



VACO DEVELOPMENTS LTD

## WAIPU GATEWAY SERVICE CENTRE

47 MILLBROOK ROAD, WAIPU

## LANDSCAPE PACKAGE 3D VIEW

SCALE : nts  
DATE : 30 March 2023  
DRAWN : NKAY  
VERIFIER : RKNOTT

DRAWING NUMBER  
**WAIPU-L-1.7**

ISSUE

**B**



VACO DEVELOPMENTS LTD

**WAIPU GATEWAY SERVICE CENTRE**

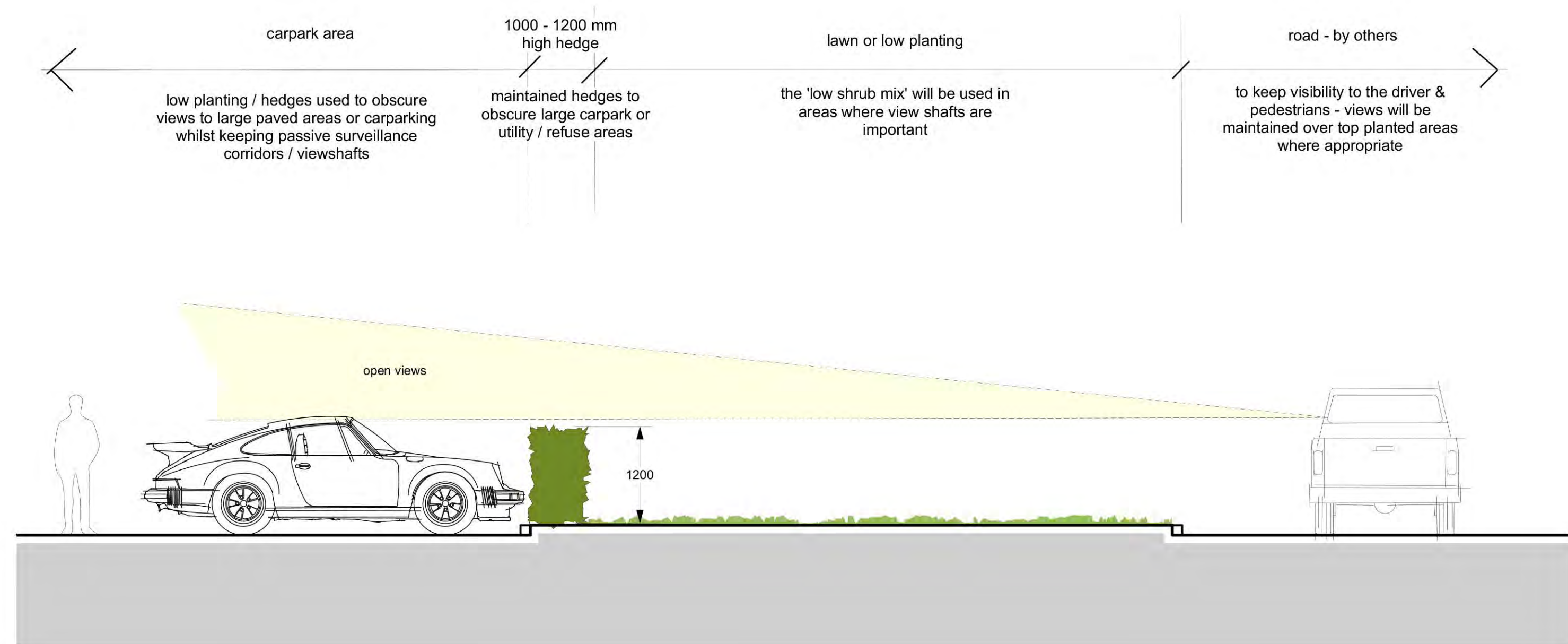
47 MILLBROOK ROAD, WAIPU

**LANDSCAPE PACKAGE**  
*3D VIEW*

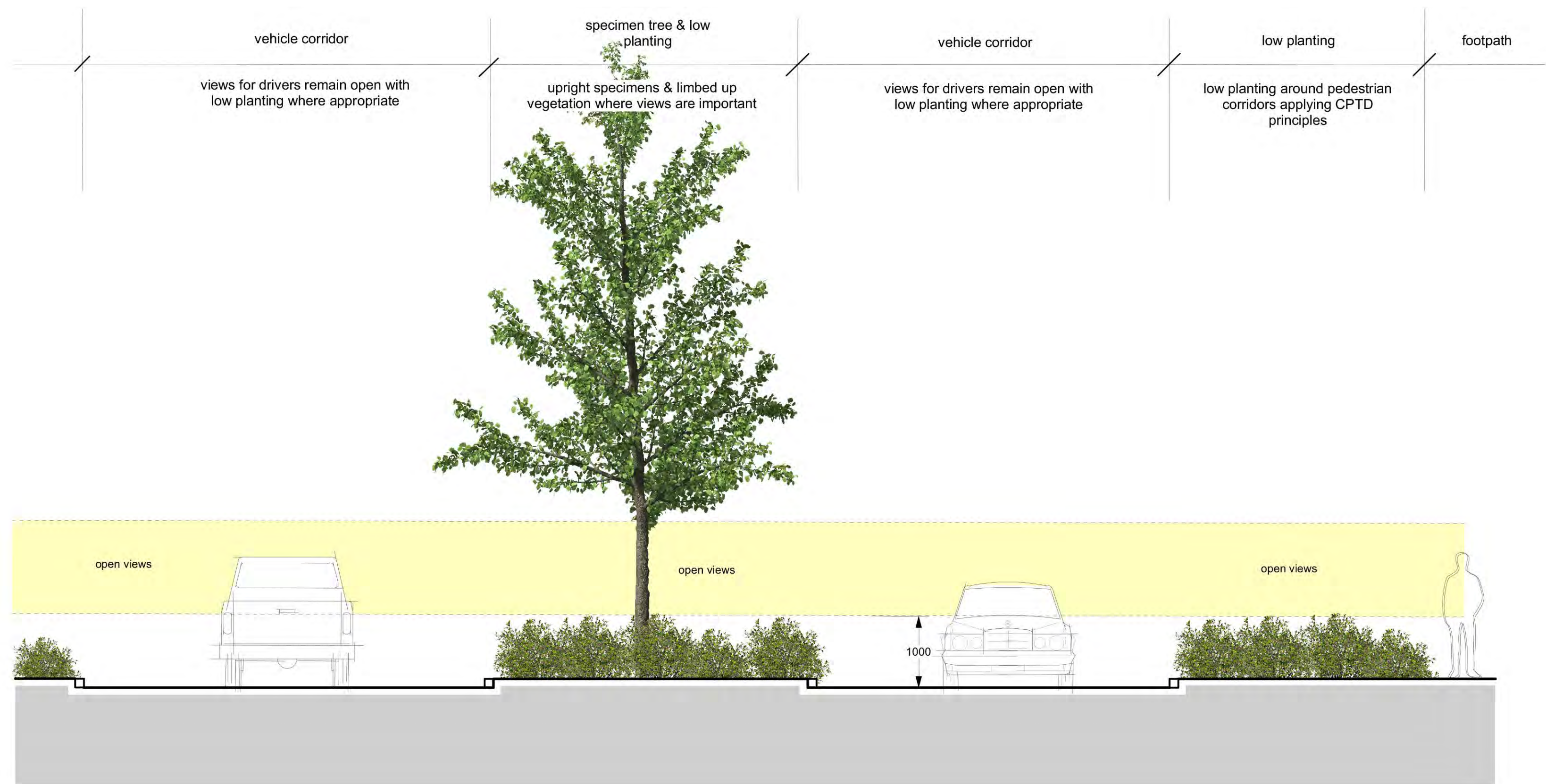
SCALE : nts  
DATE : 30 March 2023  
DRAWN : NKAY  
VERIFIER : RKNOTT

DRAWING NUMBER  
**WAIPU-L-1.8**

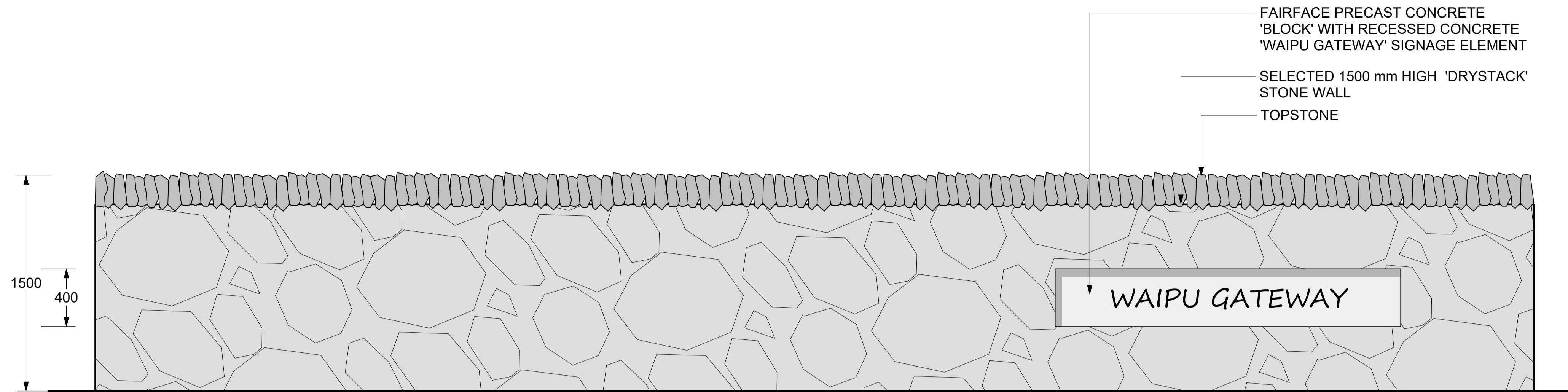
ISSUE  
**B**



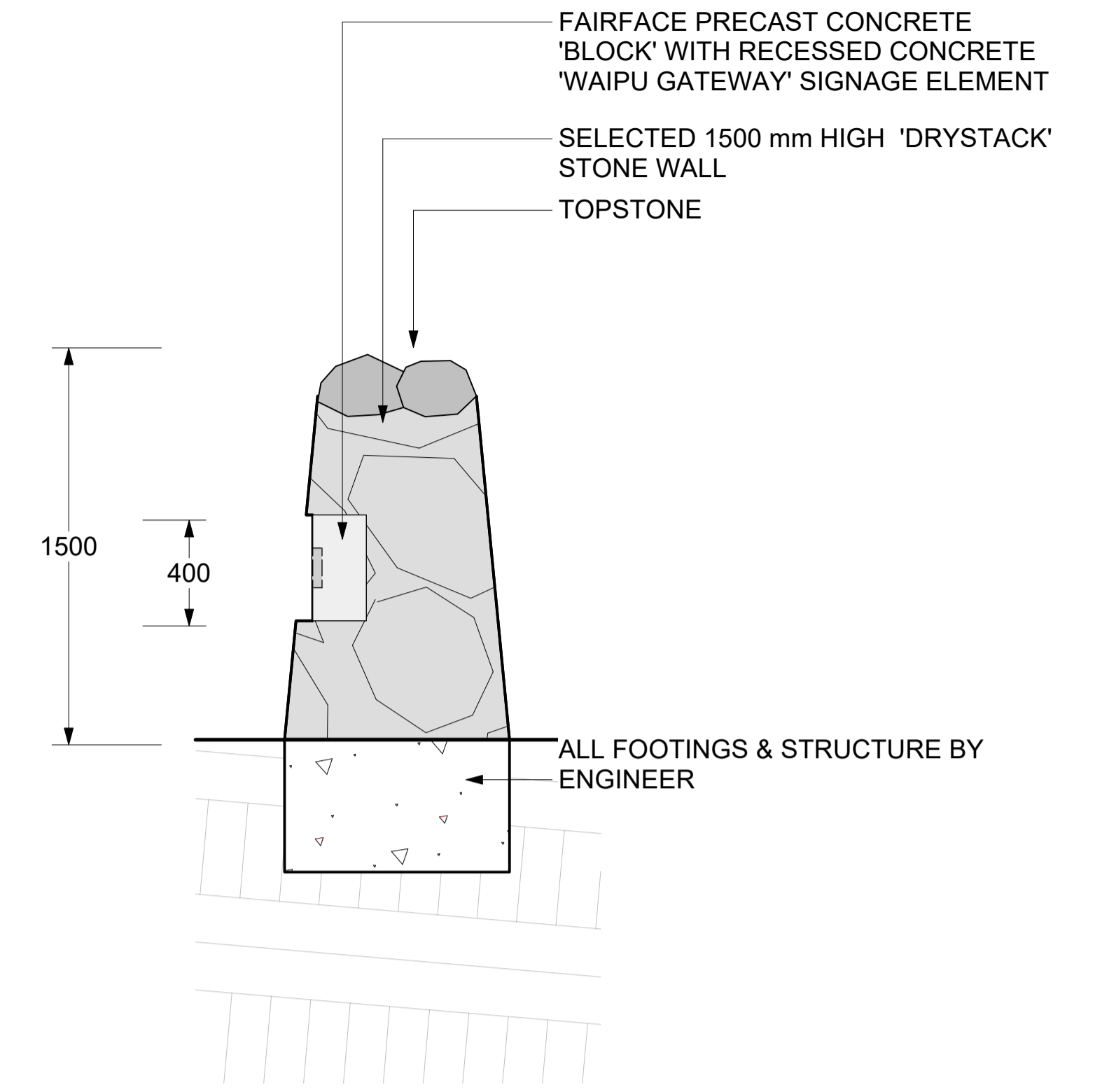
**TYPICAL SECTION - CARPARK AREA**  
SCALE 1:50 @ A1



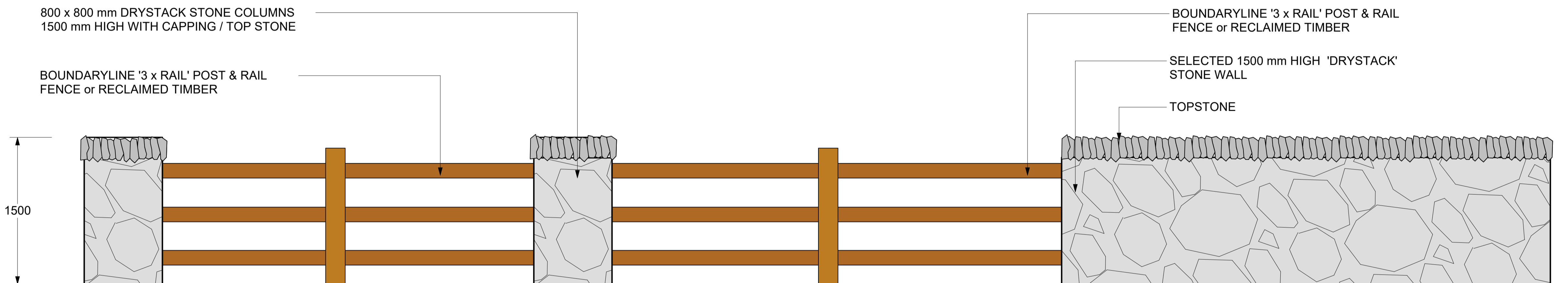
**TYPICAL SECTION - INTERNAL ROAD CORRIDOR**  
SCALE 1:50 @ A1



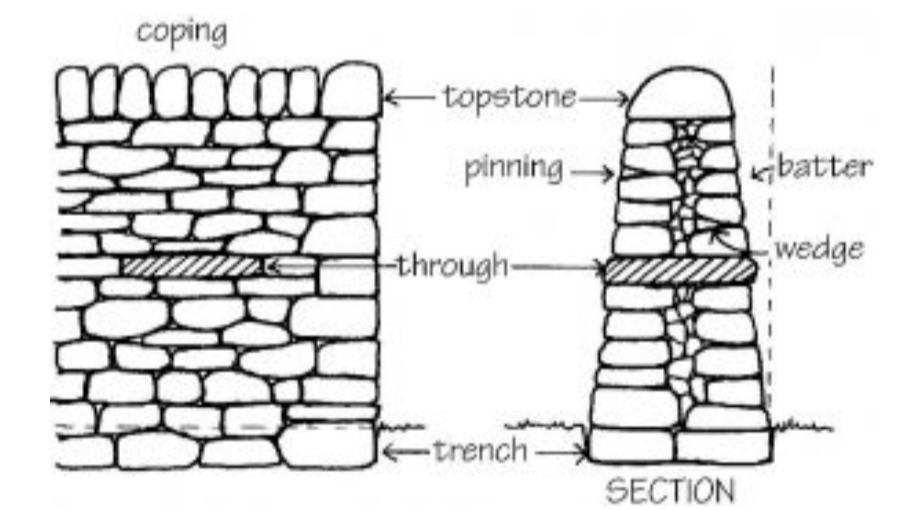
**TYPICAL CURVED ENTRANCE WALL**  
SCALE 1:20 @ A1



**TYPICAL CURVED ENTRANCE SECTION**  
SCALE 1:20 @ A1

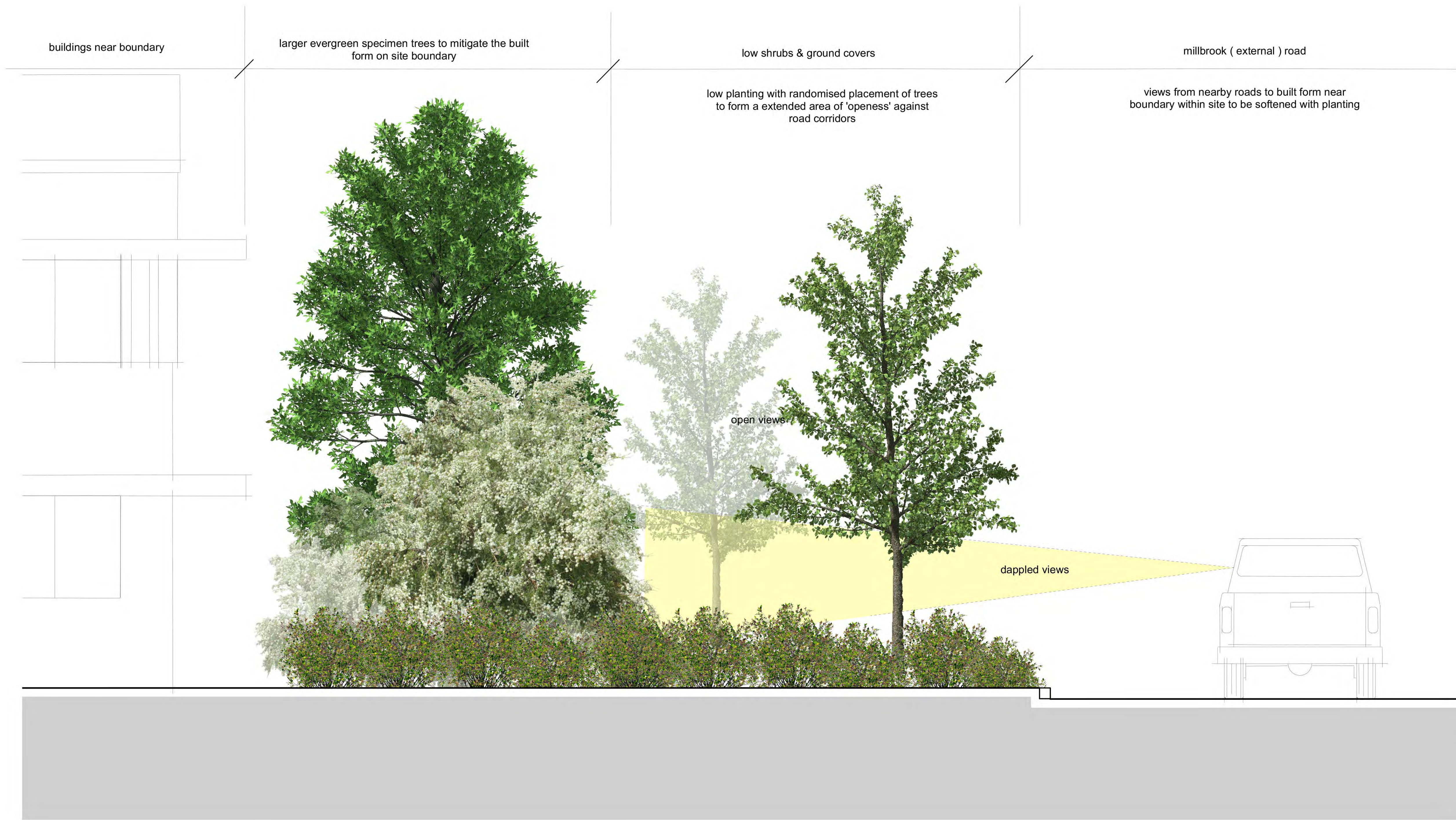


**TYPICAL WALL ARRANGEMENT**  
SCALE 1:25 @ A1



**TYPICAL DRYSTACK WALL CONSTRUCTION**  
NOT TO SCALE

- NOTES:  
1. CONCEPT ONLY\*  
2. ALL WALL DETAILS TBC BY ENGINEER



TYPICAL SECTION - EXTERNAL BOUNDARY  
SCALE 1:25 @ A1



VACO DEVELOPMENTS LTD

**WAIPU GATEWAY SERVICE CENTRE**

47 MILLBROOK ROAD, WAIPU

**LANDSCAPE PACKAGE**  
*TYPICAL SECTIONS*



SCALE : as shown @ A1  
DATE : 30 March 2023  
DRAWN : NKAY  
VERIFIER : NKAY

DRAWING NUMBER

**WAIPU-L-2.1**

ISSUE

**B**



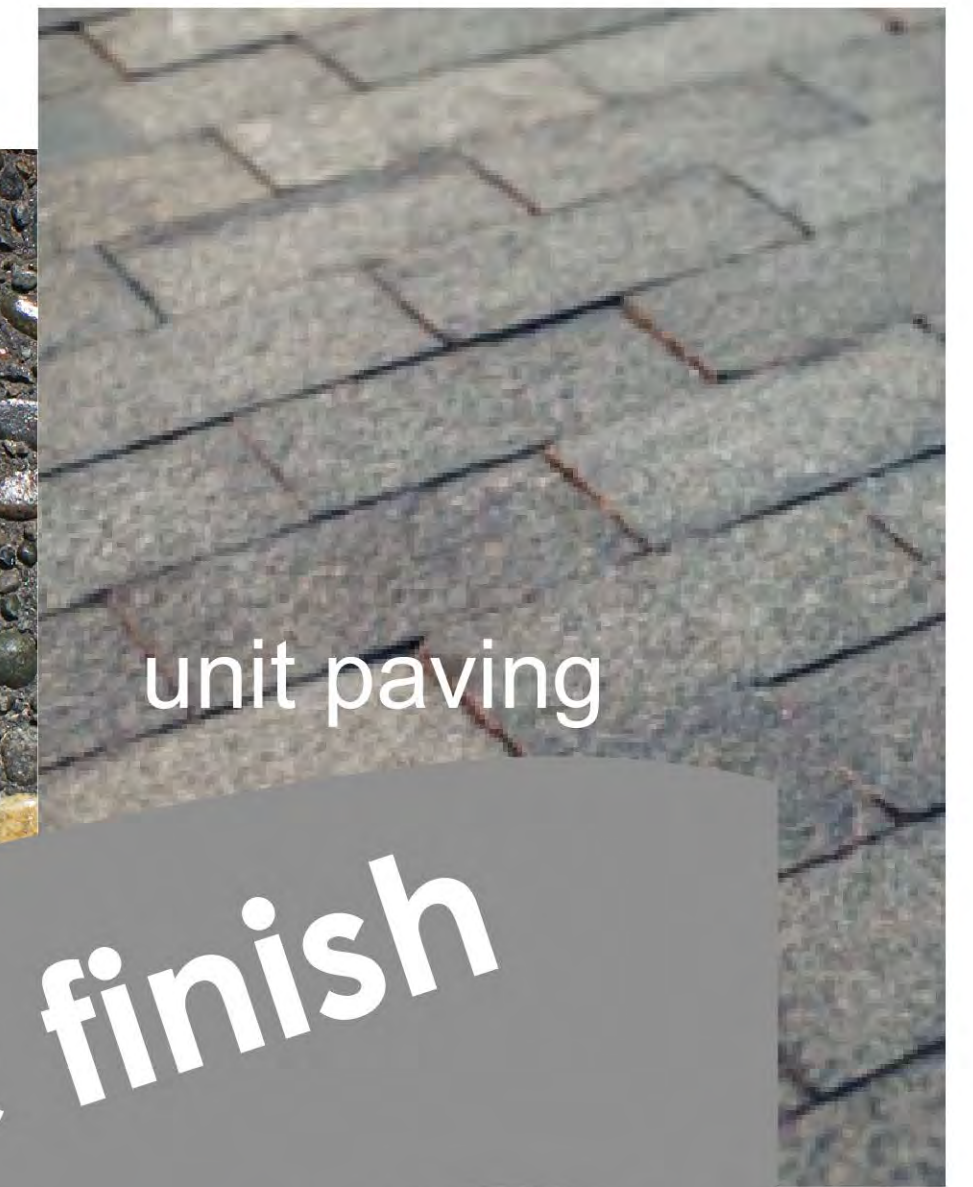
scottish heritage



setts



exposed aggregate



unit paving

PAVING

rustic finish



DRY STACK STONE WALLS



DSC



bench seating to rest areas



boundaryline '3 x rail'

post & rail fence



inspiration for 'Waipu Gateway' Signage



rural inspired landscape features



VACO DEVELOPMENTS LTD

WAIPU GATEWAY SERVICE CENTRE

47 MILLBROOK ROAD, WAIPU

LANDSCAPE PACKAGE  
IMAGE BOARD



SCALE : not to scale  
DATE : 30 March 2023  
DRAWN : NKAY  
VERIFIER : RKNOTT

DRAWING NUMBER  
WAIPU-L-2.3

ISSUE

B

**Ground Covers & Scramblers**

***Coprosma acerosa*  
Sand coprosma**

Attractive compact, spreading groundcover with tangled lush green foliage, creating an almost moss-like effect. Tolerates very poor soils, hot and dry coastal sites and frosts. Great for mass planting at 1m spacing forming a tight weed-suppressing mat. Evergreen. Hardy.



@1000 mm centres

Grade: 1 L Height @ Planting : 100 mm Height @ Maturity: 300 mm

***Muehlenbeckia complexa*  
Pohuehue**

A twining vine that can climb over banks and walls. Dense, wire-like stems are covered with inter-laced, tiny round light-green leaves. Tiny creamy-green flowers from late spring into early summer. Useful in coastal plantings. Attracts insects and lizards. Evergreen. Hardy.



@1500 mm centres

Grade: 1 L Height @ Planting : 100 mm Height @ Maturity: 600 mm

***Pratia angulata*  
Pannakenake**

Native white flowering groundcover which thrives in damp shady sites, although will grow in sunny situations. Red berries in autumn are attractive to birds.



@1000 mm centres

Grade: 1 L Height @ Planting : 100 mm Height @ Maturity: 200 mm

**Shrub mix less than 1m**

***Arthropodium cirratum*  
Renga Renga**

Used widely as a ground-cover for dry shade and under trees. Forms large clumps of broad, medium-green, arching foliage. Graceful sprays of white star-shaped flowers from spring to mid-summer. Tolerates coastal winds. Hardy. 1m high x 1m wide.



@1000 mm CTRS

Grade: 1 L Height @ Planting : 300 mm Height @ Maturity: 800 mm

***Carex testacea*  
NZ Grass**

An attractive sedge with rich-green and brick-orange foliage. Best colour in full sun. Handsome at all times of the year. Evergreen. Hardy to drought, coastal conditions and cold. 0.6m high x 0.6m wide.



@600 mm CTRS

Grade: 1 L Height @ Planting : 300 mm Height @ Maturity: 600 mm

***Dianella nigra*  
Turutu**

Highly attractive flax-like plant with showy purple or white berries on long stems in summer through to autumn. Prefers moist shade, however is surprisingly tolerant of both dry and sun. Evergreen. Hardy. 0.5m high x 0.5m wide.



@500 mm CTRS

Grade: 1 L Height @ Planting : 300 mm Height @ Maturity: 600 mm

***Libertia grandiflora*  
NZ Iris**

Produces spikes of pure white iris-like flowers in spring and summer. Wide yellowish green leaves are upright and distinctive. Great for mass planting in sun or semi-shade. Evergreen. Hardy. 1m high x 1m wide.



@1000 mm CTRS

Grade: 1 L Height @ Planting : 300 mm Height @ Maturity: 800 mm

**Shrub mix 1.2m+**

***Brachyglottis greyi*  
Resin bush**

A spreading shrub with daisy-like yellow blooms for most of the year. Prefers a well-drained situation. Great amongst rocks. Silver-edged grey-green leaves make a great contrast against dark foliage. Tolerant of hot sun, poor soils, wind and coastal exposure. Evergreen. 1.2m high x 1.5m wide.



@1500 mm centres

Grade: 2 L Height @ Planting : 400 mm Height @ Maturity: 1200 mm

***Corokia cotoneaster*  
Korokio**

Tough hedging and ornamental shrub. Attractive fine silvery-grey foliage with masses of small bright yellow flowers in early summer. Densely interlaced divaricating branchlets. Red berries a feature from February-April. Evergreen. Very hardy to drought, wind and cold. 3m high x 2m wide.



@1500 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 1200 mm

***Griselinia lucida*  
Puka**

A bushy tree with stout erect stems clothed in large, fresh-green, highly-polished leaves. Grows in sun or shade, imparting a luxuriant tropical feel to the garden. Excellent for containers. Coastal hardy. Tolerates light frosts. 5m high x 5m wide.



@2000 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 5000 mm

***Kunzea robusta*  
Kanuka**

Bark usually basally detached long leathery strips. Branches bearing masses of green leaves and clusters of small white flowers. Branchlets usually copiously covered in silky, appressed hairs. 8m high x 3m wide.



@2000 mm centres

Grade: 2 L Height @ Planting : 800 mm Height @ Maturity: 8000 mm

***Phorium cookianum*  
Mountain Flax**

10% Drooping, twisted seed pods and shiny-green, wide, weeping leaves. Large root system is good for erosion control on banks and bunds. Evergreen. Tolerant of dry, cold and exposure. 1.5m high x 1.5m wide



@2000 mm centres

Grade: 2 L Height @ Planting : 400 mm Height @ Maturity: 1500 mm

***Pittosporum tenuifolium*  
Kohuhu**

A large shrub or small tree with attractive dense foliage and scented flowers. Excellent revegetation species. Tolerates wind, drought, frost and coastal conditions. Attractive to bees. Evergreen. Very frost hardy. 6m high x 3m wide.



@3000 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 6000 mm

***Sophora prostrata*  
Dwarf Kowhai**

10% Dense, tangled wiry shrub with sparse foliage and hidden flowers in late spring. Semi-deciduous. Very tough on exposed, cold, dry sites. Hardy. 2m high x 2m wide.



@2000 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 2000 mm

**Waste Water Species less than 1m**

***Apodasmia similis*  
Oioi**

An attractive wetland reed with fine grey-green leaves and brownish bracts at the joints. Popular structural landscaping plant. A great option for mass planting on wet or coastal sites, growing in extremes of wind and salt. Can also tolerate some dry. Evergreen. Hardy. 1m high x 1m wide.



@1000 mm centres

Grade: 1 L Height @ Planting : 400 mm Height @ Maturity: 1000 mm

***Carex virgata*  
Pukio**

A vigorous sedge suitable for swamps, drain margins, seepages and wet pastures. A successful colonising plant, used for wetland planting and revegetation. Suitable for conditions which may vary periodically from very wet to very dry. Evergreen. Hardy. 1m high x 1m wide.



@1000 mm centres

Grade: 2 L Height @ Planting : 400 mm Height @ Maturity: 1000 mm

***Parablechnum novae zelandiae*  
Pukio**

One of the most popular ferns in New Zealand, great in revegetation and ornamental plantings alike. Has distinctive large arching fronds with distinctive red/pink new growth. Perfect for banks and underplanting, will survive on trickier sites provided there is adequate moisture.



@1000 mm centres

Grade: 2 L Height @ Planting : 400 mm Height @ Maturity: 1000 mm

***Arthropodium cirratum*  
Renga Renga**

Used widely as a ground-cover for dry shade and under trees. Forms large clumps of broad, medium-green, arching foliage. Graceful sprays of white star-shaped flowers from spring to mid-summer. Tolerates coastal winds. Hardy. 1m high x 1m wide.



@1000 mm CTRS

Grade: 1 L Height @ Planting : 300 mm Height @ Maturity: 800 mm

***Carex geminata*  
Cutty Grass**

A robust native grass with a wide spreading habit for wetland areas. It has creeping rhizomes and the green leaves have a sharp edge. Great for stabilising stream banks and restoration work. Evergreen. Hardy



Grade: 1 L Height @ Planting : 300 mm Height @ Maturity: 1000 mm

***Austroderia fulvida*  
Toe Toe**

It has sharp edged, 2m long leaves, that are dull on the upper side, and shiny on the under side. At flowering time the plant has an overall height of about 4m. The plant tolerates a wide range of climatic conditions and harsh soil conditions. It is useful for revegetation and for landscaping projects.



Grade: 1 L Height @ Planting : 500 mm Height @ Maturity: 2000 mm

***Cyperus ustulatus*  
Umbrella Sedge**

A vigorous sharp-edged swamp grass forming large thick clumps. It is primarily used for wetland revegetation and environmental remediation. The flowering stems can reach over 1.2m in height. Evergreen. Hardy.



Grade: 1 L Height @ Planting : 500 mm Height @ Maturity: 1000 mm

**Waste Water Species 2m+**

***Coprosma propinqua*  
Mingimingi**

A large, tough shrub with interlaced foliage. Laden with fruit that changes from white to dark blue. Good low shelter in a mixed native planting. Important food source for native birds. Tolerates wet soils. Evergreen. Hardy. 5m high x 3m wide.



@2000 mm centres

Grade: 3 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Cordyline australis*  
Ti Kouka**

An iconic New Zealand tree. Attractive en-masse, in mixed plantings or as a specimen. Multi-trunked with tufts of green foliage and sweetly-scented flowers. Evergreen. Hardy. 10m high x 2m wide.



@2000 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 10000 mm

***Kunzea robusta*  
Kanuka**

Bark usually basally detached long leathery strips. Branches bearing masses of green leaves and clusters of small white flowers. Branchlets usually copiously covered in silky, appressed hairs. 8m high x 3m wide.



@2000 mm centres

Grade: 3 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Plagianthus regius*  
Manatu**

Medium sized, wind resistant, spreading tree. Showy cream flowers. Small, divaricating, juvenile foliage is replaced by larger birch-like adult foliage. Fast-growing, even on exposed sites. Good shelter or specimen. Semi-deciduous. Hardy. 5m high x 3m wide.



@2000 mm centres

Grade: 3 L Height @ Planting : 600 mm Height @ Maturity: 5000 mm

***Phormium tenax*  
Harakeke**

A large common flax forming robust clumps of broad, green leaves. Great material for weaving and fibre. Tolerant of a wide range of sites including swampy and coastal. Excellent low shelter and erosion control. Evergreen. Very hardy. 3m high x 2m wide.



@2000 mm centres

Grade: 2 L Height @ Planting : 400 mm Height @ Maturity: 3000 mm

***Carpodetus serratus*  
Marble Leaf**

A shrub or tree with attractive 'marbled' leaves. Tangled juvenile foliage. White flowers are followed by purple fruit, which ripen to black from March-May. Intolerant of drought and wind. Does best on a moist semi-shaded site. Okay on coast. Evergreen. Frost tender when young.



@1000 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 10000 mm

***Hebe stricta*  
Hebe ( Veronica )**

A hebe found throughout the North Island with long pale green leaves and tiny white flowers in summer into a dense inflorescence longer than the leaves. The koromiko is a hardy plant and does not tolerate shade. Full sun only and prefers open habitats on edge of bush and wetlands as it tolerates wet areas



@1000 mm centres

Grade: 2 L Height @ Planting : 400 mm Height @ Maturity: 2000 mm

***Vitex lucens*  
Puriri**

Young trees of Vitex lucens typically grow upright, but will eventually form a large, spreading canopy after several decades. The leaves of Vitex lucens are a rich shade of green and feature wavy edges, adding to its ornamental value. In the late-autumn to mid-spring period,



@1000 mm centres

Grade: 2 L Height @ Planting : 600 mm Height @ Maturity: 8000 mm



**Trees**

***Agathis australis*  
Kauri**

Although one of the largest and longest living trees in the world, the Kauri's slow growth-rate makes it an appropriate and very special landscaping specimen for a native garden. Kauri prefer a moist soil which does not dry out over summer, tolerating some wet ground. Requires a sheltered, relatively frost-free site. Evergreen. 6m high x 3m wide (10 years).



Grade: 19 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Cordyline australis*  
Ti Kouka**

An iconic New Zealand tree. Attractive en-masse, in mixed plantings or as a specimen. Multi-trunked with tufts of green foliage and sweetly-scented flowers. Grows just about anywhere except the coldest regions of NZ. Fruit attracts birds from January-April. Produces nectar for bees from November. Evergreen. Hardy. 10m high x 2m wide.



Grade: 5 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Dacrydium dacrydioides*  
Kahikatea**

The tallest growing native tree, featuring handsome mature foliage and attractive buttressed roots. Slow growing. Best planted in moist to wet situations. Edible fruit/seed from February to April is attractive to birds. Evergreen. Intolerant of heavy frosts. 8m high x 3m wide (10 years).



Grade: 19 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Metrosideros excelsa*  
'Māori Princess' Pōhutukawa**

Upright, narrow growth habit. Like the traditional variety, it is a hardy plant that produces scarlet-red flowers from early to mid-summer, which attract birds. Does not develop untidy aerial roots. Has green leaves with silver-grey undersides. Evergreen. 8m high x 5m wide.



Grade: 19 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Podocarpus totara*  
Totara**

Attractive specimen and durable timber tree. Will grow in a wide range of sites including very exposed and partially shaded. Produces a dense clipped hedge. Fruit from March-May attracts birds. Nectar from October-December attracts bees. Evergreen. 15m high x 3m wide.



Grade: 19 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Sophora microphylla*  
Kowhai**

Small leguminous tree with attractive fern-like foliage. Tangled juvenile stage leads to a stately adult tree. Flowers profusely from September-November. Nectar attractive to birds. Semi-deciduous. Hardy to cold and wind. 8m high x 3m wide.



Grade: 10 L Height @ Planting : 600 mm Height @ Maturity: 3000 mm

***Hoheria populnea*  
Lacebark**

Attractive flowering tree with large leaves and scented white flowers. Prefers moist fertile soil. Good shelter and specimen, great in mixed borders. Fast growing and vigorous. Evergreen. Best on mild sites, as frost tender when young.



Grade: 10 L Height @ Planting : 800 mm Height @ Maturity: 8000 mm

**NOTES**

1. all tree locations to be confirmed on site
2. all trees to be double staked & hessian tied
3. all trees to have 8 x fert tablets placed in hole before planting
4. all trees to be 1.2 m or larger
5. all stormwater system planting is tbc
6. hemp mulch mats & blankets to all revegetation areas as per installation guidelines



'LOOK & FEEL'

LARGE SWATHES OF NATIVE SHRUBS & GROUND COVERS WITH CLUSTERS OF NATIVE TREE SPECIES WHERE APPROPRIATE



**FuturFiber®**

**Hemp Mulch Mats & Blankets**

**BENEFITS & FEATURES**

**Intro:**  
FuturFiber® Hemp mulch mats and blankets improve the growth and survival of plants by preventing weeds from germinating or growing. Placed or laid on the soil around plants, they protect seedlings from competitive weeds from stealing light, nutrients and moisture. The insulation properties of Hemp Fibres ensure protection from temperature extremes, providing an ideal growing environment for a plant.

**Benefits and Features:**

<p><b>PRESERVES SOIL MOISTURE</b></p> <ul style="list-style-type: none"> <li>Superior water holding capabilities.</li> <li>Traps moisture beneath mats.</li> </ul>	<p><b>100% BIODEGRADABLE</b></p> <ul style="list-style-type: none"> <li>Natural Hemp Fibres blended with your plants root.</li> <li>No synthetic fibres.</li> <li>3-4 year longevity.</li> </ul>	<p><b>ORGANIC</b></p> <ul style="list-style-type: none"> <li>BioGro® Certified Input for organic.</li> <li>Safe for humans, animals and the environment.</li> </ul>	<p><b>INSULATION PROPERTIES</b></p> <ul style="list-style-type: none"> <li>Protection from temperature extremes.</li> <li>Suitable for use in the horticultural industry.</li> </ul>
<p><b>EASY TO INSTALL</b></p> <ul style="list-style-type: none"> <li>Simply lay Hemp mat around the base of an individual plant.</li> <li>Lighter and easier to apply than mulch.</li> </ul>	<p><b>EXCELLENT VALUE</b></p> <ul style="list-style-type: none"> <li>Full depth systems available.</li> <li>Up to 50m width.</li> <li>Up to 1000gsm.</li> </ul>	<p><b>SOIL CONTACT</b></p> <ul style="list-style-type: none"> <li>Conforms to soil.</li> <li>Adaptability on uneven terrain.</li> </ul>	<p><b>LIGHT WEIGHT</b></p> <ul style="list-style-type: none"> <li>Allows for light generation, effectively suppressing weeds.</li> </ul>



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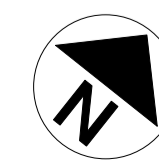


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**WAIPU GATEWAY SERVICE CENTRE**

47 MILLBROOK ROAD, WAIPU

**LANDSCAPE PACKAGE  
PLANT PALETTE**



SCALE : n/a  
DATE : 30 March 2023  
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**Garden Bed prep and mulch**

All garden beds to be free of builder waste with minimum 300 mm top soil , lightly compact to prevent future slumping to 125 mm below lawn or path level. Finish with 100 mm minimum layer of bark mulch or hemp matting as weed suppressant after the plant material has been planted. Ensure mulch is pulled back to in a V' to finish no more than 25 mm below garden bed timber edge or finished path level. Bark is not to touch the stems of plants. A small circle shall be cleared around the stem of each plant.

**Lawn Area/Hydroseed**

All lawn areas to have minimum 100 mm top soil. Compacted in 50mm layers minimum to prevent future slumping. Add 25mm layer Lawn Top Soil Mix and lightly compact. Cultivate to achieve a fine tilt at the finished lawn level height, ensuring there is no caking' of soil. Spray on Hydroseed mix with browntop fescue. Fertilise at 6 and 12 weeks with Andersons Slow release lawn fertiliser or similar. Weed spray at 12 weeks to remove any establishing weed growth with selective lawn weed spray.

**Planting**

Plant material shall be first class nursery stock, true to name and type, healthy and vigorous with a well developed root system, free of disease and physical damage. The roots shall have a high percentage of fibrous roots and not be obviously root bound with wrapped roots in a circular pattern in the container.

All planting holes shall be backfilled with top soil mix. An approved prolonged release fertiliser shall be applied at time of planting to manufacturers application rate. This shall be mixed through the backfill soil around each plant.

Planting holes shall be twice the size of the rootball in depth and width. Containerised plants shall be thoroughly soaked at the time of planting. Plants shall be set in their final position with the main stem vertical and at a depth that the firmed soil is at the same height as the nursery earth marks on the stem or the container growing media level. Backfill shall be carefully placed under and around the roots to fill all voids and consolidated so that no air pockets are present and the plant is firmly held. The planting bed shall be left even and free of hollows with any surplus soil removed. All plants are to be thoroughly watered, ensuring the plant receives moisture that penetrates the full root zone. Remove all plant tags after planting.

Any plant replacement varieties are to be approved by Form Garden Architecture before supply + planting.

