APPENDIX ONE - LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES - UPPER HUTT CITY

PINEHAVEN STREAM IMPROVEMENT WORKS FOR WELLINGTON WATER / JACOBS 24 SEPTEMBER 2019 / PROJECT NO. 2017\_009

REVISION D (STATUS - FINAL)



















#### **PROJECT NAME**

Project no:	2017_009
Document title:	Landscape and Visual Impact Assessment
Revision:	D
Date:	24 September 2019
Client name:	Wellington Water / Jacobs

Author: David Compton-Moen

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#### DOCUMENT HISTORY AND STATUS

REVISION	DATE	DESCRIPTION	ВҮ	REVIEW	APPROVED
А	26/07/2019	Draft LVIA Report	DCM		
В	07/08/2019	Draft LVIA Report	DCM		
С	18/09/2019	LVIA Report	DCM		
D	24/09/2019	LVIA Report	DCM		

# CONTENTS

PROPOSAL - LOCATION PLAN
PROPOSAL - EXISTING TOPOGRAPHY
CONTEXT - DISTRICT PLAN ZONING MAP
CONTEXT - EXISTING URBAN DEVELOPMENT
LOCATION PLAN AND KEY VIEWPOINT LOCAT
KEY VIEWPOINT LOCATIONS
MITIGATION MEASURES - PLANT PALETTE
MITIGATION MEASURES - CROSS SECTIONS 1-5
LANDSCAPE PLANTING PLANS
LANDSCAPE PLANT SCHEDULE
PHOTO MONTAGE FROM PINEHAVEN RESERVE
WILLOW PARK CONCEPT ILLUSTRATION







#### DCM URBAN DESIGN LIMITED

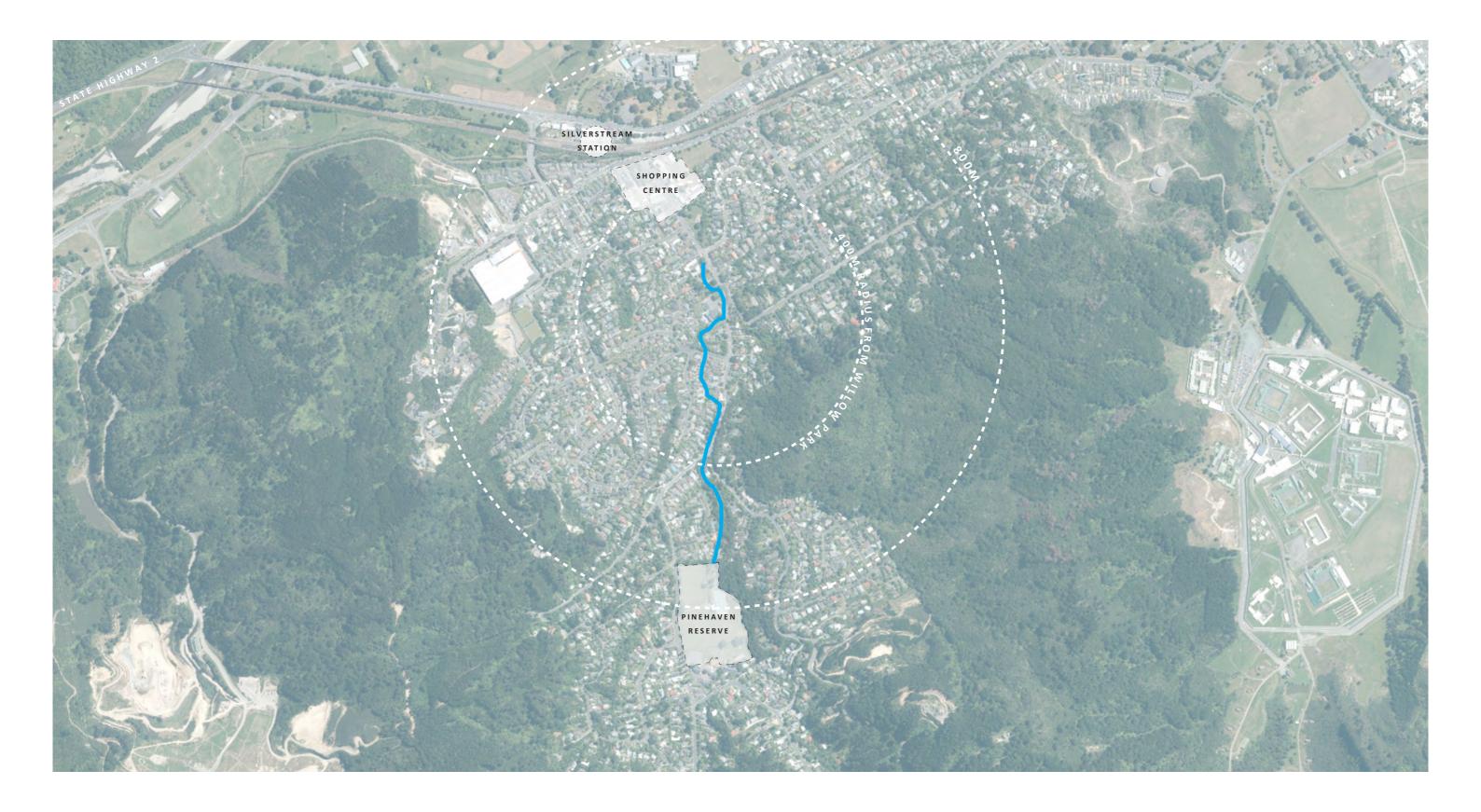
Level 3, 329 Durham Street North Christchurch 8013

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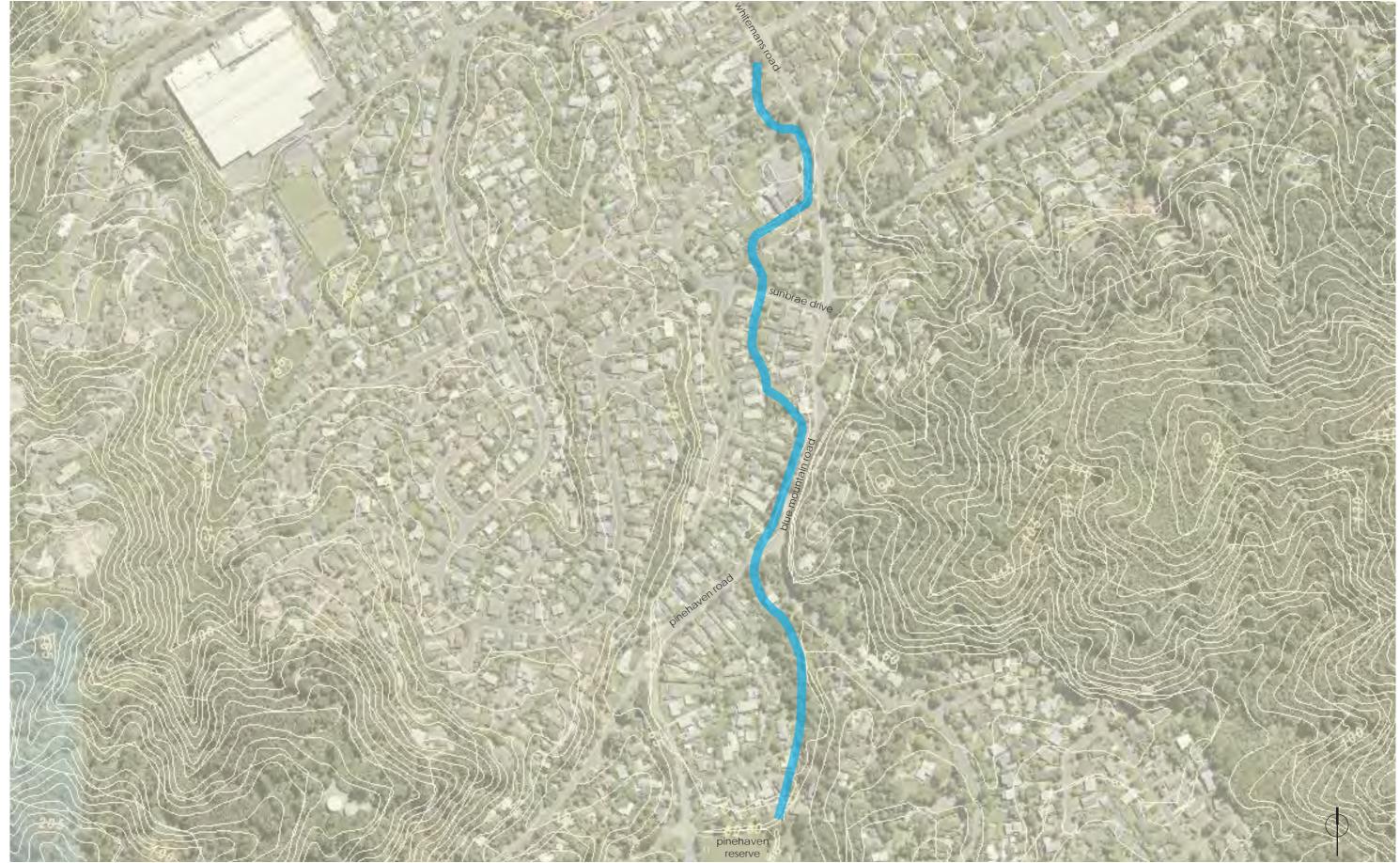
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aerial map source: Greater Wellington GIS - 1:10000 @ A3

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES CONTEXT - EXISTING BASELINE CHARACTER

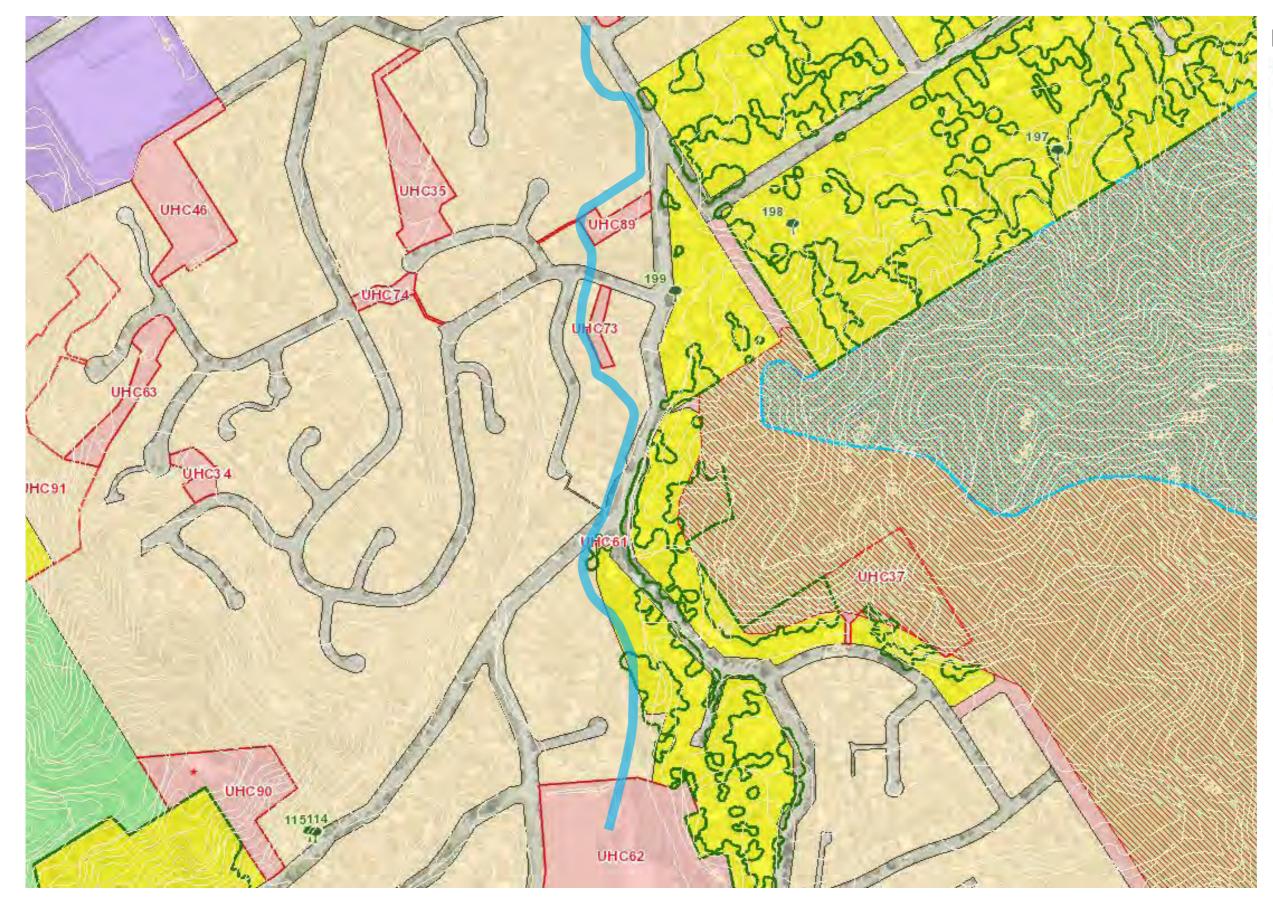




A. TOPOGRAPHICAL PLAN 1:4000 map source: Xplorer, Upper Hutt City Council - 5m contour lines

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES

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#### A. DISTRICT PLAN ZONING MAP 1:4000

map source: Upper Hutt City Council

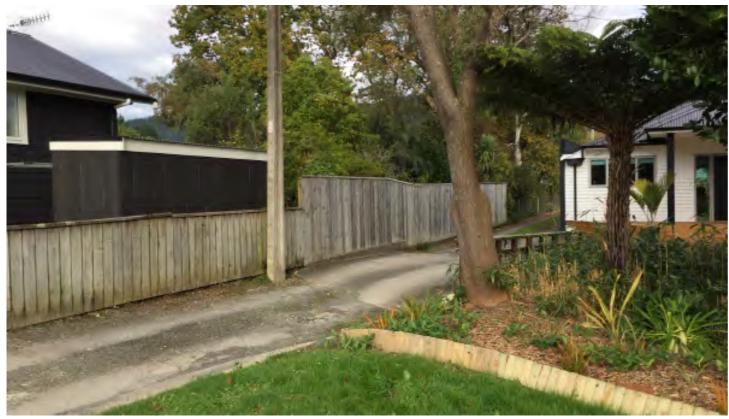
LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES

0

# LEGEND

Distri	ct Plan Zones
	Business Commercial
	Business Industrial
	Open Space
	Residential
	Residential Conservation
	Residential Hill
	Rural Hill
	Rural Hill Blue Mountains
	Rural Lifestyle
	Rural Valley Floor
	Special Activity





The urban form is typified by small to medium sized, single storey detached residential dwellings on sites ranging in size A from 450m<sup>2</sup> up to 2,000m<sup>2</sup> with some two storey dwellings



Most dwellings in the surrounding area have well maintained landscape plantings and lawn. This photo is of Blue Mountains Road which 'straddles' the stream and is to be removed as part of the improvement works.



Most properties have limited or no front fencing resulting in a relatively open character



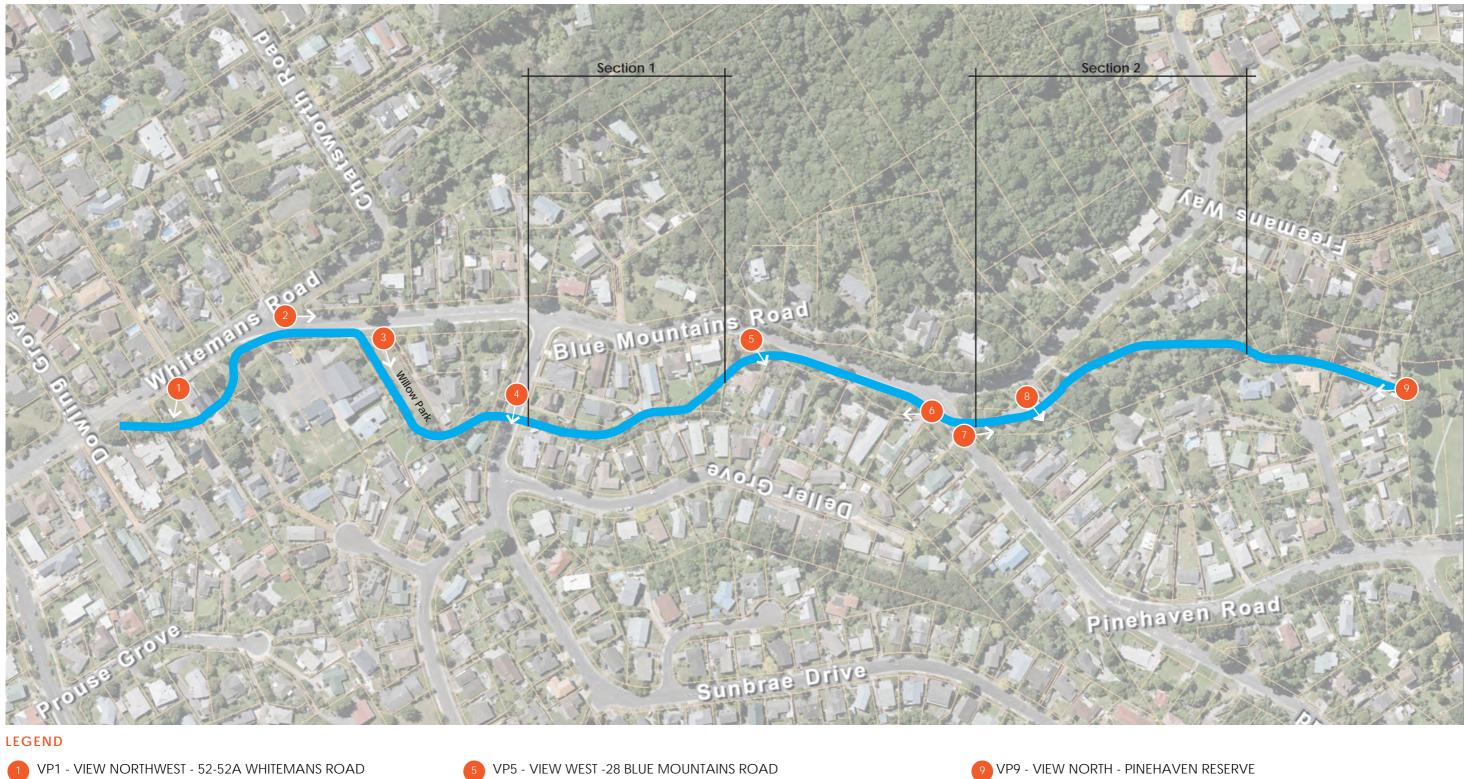
There is a high level of amenity planting, trees and vegetation D within Pinehaven



and care

### LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES CONTEXT - EXISTING URBAN DEVELOPMENT

Surrounding properties display a moderate degree of stewardship



- 6 VP6 VIEW NORTH 40 BLUE MOUNTAINS ROAD
- VP7 VIEW SOUTH CORNER BLUE MOUNTAINS AND PINEHAVEN ROADS
- <sup>8</sup> VP8 VIEW SOUTHWEST 48 WHITEMANS ROADE

### LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES LOCATION PLAN AND KEY VIEWPOINT LOCATIONS

2 VP2 - VIEW SOUTH - SILVERSTREAM REFORMED CHURCH

<sup>3</sup> VP3 - VIEW WEST - WILLOW PARK ENTRANCE

map source: Xplorer, Upper Hutt City Council 1:2500

VP4 - VIEW WEST - SUNBRAE DRIVE



A. IMAGE LOCATION



1. EXISTING VIEW

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES VP1 - VIEW NORTHWEST - 52-52A WHITEMANS ROAD Image captured on IPhone 6 Focal length of 29mm. Date: 16th May 2017 at 10:33 am. Height of 1.7 metres NORTHING EASTING 41°9'1.67"S 175°0'51.53"E Photos merged in Photoshop CS to create panorama



A. IMAGE LOCATION

B. EXISTING VIEW



2 VP2 - VIEW SOUTH - SILVERSTREAM REFORMED CHURCH

Image captured on SONY Alpha A7 II Focal length of 50mm. Date: 27th September 2018 at 11:43 am. Height of 1.7 metres NORTHING EASTING Photos merged in Photoshop CS to create panorama

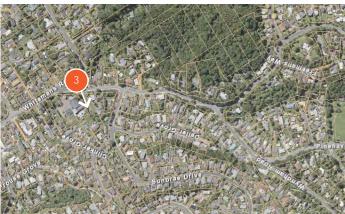


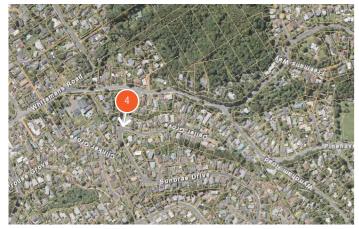
Image captured on IPhone XS MAX Focal length of 26mm. Date: 4th July 2019 at 2:52 pm. Height of 1.7 metres NORTHING EASTING 41°9'6.02″S 175°0'53.23″E Photos merged in Photoshop CS to create panorama

B. EXISTING VIEW









A. IMAGE LOCATION



B. EXISTING VIEW

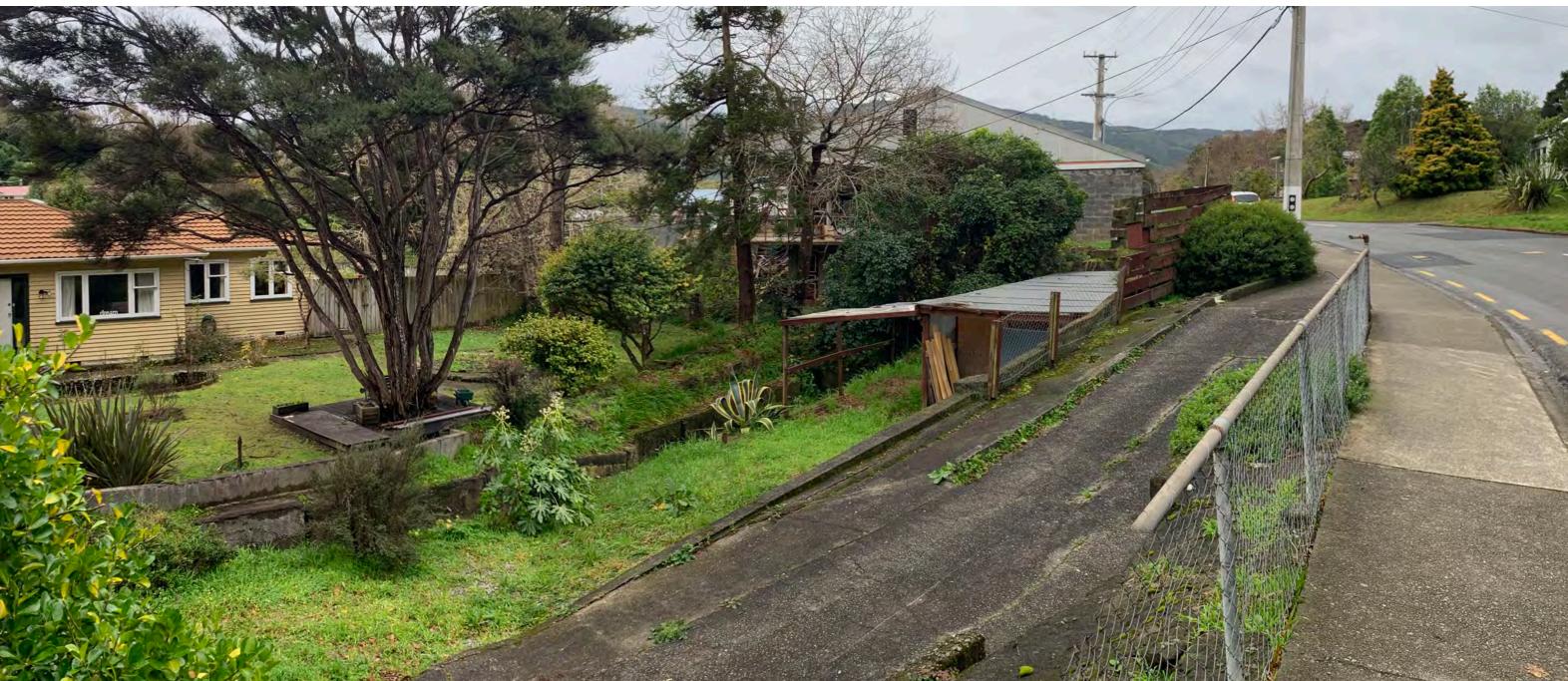
4 VP4 - VIEW WEST - SUNBRAE DRIVE

Image captured on IPhone XS MAX Focal length of 26mm. Date: 4th July 2019 at 2:48 pm. Height of 1.7 metres NORTHING EASTING 41°9'9.41"S 175°0'51.64"E Photos merged in Photoshop CS to create panorama

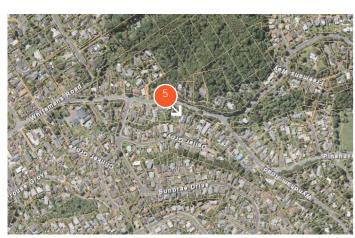


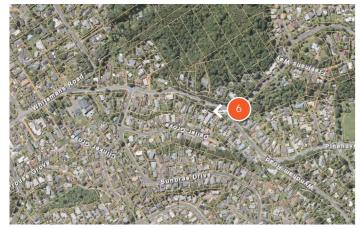
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B. EXISTING VIEW

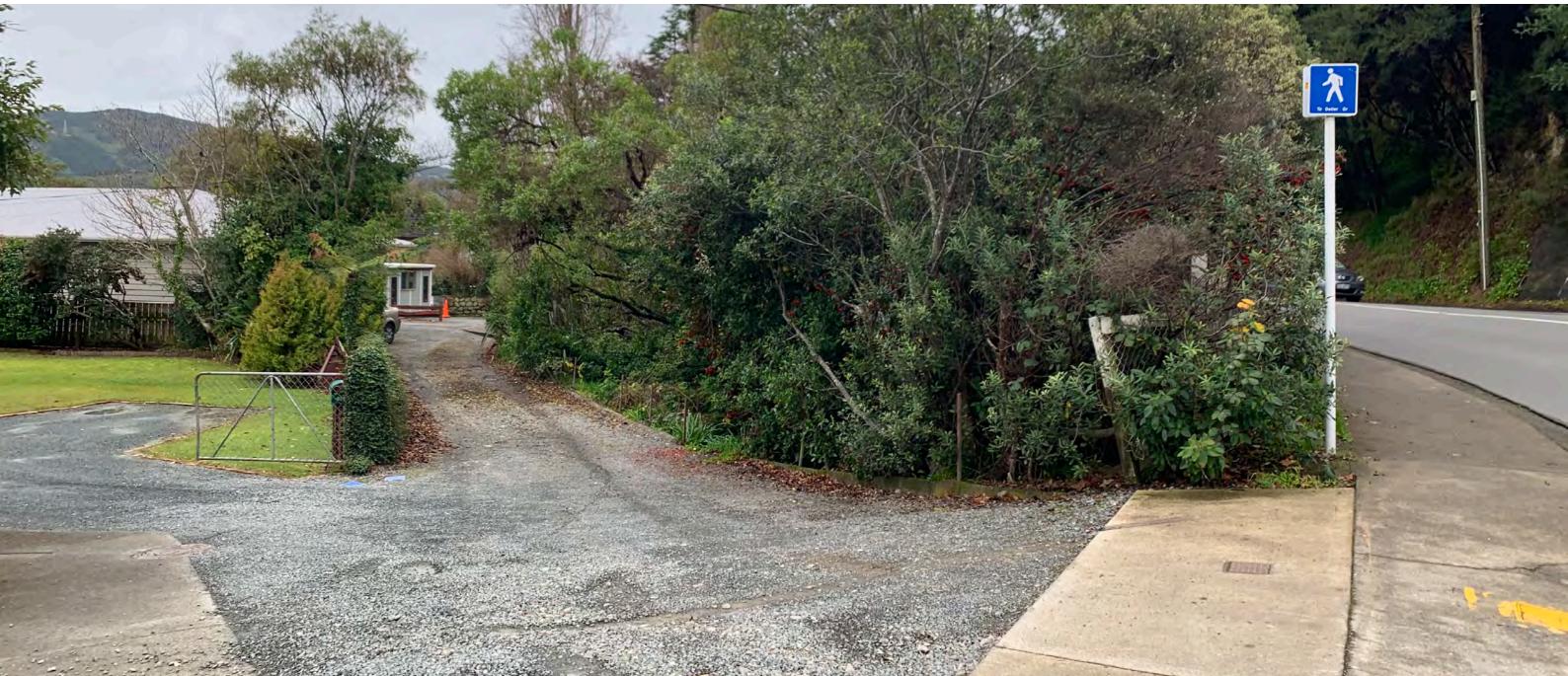








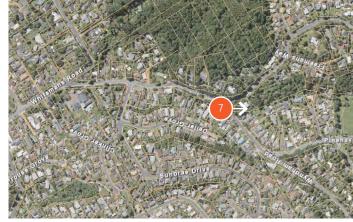
A. IMAGE LOCATION



B. EXISTING VIEW

6 VP6 - VIEW NORTH - 40 BLUE MOUNTAINS ROAD

Image captured on IPhone XS MAX Focal length of 26mm. Date: 4th July 2019 at 2:39 pm. Height of 1.7 metres NORTHING EASTING 41°9'18.26"S 175°0'51.19"E Photos merged in Photoshop CS to create panorama



A. IMAGE LOCATION



7 VP7 - VIEW SOUTH - CORNER BLUE MOUNTAINS AND PINEHAVEN ROADS

Image captured on IPhone XS MAX Focal length of 26mm. Date: 4th July 2018 at 2:39 pm. Height of 1.7 metres NORTHING EASTING 41°9'18.01"S 175°0'51.53"E Photos merged in Photoshop CS to create panorama

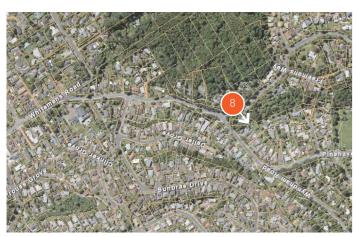


Image captured on IPhone XS MAX Focal length of 26mm. Date: 4th July 2019 at 2:43 pm. Height of 1.7 metres NORTHING EASTING 41°9'9.42"S 175°0'52.08"E Photos merged in Photoshop CS to create panorama

B. EXISTING VIEW



A. IMAGE LOCATION





A. IMAGE LOCATION



B. EXISTING VIEW

9 VP9 - VIEW NORTH - PINEHAVEN RESERVE

Image captured on IPhone 6 Focal length of 29mm. Date: 16th May 2017 at 10:33 am. Height of 1.7 metres NORTHING EASTING 41°9'1.67"S 175°0'51.53"E Photos merged in Photoshop CS to create panorama

(Dicksonia squarrosa)





Totara

Kahikatea (Dacrycarpus dacrydioides)



Salix babylonica (Weeping willow)



Pin oak (Quercus palustris) L2 - RIPARIAN 1 - PARTIALLY WET

Purei





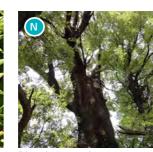
Apodasmia similis Oioi



Phormium cookianum Mountain Flax



Uncinia unciniata Hook sedge



Black beech (Fuscospora solandri)



Kowhai (Sophora microphylla)

Ficinia nodosa

Forest sedge

Knobby club rush





Carex secta





Koromiko (Hebe stricta var. atkinsonii)

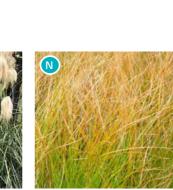
#### L5 - CLIMBER



Puawhananga (Clematis paniculata)



Metrosideros carminea Climbing rata



Carex testacea Orange sedge



Ficinia nodosa Knobby club rush



Phormium cookianum



Astroderia fulvida Small toetoe



Melicytus ramiflorus Mahoe



Phormium tenax NZ Flax

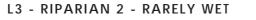






Coprosma propinqua . (Mingimingi)

## LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES MITIGATION MEASURES - PLANT PALETTE





Wharawhara



Purei

Pohuehue (Muehlenbeckia axillaris)













Astroderia fulvida

Small toetoe







Pohuehue

(Muehlenbeckia axillaris)

Libertia peregrinans NZ Iris





Fuchsia excorticata Tree fuchsia



Pittosporum eugenioides Lemonwood





Podocarpus totara Totara





Rangiora (Brachyglottis repanda)



Kohuhu Kohuhu Schefflera digitata (Pittosporum tenufolium) (Pate)



Griselinia littoralis Broadleaf, Kapuka



Phormium cookianum Mountain Flax



Pseudopanax arboreus Five finger



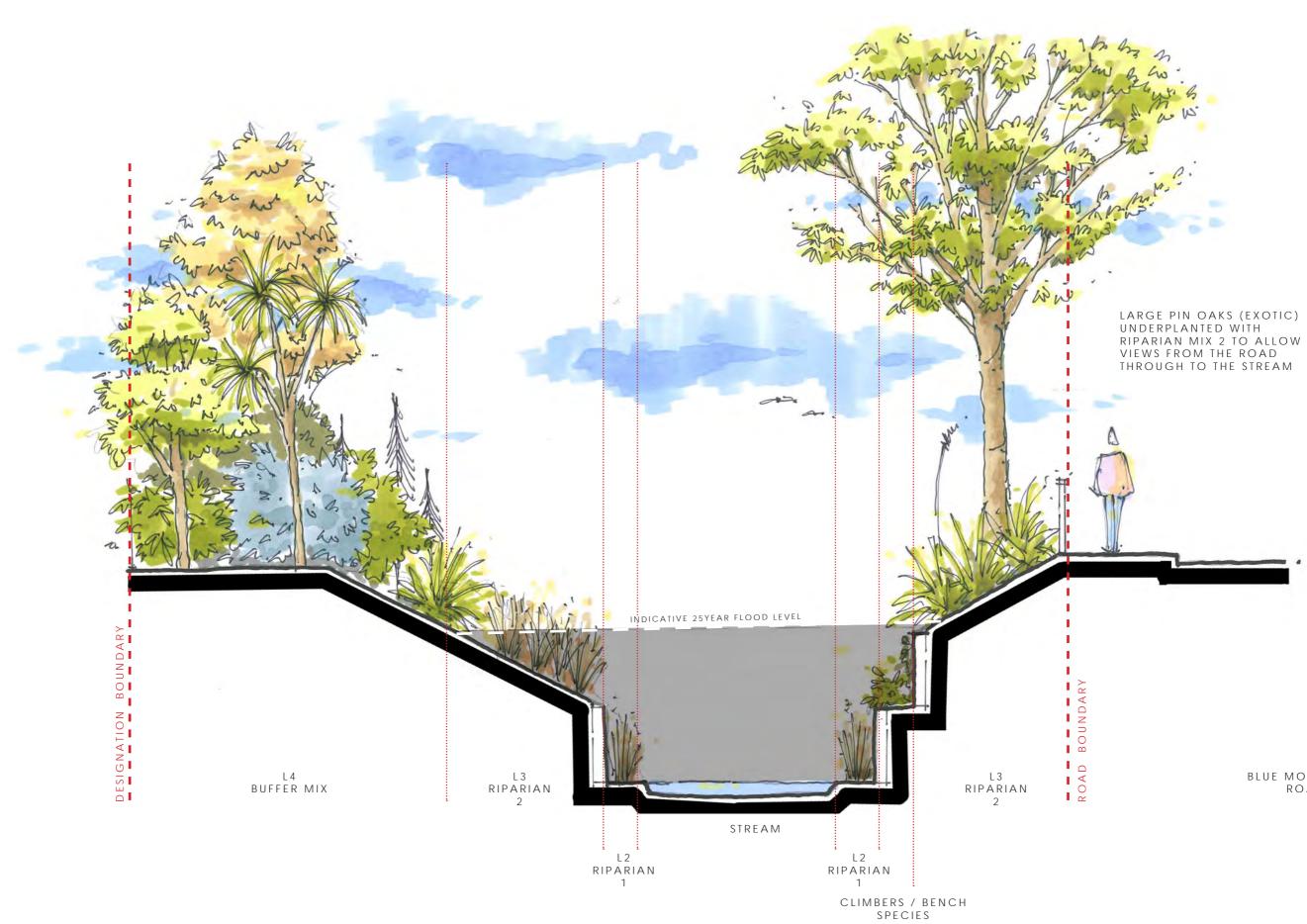
Shiny karamu (Coprosma lucida)





# MITIGATION MEASURES - LANDSCAPE CROSS SECTION (1)

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES

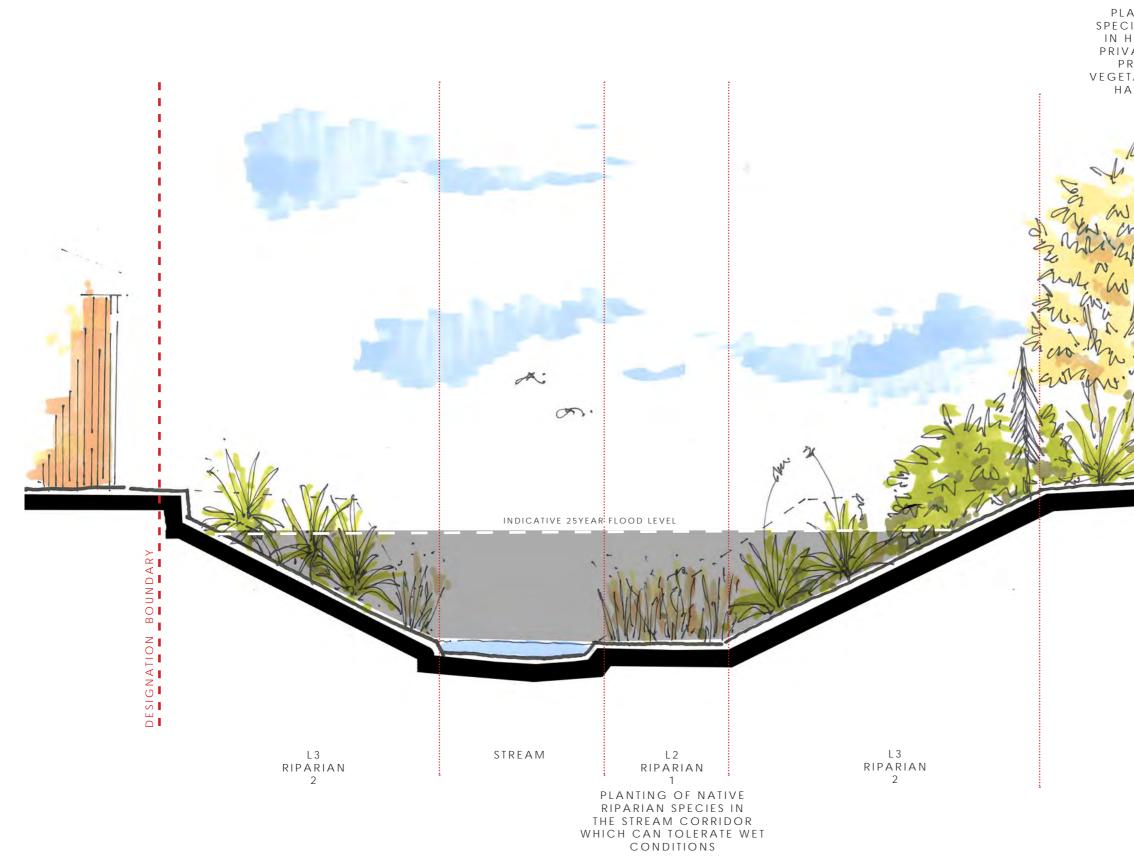




BLUE MOUNTAINS ROAD



LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES MITIGATION MEASURES - LANDSCAPE CROSS SECTION (2) - WILLOW PARK



# LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES MITIGATION MEASURES - LANDSCAPE CROSS SECTION (3)

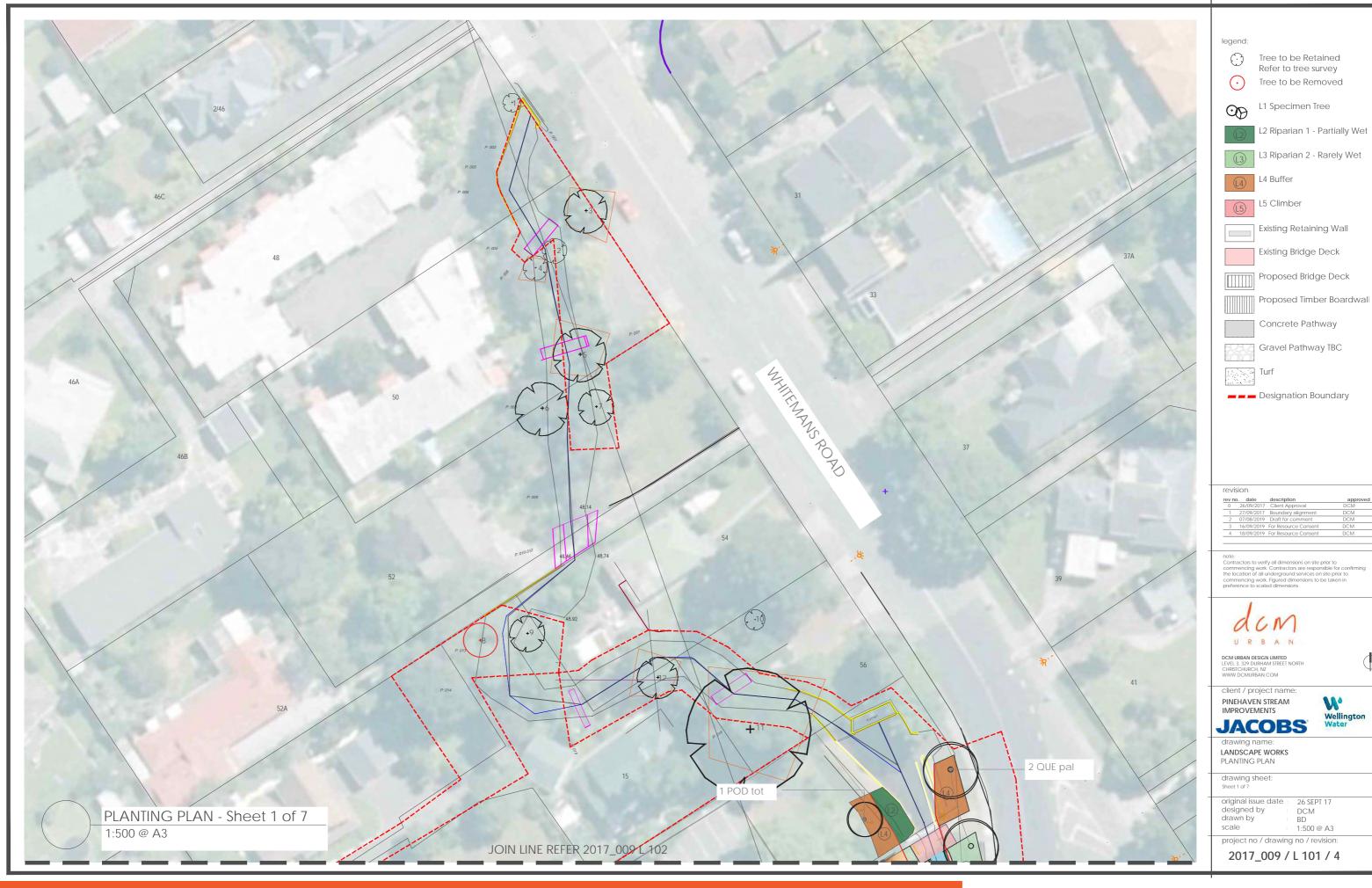




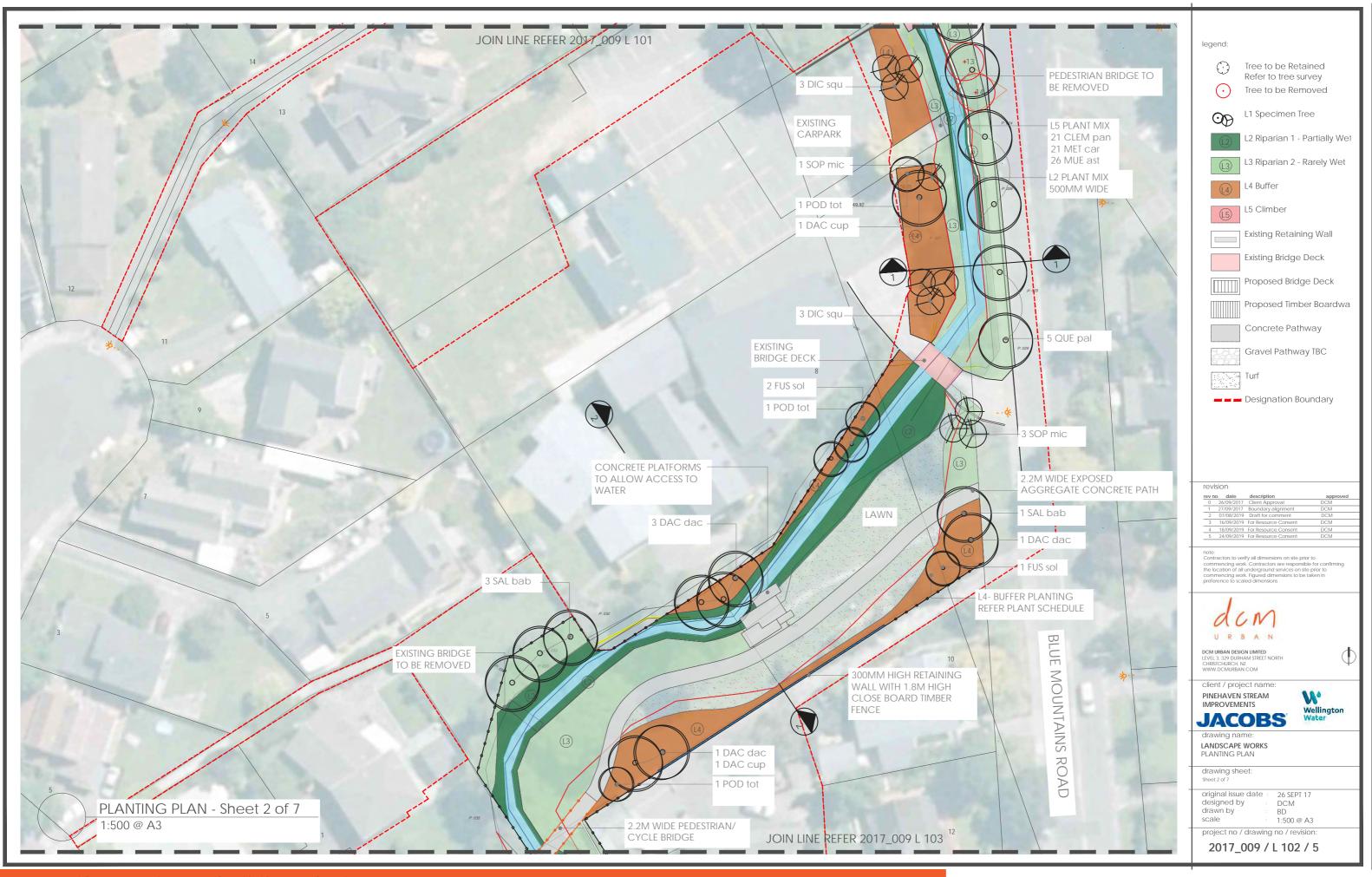
PROPERTY BOUNDARY

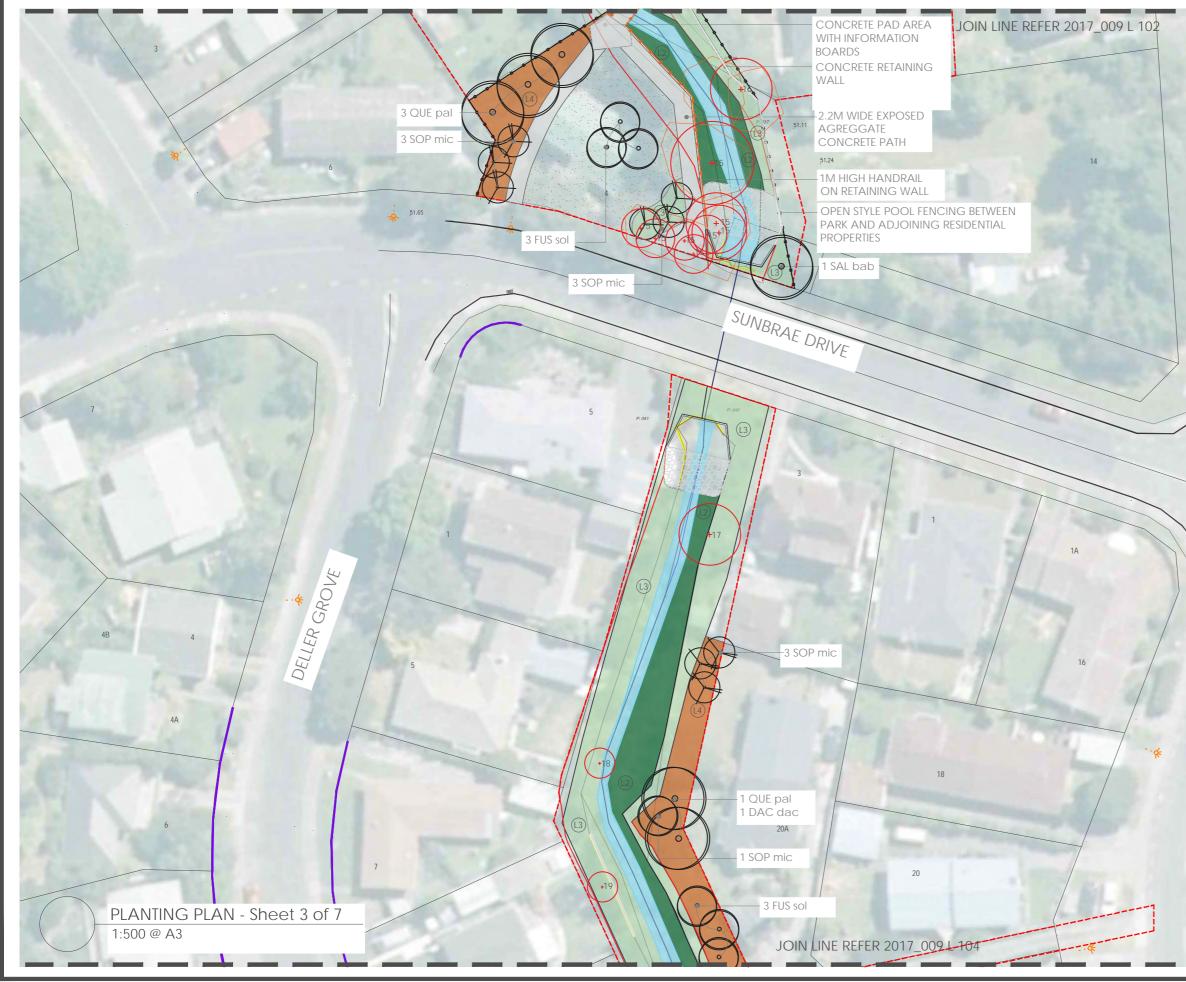
L4 BUFFER MIX

# LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES LANDSCAPE PLANTING PLANS



# LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES





LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES LANDSCAPE PLANTING PLANS

BLUE MOUNTAINS ROAD	Legend:Image: Constraint of the sector
	revision:   0 26/09/2017 Client Approval   1 27/09/2017 Boundary alignm   2 07/08/2019 Datt for comment   3 16/09/2019 For Resource Con   4 18/09/2019 For Resource Con   5 24/09/2019 For Resource Con   note: Contractors to verify all dimensions or commencing work. Contractors are reference to scaled dimensions   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R B N   U R </th

gend:  $(\cdot)$ Tree to be Retained Refer to tree survey  $\odot$ Tree to be Removed L1 Specimen Tree 00 L2 Riparian 1 - Partially Wet L3 Riparian 2 - Rarely Wet L4 Buffer L5 Climber Existing Retaining Wall Existing Bridge Deck Proposed Bridge Deck Proposed Timber Boardwalk Concrete Pathway Gravel Pathway TBC Turf **— —** Designation Boundary

#### vision:

rev no	o. date	description	approved
0	26/09/2017	Client Approval	DCM
1	27/09/2017	Boundary alignment	DCM
2	07/08/2019	Draft for comment	DCM
3	16/09/2019	For Resource Consent	DCM
4	18/09/2019	For Resource Consent	DCM
5	24/09/2019	For Resource Consent	DCM

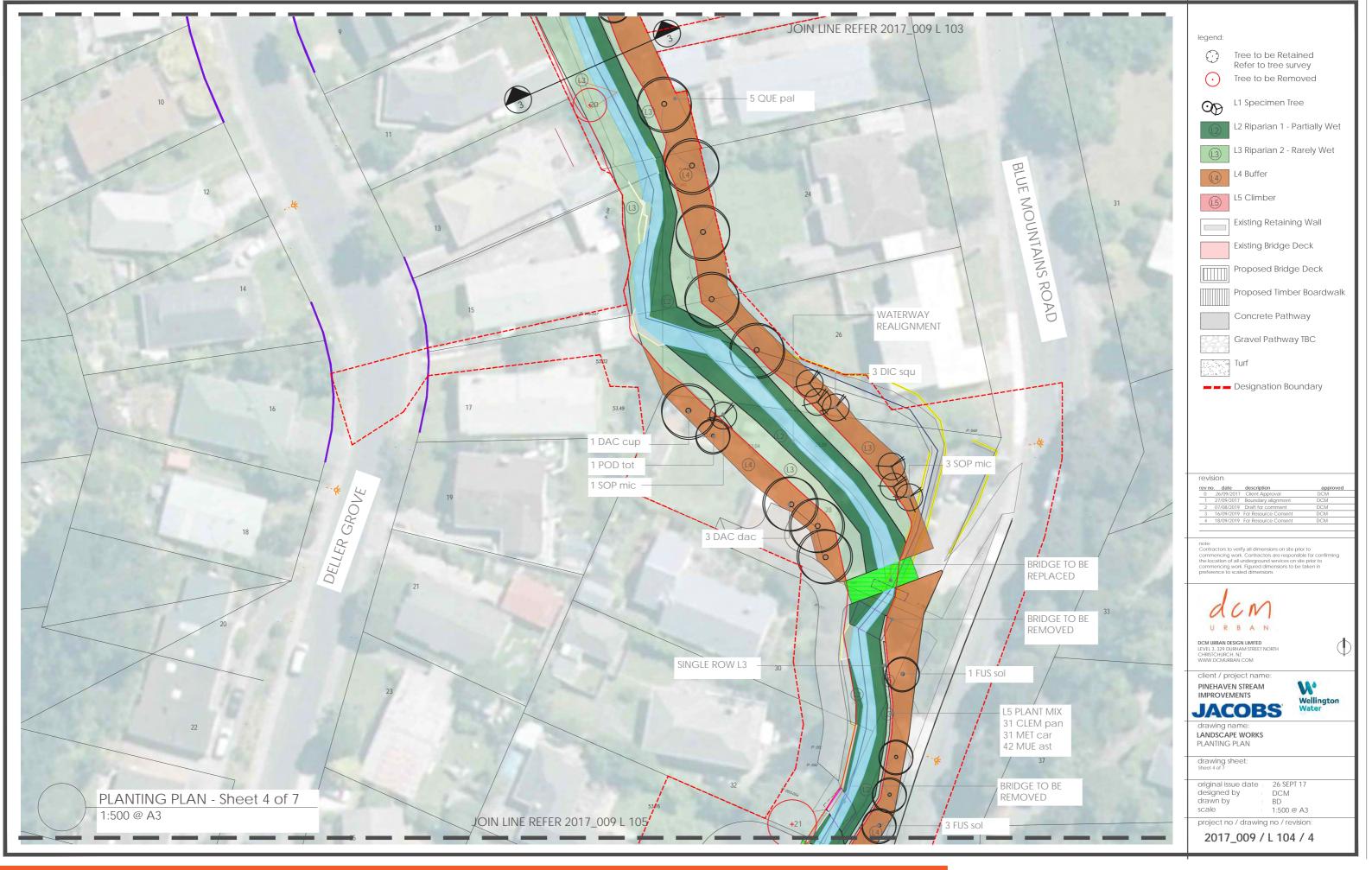
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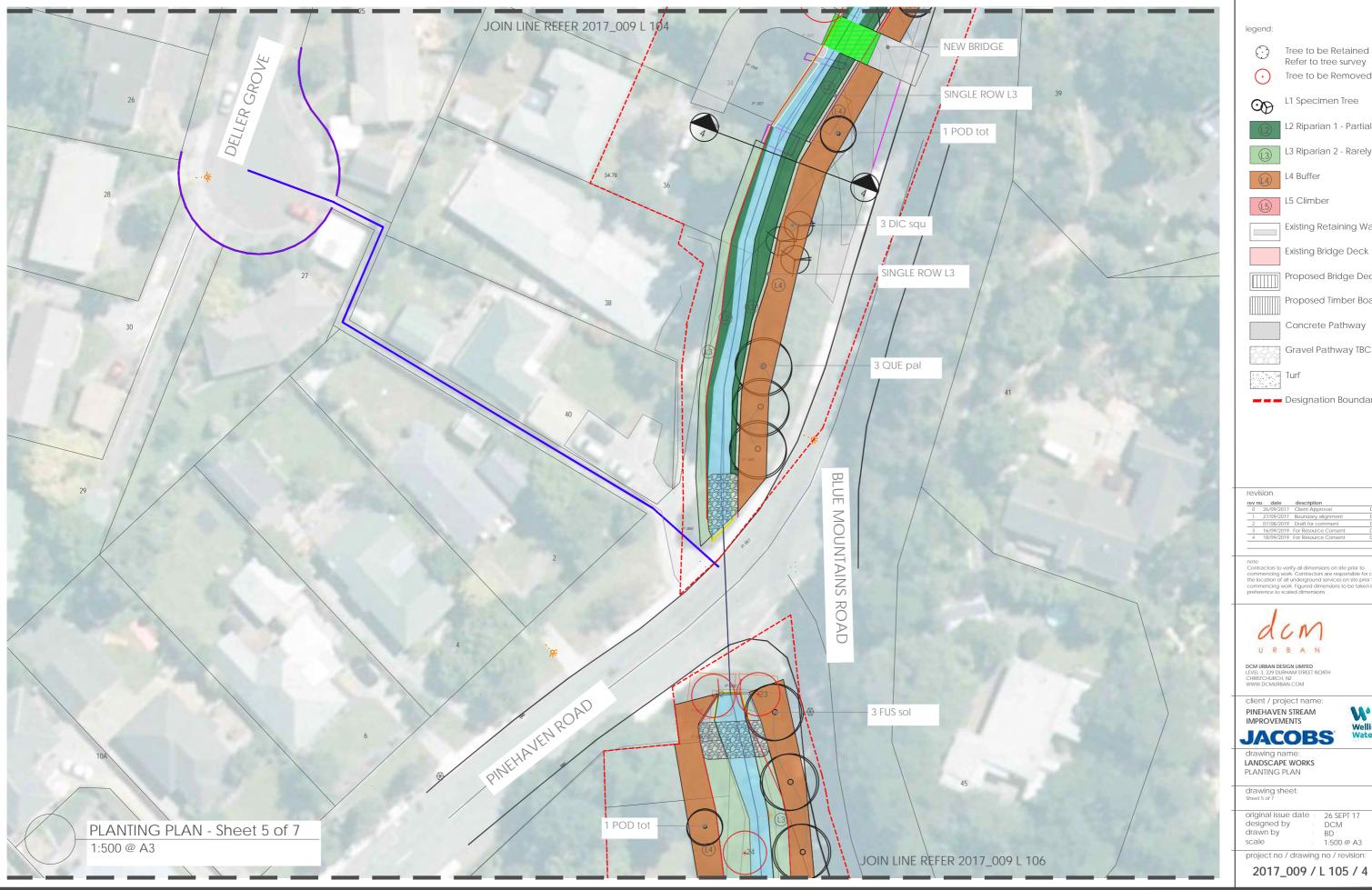


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oject no / drawing no / revision: 2017\_009 / L 103 / 5



LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES



### LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES LANDSCAPE PLANTING PLANS

legend: Tree to be Retained  $\bigcirc$ Refer to tree survey  $\odot$ Tree to be Removed L1 Specimen Tree OD L2 Riparian 1 - Partially Wet L3 Riparian 2 - Rarely Wet (13) L4 Buffer (4) L5 Climber Existing Retaining Wall Existing Bridge Deck Proposed Bridge Deck Proposed Timber Boardwalk Concrete Pathway Gravel Pathway TBC Turf **— — —** Designation Boundary revision rev no. date description 0 26/09/2017 Client Appro note: Contractors to verify all dimensions on site prior to commencing work. Contractors are responsible for conf the location of all underground services on site prior to commencing work. Figured dimensions to be taken in preference to scaled dimensions dom URBAN DCM URBAN DESIGN LIMITED LEVEL 3, 329 DURHAM STREET NORTH CHRISTCHURCH, NZ WWW.DCMURBAN.COM 

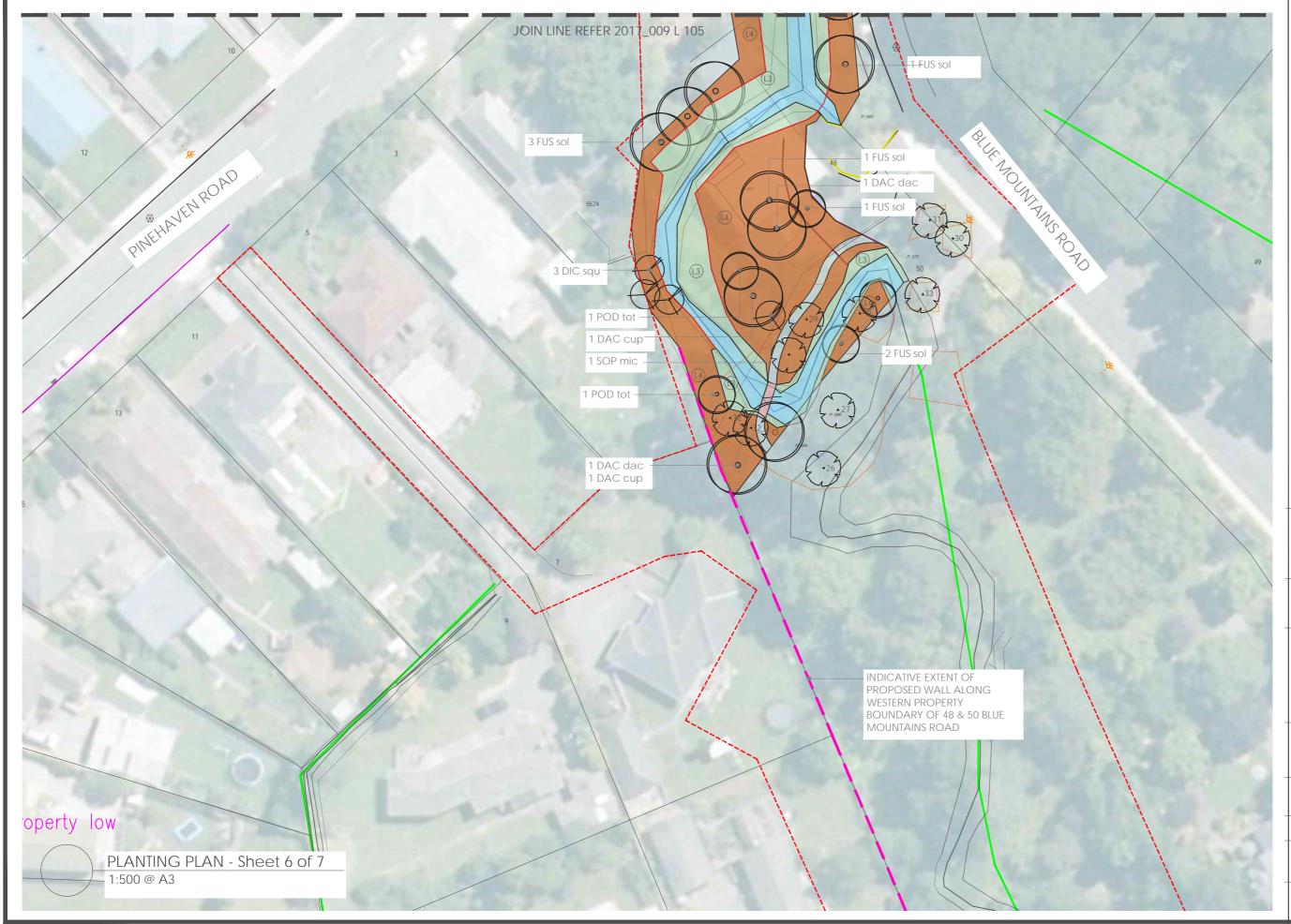
client / project name



drawing na LANDSCAPE WORKS PLANTING PLAN

drawing sheet: Sheet 5 of 7 26 SEPT 17 DCM BD 1:500 @ A3 original issue date designed by drawn by scale

project no / drawing no / revision:



LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES LANDSCAPE PLANTING PLANS legend:





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drawing nam LANDSCAPE WORKS PLANTING PLAN

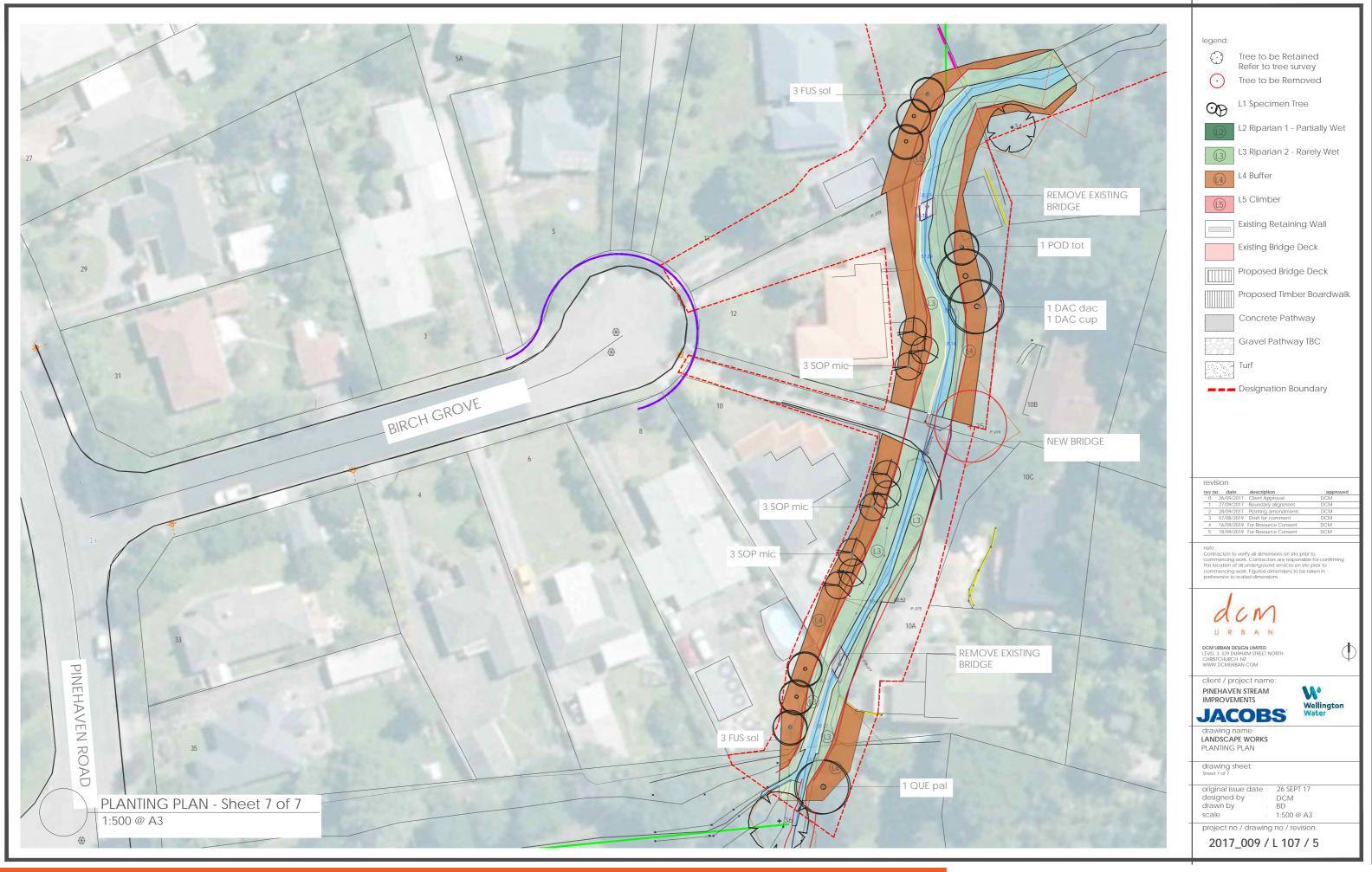
IMPROVEMENTS

drawing sheet: Sheet 6 of 7

original issue date designed by drawn by scale

26 SEPT 17 DCM BD 1:500 @ A3 project no / drawing no / revision:

2017\_009 / L 106 / 5



# LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES

### PINEHAVEN STREAM IMPROVEMENT WORKS - LANDSCAPE PLANTING SCHEDULE REV 4

	L1 Specimen Trees						
Code	Botanical name	Common name	Habitat (Low, Medium, High)	Sìze	Spacing	Percentage of Mix	Quantity
DAC.dac	Dacrycarpus dacrydioides	Kahikatea	High	45L	as shown	n/a	1
DAC.cup	Dacrydium cupressium	Rimu	High	45L	as shown	n/a	
DIC.squ	Dicksonia squarrosa	Wheki	Medium	1m high	as shown	n/a	18
FUS.sol	Fuscospora solandri	Black Beech	High	45L	as shown	n/a	30
POD.tot	Podocarpus totara	Totara	High	45L	as shown	n/a	10
QUE.pal	Quercus palustris	Pin Oak	High	45L	as shown	n/a	28
SAL bab	Salix babylonica	Weeping Willow	High	45L	as shown	n/a	
SOP.mic	Sophora microphylla	SI Kowhai	Medium	45L	as shown	n/a	28
	L2 Riparian 1 - Partially Wet			Area (m2)			114
Code	Botanìcal name	Common name		Size	Spacing (mm)	Percentage of Mix	Quantity
APO.sim	Apodasmia similis	Oioi	Low	0.5L	0.7	15%	34
CAR.dis	Carex dissita	Forest sedge	Low	0.5L	0.7	15%	34
CAR.sec	Carex secta	purei	Low	0.5L	0.7	15%	34
FIN.nod	Ficinia nodosa	Knobby club rush	Low	0.5L	0.7	15%	34
PHO.coo	Phormium cookianum	Mountain flax	Low	0.5L	0.7	15%	34
UNC.unc	Uncinia unciniata	Hook sedge	Low	0.5L	0.7	25%	57
	L3 Riparian 2 - Rarely wet			Area (m2)			289
Code	Botanical name	Common name		Sìze	Spacing (mm)	Percentage of Mix	Quantity
AST.ban	Astelia banksii	whara whara	Low	0.5L	0.7	10%	57
AUS.ful	Austroderia fulvida	Toetoe	Low	0.5L	0.7	10%	57
CAR.tec	Carex testa cea	Orange sedge	Low	0.5L	0.7	15%	86
CAR.sec	Carex secta	purei	Low	0.5L	0.7	5%	29
FIC.nod	Ficinia nodosa	Knobby club rush	Low	0.5L	0.7	15%	86
HEB.str	Hebe stricta var. atkinsonii	Koromiko	Low	0.5L	0.7	5%	29
LIB.per	Libertia perigennans	NZ Iris	Low	0.5L	0.7	10%	57
MUE.ast	Muehlenbeckia astonii	Shrubby Tororaro	Low	0.5L	0.7	15%	86
PHO.coo	Phormium cookianum	Mountain flax	Low	0.5L	0.7	15%	86

	L4 Buffer			Area (m2)			3347
Code	Botanical name	Common name		Size	Spacing (mm)	Percentage of Mix	Quantity
AUS.ful	Austro deria fulvida	Small toetoe	Medium	0.5L	1500	10%	335
BRA.rep	Brachyglottis repanda	Rangiora	Medium	0.5L	1500	5%	167
COP.luc	Coprosma lucida	Shiny Karamu	Medium	0.5L	1500	5%	167
COP.pro	Corposma propinqua	Mingiming	Medium	0.5L	1500	5%	167
FUC.exc	Fuchsia excorticata	Tree Fuchsia	Medium	0.5L	1500	5%	167
GRI.lit	Griselinia littoralis	Broadleaf	Medium	0.5L	1500	10%	335
ELA.hoo	Elaeocarpus hookerianus	Pokaka	Medium	0.5L	1500	5%	167
MEL.ram	Melicytus ramiflorus	Mahoe	Medium	0.5L	1500	5%	167
PIT.eug	Pittosporum eugenioides	Lemonwood	Medium	0.5L	1500	5%	167
PIT.ten	Pittosporum tenufolium	Kohuhu	Medium	0.5L	1500	5%	167
PHO.coo	Phormium cookianum	Mountain flax	Low	0.5L	1500	5%	167
PHO.ten	Phormium tenax	Flax	Medium	0.5L	1500	15%	502
POD.tot	Podocarpus totara	Totara	High	0.5L	1500	5%	167
PSE.arb	Pseudopanax arboreus	Five finger, Puahou	Medium	0.5L	1500	5%	167
SCH.dig	Schefflera digitata	Pate	Medium	0.5L	1500	5%	167
WEl.rac	Weinmannia racemosa	Kamahi	Medium	0.5L	1 500	5%	167
	L5 Clìmber / Bench			Area (m)	-		
Code	Botanical name	Common name		Size	Spacing (mm)	Percentage of Mix	Quantity
CAR	Clematis paniculata	Puawhananga	Medium	0.5L	As shown	30%	52
MC	Metrosideros carminea	Climbing rata	Medium	0.5L	As shown	30%	52
MUE.ast	Muehlenbeckia australis	Pohuehue	Low	0.5L	0.7	40%	68

PLANT SCHEDULE

#### revision:

rev no	o. date	description	approved
0		Client Approval	DCM
1	27/09/2017	Boundary alignment	DCM
2	28/09/2017	Planting amendments	DCM
3	07/08/2019	Draft for comment	DCM
4	16/09/2019	For Resource Consent	DCM
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note: Contractors to verify all dimensions on site prior to commencing work. Contractors are responsible for confirming the location of a underground services on site prior to commencing work. Figured dimensions to be taken in preference to scaled dimensions

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drawing sheet: Sheet 7 of 7

original issue date :	26 SEPT 17
designed by :	DCM
drawn by :	BD
scale :	NTS

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EXISTING PHOTO



10 YEARS AFTER CONSTRUCTION IS COMPLETED

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES PHOTO MONTAGE - YEAR 10



Three large willow trees are proposed within the design to replace the existing willow trees which are required to be removed due to poor health and the stream improvement works.

SUNBRAE DRIVE

A concrete deck area is proposed with a concrete bridge. Information boards are proposed to educate visitors to the park about the functions of the stream, its history and the ecological value of the plantings.

> Where possible, existing native trees of good form and health will be retained. There are several Kowhai on the 3 Sunbrae property.

A. LANDSCAPE CONCEPT - SUNBRAE DRIVE FRONTAGE

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES WILLOW PARK CONCEPT ILLUSTRATION





#### KEY



2.2m wide exposed aggregate concrete path with handrail at the top of the wall.

Stream channel with low level riparian planting. Boulders are incorporated into the low flow channel margin to provide fish cover and egg laying substrate for some aquatic insects.

2.2m wide pedestrian cycle bridge - concrete 't' construction or similar.

300mm high low wall and 1.8m high close board timber fence.

Native Tree and shrub planting along western boundary.

Existing walkway linking to Tapestry Grove closed.

A small lawn area is proposed at the Blue Mountains Road end of the park which can be used as an informal play space.

Where possible, with the agreement of the adjoining neighbour, it is recommended open style pool fencing is installed (see page 9 for examples). This is to provide natural surveillance over the public space from adjoining residences, improve amenity for residents by creating a sense of space, and to avoid the creation of taggable/ blank walls.

**OPTION B** - Pedestrian path located away from boundary with 10a Blue Mountains Road but within 1 in 25 year flood zone. The path would not be accessible during high rain events (Above 99.8% of recorded average daily flows).

- TO BLUE MOUNTAINS ROAD

Concrete sitting steps leading down to the streams edge aims to promote interactivity with stream. The design should incorporate pipes and/or undercut edge to provide cover for eels.

A. LANDSCAPE CONCEPT - BLUE MOUNTAINS ROAD FRONTAGE - OPTION B

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES WILLOW PARK CONCEPT ILLUSTRATION



#### ΚΕΥ

- 2.2m wide exposed aggregate concrete path with handrail at the top of the wall.
- Stream channel with low level riparian planting.
- 2.2m wide pedestrian cycle bridge concrete 't' construction or similar.
- 300mm high low wall and 1.8m high close board timber fence.
- 5
- Native Tree and shrub planting along western boundary.
- 6
  - Existing walkway linking to Tapestry Grove closed.
  - A small lawn area is proposed at the Blue Mountains Road end of the park which can be used as an informal play space.
  - Where possible, with the agreement of the adjoining neighbour, it is recommended open style pool fencing is installed (see page 9 for examples). This is to provide natural surveillance over the public space from adjoining residences, improve amenity for residents by creating a sense of space, and to avoid the creation of taggable/ blank walls.

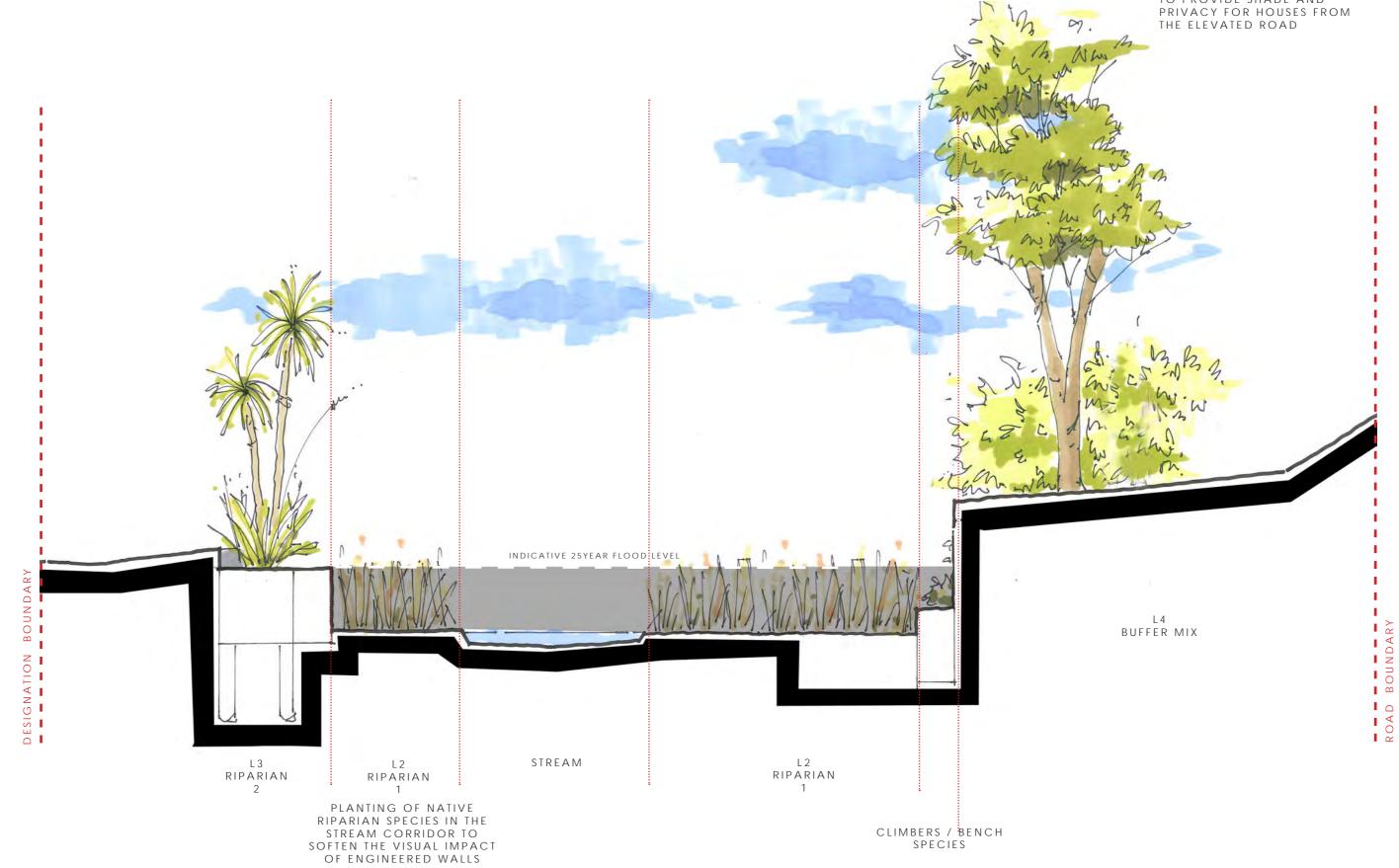


North

Marginal and overhanging vegetation to provide cover for freshwater animals.

# MITIGATION MEASURES - LANDSCAPE CROSS SECTION (4)

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES



PLANTING OF LARGER TREES TO PROVIDE SHADE AND PRIVACY FOR HOUSES FROM THE ELEVATED ROAD





EXISTING PHOTO



DAY 1 AFTER CONSTRUCTION IS COMPLETED

LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES PHOTO MONTAGE - DAY 1





EXISTING PHOTO



LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES PHOTO MONTAGE - YEAR 5





EXISTING PHOTO



10 YEARS AFTER CONSTRUCTION IS COMPLETED

# LANDSCAPE AND VISUAL IMPACT ASSESSMENT FIGURES PHOTO MONTAGE - YEAR 10