

Application for a Planning Permit

Section 1: LAND DETAILS

Unit Number:	Street Number: 33	Street Name: CHARLES STREET
		Postcode: 3820

FORMAL LAND DESCRIPTION (Please complete either A or B - this information can be found on the Certificate of Title)

Option A:				
Lot No: 17				
Type of Plan: Please tick \checkmark			Plan of Subdivision 🔀	
Plan Number:	030008	5		
Option P:				

Option B:

own Allotment Number:	
ction Number:	
rish/Township Name:	

Section 2: PERMIT APPLICANT

Name:	BEAU OBRIEN/THOMAS LACENER
Business:	UND GROUP PTY UTD
Postal Address:	
Telephone No. (H)	
Email Address:	
Section 3: OWNER DE	
Name(s):	MORGAN DEVELOPMENT GROUP P/L.
Postal Address:	
Telephone No. (H)	(W) (M)

Section 4: DEVELOPMENT COST - Estimated Cost of development for which the permit is required



Email Address:

Section 5: PROPOSAL You must give full details of the proposal being applied for. Insufficient or unclear information will delay your application..

For what use, development or other matter do you require a permit?

Development:	
□ Advertising Signage	Development of 2 or more dwellings Qty:
Agricultural Outbuildings	□ Mixed Use Development and Reduction of Carparking
🗆 Buildings and Works and Reduction in Carparking	🗆 Residential Outbuildings
Commercial or Industrial Buildings and Works	Single Dwelling
Extension / Alteration to Dwelling	Telecommunications

Use:	-
Buildings and Works and Change of Use	Home Based Business
Change of Use	Sale and Consumption of Liquor
□ Change of Use and Single Dwelling	

Subdivision:

Boundary Realignment	□ 3 or more Lot Subdivison Qty:
□ Variation/ Removal of Restriction	🗆 Create an easement
□ 2 Lot Subdivision	🗆 100 or more Lot Subdivision Qty:

Subdivision / Vegetation Removal:

□ Native Vegetation Removal or Lopping	□ Non Native Vegetation Removal or Lopping (ESO4)
Subdivision Qty:	Alteration of access RDZ1

Other:

Does the proposal breach, in any way, an encumbrance on title such as a restrictive covenant, Section 173 agreement or other obligation such as an easement or building envelope?	

🗆 Yes	🗆 No	🗙 Not Applicable	(no such covenant, section	n 173 agreement or r	restriction applies)
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If yes, you should contact Council for advice as to how to proceed with the application.

FURTHER DETAILS OF PROPOSAL (optional)

Section 6: EXISTING CONDITIONS Describe how the land is used and developed now.

Provide a plan of the existing conditions. Photos are also helpful.

THE PROPERTY WAREATTY IS A SINGLE DWELLING	
MUOTMENT, USED FOR RESIDENTIAL RURPOSES	
Section 7: PRE-APPLICATION MEETING Has there been a Pre-Application meeting with a Council Planning Officer?	
Nox	

Yes 🗆	If yes, with whom?	
	Date of this meeting	

Section 8: DECLARATION This form must be signed. Complete box A or B

A . I declare that I am the Applicant and owner of this land and that all information given is true and correct.	Owner/ Applicant signature:	Date:
B .I/We the Applicant declare that I/We have notified the owner about this application and that all information given is true and correct.		Date: 18/03/24

CHECK LIST Please ensure you have included the following items with your application form. *Failure to provide all the information above may result in a delay in the processing of the application.*



A fully completed and signed copy of this form.



Most applications require a fee to be paid. *Please make payment at time of lodgement if submitting at Councils Customer Service Centre or submitting through our on-line portal. If emailing your application, a payment link will be sent to your nominated email once registered on the system.* <u>Contact Council to determine the appropriate fee.</u>



Full and current copy of title and title plan (no older than 60 days) for each individual parcel of land forming the subject site. The title includes: the covering register search statement, the title plan and the associated title documents (known as instruments).



Provided plans showing the layout and details of the proposal

Provided any information required by the planning scheme, requested by Council

Provided a description of the likely effect of the proposal (if required)

Completed the declaration in Section 8

Provided a contact phone number and e-mail address

PLEASE FORWARD THIS APPLICATION TO

E-mail:	planning@bawbawshire.vic.gov.au	Mail:	Planning Department, Baw Baw Shire Council PO Box 304 Warraged VIC 2020
Phone:	5624 2411		Warragul VIC 3820
In Person:	Customer Service Centre: 33 Young S	Street Dro	puin

The personal information requested on this form is being collected to enable council to consider the permit application. Council will use this information for this purpose or one closely related and may disclose this information to third parties for the purpose of their consideration and review of the application.

These third parties generally include, but are not limited to:

Transport Infrastructure Agencies such as VicRoads and VLine

Energy/Utilities Providers

Catchment Management Authorities and Water Corporations

The specific referral bodies will be dependent on factors such as the proposed activities and the location of the applicable property. Applicants are encouraged to familiarise themselves with potential referral bodies. Any material submitted with this application, including plans and personal information, will be made available for public viewing, including electronically, and copies may be made for interested parties for the purpose of enabling consideration and review of the application as part of a planning process specified in the Planning and Environment Act 1987.

All information collected and held by Council is managed in accordance with Councils Privacy Policy which is available on our website. If you choose not to supply the requested information it may impair the ability of Council to consider your application or prevent Council from communicating with you in relation to your application. If you have any concerns or require access to the information held by Council, please contact us on 5624 2411.



33 CHARLES ST | WARRAGUL

TP-00	COVER PAGE
TP-01	NEIGHBOURHOOD CONTEXT PLAN
TP-02	GARDEN PLAN
TP-03	DESIGN RESPONSE
TP-04	SITE PLAN
TP-05	MASTER PLANS (UNDERCROFT LEVEL)
TP-06	MASTER PLANS (GROUND LEVEL)
TP-07	MASTER PLANS (LEVEL 1)
TP-08	DEVELOPMENT ELEVATION 1 OF 3
TP-09	DEVELOPMENT ELEVATION 2 OF 3
TP-10	DEVELOPMENT ELEVATION 3 OF 3
TP-11	SHADOW DIAGRAMS 9AM CAST
TP-12	SHADOW DIAGRAMS 10AM CAST
TP-13	SHADOW DIAGRAMS 11AM CAST
TP-14	SHADOW DIAGRAMS 12PM CAST
TP-15	SHADOW DIAGRAMS 1PM CAST
TP-16	SHADOW DIAGRAMS 2PM CAST
TP-17	SHADOW DIAGRAMS 3PM CAST
TP-18	SHADOW DIAGRAMS WINTER SOLSTICE 9AM CAST
TP-19	SHADOW DIAGRAMS WINTER SOLSTICE 12PM CAST
TP-20	SHADOW DIAGRAMS WINTER SOLSTICE 3PM CAST
TP-21	SHADOW DIAGRAMS SUMMER SOLSTICE 9AM CAST
TP-22	SHADOW DIAGRAMS SUMMER SOLSTICE 12PM CAST
TP-23	SHADOW DIAGRAMS SUMMER SOLSTICE 3PM CAST
TP-24	SHADOW DIAGRAMS EQUINOX 9AM CAST
TP-25	SHADOW DIAGRAMS EQUINOX 12PM CAST
TP-26	SHADOW DIAGRAMS EQUINOX 3PM CAST
TP-27	3D SETBACK ENVELOPE
TP-28	3D PERSPECTIVES

LEGEND



SUBJECT SITE



NEIGHBOURING DEVELOPMENT SITES

LOCAL RECREATION & AMENITIES

CAR TRAFFIC

PEDESTRIAN TRAFFIC

SPOS OVERLOOKING

VIEWS \odot

PROPERTY EASEMENT

ABREVIATIONS

SS	SINGLE STOREY
DS	DOUBLE STOREY
BB	BRICK VENEER
WB	WEATHERBOARD
RF	RENDER FINISH
AC	ARCHITECTURAL CLADDING
TR	TILED ROOFING
SR	SHEEET ROOFING
GAR	GARAGE
CP	CARPORT
HF	HIGH FENCE
LF	LOW FENCE
NF	NO FENCE

AMENITIES + SERVICES SCHEDULE

EDUCATION WARRAGUL NORTH PRIMARY BOWEN PARK KINDERGARDEN	KILOMETERS 400m 600m
SHOPPING AMENITIES: WOOLWORTHS WARRAGUL COLES SUPERMARKETS ALDI WARRAGUL	1.4m 1.6km 1.8km
PUBLIC TRANSPORT: 89 WARRAGUL STATION 81 WARRAGUL STATION BAIRNSDALE STATION	200m 400m 1.8km
RECREATION: BROOKER PARK PDERSON PARK ROTARY PARK	20m 1.4km 1.5km
MEDICAL/ HEALTH: CENTRAL CLINIC WEST GIPPSLAND MEDICAL CLINI	1km C 1.4km

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41 SS BB TR GAR LF TR GAR BB TR GAR LF 35 TR GAR LF 5 m 33 BOOKER PARK SS BB TR GAR LF STREET 10 31 SS BB TR GAR LF ,5 m S Ш CHARL GAR 27 DD TR GAR

User Experience Design Group (UXD)

Melbourne Studio. 31 Coventry St Southbank VIC 3006

www.uxdgroup.co

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Project **CHARLES TOWNHOUSES**

33 CHARLES ST, WARRAGUL, VIC 3820

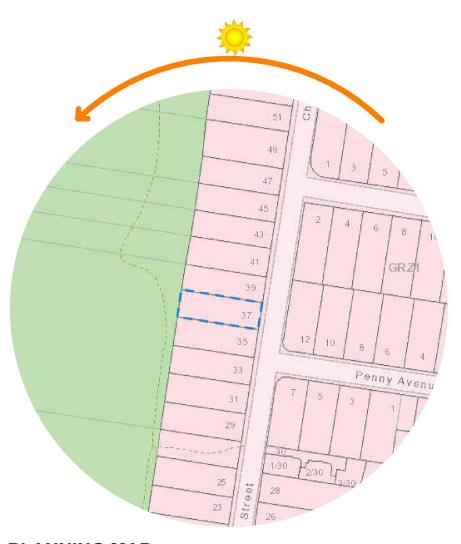
Clients / Developers

MORGAN DEVELOPMENT GROUP





MELWAYS MAP APPROX 200m RADIUS FROM SITE



PLANNING MAP APPROX 150m RADIUS FROM SITE

PLANNING CONTROLS:

PPRZ - Public Park and Recreatio

RGZ - Residential Growth

Drawing Title **NEIGHBOURHOOD CONTEXT PLAN**

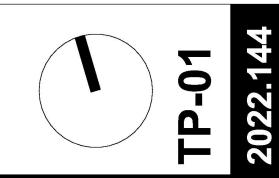
GRZ - General Residential

As indicated @ A2 Format

Detailed Design

Status

Revision V2.0 - Town Planning - 3rd October 2024





DESIGN RESPONSE

THE DEVELOPMENT OF 37 CHARLES ST, WARRAGUL HAS BEEN CREATED IN **RESPONSE TO THE CLIENT WANTING TWO** THREE STOREY TOWNHOUSES ON THE EXISTING BLOCK OF LAND.

TAKING IN ACCOUNT THE NEIGHBOURING AREA WE HAVE CREATED TWO TOWNHOMES THAT STAND OUT BUT AT THE SAME TIME ARE SYMPATHETIC TO THE AREA BY **INCORPORATING COMMON DESIGN** ELEMENTS.

THE BUILT FORM RESPONDS WELL TO THE SITE WITH SEPERATED GARAGES AND ENTRIES BETWEEN BOTH PROPERTIES IN THE SITE. SLANTED ROOFING HAS BEEN USED TO CREATE AGREEABLE RELATIONSHIP BETWEEN THE BUILT FORM AND THE SITES TOPOGRAPHY. BOTH PROPERTIES MIRROR EACHOTHER CONSISTING OF 4 BEDROOMS, 3 BATHROOMS AND TWO LIVING AREAS ONE OF WHICH OVERLOOKS BOOKER PARK.

THE MATERIALS HAVE BEEN INSPIRED BY MODERN DESIGNED TOWNHOMES WITHIN THE AREA. FEATURED ARCHITECTURAL CLADDING APPLIED TO THE MAJORITY OF THE DEVELOPMENT PROVIDE THE BUILD WITH A SIMPLE YET MODERNISTIC APPARELL ACCOMPANIED WITH SLITHERS OF VERTICAL TIMBER CLADDING THAT CREATES VARIANCE WITHIN THE FACADE. THE ADDITION OF THE WHITE RENDERED WALLS AT THE GARAGE AND UNDERCROFT LIVING ROOM LIGHTENS= THE DEVELOPMENT AT EACH END WHILST MAINTAINING A CLEAN FACADE.

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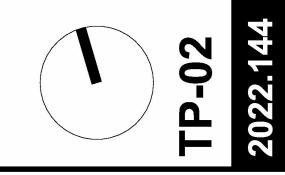
MORGAN DEVELOPMENT GROUP



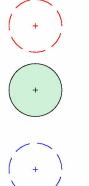


Google Maps Street View

Drawing Title DESIGN RESPONSE As indicated @ A2 Format



TREE PROTECTION KEY



39

TREE REMOVED

TREE KEPT

TPZ RADIUS

GARDEN OPEN SPACE NOTES

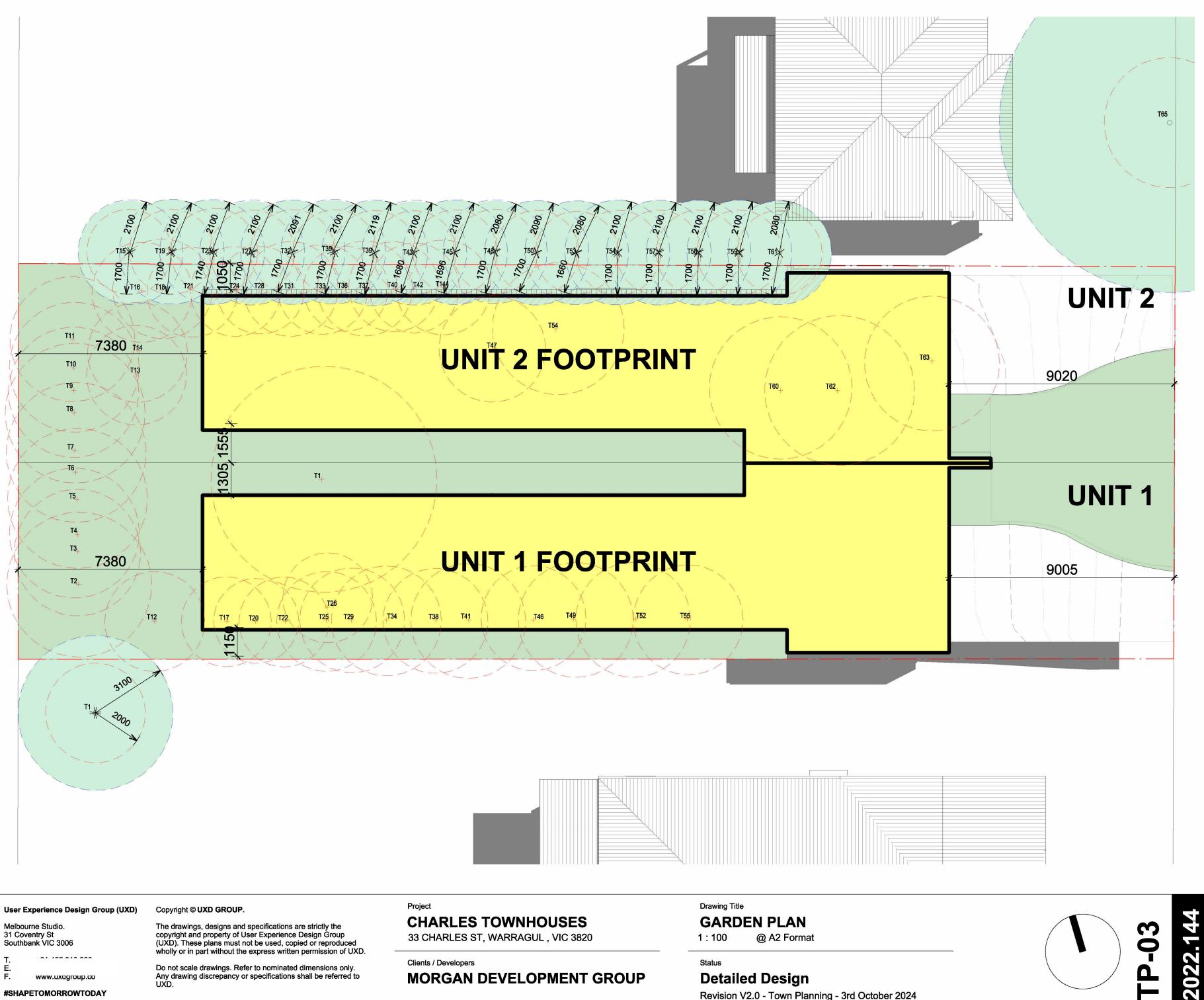
SOLID HATCHED AREA AS SHOWN IN KEY REPRESENTS GARDEN OPEN SPACE WITH NODIMENSION LESS THAN 1.0m SQUARE. AREA REPRESENTS TOTALS TO NO LESS THAN 35% OF THE SUBJECT SITE AREA

GARDEN OPEN SPACE CALCULATIONS

SUBJECT SITE AREA: 730 m² GARDEN SPACE PROVISION: 285.45 m² GARDEN OPEN SPACE COVERAGE: 39.10 %

TPZ KEY		
TREE NO.	TPZ ZONE	ENCROACHMENT %
T1	30.58m²	0%
T15	13.07m²	0%
T19	13.07m²	10.5%
Т23	13.07m²	23.7%
Т27	13.07m ²	17.2%
Т32	13.07m ²	6.7%
Т35	13.07m²	6.7%
Т39	13.07m ²	6.9%
Т43	13.07m²	7.2%
T45	13.07m²	7.4%
T48	13.07m²	7.7%
Т50	13.07m ²	8%
Т53	13.07m ²	8.2%
T54	13.07m²	8.5%
Т57	13.07m²	8.8%
Т58	13.07m²	9.1%
Т59	13.07m²	9.3%
T61	13.07m²	13.1%
T64	12.56m ²	20.4%
T65	135.43m²	0.6%

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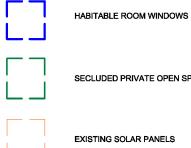
DEVELOPMENT ANALYSIS

KEY	AREA
TOTAL SITE AREA : PROPOSED SITE COVERAGE:	730 m² 344 m² (47%)
TOTAL PERMEABLE SURFACE COVERAGE: BALANCE OF IMPERVIOUS SERVICES:	260 m² (35%) 100 m²

ROOF CALCULATIONS

TH No.	AREA
TH1 TH2	170 m² 170 m²
TOTAL TOWNHOUSE ROOF AREAS:	340 m²

ADJOINING PROPERTY NOTES

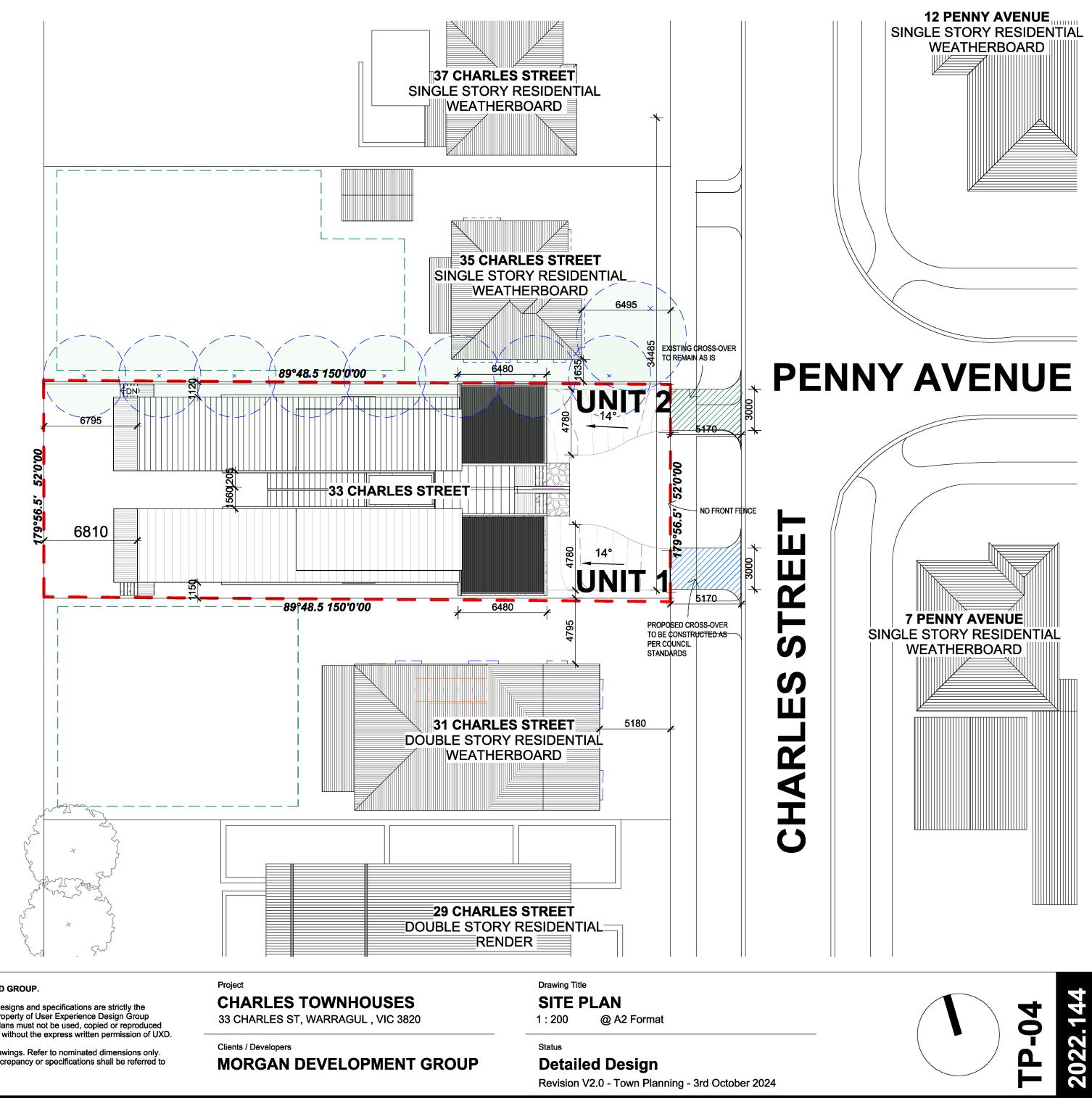


SECLUDED PRIVATE OPEN SPACE

EXISTING SOLAR PANELS

UXC

ARK R OOKE m



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FLOOR-PLATE AREAS	
KEY	AREA
UNIT 1	
GROUND LEVEL FLOOR PLATE: UPPER LEVEL FLOOR PLATE: SECOND LEVEL FLOOR PLATE: GARAGE FLOOR PLATE:	140 m² 125 m² 60 m² 33 m²
TOTAL PERMEABLE SURFACE COVERAGE: BALANCE OF IMPREVIOUS SERVICES:	260 m² 100 m²
TOTAL FLOOR AREAS:	358 m²
ANCILLARY AREAS	
DECK AREAS: BALCONY AREAS:	30 m² 36 m²
UNIT 2	
GROUND LEVEL FLOOR PLATE: UPPER LEVEL FLOOR PLATE: SECOND LEVEL FLOOR PLATE: GARAGE FLOOR PLATE:	140 m² 125 m² 60 m² 33 m²
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GARDEN OPEN SPACE NOTES



SOLID HATCHED AREA AS SHOWN IN KEY REPRESENTS GARDEN OPEN SPACE WITH NO DIMENSION LESS THAN 1.0m SQUARE. AREA REPRESENTS TOTALS TO NO LESS THAN 35% OF THE SUBJECT SITE AREA

GARDEN OPEN SPACE CALCULATIONS SUBJECT SITE AREA: 730 m² GARDEN SPACE PROVISION: 270m² GARDEN OPEN SPACE COVERAGE: 270m²

PRIVATE OPEN SPACE PROVISION

AREAS SHOWN IN BLUE DASHED LINE-WORK REPRESENT TOTAL AREA OF SECLUDED PRIVATE OPEN SPACE. THESE PERIMETES ARE NO LESS THAN 5.0m IN ANY DIMENSIONAND ACHIEVE AN AREA OF A 25.0m² OR

GREATER IN ACCORDANCE WITH NRZ SCHEDULE 4 OF MACEDON RANGES SHIRE COUNCIL PLANNING SCHEME

DEVELOPMENT FENCING NOTES

ALL DEVELOPMENT & BOUNDARY FENCING TO BE A MINIMUM OF 1.8m HIGH ABOVE NATURAL GROUND LEVEL TO THE SATISFACTION OF THE RESPONSIBLE AUTHORITY. LINE-WORK REFLECTED AS ABOVE ON PLANS INDICATE PROPOSED TIMBER PAILING FENCING.

SITE FACILITY NOTES

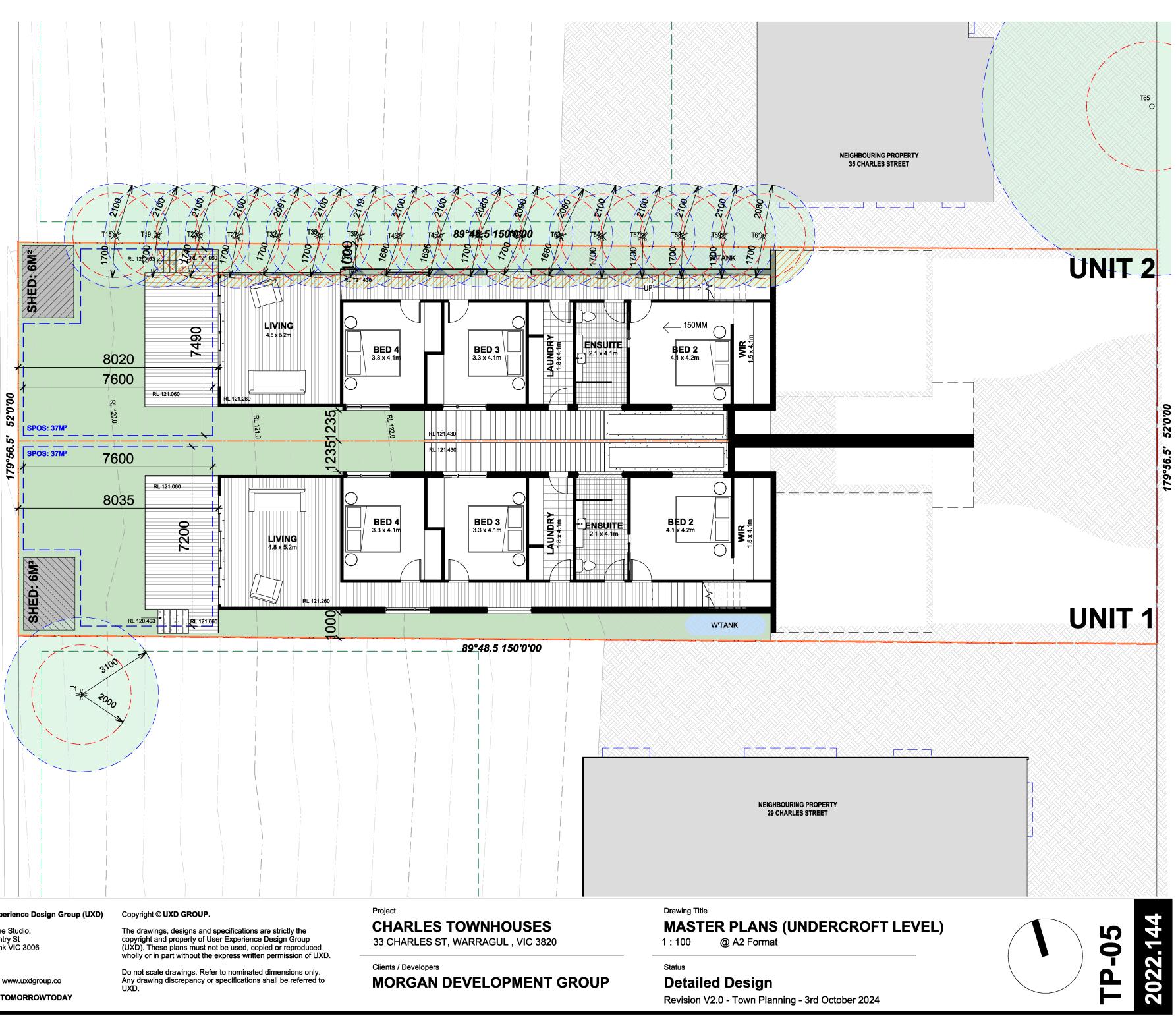
W'TANK

5000L WATERTANK IN-ACCORDANCE WITH CORRESPONDING WATER SENSITIVE URBAN DESIGN REPORT WATER TANK SIZE 800MM X 3200MM X 2020MM



BIN LOCATIONS AS PER COUNCIL REQUIREMENTS

uxd.



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SITE FACILITY NOTES

W'TANK

BIN LOCATIONS AS PER COUNCIL REQUIREMENTS

UXC

5000L WATERTANK IN-ACCORDANCE WITH

CORRESPONDING WATER SENSITIVE URBAN DESIGN REPORT.

WATER TANK SIZE 800MM X 3200MM X 2020MM

T15 89988.5 150900 202 002 1700 1700 120 6M² SHED: 5200 490 OUTDOOR AREA LIVING 1 DINING (4.4 x 5.2m 4.5 x 5.2m 4.8 x 5.2m E 6805 N 6000 RL 124.970 52'0'00 8∎\$ RL 121.060 385 SPOS: 37M² 12 $\overline{}$ S 56 SPOS: 37M² 38 179, 6000 ---- 🚺 🤅 6820 RL 124.970 7200 OUTDOOR AREA LIVING 4.5 x 5.2m/ _4.4 x 5.2m 4.8 x 5.2m (C 6M² SHED: RL 121.060 50 RL <u>120.40</u>3 RL 121.060 $\overline{}$ 89°48.5 150'0'00 3100 T1 2000

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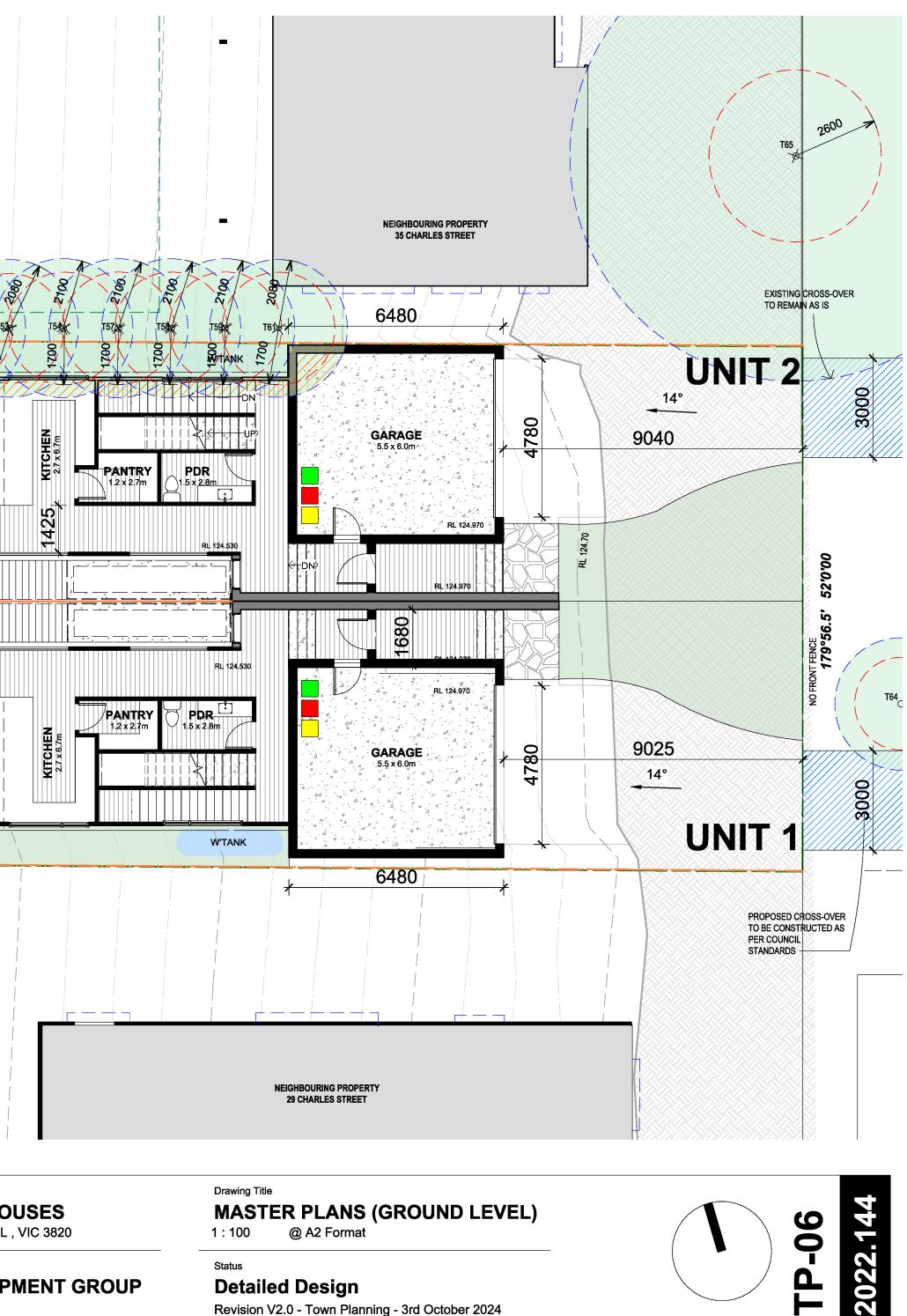
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Clients / Developers

MORGAN DEVELOPMENT GROUP





MASTER PLANS (GROUND LEVEL) @ A2 Format 1:100

Detailed Design Revision V2.0 - Town Planning - 3rd October 2024

Status

FLOOR-PLATE AREAS	
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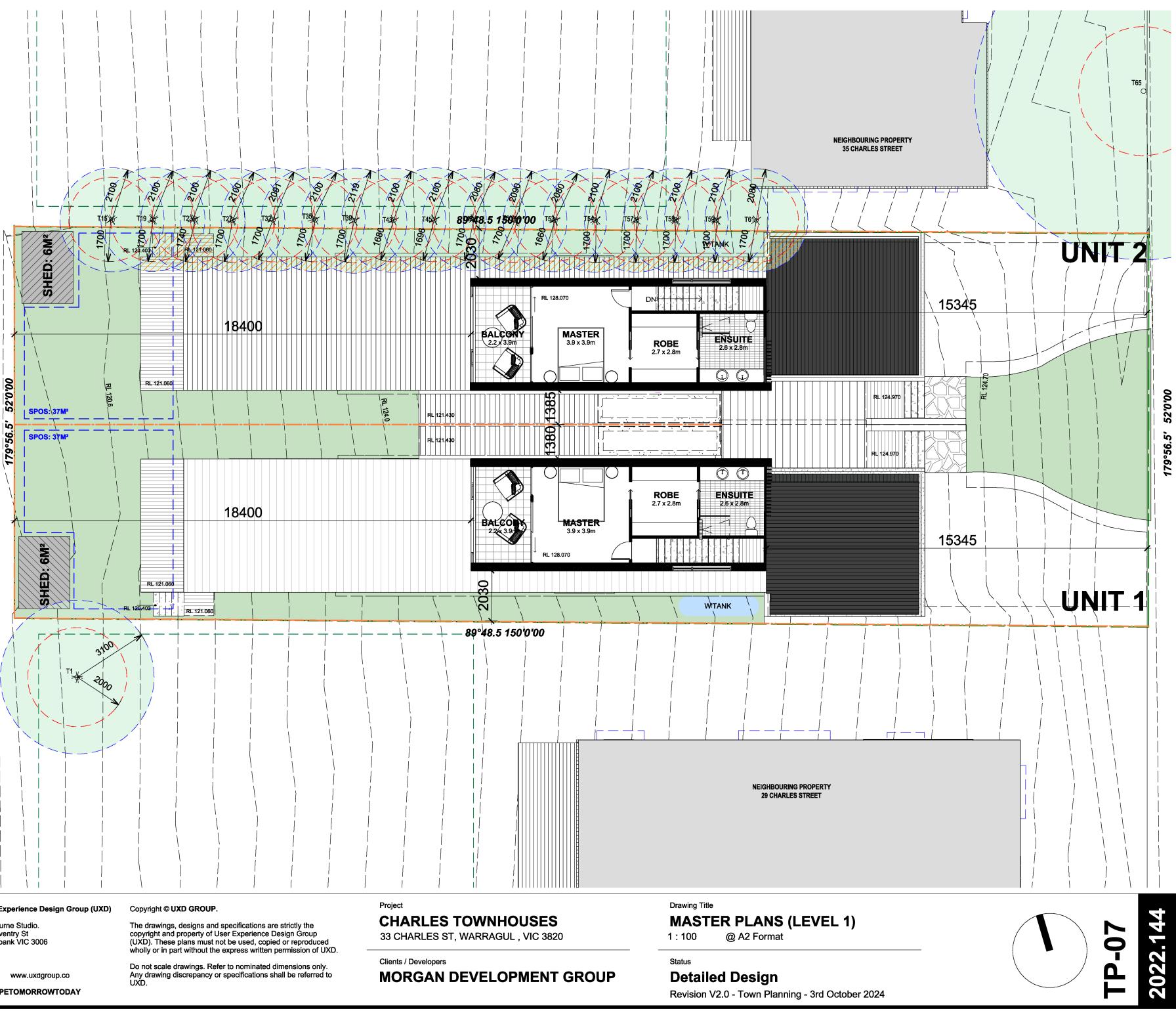
UXC

SITE FACILITY NOTES

W'TANK

5000L WATERTANK IN-ACCORDANCE WITH CORRESPONDING WATER SENSITIVE URBAN DESIGN REPORT. WATER TANK SIZE 800MM X 3200MM X 2020MM

BIN LOCATIONS AS PER COUNCIL REQUIREMENTS



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MATERIALS SCHEDULE

 (\mathbf{A}) SELECTED BRICK FACE

SELECTED LIGHTWEIGHT VERTICAL CLADDING UNIT 1 IN 'WHITE OR LIGHT GREY' OR SIMILAR UNIT 2 IN 'CHARCOAL' OR SIMILAR

 (\mathbf{C}) SELECTED LIGHTWEIGHT CLADDING (RENDER FINISH)

 (\mathbf{D}) SELECTED LIGHTWEIGHT "TIMBER LOOK" FC CLADDING

 (\mathbf{E}) ALUMINIUM FRAMED GLASS BALUSTRADE

AXON NAILSTRIP CLADDING

MATERIAL NOTES

 (\mathbf{B})

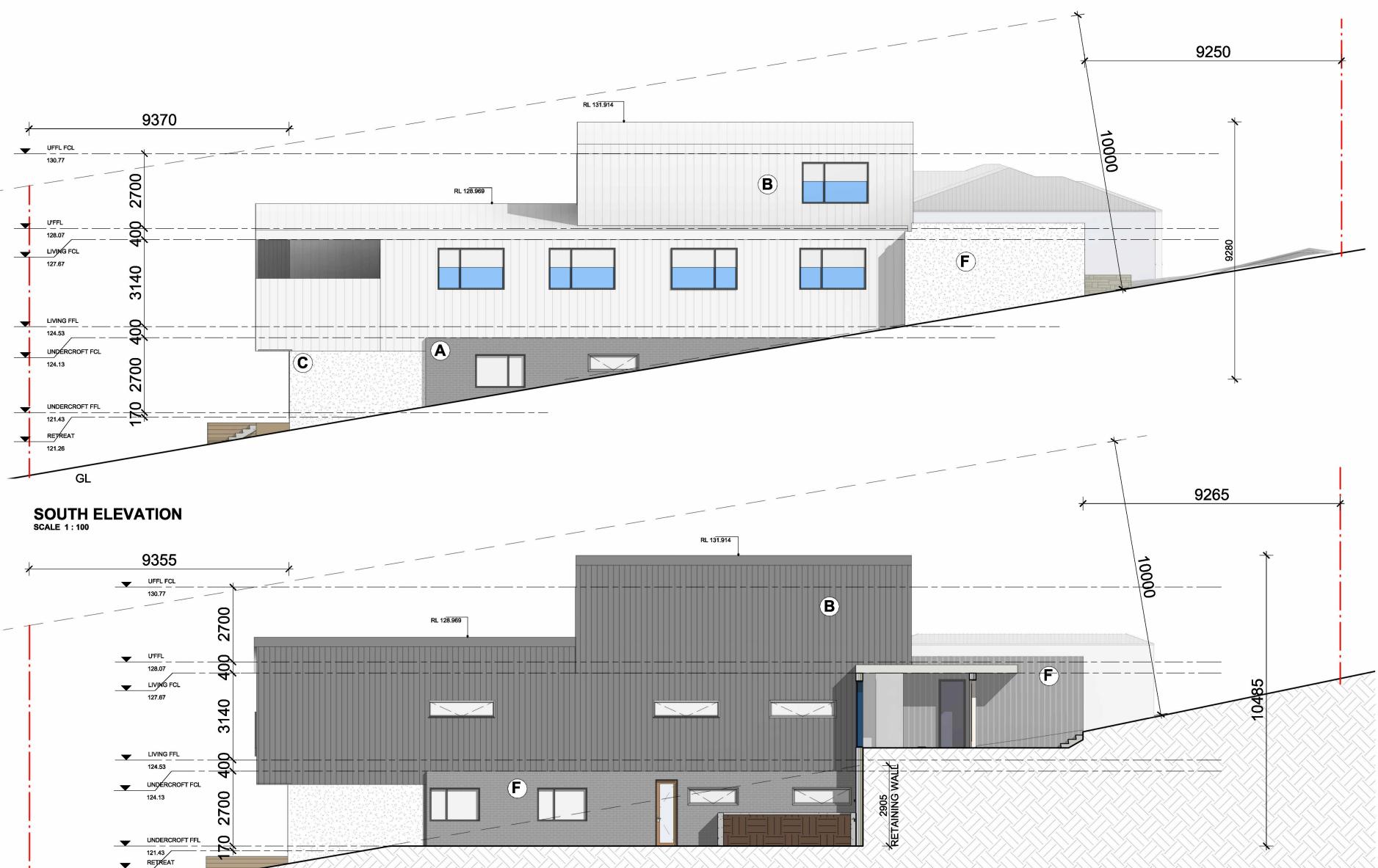
 (\mathbf{F})

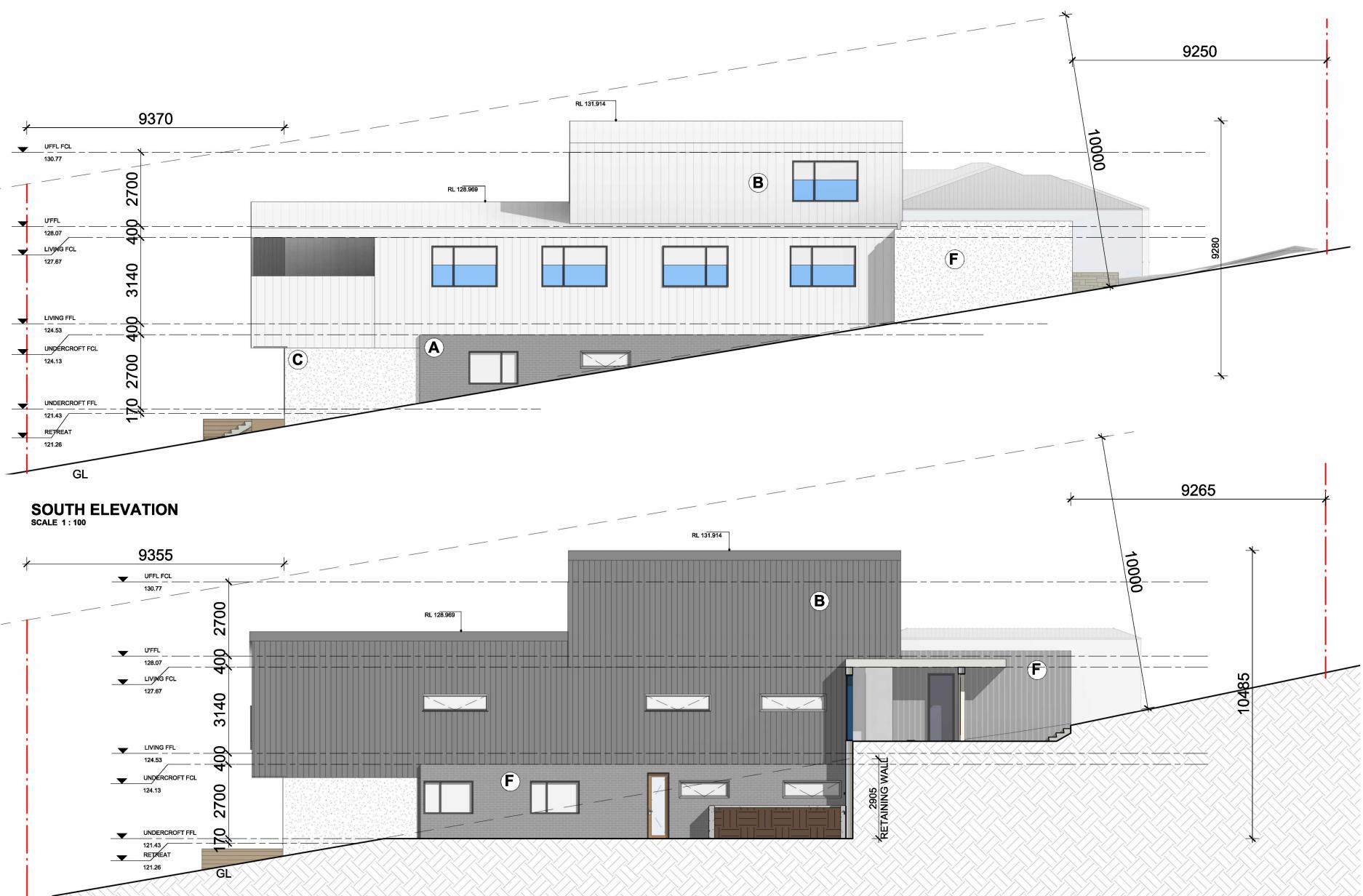
WINDOWS THAT SHOW DARK BLUE SHADED PANELS REPRESENT WINDOWS AND GLASS PANELS WHICH NEED TO BE FROSTED GLAZING NO GREATER THAN 25% TRANSPARANT FOR A MINIMUM HEIGHT OF 1.7m ABOVE FFL IN ACCORDANCE WITH B22 STANDARDS

TREATMENT NOTES

RAINWATER FIXTURES (FASCIAS, GUTTERS, DOWN-PIPES & THE LIKE) TO BE OF COLORBOND STEEL AND FINISHED IN 'MONUMENT' OR COLOUR SIMILAR

ALUMINIUM FRAMED WINDOW & DOOR SYSTEMS, POWDERCOAT FINISH IN COLORBOND 'MONUMENT' OR SIMILAR COLOUR FINISH





SOUTH INTERIOR ELEVATION SCALE 1:100

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Project **CHARLES TOWNHOUSES** 33 CHARLES ST, WARRAGUL, VIC 3820

Clients / Developers

MORGAN DEVELOPMENT GROUP

Drawing Title **DEVELOPMENT ELEVATION 1 OF 3**

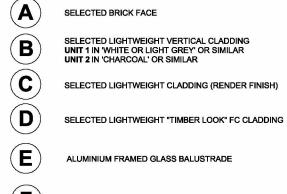
@ A2 Format 1 : 100

Status

Detailed Design Revision V2.0 - Town Planning - 3rd October 2024

2022.144 **FP-08**

MATERIALS SCHEDULE



ALUMINIUM FRAMED GLASS BALUSTRADE

 (\mathbf{F}) AXON NAILSTRIP CLADDING

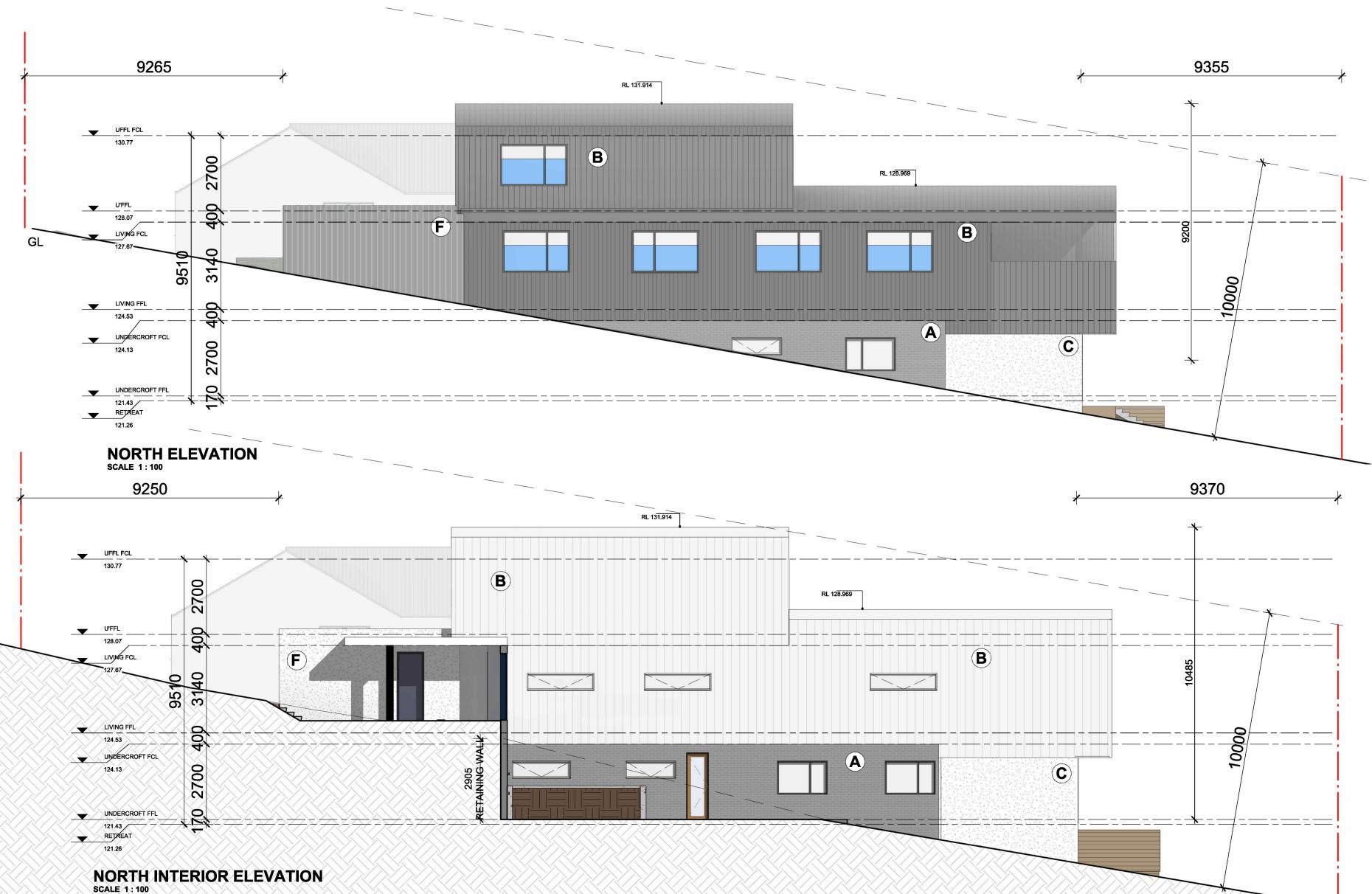
MATERIAL NOTES

WINDOWS THAT SHOW DARK BLUE SHADED PANELS REPRESENT WINDOWS AND GLASS PANELS WHICH NEED TO BE FROSTED GLAZING NO GREATER THAN 25% TRANSPARANT FOR A MINIMUM HEIGHT OF 1.7m ABOVE FFL IN ACCORDANCE WITH B22 STANDARDS

TREATMENT NOTES

RAINWATER FIXTURES (FASCIAS, GUTTERS, DOWN-PIPES & THE LIKE) TO BE OF COLORBOND STEEL AND FINISHED IN 'MONUMENT' OR COLOUR SIMILAR

ALUMINIUM FRAMED WINDOW & DOOR SYSTEMS, POWDERCOAT FINISH IN COLORBOND 'MONUMENT' OR SIMILAR COLOUR FINISH



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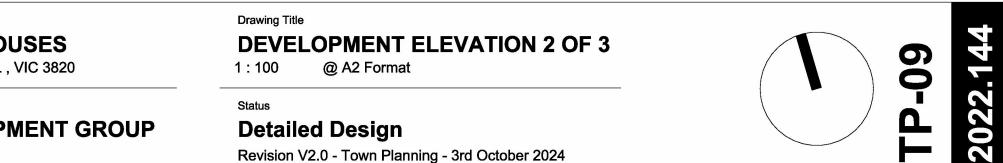
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MATERIALS SCHEDULE

 (\mathbf{A}) SELECTED BRICK FACE

B SELECTED LIGHTWEIGHT VERTICAL CLADDING UNIT 1 IN 'WHITE OR LIGHT GREY' OR SIMILAR UNIT 2 IN 'CHARCOAL' OR SIMILAR

(C) SELECTED LIGHTWEIGHT CLADDING (RENDER FINISH)

 (\mathbf{D}) SELECTED LIGHTWEIGHT "TIMBER LOOK" FC CLADDING

 (\mathbf{E}) ALUMINIUM FRAMED GLASS BALUSTRADE

 (\mathbf{F}) AXON NAILSTRIP CLADDING

MATERIAL NOTES

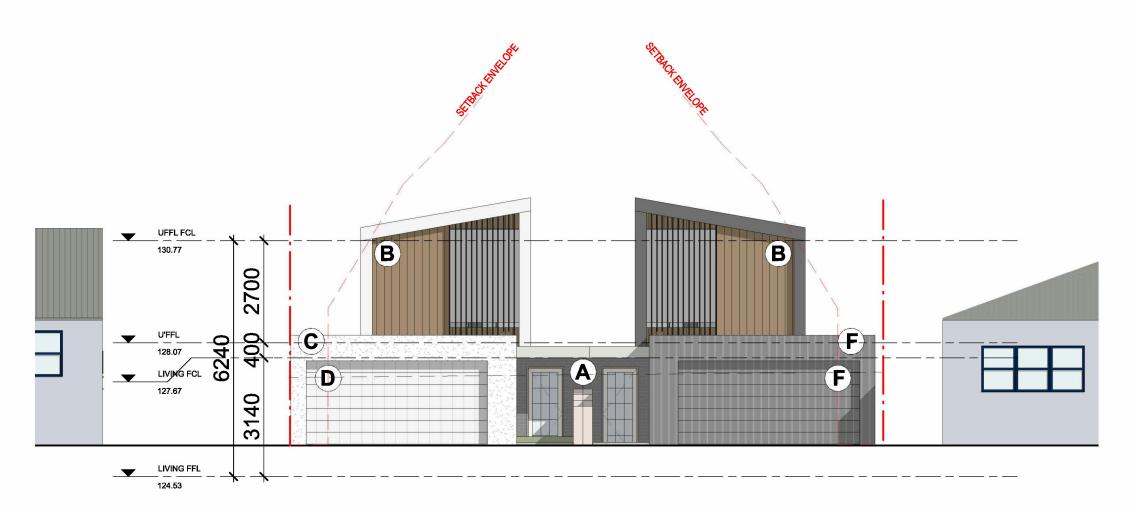


WINDOWS THAT SHOW DARK BLUE SHADED PANELS REPRESENT WINDOWS AND GLASS PANELS WHICH NEED TO BE FROSTED GLAZING NO GREATER THAN 25% TRANSPARANT FOR A MINIMUM HEIGHT OF 1.7m ABOVE FFL IN ACCORDANCE WITH B22 STANDARDS

TREATMENT NOTES

RAINWATER FIXTURES (FASCIAS, GUTTERS, DOWN-PIPES & THE LIKE) TO BE OF COLORBOND STEEL AND FINISHED IN 'MONUMENT' OR COLOUR SIMILAR

ALUMINIUM FRAMED WINDOW & DOOR SYSTEMS, POWDERCOAT FINISH IN COLORBOND 'MONUMENT' OR SIMILAR COLOUR FINISH







SCALE 1:100

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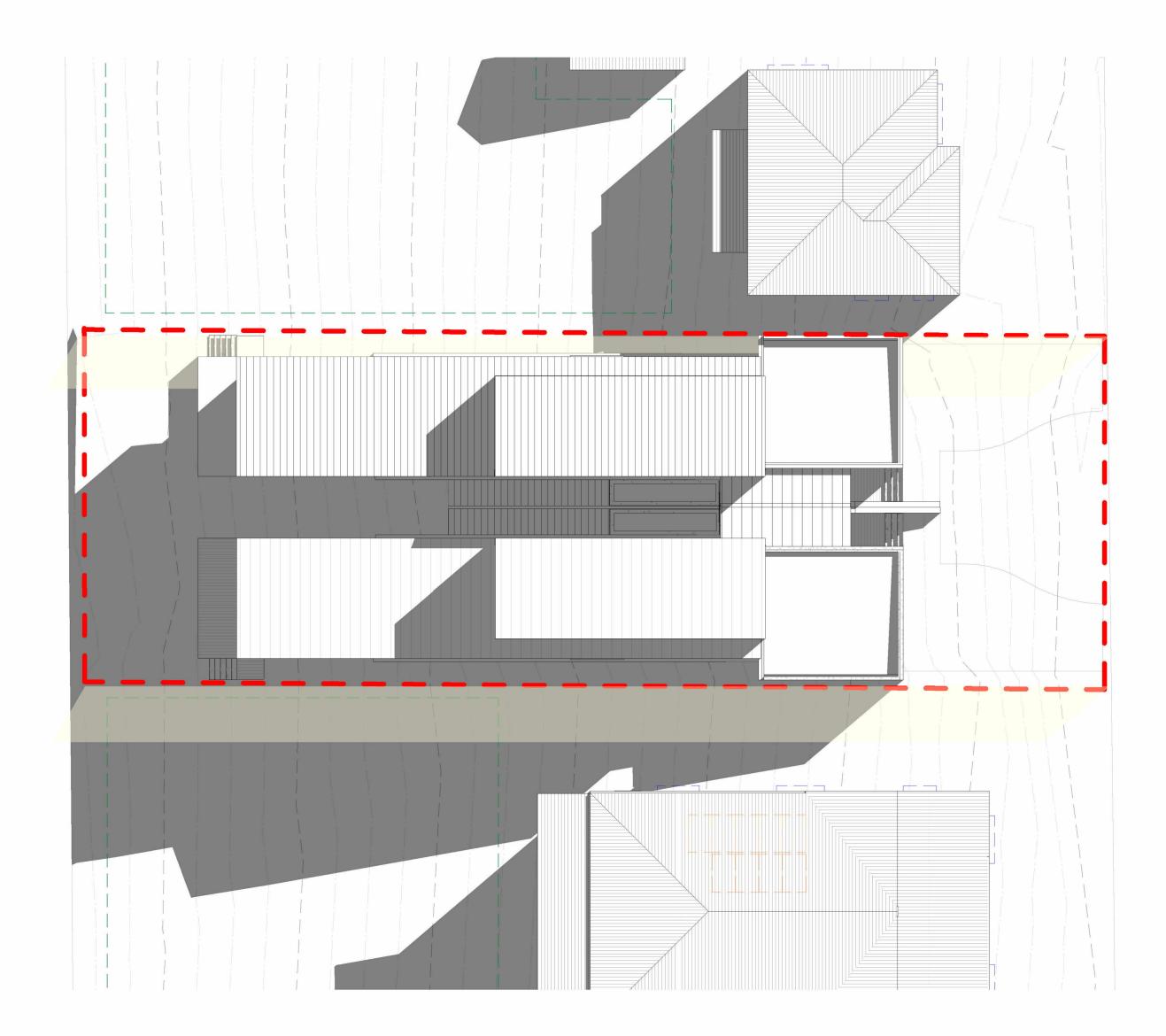
Project **CHARLES TOWNHOUSES**

33 CHARLES ST, WARRAGUL, VIC 3820

Clients / Developers

MORGAN DEVELOPMENT GROUP

Drawing Title 2022.144 **DEVELOPMENT ELEVATION 3 OF 3 ГР-10** @ A2 Format 1 : 100 Status **Detailed Design** Revision V2.0 - Town Planning - 3rd October 2024



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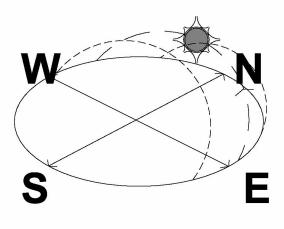
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Clients / Developers



SEPTEMBER EQUINOX

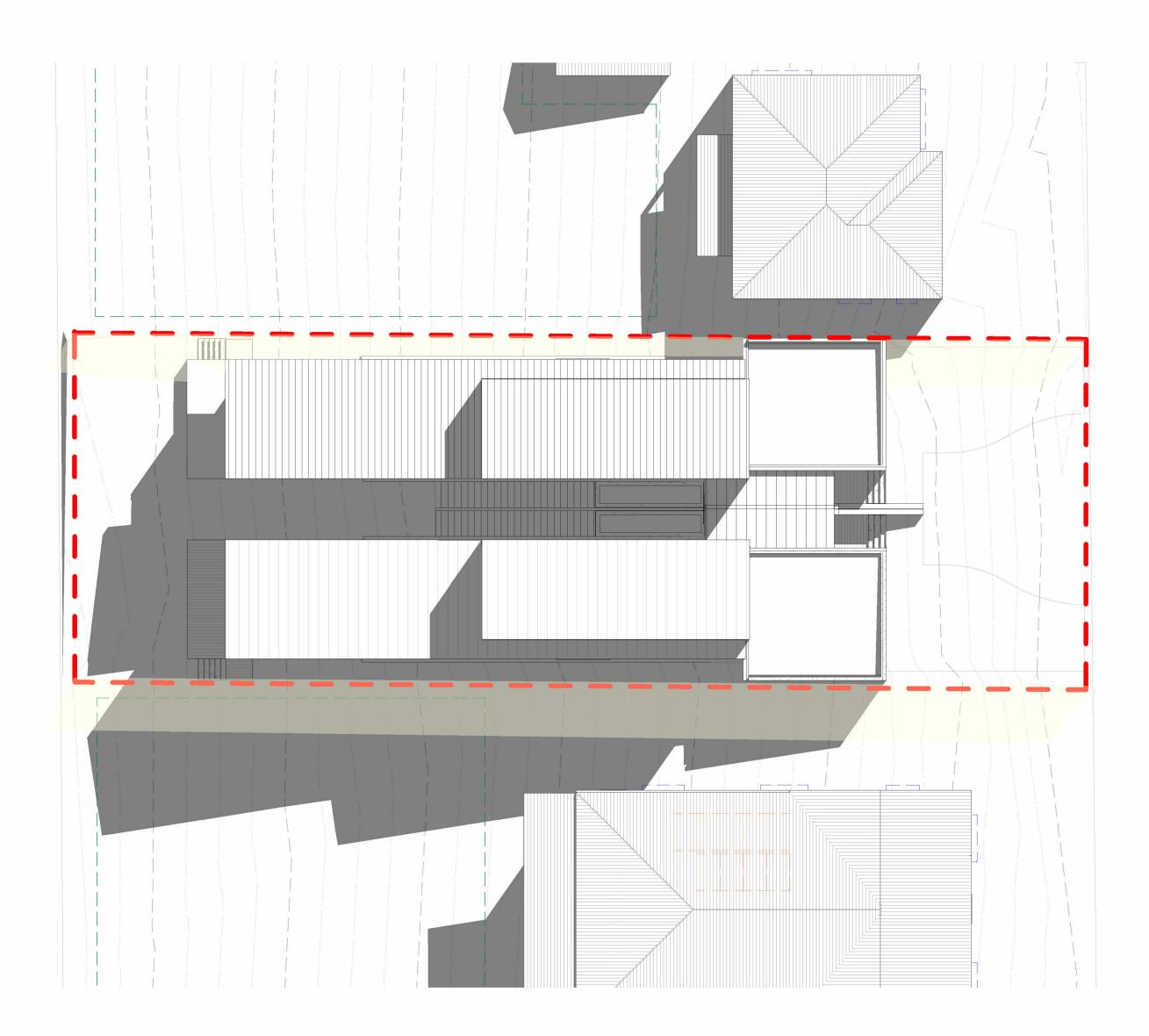
DATE : 22 SEPTEMBER

SEASON : SEPTEMBER EQUINOX SCALE : 1: 150

SHADOW CAST KEY



Drawing Title 2022.144 **9AM SHADOW DIAGRAM FP-11** @ A2 Format 1:150 Status MORGAN DEVELOPMENT GROUP_{8 Projects} Detailed Design Revision V2.0 - Town Planning - 3rd October 2024



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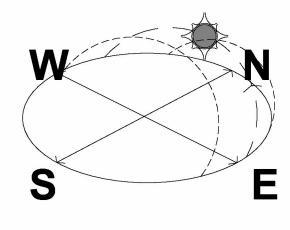
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Clients / Developers



SEPTEMBER EQUINOX

DATE : 22 SEPTEMBER SEASON : SEPTEMBER EQUINOX

SCALE : 1: 150

SHADOW CAST KEY



NEIGHBOURING PROPERTY SOLAR PANELS

Drawing Title **10AM SHADOW DIAGRAM** 1 : 150

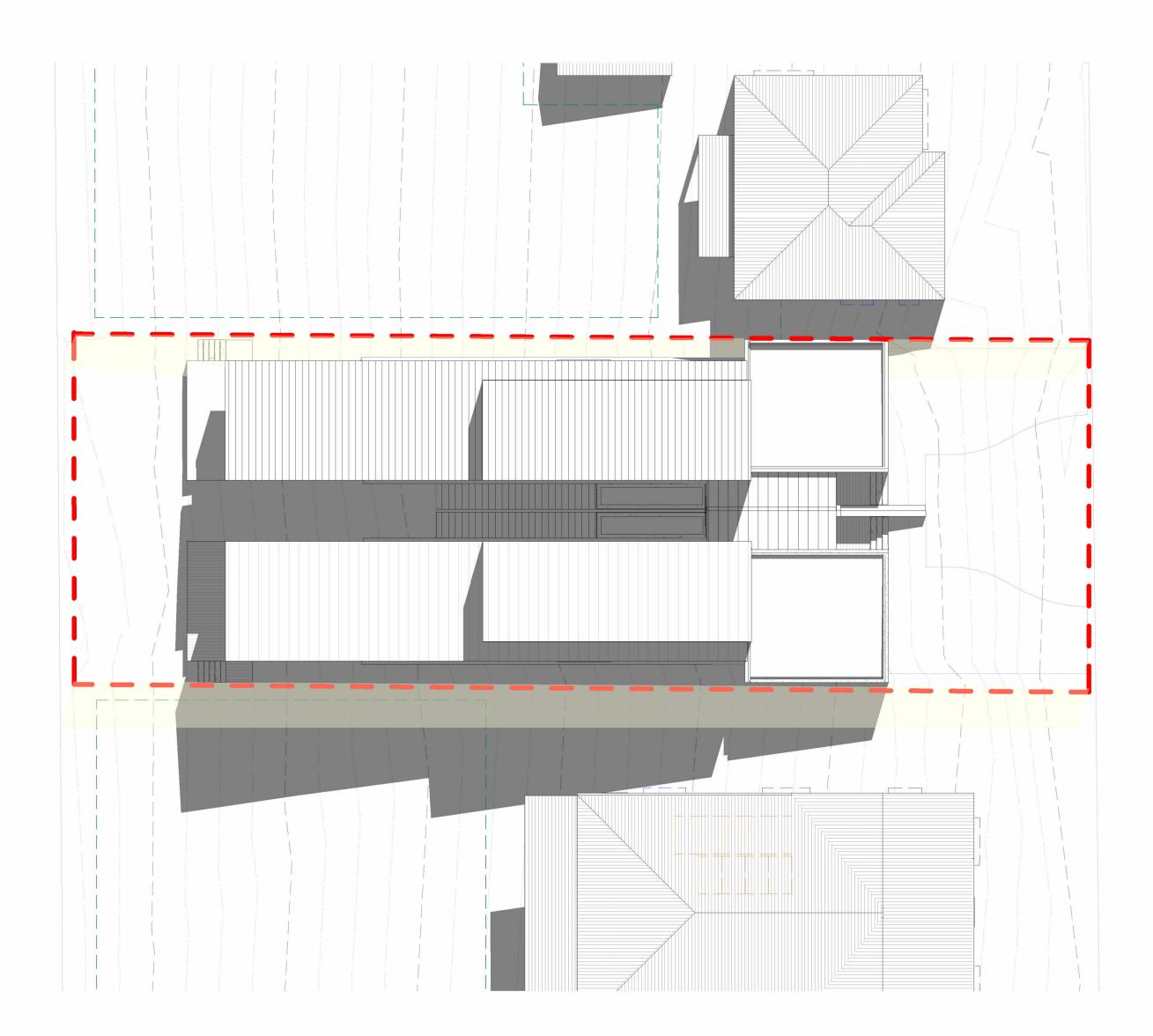
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Status

MORGAN DEVELOPMENT GROUP

Detailed Design Revision V2.0 - Town Planning - 3rd October 2024

2022.144 **FP-12**



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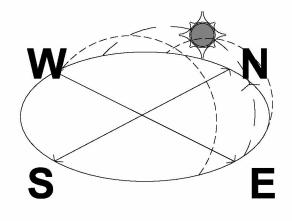
Project **CHARLES TOWNHOUSES** 33 CHARLES ST, WARRAGUL, VIC 3820

Clients / Developers

MORGAN DEVELOPMENT GROUP

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SEPTEMBER EQUINOX

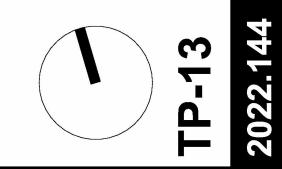
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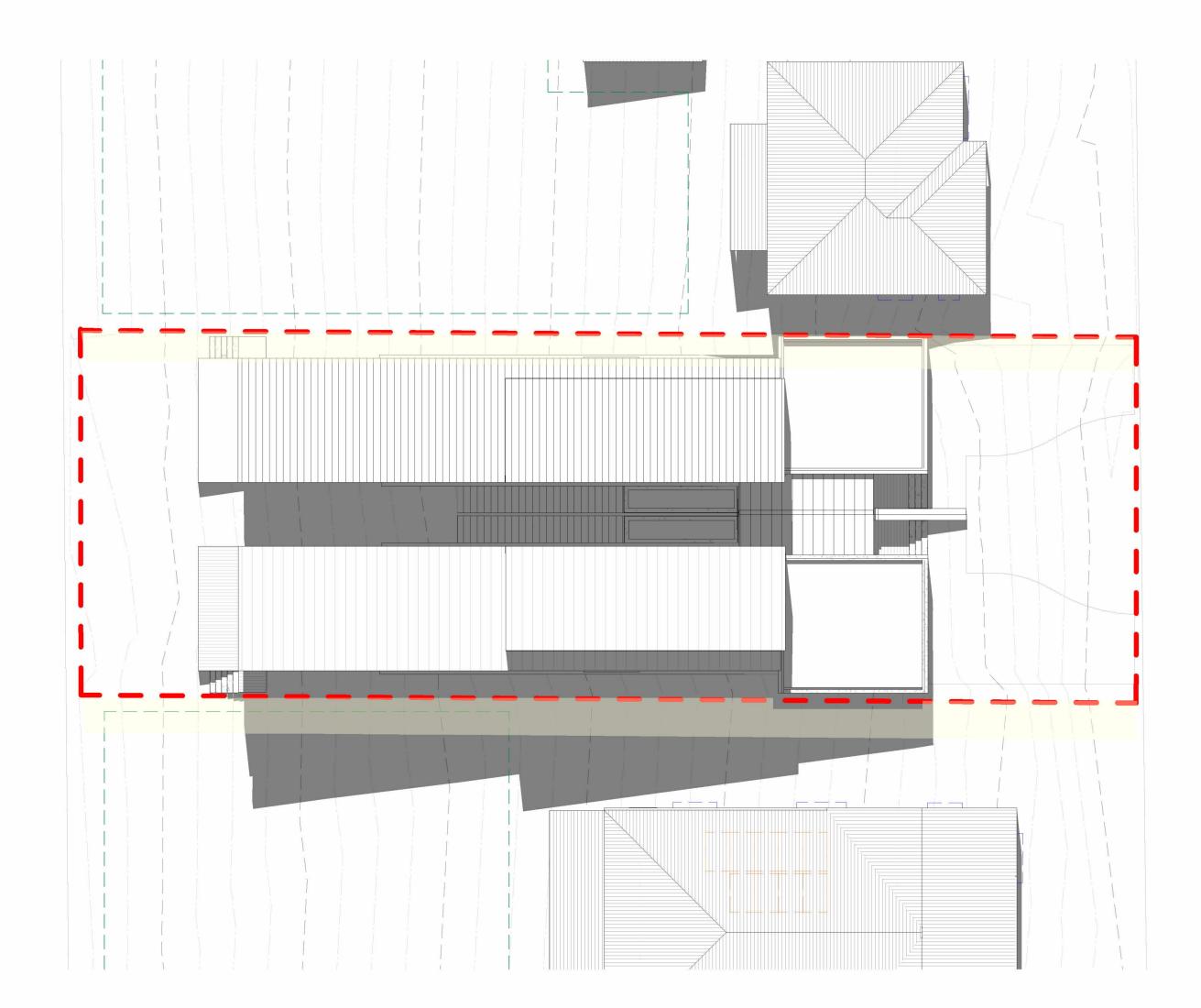


Drawing Title **11AM SHADOW DIAGRAM** 1 : 150

@ A2 Format

Status





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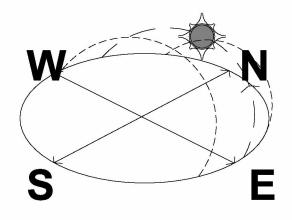
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Project

CHARLES TOWNHOUSES 33 CHARLES ST, WARRAGUL, VIC 3820

Clients / Developers

MORGAN DEVELOPMENT GROUP C/O 8 Projects

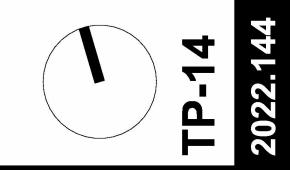


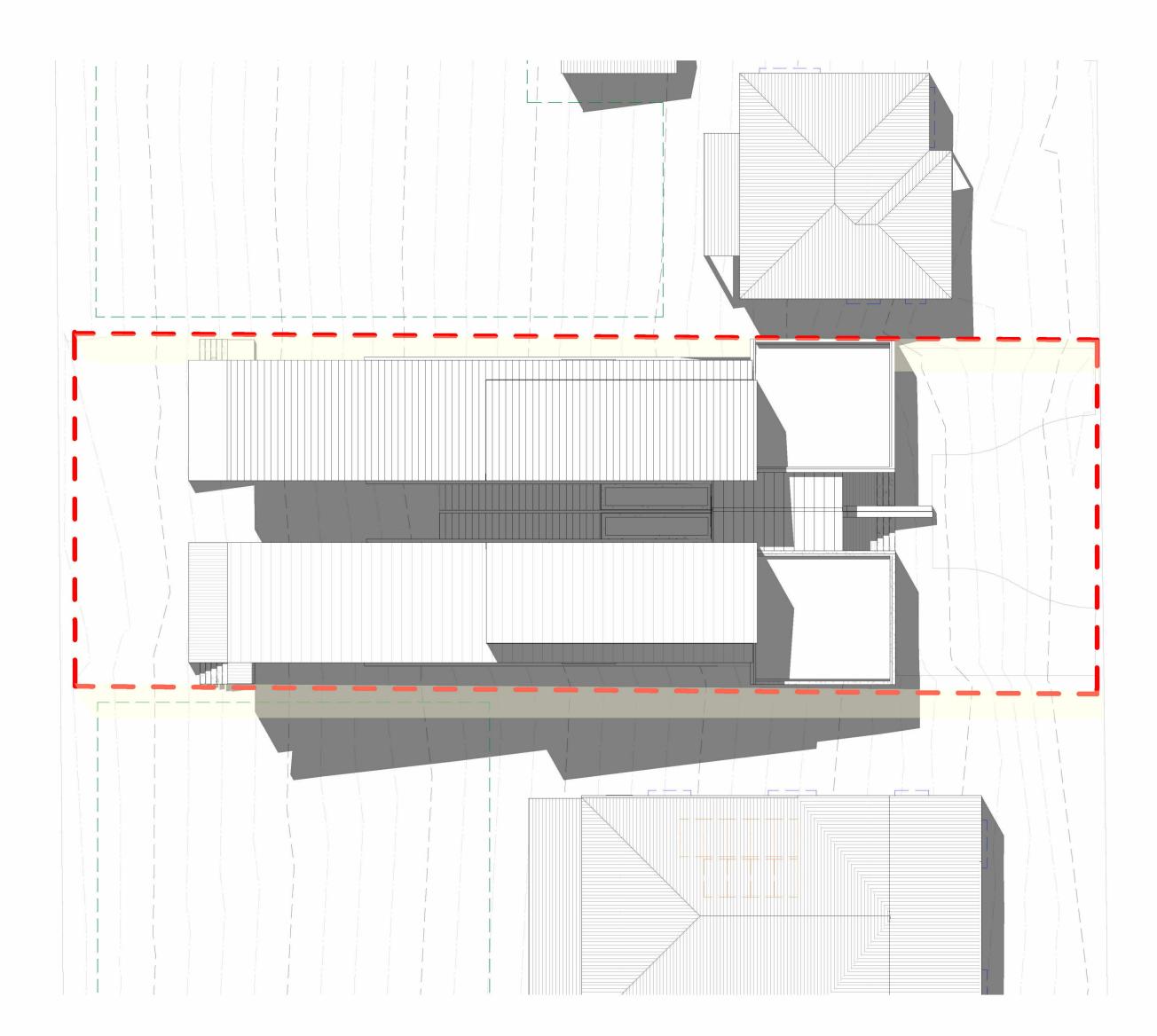
SEPTEMBER EQUINOX

DATE : 22 SEPTEMBER SEASON : SEPTEMBER EQUINOX SCALE : 1: 150



Drawing Title **12PM SHADOW DIAGRAM** @ A2 Format 1 : 150





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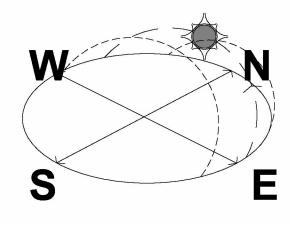
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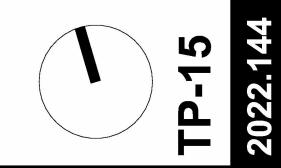
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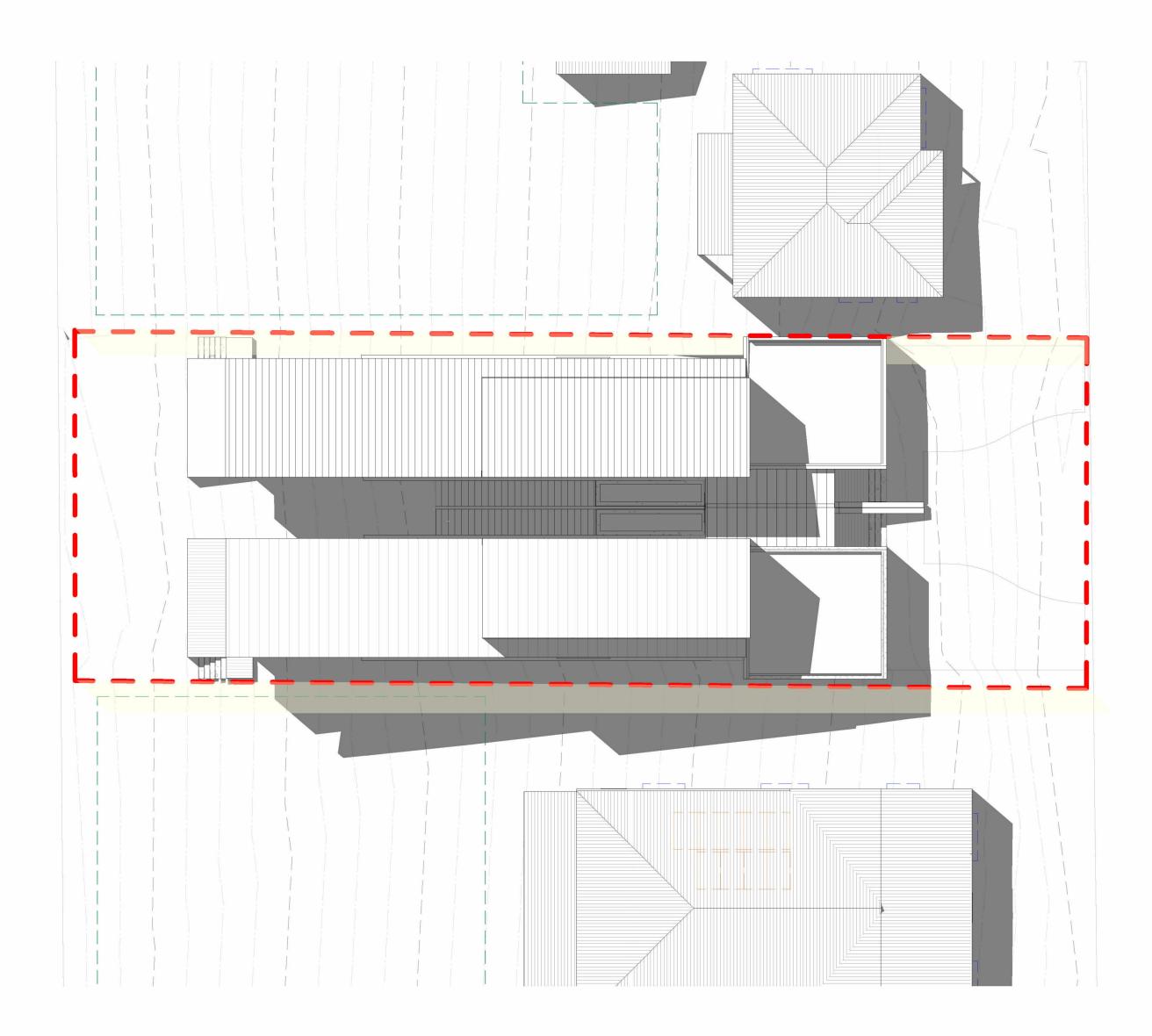
DATE : 22 SEPTEMBER SEASON : SEPTEMBER EQUINOX SCALE : 1: 150

SHADOW CAST KEY



Drawing Title **1PM SHADOW DIAGRAM** @ A2 Format 1:150





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DATE : 22 SEPTEMBER SEASON : SEPTEMBER EQUINOX

SCALE : 1: 150

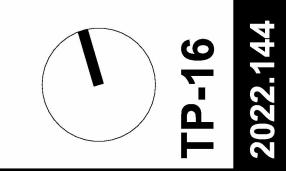
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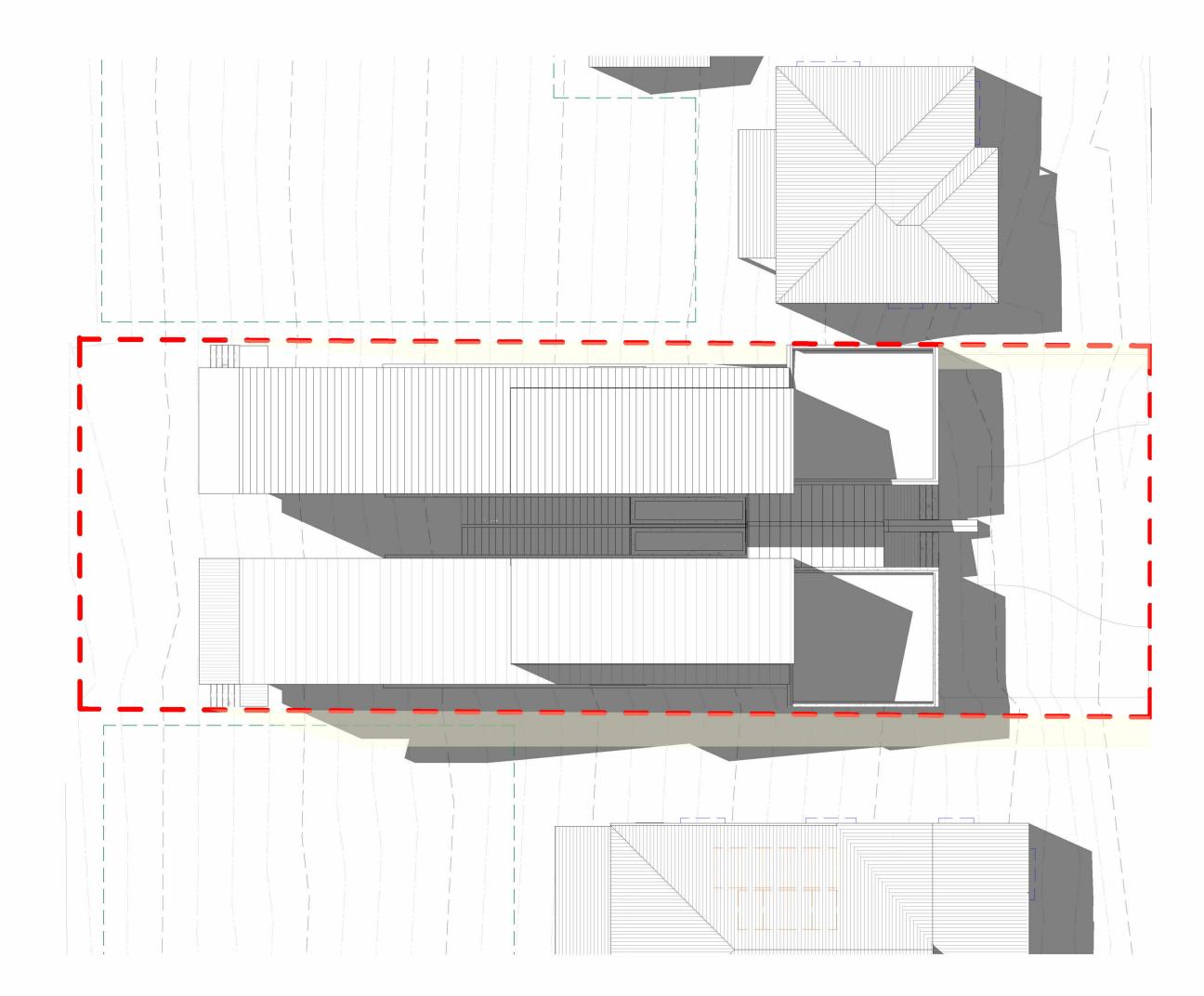


NEIGHBOURING PROPERTY SOLAR PANELS

33 CHARLES ST, WARRAGUL, VIC 3820

Drawing Title **2PM SHADOW DIAGRAM** @ A2 Format 1 : 150





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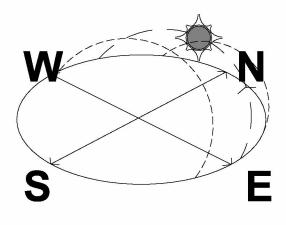
Project

CHARLES TOWNHOUSES 33 CHARLES ST, WARRAGUL, VIC 3820

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MORGAN DEVELOPMENT GROUP

C/O 8 Projects



SEPTEMBER EQUINOX

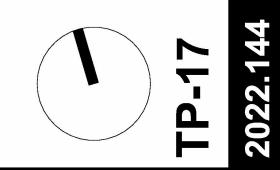
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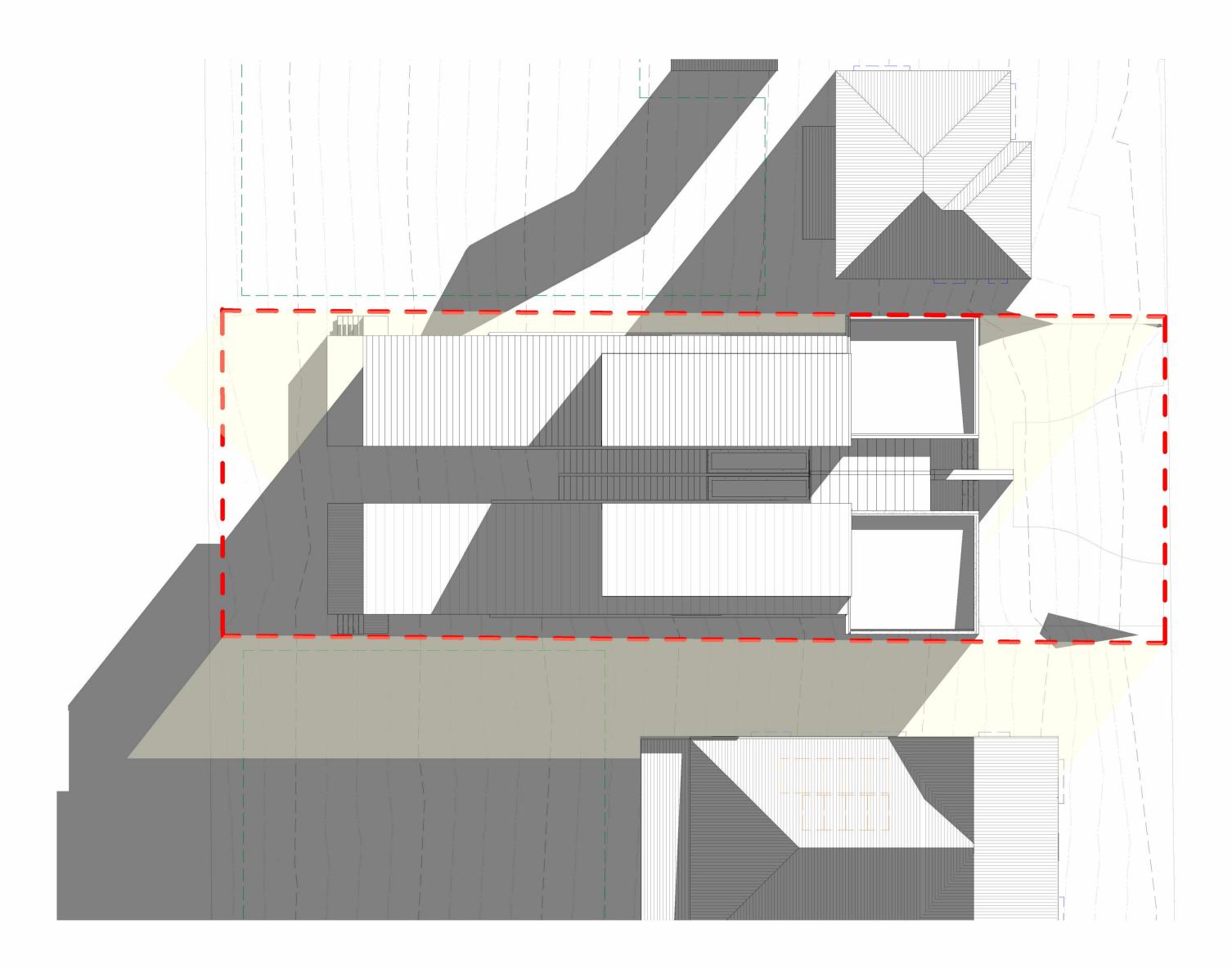
SHADOW CAST KEY



Drawing Title **3PM SHADOW DIAGRAM** @ A2 Format 1 : 150

Status





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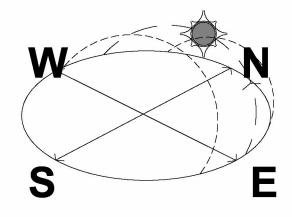
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WINTER SOLSTICE

DATE : 22 JUNE SEASON : SEPTEMBER EQUINOX

SCALE : 1: 150

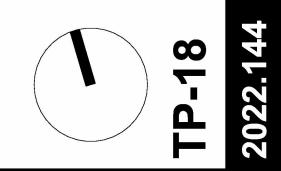
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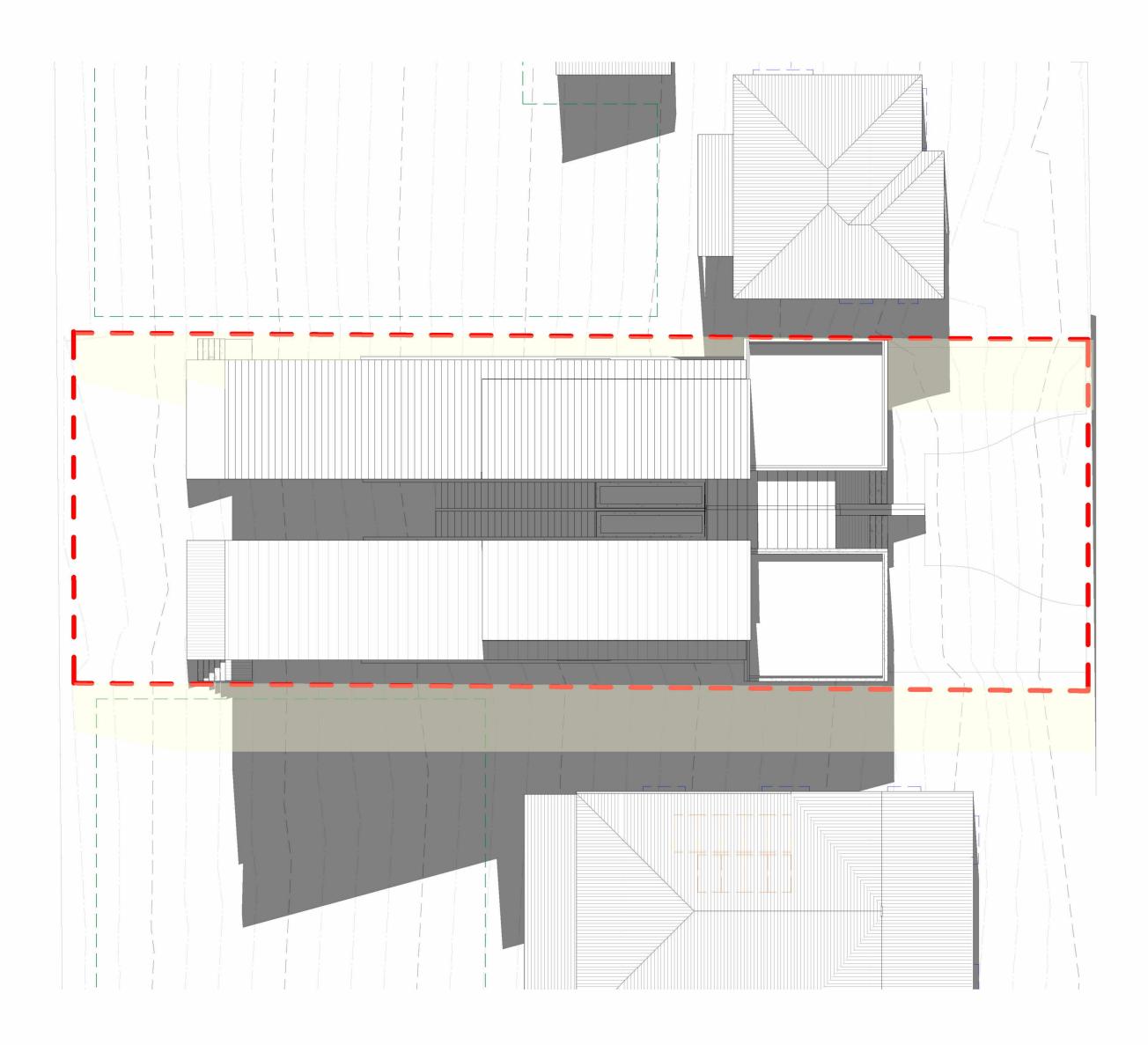


Drawing Title WINTER SOLSTICE 9AM SHADOW DIAGRAM

@ A2 Format 1:150

Status





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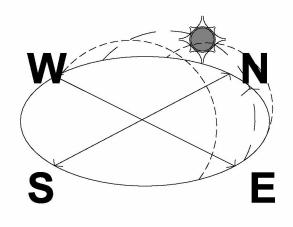
Project **CHARLES TOWNHOUSES** 33 CHARLES ST, WARRAGUL, VIC 3820

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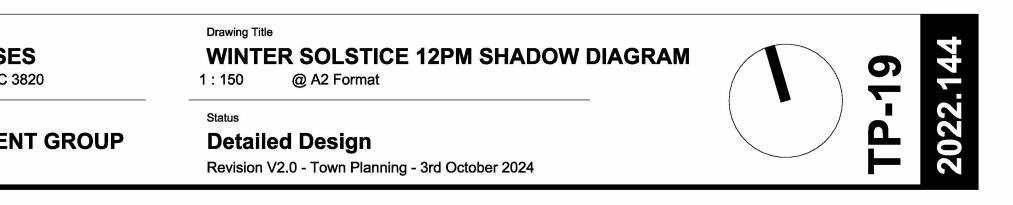


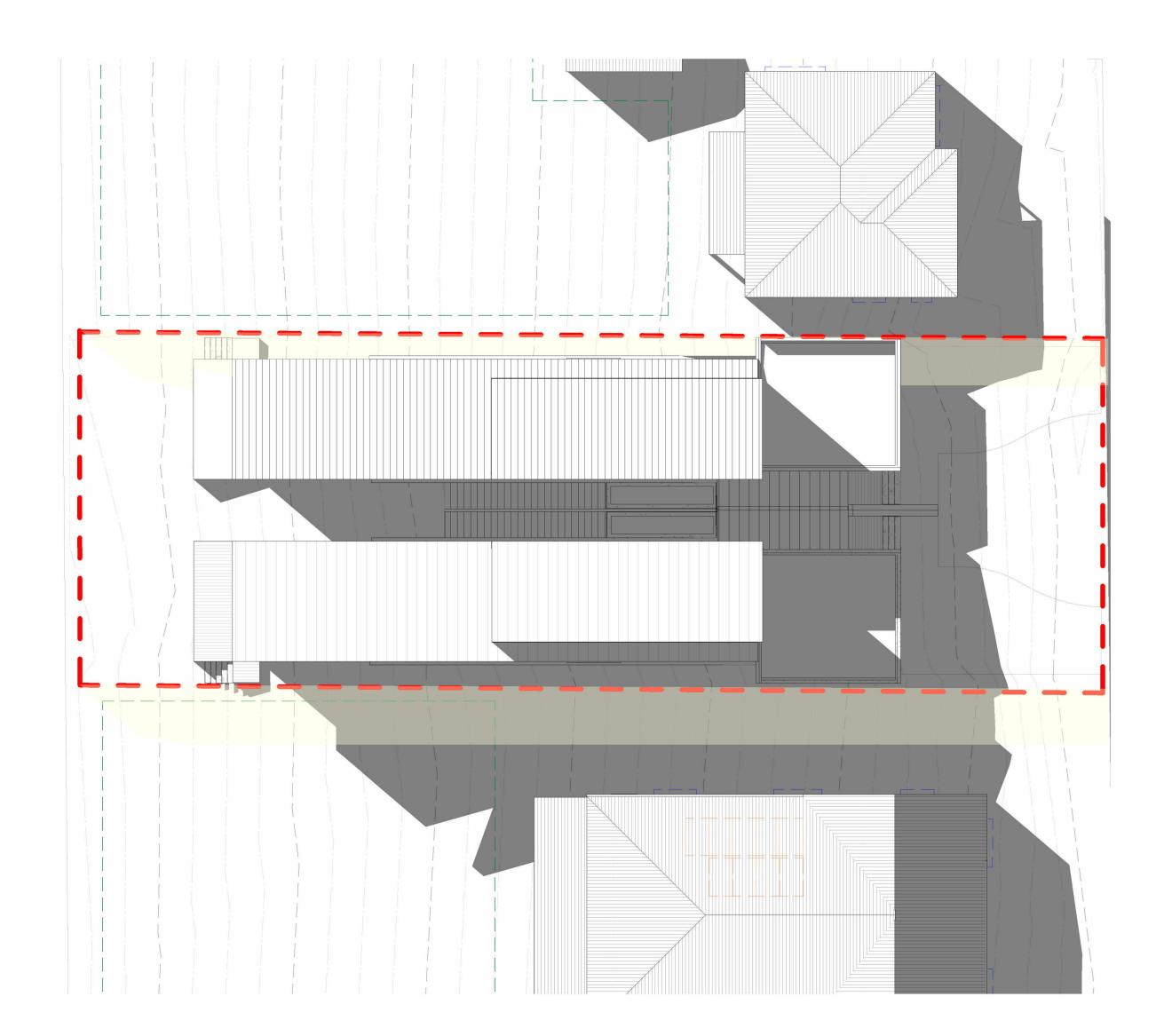
WINTER SOLSTICE DATE : 22 JUNE

SEASON : SEPTEMBER EQUINOX SCALE : 1: 150

SHADOW CAST KEY







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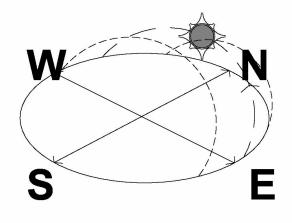
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WINTER SOLSTICE

DATE : 22 JUNE **SEASON : SEPTEMBER EQUINOX**

SCALE : 1: 150

SHADOW CAST KEY



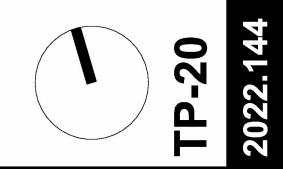
Drawing Title WINTER SOLSTICE 3PM SHADOW DIAGRAM

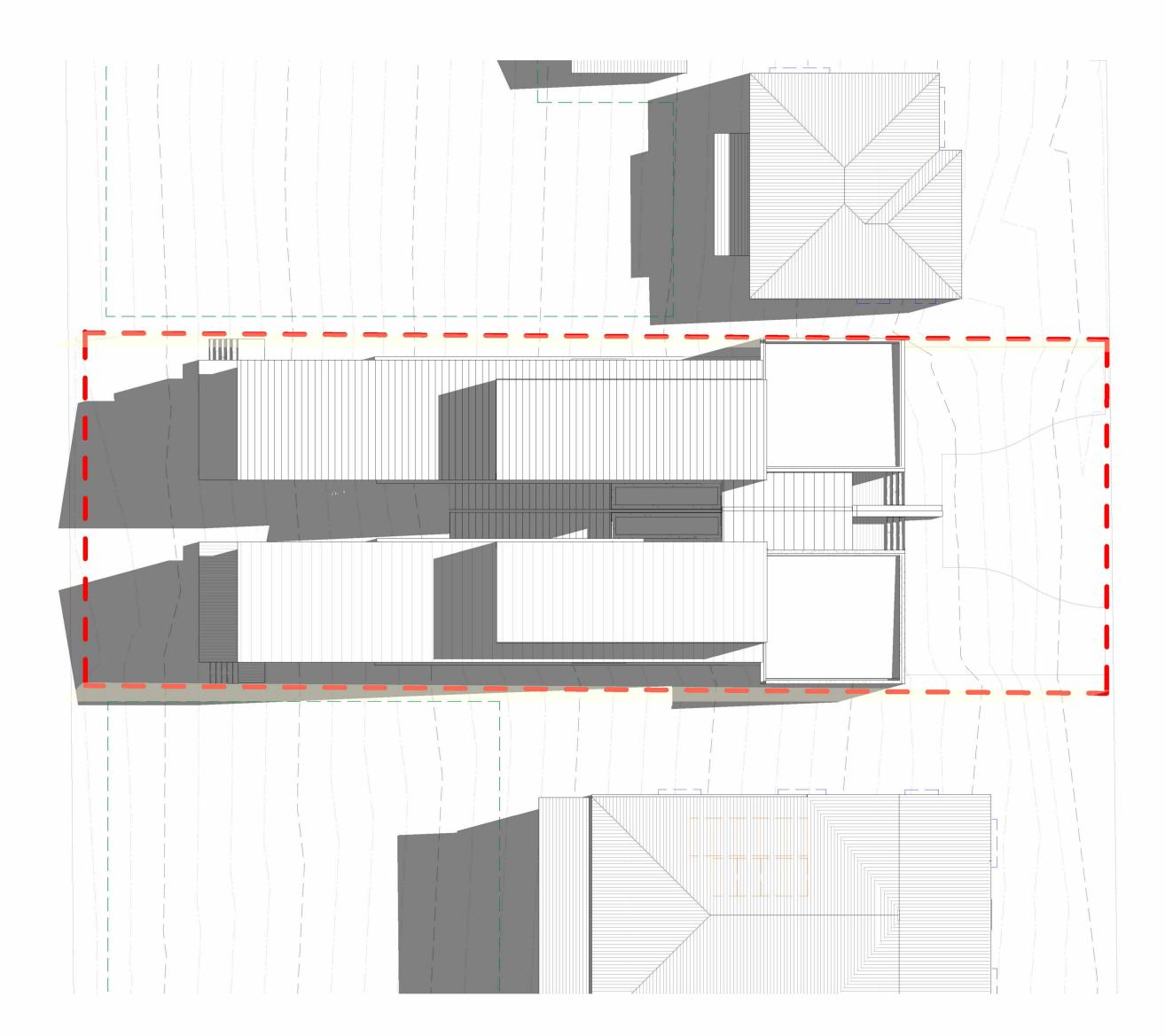
@ A2 Format 1:150

Detailed Design

Status

Revision V2.0 - Town Planning - 3rd October 2024





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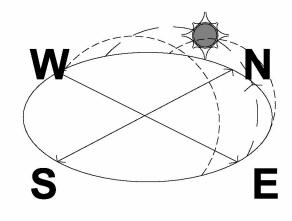
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Clients / Developers

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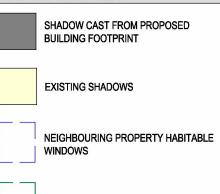


SUMMER SOLSTICE

DATE : 22 DECEMBER **SEASON : SUMMER SOLSTICE**

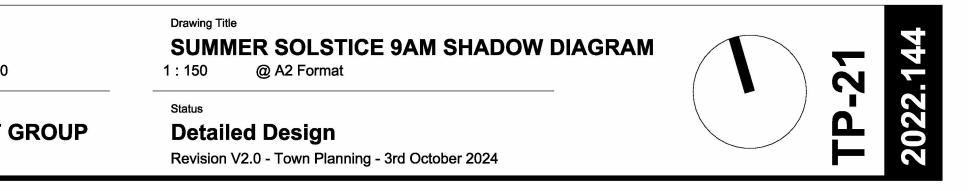
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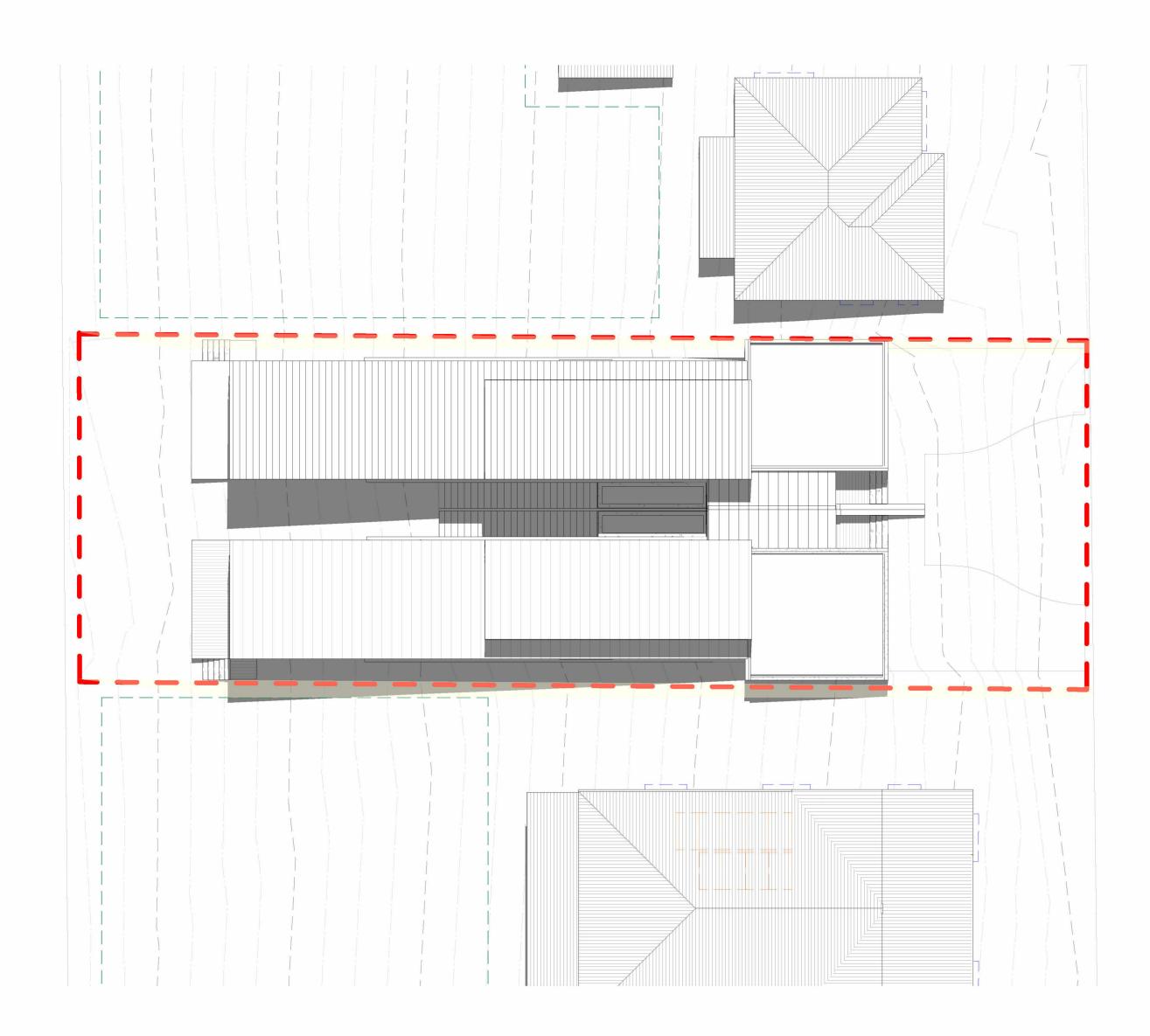
SHADOW CAST KEY



NEIGHBOURING PROPERTY SPOS

NEIGHBOURING PROPERTY SOLAR PANELS





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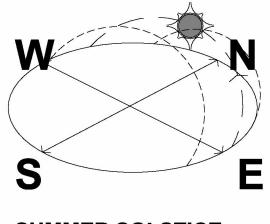
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Project Drawing Title **CHARLES TOWNHOUSES** 33 CHARLES ST, WARRAGUL, VIC 3820 @ A2 Format 1 : 150

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SUMMER SOLSTICE

DATE : 22 DECEMBER SEASON : SUMMER SOLSTICE

SCALE : 1: 150

SHADOW CAST KEY



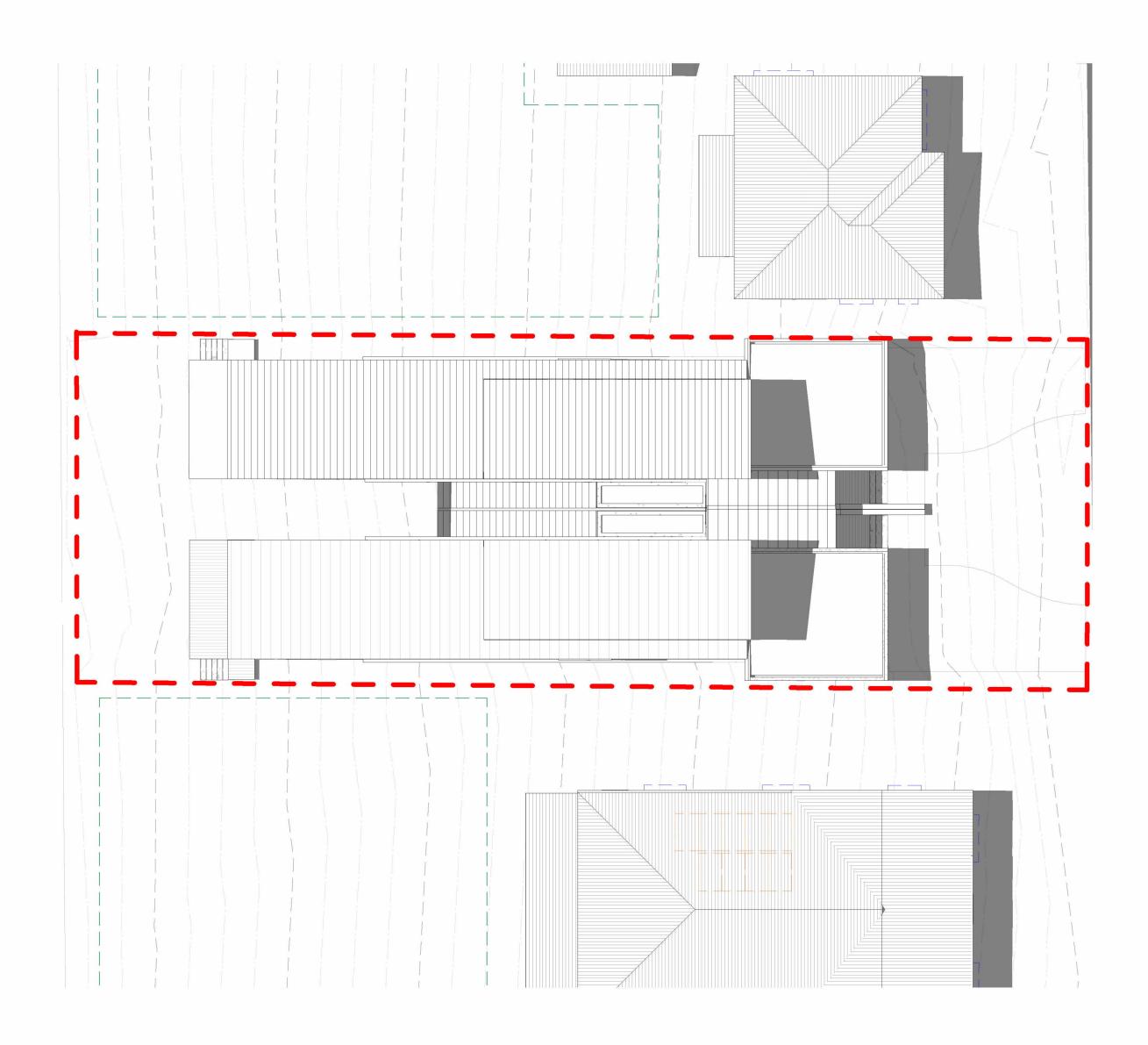
NEIGHBOURING PROPERTY SOLAR PANELS

SUMMER SOLSTICE 12PM SHADOW DIAGRAM

Status **Detailed Design**

2022.144 **FP-22**

Revision V2.0 - Town Planning - 3rd October 2024



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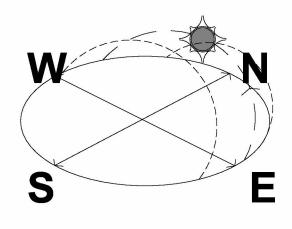
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Clients / Developers

MORGAN DEVELOPMENT GROUP

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SUMMER SOLSTICE

DATE : 22 DECEMBER
SEASON : SUMMER SOLSTICE

SCALE : 1: 150 SHADOW CAST KEY



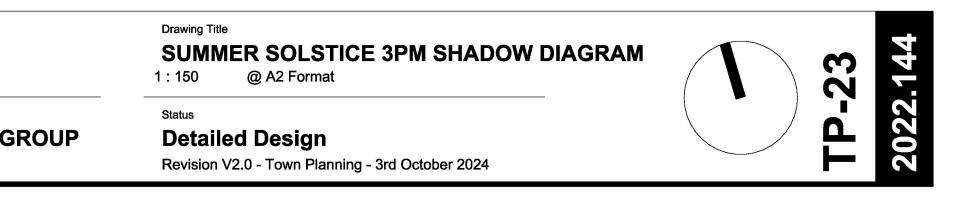
SHADOW CAST FROM PROPOSED BUILDING FOOTPRINT

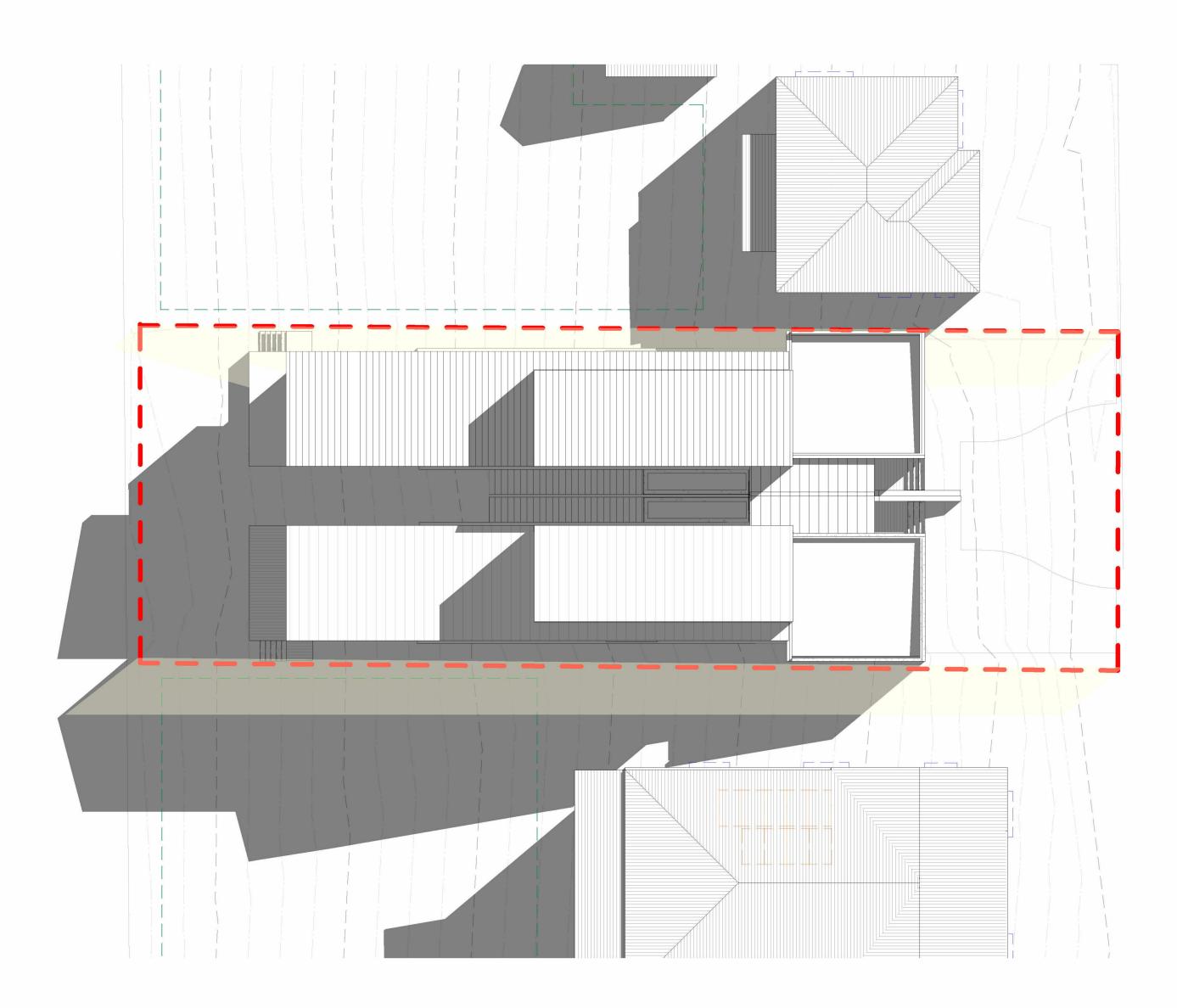
EXISTING SHADOWS

NEIGHBOURING PROPERTY HABITABLE WINDOWS

NEIGHBOURING PROPERTY SPOS

NEIGHBOURING PROPERTY SOLAR PANELS





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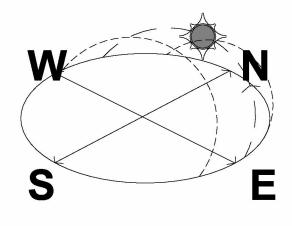
Project **CHARLES TOWNHOUSES**

33 CHARLES ST, WARRAGUL, VIC 3820

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MORGAN DEVELOPMENT GROUP

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SEPTEMBER EQUINOX

DATE : 22 SEPTEMBER

SEASON : SEPTEMBER EQUINOX SCALE : 1: 150

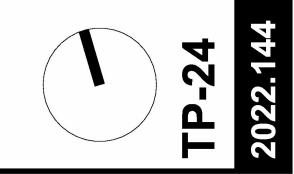
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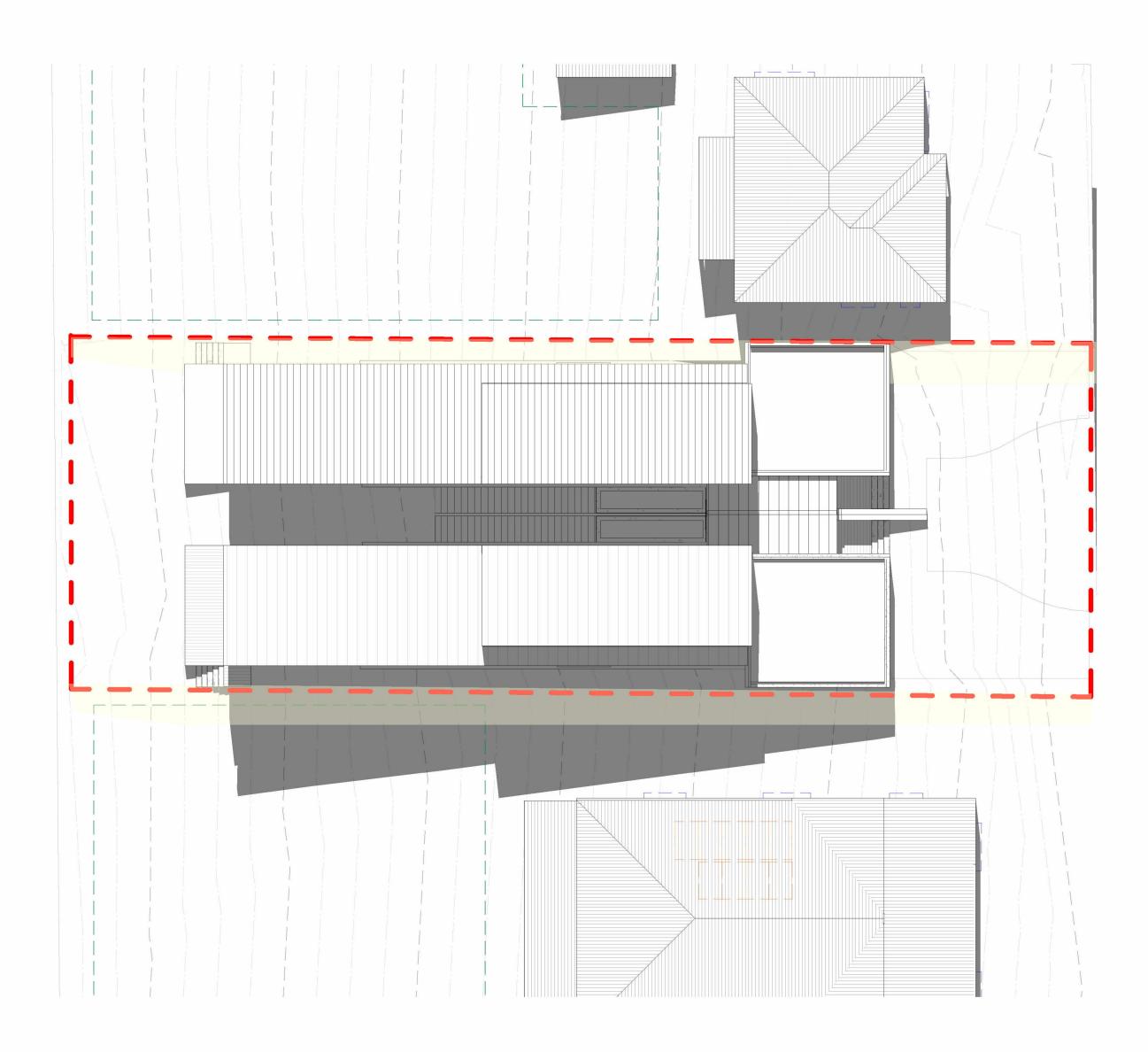


Drawing Title **EQUINOX 9AM SHADOW DIAGRAM** 1 : 150

@ A2 Format

Status





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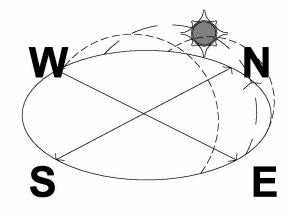
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Project **CHARLES TOWNHOUSES**

33 CHARLES ST, WARRAGUL, VIC 3820

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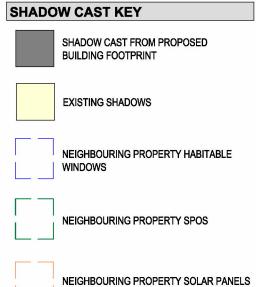
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SEPTEMBER EQUINOX

DATE : 22 SEPTEMBER

SEASON : SEPTEMBER EQUINOX SCALE : 1: 150

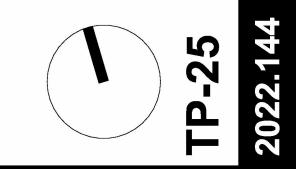


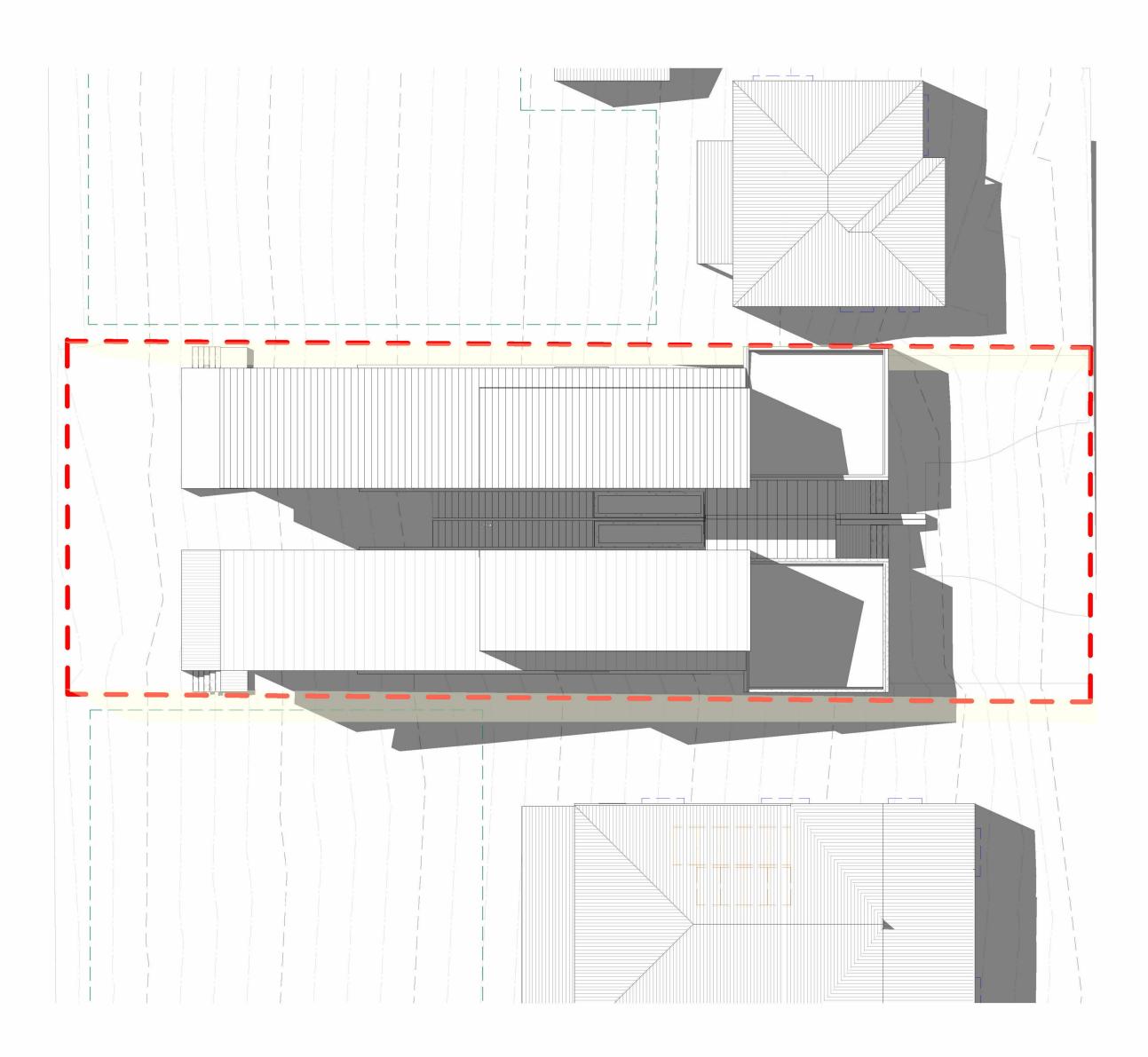
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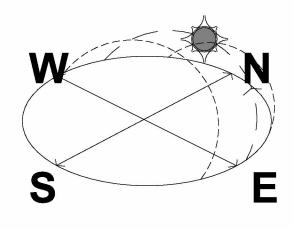
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Project **CHARLES TOWNHOUSES**

33 CHARLES ST, WARRAGUL, VIC 3820

Clients / Developers



SEPTEMBER EQUINOX

DATE : 22 SEPTEMBER

SEASON : SEPTEMBER EQUINOX SCALE : 1: 150

SHADOW CAST KEY

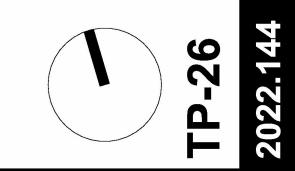


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3D Setback Envelope View 1



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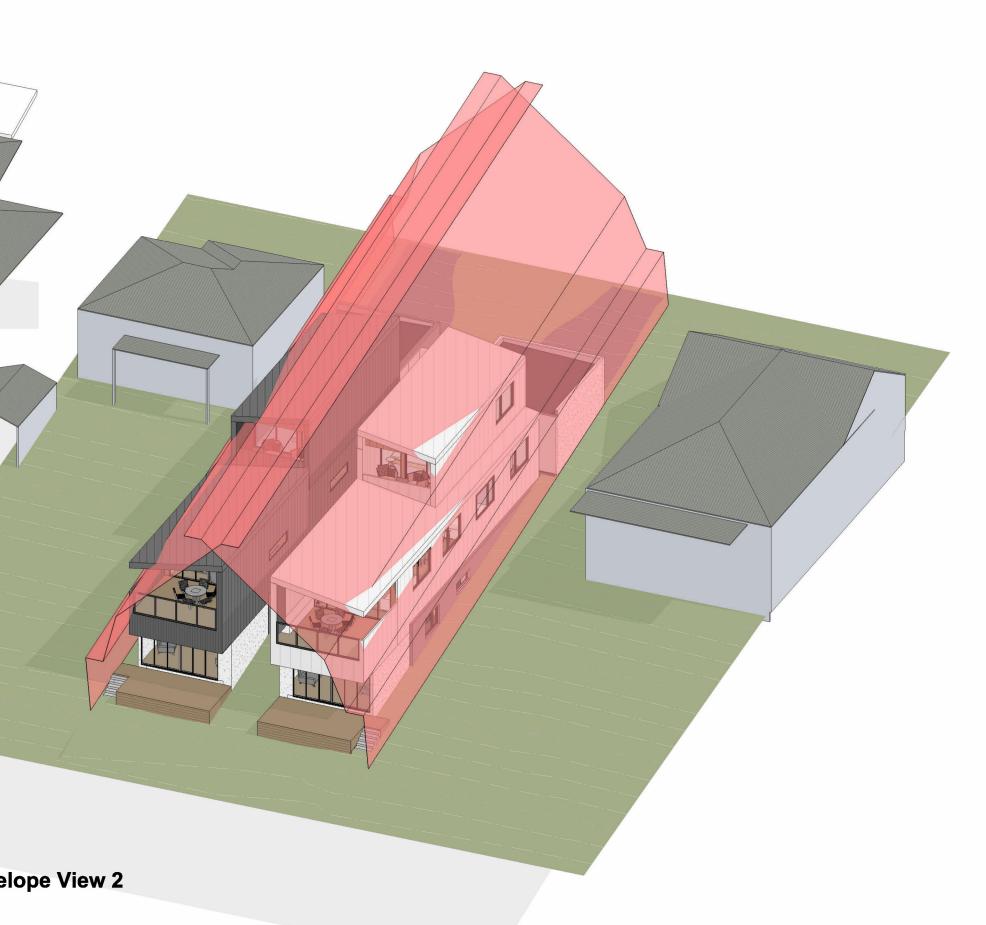
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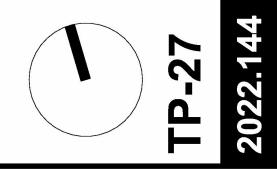
CHARLES TOWNHOUSES 33 CHARLES ST, WARRAGUL, VIC 3820

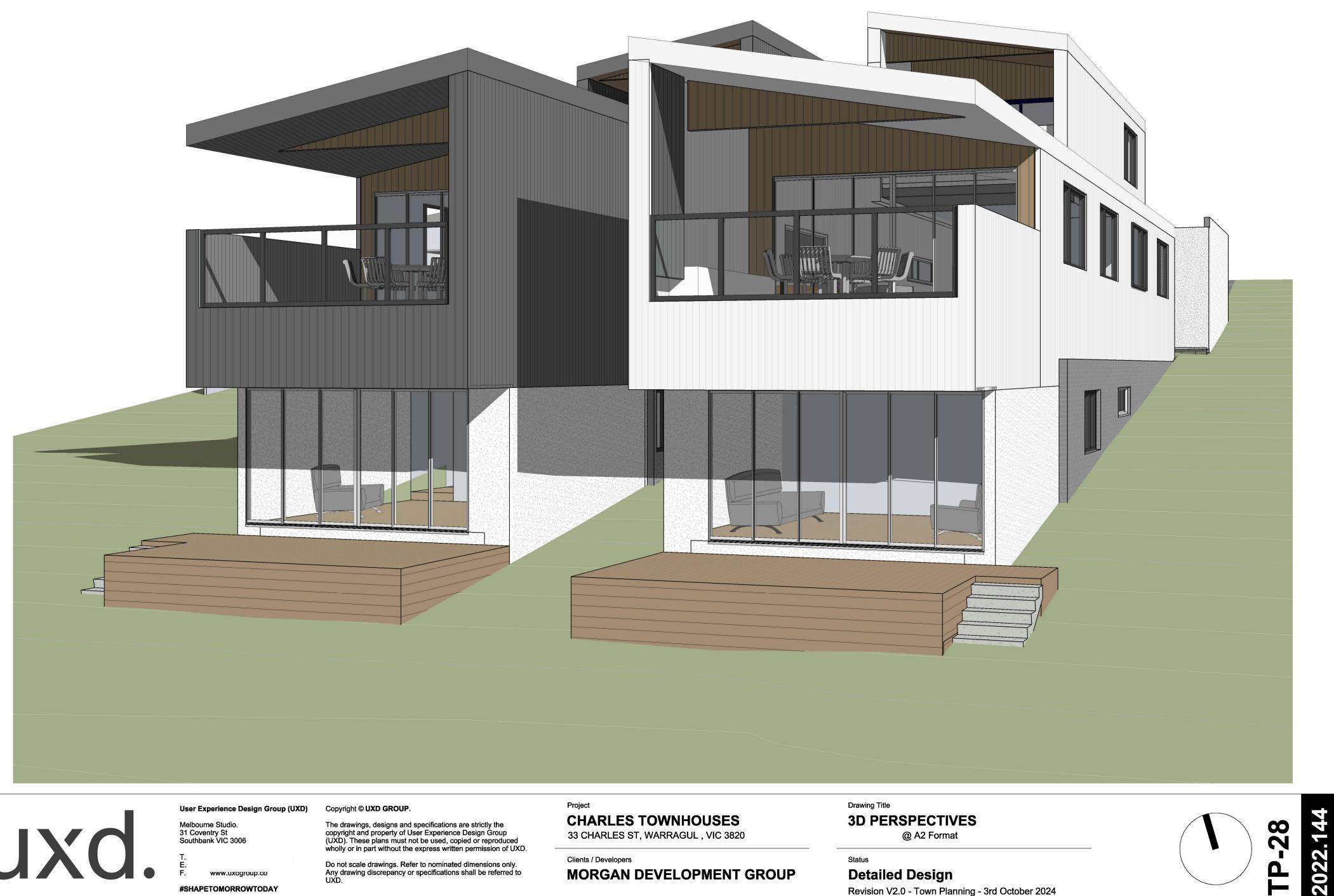
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Revision V2.0 - Town Planning - 3rd October 2024



Arboricultural Impact Assessment

Location:

33 Charles Street, Warragul

Report Commissioned by:

Morgan Development Group

Author:

Grad. Cert. Arb.

Arbkey ref: 24-08-15Charles33Warragul.docx Date submitted: October 1, 2024

arbkey

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1 Introduction

Arbkey has been engaged by Morgan Development Group to provide an Arboricultural Impact Assessment for trees likely to be affected by a proposed development at 33 Charles Street, Warragul. Arboricultural Impact Assessments are a procedure for determining the viability of trees at the design and review stage of a project. For the report arbkey has:

- Identified and assessed the trees, providing their location, species, dimensions, useful life expectancy and health and structural condition.
- Allocated each tree an arboricultural value, indicating its merit for retention throughout nearby disturbance.
- Calculated the size of the Tree Protection Zone (TPZ) in accordance with Australian Standard 4970, Protection of Trees on Development Sites.
- Calculated and provided comment regarding the impact of the proposed development to the trees TPZs and assessed the suitability for retention of all trees against the current development plans.
- Provided recommendations to protect any trees through the proposed developments.



2 Site Details

The subject site is a sloped, single occupancy residential property featuring a house building, carport and surrounding yards (Figure 1). Small to mid-sized trees are a feature of the rear yard of the site and are common within the adjacent properties and road reserves.



Figure 1: Subject site frontage

2.1 Development Proposal

Demolition of the existing buildings and construction of two (2) units is proposed.

2.2 Planning and Policy Context

The subject site is located within General Residential Zone - Schedule 1 of the Baw Baw Planning Scheme (DEECA 2024). Tree protection related planning overlays or local law are not applied to the site.

Due to their ownership, any trees within adjacent third-party owned property must remain viable throughout works at the subject site unless under agreement with the tree's respective owner. Modification of trees in adjacent property may also be subject to permit approval.

2.3 Site Map

A site map detailing existing conditions and tree locations has been provided in Appendix 1: Site Map



3 Methodology

On the 16 September 2024, Lachlan Scott undertook inspection of trees greater than 3m in height located at, or with tree protection zones (AS4970 2009) likely to intersect the property at, 33 Charles Street, Warragul. The following information was collected for the trees:

- Tree Species
- Tree Location
- Height (m)
- Crown Spread (m)
- Diameter at Breast Height (DBH) at 1.4m (cm)
- Diameter at Base (DAB) at just above the root flare (cm)
- Health
- Structure
- Significance
- Photographs of tree

Only a ground based visual inspection was undertaken of all trees according to the principles of Visual Tree Assessment and tree hazard assessment described in Harris, Clark and Matheny (1999) and Mattheck and Breloer (1994).

Tree location has been derived using a RTK corrected GNSS receiver.

Height was measured on site using an impulse laser accurate to +/- 30cm. Crown spread values or drawings are indicative of crown size only, not shape or form.

A diameter tape was used to measure DBH. To prevent trespass, DBH has been estimated on adjacent sites.

Health, Structure and Significance are qualitative values derived from visual indicators and the authors experience and qualifications.

Encroachment of TPZs by the development has been calculated using GIS software.

Full data collection definitions are available in Appendix 6: Data Definitions.

3.1 Documents Reviewed

Table 1: Documents reviewed to assist in the compilation of this report

Document Name	DWG/Document #	Author	Document Description	Date compiled/drawn
2022.144 33 CHARLES ST_TP (B140824)	2022.144	UXD Group	Site Plans	16 October 2023

4 Observations

4.1 Tree Details

65 trees were assessed, 45 on the site itself and 20 within adjacent third-party managed property (Table 2). Full details of the assessed trees have been provided in Appendix 2: Tree Details.

Genus Species	Common	Species	Count of	Tree IDs
	Name	Origin	Trees	
Pittosporum tenuifolium	Kohuhu	Exotic	53	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 27, 28, 29, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 48, 49, 50, 52, 53, 54, 55, 57, 58, 59, 61
Ligustrum lucidum	Privet	Exotic	2	47, 56
Brachychiton acerifolius	Flame Tree	Australian Native	1	1
Chimonanthus praecox	Winter Sweet	Exotic	1	60
Citrus limon	Lemon	Exotic	1	26
Cordyline australis	Cabbage Tree	Exotic	1	63
Cordyline australis "Purpurea"	Purple Cordyline	Exotic	1	62
Jacaranda mimosifolia	Jacaranda	Exotic	1	65
Juglans regia	Walnut	Exotic	1	14
Olea europaea	European Olive	Exotic	1	30
Prunus avium	Cherry	Exotic	1	51
Prunus cerasifera "Nigra"	Purple Cherry Plum	Exotic	1	64

Table 2: Count of assessed species and their respective species origin

5 Discussion

5.1 Arboricultural Value

All the assessed trees have been attributed an arboricultural value (Table 3). Arboricultural value is a calculated rating indicating the arboricultural merit of the tree for retention through any nearby disturbance. It is a qualitative combination of the trees ULE and significance values. Trees of higher arboricultural value should be prioritised for retention through works that may impact trees. Conversely, trees of low or no arboricultural value can often be removed to facilitate a development with little or no effect on wider landscape value.

Trees attributed an arboricultural value of 'Third Party Ownership' are located on adjacent land to the assessment. It is assumed that the owner of the tree attributes it a 'High' arboricultural value and requires its retention in the landscape.

Table 3: Overview of arboricultural value	Table 3:	Overview	of	arboricultural	value
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Arboricultural Value	Count	Tree IDs
Low	44	2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 16, 17, 18, 20, 21, 22, 24, 25, 26, 28, 29, 30, 31, 33, 34, 36, 37, 38, 40, 41, 42, 44, 46, 47, 49, 51, 52, 55, 56, 60, 62, 63
None	1	14
Third Party Ownership	20	1, 15, 19, 23, 27, 32, 35, 39, 43, 45, 48, 50, 53, 54, 57, 58, 59, 61, 64, 65

5.2 Tree Protection Zone (TPZ) and Structural Root Zone (SRZ)

AS4970 (2009) specifies areas drawn radially from each tree's stem which indicate the area required for its stability (SRZ) and viability (TPZ) throughout nearby disturbance such as development. Further information on TPZs and SRZs has provided in Appendix 7: Tree Protection Zones and Encroachment

5.2.1 TPZ and SRZ details

TPZ and SRZ details for all trees has been supplied in Appendix 3: TPZ and SRZ details.

5.3 Arboricultural Impact, TPZ Encroachment and Viability

5.3.1 Tree removal

All 45 trees on the site itself are proposed for removal under the current development plans (Table 4). Permit approval is not required for the removal of these trees .

Tree ID	Genus Species	Common Name	Arboricultural Value	Height (m)	Total DBH (cm)	DAB (cm)
2	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
3	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
4	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
5	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
6	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
7	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
8	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
9	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
10	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
11	Pittosporum tenuifolium	Kohuhu	Low	7	16.58	16
12	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
13	Pittosporum tenuifolium	Kohuhu	Low	5	8	9
14	Juglans regia	Walnut	None	6	18.03	21
16	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
17	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
18	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
20	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
21	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
22	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
24	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
25	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
26	Citrus limon	Lemon	Low	5	17	18
28	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
29	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
30	Olea europaea	European Olive	Low	6	18.92	20
31	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
33	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
34	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
36	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
37	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
38	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
40	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
41	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
42	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
44	Pittosporum tenuifolium	Kohuhu	Low	8	19.72	20
46	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
47	Ligustrum lucidum	Privet	Low	8	32.68	37
49	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
51	Prunus avium	Cherry	Low	7	15	18
52	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
55	Pittosporum tenuifolium	Kohuhu	Low	7	19.75	22
56	Ligustrum lucidum	Privet	Low	6	11.58	12
60	Chimonanthus praecox	Winter Sweet	Low	4	9.95	10
62	Cordyline australis "Purpurea"	Purple Cordyline	Low	6	17.38	17
63	Cordyline australis	Cabbage Tree	Low	4	14.07	10

Table 4: Trees proposed for removal, arboricultural value, and permit requirements.

5.3.2 Impact of design on trees to be retained

To assess the viability of the trees to be retained throughout the design's implementation, their TPZ and SRZ has been calculated and mapped as per AS4970 (2009). Where a development's footprint overlaps a TPZ it is termed 'encroachment' within AS4970 (2009).

18 trees have TPZ encroached by the proposed development's footprint (Table 5).

13 trees, Trees 32, 35, 39, 43, 45, 48, 50, 53, 54, 57, 58, 59 and 65, have TPZ encroached by less than 10% of their respective area by the proposed development footprint. Where encroachment of a respective TPZ is limited to less than 10% of its area it is termed 'Minor Encroachment'. Minor encroachment and corresponding variations to a TPZ are considered acceptable while the lost area is compensated elsewhere while still being contiguous with the TPZ. These trees are expected to remain viable throughout the implementation of the design.

Five (5) trees, Trees 19, 23, 27, 61 and 64, have TPZ encroached by more than 10% of their respective area by the proposal. Where encroachment of the standard TPZ exceeds 10% of a TPZ it is termed 'Major Encroachment'. Major encroachment and corresponding variations to a TPZ can be considered acceptable providing the following conditions are met:

- The project arborist demonstrates the tree will remain viable through the encroachment.
- The lost area is compensated elsewhere while still being contiguous with the TPZ.

Tree ID	Genus Species	Common Name	TPZ Encroachment (%)	SRZ Encroachment?	Encroachment Classification
10	Pittosporum tenuifolium	Kohuhu	10.5	Yes	Major
23	Pittosporum tenuifolium	Kohuhu	23.7	Yes	Major
27	Pittosporum tenuifolium	Kohuhu	17.2	Yes	Major
32	Pittosporum tenuifolium	Kohuhu	6.7	Yes	Minor
35	Pittosporum tenuifolium	Kohuhu	6.7	Yes	Minor
39	Pittosporum tenuifolium	Kohuhu	6.9	Yes	Minor
43	Pittosporum tenuifolium	Kohuhu	7.2	Yes	Minor
45	Pittosporum tenuifolium	Kohuhu	7.4	Yes	Minor
48	Pittosporum tenuifolium	Kohuhu	7.7	Yes	Minor
50	Pittosporum tenuifolium	Kohuhu	8	Yes	Minor
53	Pittosporum tenuifolium	Kohuhu	8.2	Yes	Minor
54	Pittosporum tenuifolium	Kohuhu	8.5	Yes	Minor
57	Pittosporum tenuifolium	Kohuhu	8.8	Yes	Minor
58	Pittosporum tenuifolium	Kohuhu	9.1	Yes	Minor
59	Pittosporum tenuifolium	Kohuhu	9.3	Yes	Minor
61	Pittosporum tenuifolium	Kohuhu	13.1	Yes	Major
64	Prunus cerasifera "Nigra"	Purple Cherry Plum	20.4	Yes	Major
65	Jacaranda mimosifolia	Jacaranda	0.6	No	Minor

Table 5: Trees to be retained with TPZ encroached by development footprint (AS4970 2009)

The remaining trees to be retained are not encroached by the design footprint and will remain viable throughout its implementation.

5.3.3 TPZ, SRZ and Encroachment Map

Maps detailing the TPZ, SRZ and Encroachment have been provided in Appendix 4: TPZ, SRZ and Encroachment Map.

5.3.4 Mitigation measures

Where a tree's TPZ is majorly encroached by a development or disturbance, the project arborist must, if possible, demonstrate that the trees will remain viable throughout the implementation of the design or disturbance.

5.3.4.1 Trees 19, 23, 27, 61

Trees 19, 23, 27, 61 are third party Kohuhu (*Pittosporum tenuifolium*), with TPZ majorly encroached by either the proposed building footprint or proposed decking areas. Considering these trees' species' tolerance to below ground disturbance, their relatively low-level major encroachment of less than 20% (Trees 19, 27 and 61) or the low-impact construction proposed within their TPZ (Tree 23), these trees will remain viable throughout the works proposed within their TPZ with no encroachment mitigation measures required.

5.3.4.2 Tree 64

Tree 64, a Purple Cherry Plum (*Prunus cerasifera* "Nigra") street tree, has a TPZ majorly encroached by a proposed vehicle crossing. Considering the small setbacks involved and this tree's not-yet-mature state, Tree 64 would not be suitable for retention if the crossing was installed. Removal of this tree would be necessitated as this tree increased in size. Permission from this tree's owner, Baw Baw Shire Council, would be required prior to its removal.



Figure 2: Tree 64.

6 Conclusions and Recommendations

Demolition of the existing buildings and construction of two (2) units is currently proposed at 33 Charles Street, Warragul. Arbkey has been engaged to assess the impact of the development on the trees at or adjacent to the site. 65 trees were assessed, 45 on the site and 20 within adjacent property. All 45 trees on the site itself are proposed for removal under the development plans. Permit approval is not required for the removal of these trees .

To assess the viability of the trees to be retained throughout the design's implementation, their tree protection zone (TPZ) and structural root zone (SRZ) has been calculated and mapped as per AS4970 (2009). Where a development's footprint overlaps a TPZ it is termed 'encroachment' within AS4970 (2009). 18 of the trees to be retained have TPZ encroached by the proposed design footprint.

13 trees, Trees 32, 35, 39, 43, 45, 48, 50, 53, 54, 57, 58, 59 and 65, have TPZ encroached by less than 10% of their respective TPZ area, a level considered generally permissible under AS4970 (2009). These trees will remain viable throughout the implementation of the proposal.

Five (5) trees, Trees 19, 23, 27, 61 and 64, have TPZ encroached by greater than 10% of their respective TPZ area, a level considered major and generally intolerable under AS4970 (2009).

Trees 19, 23, 27, 61 are third party Kohuhu (*Pittosporum tenuifolium*), with TPZ majorly encroached by either the proposed building footprint or proposed decking areas. Considering these trees' species' tolerance to below ground disturbance, their relatively low-level major encroachment of less than 20% (Trees 19, 27 and 61) or the low-impact construction proposed within their TPZ (Tree 23), these trees will remain viable throughout the works proposed within their TPZ with no encroachment mitigation measures required.

Tree 64, a Purple Cherry Plum (*Prunus cerasifera* "Nigra") street tree, has a TPZ majorly encroached by a proposed vehicle crossing. Considering the small setbacks involved and this tree's not-yet-mature state, Tree 64 would not be suitable for retention if the crossing was installed. Removal of this tree would be necessitated as this tree increased in size. Permission from this tree's owner, Baw Baw Shire Council, would be required prior to its removal.

The remaining trees to be retained are not encroached by the design footprint and will remain viable throughout its implementation. It is recommended that:

- Trees that are unable to be retained through the development are removed prior to the commencement of construction but after the approval of final plans by the relevant authority.
- Prior to the commencement of any construction or demolition activities:
 - A Tree Protection Management Plan (TPMP) in accordance with AS4970 (2009) is prepared outlining the procedure for protecting any impacted trees throughout the implementation of the endorsed design.



7 References

AS 4373, 2007, Australian Standard, Pruning Amenity Trees, 2nd Edition Standards Australia

AS 4970, 2009, Australian Standard, Protection of Trees on Development Sites, Standards Australia

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IACA 2010, IACA Significance of a Tree, Assessment Rating System (STARS), Institute of Australian Consulting Arboriculturists, Australia

Mattheck, C. and Breloer, H. 1994, The body language of trees: a handbook for failure analysis, London: HMSO

8 Appendix 1: Site Map



Figure 3: Site Map – Existing Condition

Arboricultural Impact Assessment 33 Charles Street, Warragul



LEGEND

Assessed Trees

- High arboricultural value
- Medium arboricultural value
- Low or no arboricultural value
- Third party ownership

DEECA

Property Boundaries

- Roads

1:200 0 1 2 3 m





9 Appendix 2: Tree Details

Tree ID	Genus Species	Common Name	Species Origin	Height (m)	Crown Spread (m)	Total DBH (cm)	DAB (cm)	Health	Structure	Maturity	ULE (years)	Arboricultural Value	Notes
1	Brachychiton acerifolius	Flame Tree	Australian Native	6	3	26	30	Good	Good	Semi- mature	15 to 40	Third Party Ownership	
2	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
3	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
4	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
5	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
6	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
7	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
8	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
9	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
10	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
11	Pittosporum tenuifolium	Kohuhu	Exotic	7	2	16.58	16	Good	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
12	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
13	Pittosporum tenuifolium	Kohuhu	Exotic	5	1	8	9	Good	Good	Semi- mature	5 to 15	Low	
14	Juglans regia	Walnut	Exotic	6	5	18.03	21	Poor	Fair	Mature	0	None	
15	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
16	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
17	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
18	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
19	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
20	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
21	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
22	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
23	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
24	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
25	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
26	Citrus limon	Lemon	Exotic	5	3	17	18	Fair	Fair	Mature	5 to 15	Low	
27	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
28	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
29	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded

Table 6: Details of assessed trees

Arboricultural Impact Assessment 33 Charles Street, Warragul

Tree ID	Genus Species	Common Name	Species Origin	Height (m)	Crown Spread (m)	Total DBH (cm)	DAB (cm)	Health	Structure	Maturity	ULE (years)	Arboricultural Value	Notes
30	Olea europaea	European Olive	Exotic	6	5	18.92	20	Fair	Fair	Mature	5 to 15	Low	Privet growing amongst stems
31	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
32	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
33	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
34	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
35	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
36	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
37	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
38	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
39	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
40	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
41	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
42	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
43	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
44	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	19.72	20	Fair	Fair	Mature	5 to 15	Low	Group. Largest dbh recorded
45	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
46	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
47	Ligustrum lucidum	Privet	Exotic	8	3	32.68	37	Good	Fair	Mature	5 to 15	Low	
48	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
49	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
50	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
51	Prunus avium	Cherry	Exotic	7	3	15	18	Fair	Fair	Mature	5 to 15	Low	
52	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
53	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
54	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
55	Pittosporum tenuifolium	Kohuhu	Exotic	7	3	19.75	22	Good	Fair	Mature	5 to 15	Low	Screen against fence. Largest dbh recorded
56	Ligustrum lucidum	Privet	Exotic	6	2	11.58	12	Fair	Fair	Semi- mature	5 to 15	Low	Self set. Growing through deck
57	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
58	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
59	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence
60	Chimonanthus praecox	Winter Sweet	Exotic	4	3	9.95	10	Fair	Fair	Mature	5 to 15	Low	
61	Pittosporum tenuifolium	Kohuhu	Exotic	8	3	17	20	Good	Fair	Mature	5 to 15	Third Party Ownership	Group of 17 on fence



Arboricultural Impact Assessment 33 Charles Street, Warragul

Tree ID	Genus Species	Common Name	Species Origin	Height (m)	Crown Spread (m)	Total DBH (cm)	DAB (cm)	Health	Structure	Maturity	ULE (years)	Arboricultural Value	Notes
62	Cordyline australis "Purpurea"	Purple Cordyline	Exotic	6	2	17.38	17	Good	Fair	Mature	5 to 15	Low	
63	Cordyline australis	Cabbage Tree	Exotic	4	3	14.07	10	Good	Fair	Mature	5 to 15	Low	
64	Prunus cerasifera "Nigra"	Purple Cherry Plum	Exotic	3	1	4.47	8	Good	Good	Semi- mature	15 to 40	Third Party Ownership	
65	Jacaranda mimosifolia	Jacaranda	Exotic	7	11	54.89	54	Fair	Fair	Mature	>40	Third Party Ownership	

10 Appendix 3: TPZ and SRZ details

Table 7: TPZ and SRZ details of assessed trees (AS4970 2009)

Tree ID	Genus Species	Common Name	SRZ radius (m) AS4970	TPZ radius (m) AS4970	TPZ Area AS 4970 (m2)
1	Brachychiton acerifolius	Flame Tree	2	3.12	30.582
2	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
3	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
4	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
5	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
6	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
7	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
8	•	Kohuhu	1.53	2	12.566
8 9	Pittosporum tenuifolium			2	12.566
	Pittosporum tenuifolium	Kohuhu	1.53		
10	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
11	Pittosporum tenuifolium	Kohuhu	1.53	2	12.566
12	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
13	Pittosporum tenuifolium	Kohuhu	1.5	2	12.566
14	Juglans regia	Walnut	1.72	2.16	14.657
15	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
16	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
17	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
18	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
19	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
20	· · · · · · · · · · · · · · · · · · ·		1.08	2.04	
	Pittosporum tenuifolium	Kohuhu			17.646
21	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
22	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
23	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
24	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
25	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
26	Citrus limon	Lemon	1.61	2.04	13.074
27	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
28	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
29	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
	•				
30	Olea europaea	European Olive	1.68	2.27	16.188
31	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
32	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
33	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
34	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
35	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
36	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
37	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
38	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
39	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
40	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
40	Pittosporum tenuifolium	Kohuhu	1.08	2.37	17.646
	· · · · · · · · · · · · · · · · · · ·				
42	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
43	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
44	Pittosporum tenuifolium	Kohuhu	1.68	2.37	17.646
45	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
46	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
47	Ligustrum lucidum	Privet	2.18	3.92	48.275
48	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
49	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
50	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
50	Prunus avium	Cherry	1.61	2	12.566
51			1.01	2.37	
	Pittosporum tenuifolium	Kohuhu			17.646
53	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
54	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
55	Pittosporum tenuifolium	Kohuhu	1.75	2.37	17.646
56	Ligustrum lucidum	Privet	1.5	2	12.566
57	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
58	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
59	Pittosporum tenuifolium	Kohuhu	1.68	2.04	13.074
60	Chimonanthus praecox	Winter Sweet	1.5	2	12.566
~~	sinnonantinus praccox	WINCE SWEEL	1.68	2.04	12.300

Arboricultural Impact Assessment 33 Charles Street, Warragul

Tree ID	Genus Species	Common Name	SRZ radius (m) AS4970	TPZ radius (m) AS4970	TPZ Area AS 4970 (m2)
62	Cordyline australis "Purpurea"	Purple Cordyline	0	2	12.566
63	Cordyline australis	Cabbage Tree	0	2.5	19.635
64	Prunus cerasifera "Nigra"	Purple Cherry Plum	1.5	2	12.566
65	Jacaranda mimosifolia	Jacaranda	2.55	6.59	136.433



11 Appendix 4: TPZ, SRZ and Encroachment Map

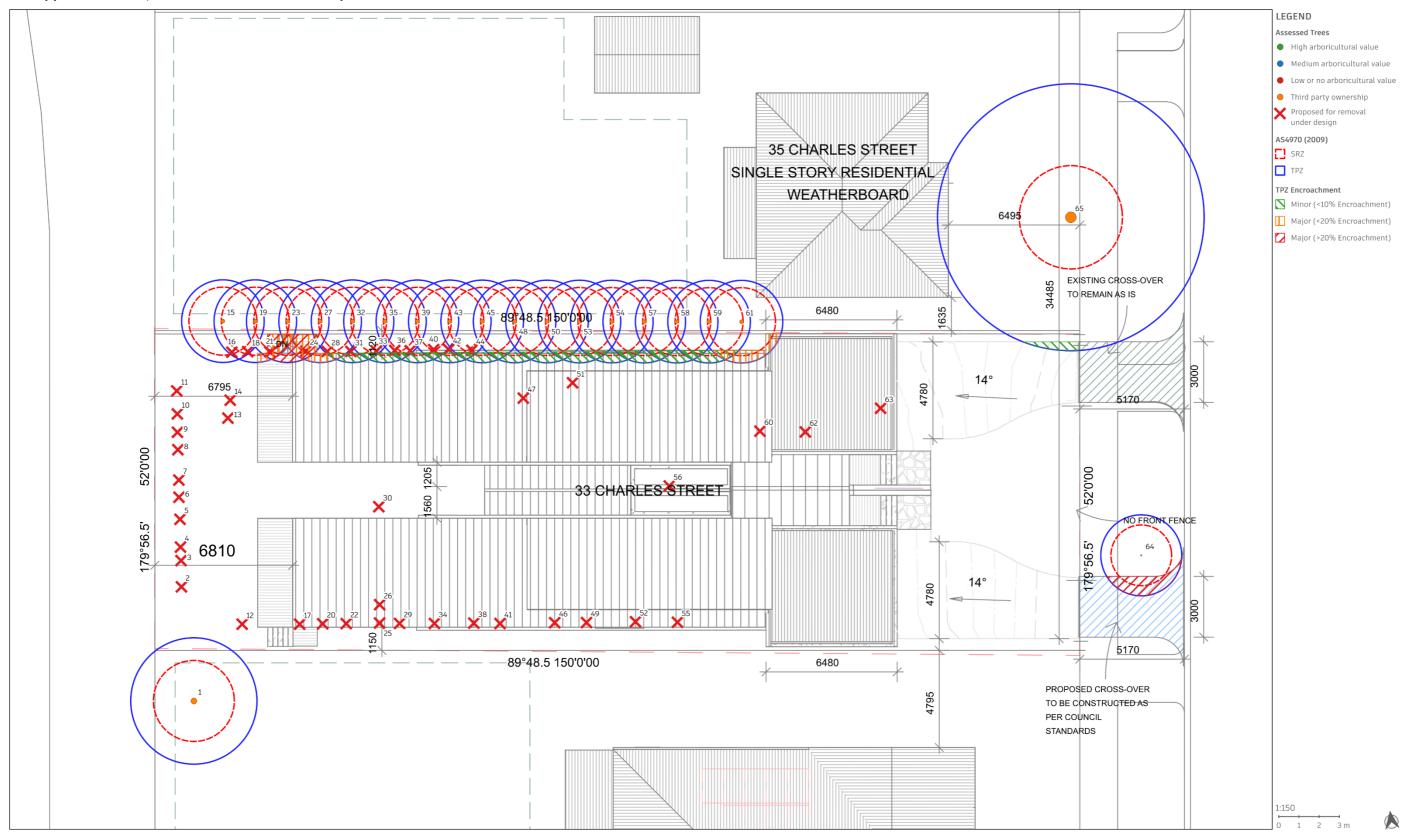


Figure 4: TPZ, SRZ and Encroachment Map

Arboricultural Impact Assessment 33 Charles Street, Warragul



12 Appendix 5: Tree Photos







Tree ID: 14

Tree ID: 15, 19, 23, 27, 32, 35, 39, 43, 45, 48, 50, 53, 54, 57, 58, 59, 61



Tree ID: 16, 18, 21, 24, 28, 31, 33, 36, 37, 40, 42, 44





Tree ID: 30

Tree ID: 47



Tree ID: 51







Tree ID: 63









13 Appendix 6: Data Definitions

DBH (Diameter at Breast Height) is measured at 1.4 m above ground level or calculated from the total stem area if the tree was multi-stemmed at 1.4m above ground level in accordance with AS 4970 (2009).

DAB (Diameter at Base) is measured just above the root collar of a tree in accordance with AS 4970 (2009)

Health summarises qualitative observations of canopy density, overall vigour and vitality made in the field:

- Good Canopy is visually dense with less than 10% dieback and shows no, or only very minor nutrient deficiencies, pest and disease presence or stress-induced epicormic growth.
- Fair Canopy is of average density, consists of between 10-30% dieback and shows a minor, or occasionally moderate, level of nutrient deficiency, pest and disease presence or stress-induced epicormic growth.
- Poor Canopy is visually sparse, consists of more than 30% dieback and typically has significant nutrient deficiency, pest and disease presence or stress induced epicormic growth.
- Dead No indication the tree is alive

Structure summarises qualitative observations of tree structure and stability made in the field:

- Good The tree's form is optimal for the species. Typically trees of 'Good' structure have no or only very minor trunk leans or canopy asymmetry. These trees have parts that are not structurally compromised by decay, cracks, or other structural faults. Structural failure of these trees is only likely only under strong and unusual weather events
- Fair The tree's structure includes minor structural defects that do not typically fail in light or moderate weather events. Typically trees of 'Fair' structure have minor trunk leans or slightly asymmetric canopies. These trees are likely to have parts that are partly compromised by decay or structural defects such as included bark.
- Poor The tree's structure includes major structural defects. Failure of these trees is considered possible under light or moderate weather events. Typically trees of 'Poor' structure have major trunk leans or heavily asymmetric canopies. These trees are likely to have parts that are heavily compromised by decay or structural defects such as included bark.

Maturity summarises the life stage of the tree.

- Juvenile The tree is in approximately the first 10% of its expected lifespan in its current environment
- Semi-mature Tree is 10%-20% through its expected lifespan in its current environment and has not yet reached its mature dimensions.
- Mature The tree is through 20%-90% of its expected lifespan in its current environment.
- Over-mature The tree is through approximately 90% of its expected lifespan in its current environment

ULE (Useful Life Expectancy) indicates the anticipated remaining years of lifespan of the tree in its existing surroundings. The tree's lifespan is the time that it will continue to provide amenity value without undue risk or hazard and with a reasonable amount of maintenance.

Significance indicates the importance a tree may have on a respective site. The following descriptors are used to derive this value (adapted from IACA 2010):

High -

- Tree is good condition and good vigour
- The tree has a form typical for the species
- The tree is a remnant specimen or is rare or uncommon in the local area or of botanical interest or substantial age
- The tree is listed as a heritage item or threatened species or listed on a municipal significant tree register
- The tree is visually prominent and visible from a considerable distance when viewed from most directions due to its size and scale. The tree makes a positive contribution to the local amenity.
- The tree supports social or cultural sentiments or spiritual associations or has commemorative values
- The tree is appropriate to the site conditions



Medium -

- The tree is in fair condition and good or low vigour
- The tree has form typical or atypical of the species
- The tree is a planted locally indigenous taxa or a common species within the area.
- The tree is visible from surrounding properties, although not visually prominent as partially obstructed by other vegetation or buildings when

Low -

- The is in fair condition and good or low vigour
- The tree has form atypical of the species.
- The tree is not visible or is partly visible from surrounding properties due to obstructions.
- The tree provides a minor contribution or has a negative impact on landscape amenity or character of the local area.

Dead/Irreversible Decline -

• The tree is structurally unsound or unstable

Third Party Ownership

• The tree is located on adjoining land to the assessment.

A tree is to meet several or all the criteria in a category to be classified in that group

Arboricultural Value is a calculated value indicating the merit of the tree for retention through any nearby developments. It is a qualitative combination of the trees ULE and Significance Values (Table 8).

	Significance Value										
		High	Medium	Low	Dead/Irreversible Decline	Third Party Ownership					
	>40 years	High	Medium	Low	Low	Third Party Ownership					
	15-40 years	High	Medium	Low	Low	Third Party Ownership					
ULE	5-15 years	High	Medium	Low	None	Third Party Ownership					
	<5 years	Medium	Low	None	None	Third Party Ownership					
	0 years	Low	None	None	None	Third Party Ownership					

Table 8: Matrix for the calculation of Arboricultural Value

- High –Trees attributed a 'High' arboricultural value are generally of strong visual amenity and significant in the landscape.
 The utmost level of consideration should be given for the retention of these trees throughout development activities and/or nearby disturbance
- Medium Trees attributed a 'Medium' arboricultural value are of moderate amenity value and have been attributed some
 value in the landscape. Trees attributed a 'Medium' arboricultural value should be retained and designed around during
 developments or nearby disturbance. If retention is not possible for these trees, removal and replacement can be often
 considered as an acceptable compromise.
- Low Trees attributed a Low arboricultural value are of poor arboricultural merit. Removal and replacement is an acceptable compromise if designing around these trees is not possible.
- None Trees attributed an arboricultural value of none have no arboricultural merit. Removal is usually acceptable or required for these trees.
- Third Party Ownership The tree is located on adjacent land to the assessment. It is assumed that the owner of the tree attributes it a High arboricultural value and requires its retention in the landscape.

viewed from a public space. The tree provides a moderate contribution to the amenity and character of the local area

- The tree is often partially restricted by above or below ground influences and/or resources.
- The tree is a juvenile specimen that can easily be replaced.
- The trees growth is severely restricted by above or below ground influences and/or resources.
- The tree has a feature that has potential to become structurally unsound.
- The tree is a listed as a noxious or environmental weed under state, federal or municipal policy
- The tree is dead or in irreversible decline

14 Appendix 7: Tree Protection Zones and Encroachment

14.1 Structural Root Zones (SRZ)

SRZs are an indication of the area surrounding the base of a tree that is required for its stability. AS 4970 (2009) provides a method to calculate the SRZ of trees: The SRZ is calculated as

(DAB×50)^{0.42}×0.64

For grass like trees such as palms or tree ferns; SRZs are not calculated.

14.2 Tree Protection Zone (TPZ)

A Tree Protection Zone (TPZ) is considered one of the most effective ways to ensure the retention of trees throughout development. The aim of a TPZ is to secure the space around the tree so that no above or below ground activities or developments can affect the integrity of the tree's root system or above ground parts.

AS 4970 (2009) provides a method for calculating the standard area of TPZ's. For all broadleaf trees, the radius of the TPZ is calculated as:

12 * DBH

For grass like trees such as palms or tree ferns; TPZs are calculated as:

Radius of extent of canopy + 1m,

Dead trees are attributed a TPZ of the same size as their SRZ as only their stability can now be protected and not their vigour

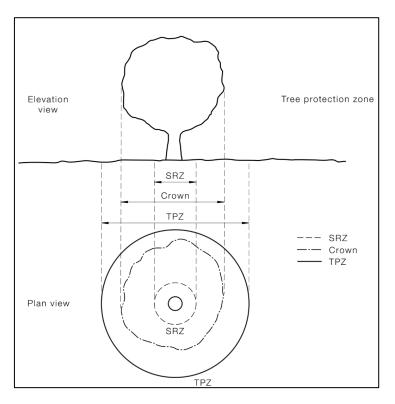


Figure 5: Diagram of TPZ and SRZ (AS 4970 2009)

14.2.1 TPZ Encroachment:

AS 4970 (2009) allows the extents of 'calculated' TPZs to be varied, under certain conditions, to allow varying levels encroachment into TPZs. Encroachment is the term given to the level of impact of the footprint of a disturbance (such as a development or construction activity) on the calculated TPZ of a tree. Two levels of encroachment are classified within AS 4970:

14.2.1.1 Minor Encroachment

Where encroachment of a respective TPZ is limited to less than 10% of a TPZs area it is termed 'Minor Encroachment'. Minor encroachment and corresponding variations to a TPZ **is** considered acceptable while the lost area is compensated elsewhere while still being contiguous with the TPZ.

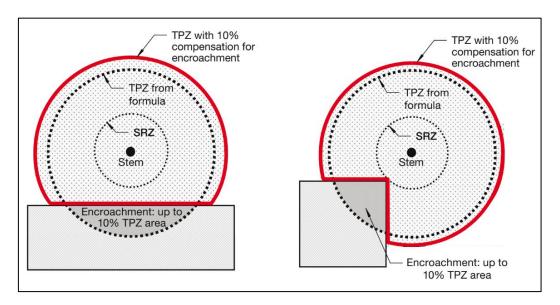


Figure 6: Examples of Minor TPZ encroachment and contiguous TPZ compensation (AS 4970 2009)

14.2.1.2 Major Encroachment

Where encroachment of the standard TPZ exceeds 10% of a TPZ it is termed 'Major Encroachment'. Major encroachment and corresponding variations to a TPZ <u>can</u> be considered acceptable providing the following conditions are met:

- The project arborist demonstrates the tree will remain viable through the encroachment.
- The lost area is compensated elsewhere while still being contiguous with the TPZ.

Regardless of encroachment, final TPZs and tree protection requirements should be clear to all parties during the entire construction process. Ideally all tree protection requirements should be outlined within a Tree Protection Management Plan (TPMP), prepared by a suitably qualified arborist, prior to the commencement of any construction activities

14.2.2 Tree Protection Fencing

Tree protection fencing should be installed around the final area of the TPZs of trees to be retained. Fencing should always be installed before the commencement of any construction activities and secured for the life of the construction. TPZ fencing should consist of chain mesh fencing of a minimum of 1.8m in height connected by temporary concrete footings. Where applicable, a finer mesh such as shade cloth should be applied to prevent airborne contaminants entering the TPZ. Warning signs should be erected at regular intervals along the entire length of any TPZ fencing.

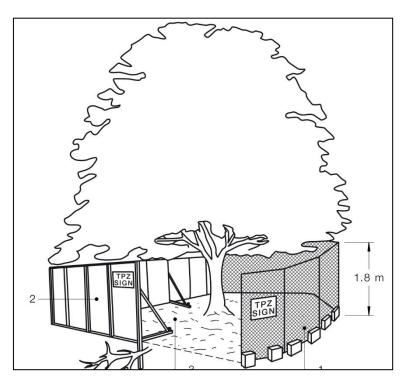


Figure 7: Examples of TPZ fencing (AS 4970 2009)

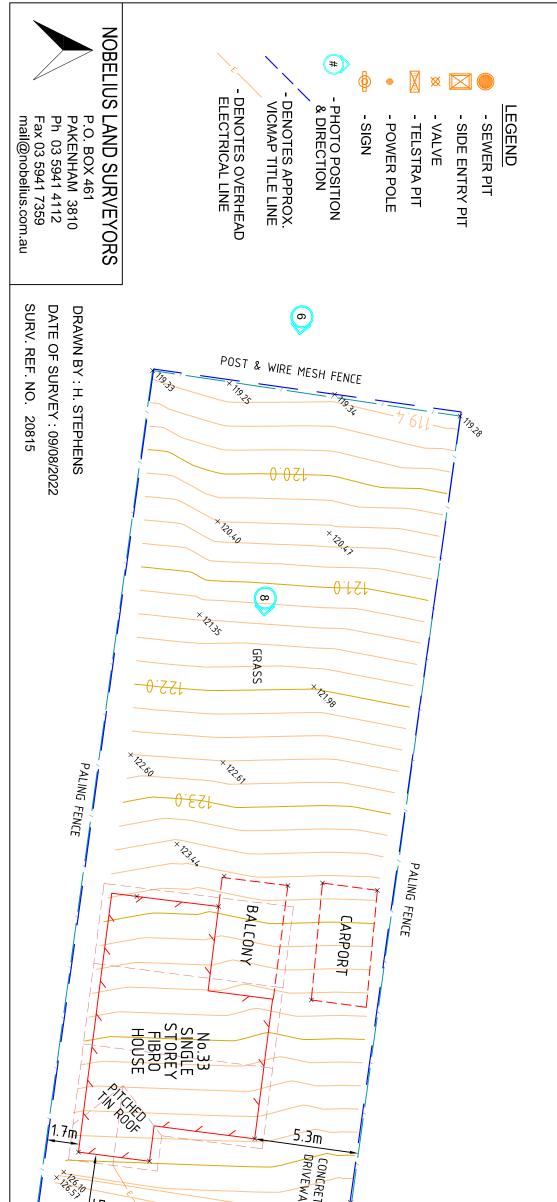
If the installation of tree protection fencing is not possible; alternative methods for protection of above and below grounds tree parts such a ground protection and physical barriers can be considered at the discretion of the project arborist.

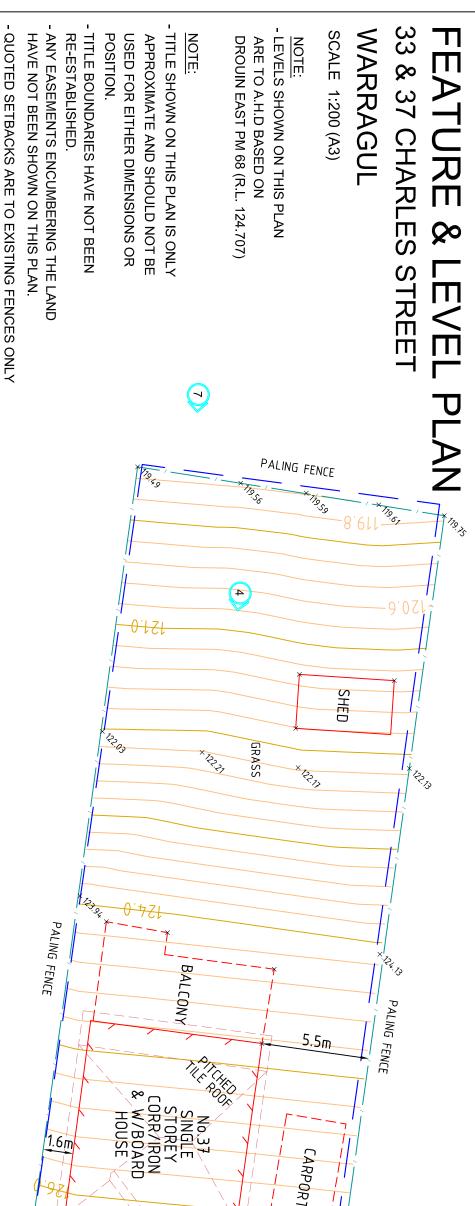
14.2.2.1 General Tree Protection Guidelines

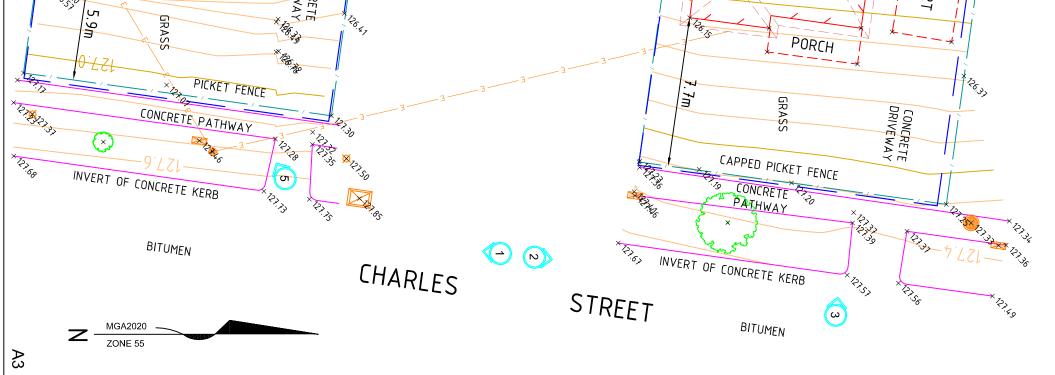
The following recommendations have been provided to as best practice guidelines to the establishment of a TPZ during the length of construction activities.

Exclude the following from taking place within any TPZ (adapted from AS 4970-2009):

- built structures or hard landscape features (i.e. paving, retaining walls)
- materials storage (i.e. equipment, fuel, building waste or rubble)
- soil disturbance (i.e. stripping or grade changes)
- excavation works including soil cultivation (specifically surface-dug trenches for underground utilities)
- placement of fill
- lighting of fires
- preparation of chemicals, including preparation of cement products
- pedestrian or vehicular access (i.e. pathways).









The Victorian Government acknowledges the Traditional Owners of Victoria and pays respects to their ongoing connection to their Country, History and Culture. The Victorian Government extends this respect to their Elders, past, present and emerging.

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