Examples of quotes:

- “We need more services to cater for influx of population”
- “utilities - can the infrastructure meet the demands of all the new people. sewerage, water, electricity, internet/NBN”

#### Balancing the needs of existing and future residents

There is sentiment that this policy is not balancing the needs of current residents with future residents. Some suggest that council should do more to meet the needs of current residents above others, because they have lived in the area longer than new residents. Some respondents believe Council is powerless against the processes of VCAT and developers.

#### Examples of quotes:

- “Existing residents. Council is there to represent residents first and foremost”
- “Residents already living in the area and their opinion: inappropriate building is rife in Whitehorse and we lose every time we go to VCAT”

### 9.1.3 – ATTACHMENT 1. Final Report

#### Other feedback: Examples of development

Respondents identified several characteristics of good, or poor quality, existing development in the residential corridors.

Of those who responded to this question (395 responses),

- About one third of respondents (33.67% 133 respondents) provided examples of good design,
- Two thirds (66.33% 262 respondents) provided examples of poor quality design.

#### Good development examples were found to:

- incorporate vegetation and green open space around buildings;
- consider scale and design of development that was appropriate to their surroundings;
- be no more than 3 storeys; and
- provide sufficient vehicle parking and access to avoid adverse impacts on the existing residential areas.

#### Conversely, poor quality development was found to:

- not provide sufficient parking;
- caused traffic congestion;
- overlooked or overshadowed existing housing

or impeded access to sunlight or privacy;

- were of an inappropriate scale and height to their surrounding area; and
- were considered to be poorly designed and/or comprised poor construction quality
- There is a prevailing sentiment against overpopulation of the area and the concern that the study areas will experience change similar to Box Hill.



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#### Phase 2: (August 2018)

The objectives for this phase of community engagement were to:

- promote the project and opportunities for community input and feedback;
- inform the community about how their feedback has been incorporated into the study; and
- present and test the draft Residential Corridor Built Form guidelines.

#### Engagement tools

Two drop-in sessions:

- Wednesday 25 July; East Burwood Hall, 31 Burwood Hwy, Burwood East
- Tuesday 31 July, Willis Room (Whitehorse Civic Centre), 379-397 Whitehorse Rd, Nunawading

#### Question 1: What do you think about the seven draft principles?

Approximately half of respondents appreciate the greater level of certainty the principles aim to give residents and developers regarding the ways in which growth will take place in the municipality, and expect that the principles will deliver better

outcomes for both current and future residents. They note that with the growth taking place in and around Whitehorse, a strategy such as this is urgently needed.

There is doubt regarding how the principles will be enforced; some respondents do not believe that Council will be able to hold developers accountable if challenged at VCAT. Respondents suggest that some of the principles may be too loosely worded and will not provide enough clarity and certainty to be enforced as intended.

The other half of respondents do not think the principles are conservative enough. That is, they believe that the principles will allow for too much medium- to high-density development at inappropriate heights that will negatively impact the existing character of Whitehorse. Some respondents cite concerns around the obstruction of views and sunlight, overlooking, and unattractive visual bulk of developments over two storeys.

Approximately one-tenth of respondents suggested that additional principles focussing on traffic and parking concerns and/or delivery of infrastructure and services are required as these are directly related to growth and larger scale development.

Example comments:

- "I agree with the 7 principles since it forms more certainty about balancing appropriate built form with the available land."
- "The proposed draft guidelines of 6 storey maximum height is totally unwanted and out of character for this area. This is too high and does not fit into the character of the area and will cause over development and congestion."
- "Good guidelines - am not clear how they can be enforced or how I can be assured that they will be adhered to."
- "They do not address peripheral issues like increased residential capacity = more traffic and congestion"

#### Question 2: What do you think about each of the draft controls?

This section provides a summary analysis of responses to each of the proposed draft controls, with example comments.

#### Building setbacks

Of the 54 respondents who commented on this draft control, 23 (43%) voiced support for the proposed setbacks. Respondents believe the

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proposed setbacks are appropriate and adequate, and many believe this will encourage more opportunities for vegetation/trees around new developments.

Approximately 16 respondents (30%) felt that the setbacks need to be greater to address privacy and overshadowing concerns and suggest that anything above two storeys should take on a “wedding cake” form, with each ascending façade further set back into the site. Another group of four respondents would prefer more flexible controls that allow for setbacks to be determined on a case-by-case basis, depending on what is most appropriate for the specific site. For example, where there is a railway line rather than residences abutting a property, a larger setback may not need to be imposed.

Example comments:

- “Agree the new setbacks would provide decent space between existing residential homes and new development.”
- “Bigger setbacks are welcome but privacy controls/screening/barriers still need to be considered to protect privacy of neighbouring properties. If there is nothing in between you still have no privacy even if a few metres back”.
- “I do not support the current proposal in regards to rear, front and side setbacks, they

are not sufficient for any useful purpose. I would prefer front setbacks of 8 metres, rear setbacks of 12 metres and side setbacks of 6 metres would allow for landscaping and recreation.”

#### Building height

A total of 57 respondents addressed this issue. Support for the proposed building height is mixed. While approximately one-third of respondents believe a 6-storey height limit—or higher—is appropriate, almost two-thirds would prefer the maximum building height to be reduced to 4 storeys, or even 2-3 storeys, especially adjacent to existing single- and double-storey residential areas.

- A small minority group of respondents (approximately 5%) argue for heights greater than 6 storeys or no limit at all, to accommodate future growth and match the high-rise development that has already occurred.

Example comments:

- “More than 6 level is acceptable as population increases fast may need amendment again soon”
- “Not in favour of anything over 4 storeys. Consideration should be given to the character and existing buildings in the area/

neighbourhood.”

- “I feel really disappointed. This is too high for a local suburban area.”

#### Landscaping

A total of 50 respondents addressed this principle. Respondents support the inclusion of landscaping controls, but several (6 respondents) note that the proposed controls do not explicitly address landscaping requirements or desired outcomes. There are some questions as to how Council may enforce private landscapes, particularly maintenance. According to respondents, a major priority in landscaping controls should be that setbacks allow enough space for substantial, mature vegetation roots and canopy. Adequate vegetation can reduce energy costs, prevent urban heat islands, and act as privacy screens. Respondents also encourage the protection and creation of shared green spaces and innovative greening solutions such as vertical planting and rooftop gardens.

Example comments:

- “Excellent!! Encourages more vegetation.”

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- “Pleased to see it mentioned. Mature trees need to be planted, but who will ensure they are protected and cared for?”
- “These controls need to be refined to make sure they are enforced”

#### The Streetscape

Of the 42 respondents to this principle, almost one-third explicitly support the draft controls regarding streetscape, or pedestrian interfaces; streetscapes should be active, attractive, safe, and functional. Approximately 24% of respondents (10 individuals) suggested that streetscape is negatively impacted by high rise buildings, but three respondents noted that Box Hill still has a ‘good’ streetscape with the presence of high rises. Most agree that vegetation, quality design and materials, lighting, and pedestrian access are important contributors to a positive streetscape.

Example comments:

- “The proposal of large setbacks and landscaping is good, but also to be conscious of the visual effect with quality of materials and design to blend in with existing residents surrounding these new developments.”
- “Once again, very good guideline to encourage thought about the visual impact the built form will have on the neighbourhood.”

- “The streetscape would be more welcoming and less like a concrete tunnel if developments were kept to and below 3 storeys (8 meters) with front, sides and rear setbacks from the boundaries to allow for residential use and landscaping, trees and gardens.”

#### Shadowing

The commentary on this draft control suggests that respondents agree that shadowing is an important aspect to consider with new development. Approximately 10 (22%) of the total 46 responses to this principle voice support for this draft control. Nine respondents suggest that Council should limit shadowing of private spaces as well, not only public open spaces. A small group (4 respondents) proposes evaluating overshadowing impacts on surrounding homes on a case-by-case basis with the planning application.

Another issue raised with the draft control was the specific sunlight requirement; 7 residents questioned whether the 11am – 2pm sunlight period is a large enough window to assess the extent of overshadowing. This proposed control also gave rise to more comments suggesting stricter setback and height controls to address shadowing concerns.

Example comments:

- “The variable of shadowing between 11am and 2pm should be increased as more people are out either earlier in the day or later, particularly with school children and adults returning from work.”
- “Only a mention of shadowing on open spaces. What about adjacent homes and gardens?”
- “High rise buildings will create unwelcome shadows.”

#### Wind Effects

Of the 41 responses to this principle, approximately one-third expressed approval for its inclusion, noting that wind is important to consider. Another 9 respondents suggest that this control is too vague, that it is unclear how a wind assessment is conducted, or that this control should be extended to all developments over a single storey. A smaller group (7 respondents) pointed out that wind effects would not be necessary consideration if stricter height and setback controls were implemented.

Example comments:

- “This is crucial. Wind tunnel testing is important. It should be applied not just to the Height of the development, but the site”

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- “I believe this is very important. Walk past some of the new buildings in box hill and you are almost swept off of your feet on a calm day”
- “The effects of wind would be negligible if developments were kept to and below 3 storeys (8 meters). Landscaping and trees would also act as natural wind breaks.”
- light and noise pollution
- provision of infrastructure and services
- protection of existing character; and environmental impacts of development.

**Question 3: Additional comments**

A total of 56 responses addressed additional comments that speak to the full range of issues around built form in Whitehorse. Most respondents used the opportunity to provide additional feedback to re-emphasise their earlier comments regarding the draft controls and principles, especially those that opposed aspects of the proposals. Again, some respondents expressed the sentiment that Council’s attempts to control development will ultimately be futile.

Other issues related to the built form that respondents recommend be addressed moving forward include:

- building design
- location of new development
- traffic and parking



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**9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary**

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**City of Whitehorse**

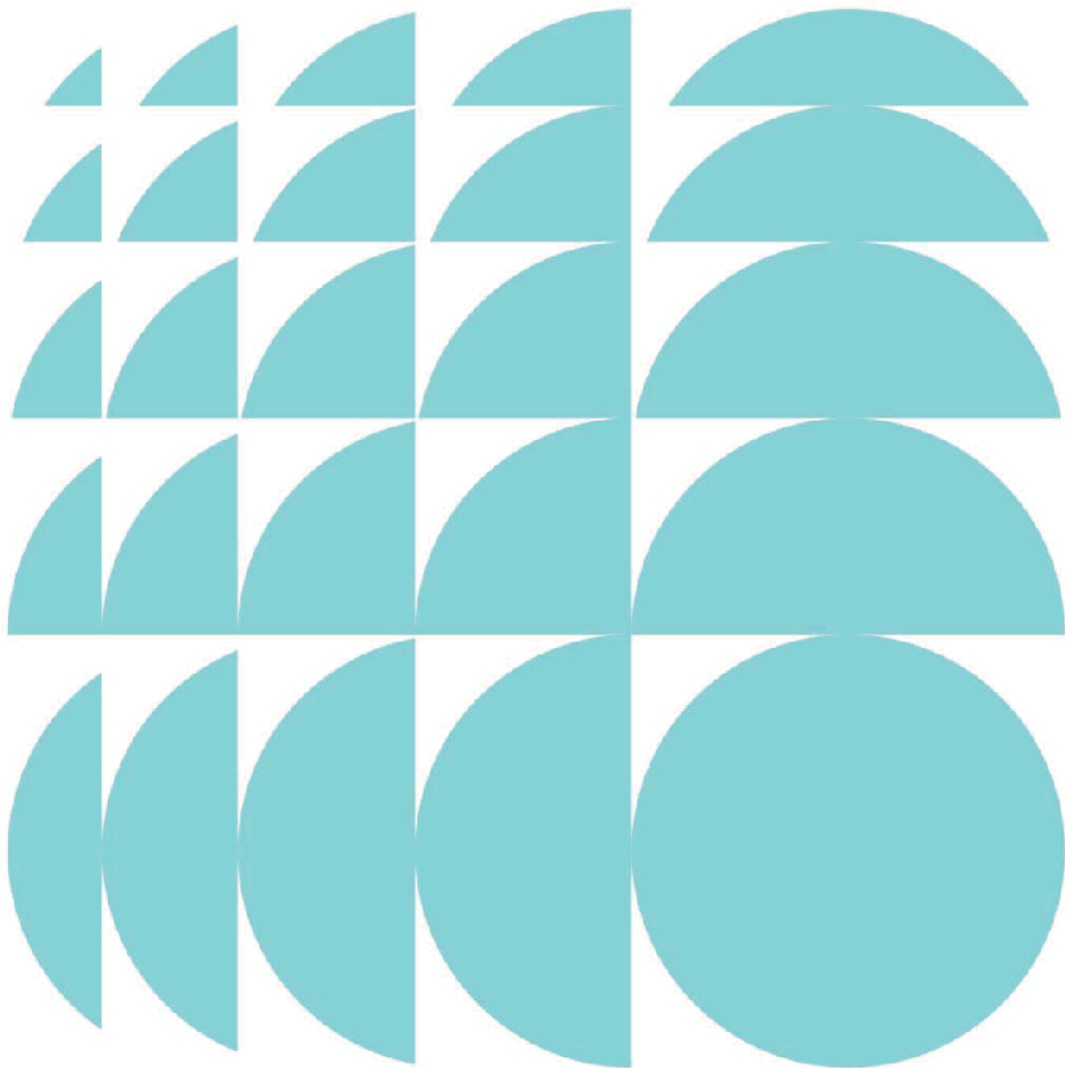
Residential Corridor Built Form Study

Phase 2: Community Engagement Summary

Submitted to City of Whitehorse

On behalf of Ethos Urban

12 September | [version 2](#)



**9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary**

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Lisa Riddle 12 September 2018

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**9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary**

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## 9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary

| Residential Corridor Built Form Study: Phase 2 Community Engagement | 12 September 2018

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### 1.0 Background and approach

#### 1.1 Background

The City of Whitehouse is currently undertaking the Residential Corridors Built Form Study to determine built form guidelines for those areas of the municipality along key road corridors where land in the Residential Growth Zone (RGZ) interfaces with land in the Neighbourhood Residential Zone (NRZ) and the General Residential Zone (GRZ).

In particular, it is intended for the guidelines to assist in the design of new development along Whitehorse Road and the Burwood Highway and guide various planning issues such as:

- height and overshadowing
- how the building will look and interact with adjacent and nearby properties
- setbacks from the street and adjacent properties boundaries
- landscaping and where trees and plants should be planted
- overlooking
- managing views into adjoining properties and
- interface and streetscape - how the apartments and units look like from the street.

#### 1.2 Engagement Framework

The project has included two phases of engagement:

Phase 1: (March/April 2018)

The objectives for this phase of community engagement were to:

- promote the project and opportunities for community input and feedback;
- build the community's understanding of the planning controls and issues impacting the design of residential corridors located in the RGZ;
- gain insights about what issues the community thinks should be considered in this review and why;
- gain insights about what the community thinks are good or bad housing development examples; and
- promote the next steps for the project.

Phase 2: (July/August 2018)

The objectives for this phase of community engagement were to:

- promote the project and opportunities for community input and feedback;
- inform the community about how their feedback has been incorporated into the study; and
- present and test the draft Residential Corridor Built Form guidelines.

## 9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary

| Residential Corridor Built Form Study: Phase 2 Community Engagement | 12 September 2018

### 1.3 Engagement Approach for Phase 2

Two drop-in sessions were undertaken for this stage of engagement, one in the northern corridor and one in the southern corridor.

The drop-in sessions included:

- information boards that presented the key issues, information and draft recommendations.
- technical experts to provide feedback and answer questions; and
- opportunity for residents to learn more about the project and provide comment/feedback on the draft report.

The sessions were promoted by Council through

- multiple advertisements in the Whitehorse Leader;
- Council's website; and
- a newsletter distributed to all owners / occupiers within the study area

Date	Time	Address	Attendees
Wednesday 25 July 2018	4pm-7pm	East Burwood Hall (310 Burwood Hwy, Burwood East)	45 attendees  38 registered and 7 people who did not want to provide their contact detailed.
Tuesday 31 July 2018	4pm-7pm	Wills Room, Whitehorse Civic Centre (379-397 Whitehorse Road, Nunawading)	47 attendees  42 registered attendees and 9 people who did not want to provide their contact detailed.

At each drop-in session participants were invited to read through a series of information posters (see Appendix 1) outlining key issues and information about the draft recommendations, as well as discuss any questions or comments with Council staff or the consultants. Participants were there invited to take part in a survey which asked several key questions:

1. What do you think about the seven draft principles?
2. What do you think about the draft controls relating to:
  - building setbacks?
  - building height?
  - landscaping?
  - the streetscape?
  - shadowing?
  - wind effects?
3. Do you have any additional comments?

## 9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary

| Residential Corridor Built Form Study: Phase 2 Community Engagement | 12 September 2018

### 1.4 Participation rates

In total, 66 responses to the survey were received:

- 21 were provided through Council's online website
- 45 were hard copy surveys or submissions.

Information provided as a submission has been included under the relevant theme.

### 1.5 Purpose of this report

Social Fabric Planning supported Ethos Urban by assisting with the community engagement activities for the project.

This report provides a summary of the second phase of community engagement and presents the feedback received as a series of key themes.

## 2.0 Resident Submissions and Surveys

### 2.1 Question 1: What do you think about the seven draft principles?

Approximately 50% of respondents appreciate the greater level of certainty the principles aim to give residents and developers regarding the ways in which growth will take place in the municipality, and expect that the principles will deliver better outcomes for both current and future residents. They note that with the growth taking place in and around Whitehorse, a strategy such as this is urgently needed.

There is doubt regarding how the principles will be enforced; some respondents do not believe that Council will be able to hold developers accountable if challenged at VCAT. Respondents suggest that some of the principles may be too loosely worded and will not provide enough clarity and certainty to be enforced as intended.

The other half of respondents do not think the principles are conservative enough. That is, they believe that the principles will allow for too much medium- to high-density development at inappropriate heights that will negatively impact the existing character of Whitehorse. Some respondents cite concerns around the obstruction of views and sunlight, overlooking, and unattractive visual bulk of developments over two storeys.

Approximately one-tenth of respondents suggested that additional principles focussing on traffic and parking concerns and/or delivery of infrastructure and services are required as these are directly related to growth and larger scale development.

Example comments:

- *"I agree with the 7 principles since it forms more certainty about balancing appropriate built form with the available land."*
- *"The proposed draft guidelines of 6 storey maximum height is totally unwanted and out of character for this area. This is too high and does not fit into the character of the area and will cause over development and congestion."*
- *"Good guidelines - am not clear how they can be enforced or how I can be assured that they will be adhered to."*
- *"They do not address peripheral issues like increased residential capacity = more traffic and congestion"*

## 9.1.3 – ATTACHMENT 2. Phase 2 Consultation Summary

| Residential Corridor Built Form Study: Phase 2 Community Engagement | 12 September 2018

### 2.3 Question 2: What do you think about each of the draft controls?

This section provides a summary analysis of responses to each of the proposed draft controls, with example comments.

**Building setbacks:** Of the 54 respondents who commented on this draft control, 23 (43%) voiced support for the proposed setbacks. Respondents believe the proposed setbacks are appropriate and adequate, and many believe this will encourage more opportunities for vegetation/trees around new developments.

Approximately 16 respondents (30%) felt that the setbacks need to be greater to address privacy and overshadowing concerns and suggest that anything above two storeys should take on a “wedding cake” form, with each ascending façade further set back into the site. Another group of four respondents would prefer more flexible controls that allow for setbacks to be determined on a case-by-case basis, depending on what is most appropriate for the specific site. For example, where there is a railway line rather than residences abutting a property, a larger setback may not need to be imposed.

Example comments:

- *“Agree the new setbacks would provide decent space between existing residential homes and new development.”*
- *“Bigger setbacks are welcome but privacy controls/screening/barriers still need to be considered to protect privacy of neighbouring properties. If there is nothing in between you still have no privacy even if a few metres back”.*
- *“I do not support the current proposal in regards to rear, front and side setbacks, they are not sufficient for any useful purpose. I would prefer front setbacks of 8 metres, rear setbacks of 12 metres and side setbacks of 6 metres would allow for landscaping and recreation.”*

**Building height:** A total of 57 respondents addressed this issue. Support for the proposed building height is mixed. While approximately one-third of respondents believe a 6-storey height limit—or higher—is appropriate, almost two-thirds would prefer the maximum building height to be reduced to 4 storeys, or even 2-3 storeys, especially adjacent to existing single- and double-storey residential areas.

A small minority group of respondents (approximately 5%) argue for heights greater than 6 storeys or no limit at all, to accommodate future growth and match the high-rise development that has already occurred.

Example comments:

- *“More than 6 level is acceptable as population increases fast may need amendment again soon”*
- *“Not in favour of anything over 4 storeys. Consideration should be given to the character and existing buildings in the area/neighbourhood.”*
- *“I feel really disappointed. This is too high for a local suburban area.”*

**Landscaping:** A total of 50 respondents addressed this principle. Respondents support the inclusion of landscaping controls, but several (6 respondents) note that the proposed controls do not explicitly address landscaping requirements or desired outcomes. There are some questions as to how Council may enforce private landscapes, particularly maintenance. According to respondents, a major priority in landscaping controls should be that setbacks allow enough space for substantial, mature vegetation roots and canopy. Adequate vegetation can reduce energy costs, prevent urban heat islands, and act as privacy screens. Respondents also encourage the protection and creation of shared green spaces and innovative greening solutions such as vertical planting and rooftop gardens.



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Example comments:

- *"Excellent!! Encourages more vegetation."*
- *"Pleased to see it mentioned. Mature trees need to be planted, but who will ensure they are protected and cared for?"*
- *"These controls need to be refined to make sure they are enforced"*

**The streetscape:** of the 42 respondents to this principle, almost one-third explicitly support the draft controls regarding streetscape, or pedestrian interfaces; streetscapes should be active, attractive, safe, and functional. Approximately 24% of respondents (10 individuals) suggested that streetscape is negatively impacted by high rise buildings, but three respondents noted that Box Hill still has a 'good' streetscape with the presence of high rises. Most agree that vegetation, quality design and materials, lighting, and pedestrian access are important contributors to a positive streetscape.

Example comments:

- *"The proposal of large setbacks and landscaping is good, but also to be conscious of the visual effect with quality of materials and design to blend in with existing residents surrounding these new developments."*
- *"Once again, very good guideline to encourage thought about the visual impact the built form will have on the neighbourhood."*
- *"The streetscape would be more welcoming and less like a concrete tunnel if developments were kept to and below 3 storeys (8 meters) with front, sides and rear setbacks from the boundaries to allow for residential use and landscaping, trees and gardens."*

**Shadowing:** The commentary on this draft control suggests that respondents agree that shadowing is an important aspect to consider with new development. Approximately 10 (22%) of the total 46 responses to this principle voice support for this draft control. Nine respondents suggest that Council should limit shadowing of private spaces as well, not only public open spaces. A small group (4 respondents) proposes evaluating overshadowing impacts on surrounding homes on a case-by-case basis with the planning application.

Another issue raised with the draft control was the specific sunlight requirement; 7 residents questioned whether the 11am – 2pm sunlight period is a large enough window to assess the extent of overshadowing. This proposed control also gave rise to more comments suggesting stricter setback and height controls to address shadowing concerns.

Example comments:

- *"The variable of shadowing between 11am and 2pm should be increased as more people are out either earlier in the day or later, particularly with school children and adults returning from work."*
- *"Only a mention of shadowing on open spaces. What about adjacent homes and gardens?"*
- *"High rise buildings will create unwelcome shadows."*

**Wind effects:** Of the 41 responses to this principle, approximately one-third expressed approval for its inclusion, noting that wind is important to consider. Another 9 respondents suggest that this control is too vague, that it is unclear how a wind assessment is conducted, or that this control should be extended to all developments over a single storey. A smaller group (7 respondents) pointed out that wind effects would not be necessary consideration if stricter height and setback controls were implemented.

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Example comments:

- *"This is crucial. Wind tunnel testing is important. It should be applied not just to the Height of the development, but the site"*
- *"I believe this is very important. Walk past some of the new buildings in box hill and you are almost swept off of your feet on a calm day"*
- *"The effects of wind would be negligible if developments were kept to and below 3 storeys (8 meters). Landscaping and trees would also act as natural wind breaks."*

Question 3: Additional comments

A total of 56 responses addressed additional comments that speak to the full range of issues around built form in Whitehorse. Most respondents used the opportunity to provide additional feedback to reemphasize their earlier comments regarding the draft controls and principles, especially those that opposed aspects of the proposals. Again, some respondents expressed the sentiment that Council's attempts to control development will ultimately be futile.

Other issues related to the built form that respondents recommend be addressed moving forward include:

- building design
- location of new development
- traffic and parking
- light and noise pollution
- provision of infrastructure and services
- protection of existing character; and environmental impacts of development

### 3.0 Summary of Responses

In summary the primary issues of concern to submitters, based on the frequency of response are:

- The potential impacts of buildings in the RGZ of up to 6 storeys
- Car parking and traffic management around higher density development
- Enforcement of landscaping requirements
- Shadowing impacts on private land

There was support for:

- The setbacks proposed from front, side and back boundaries
- Tree planting and vegetation in setback areas
- Controls relating to lighting, pedestrian access, wind effects and good design

### 4.0 Next steps

Next steps

- Council to review draft document
- Make any changes as required
- Issue final report