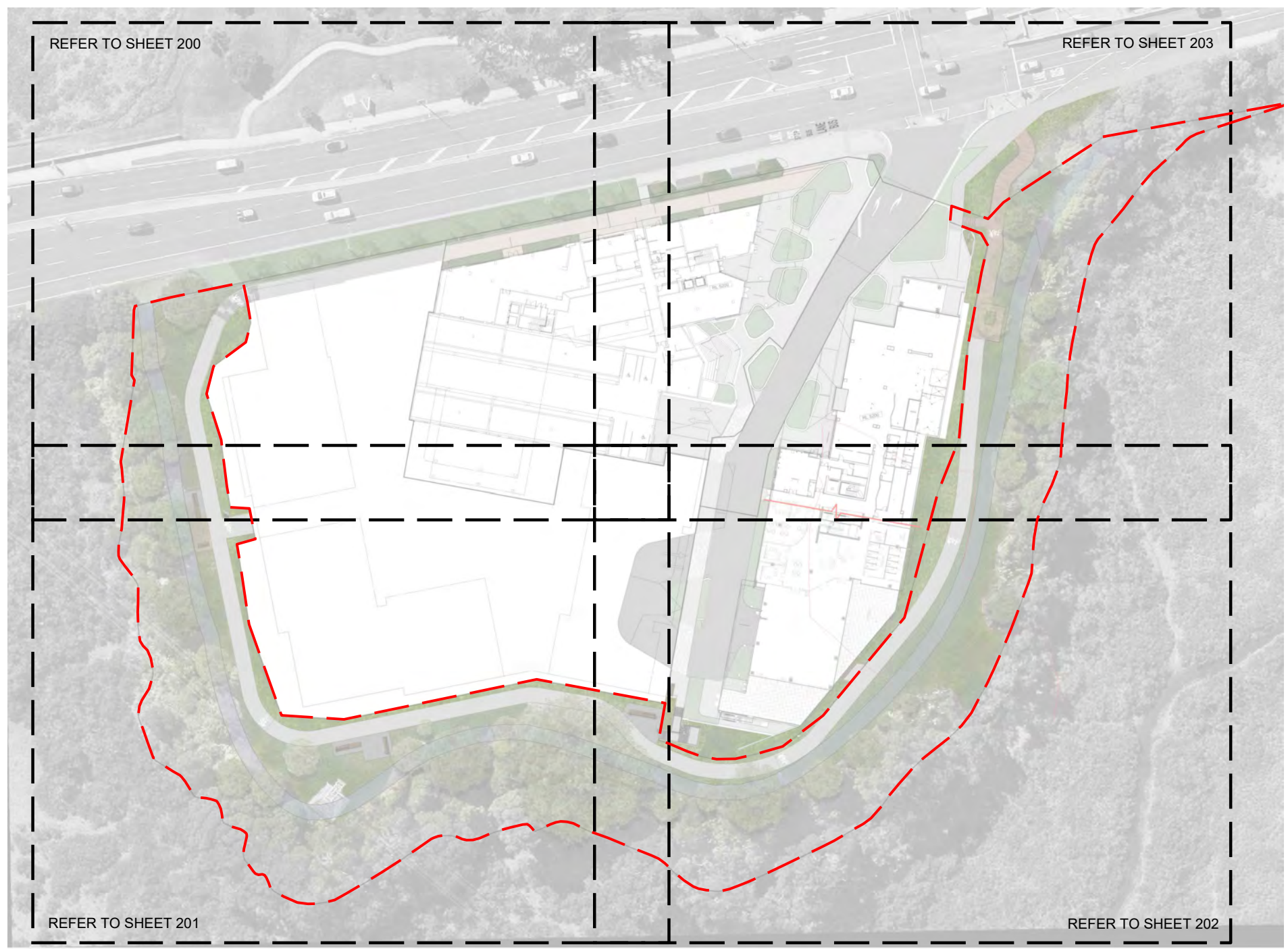


LEGEND

- — — Extent of works
- Page layout



Plotted: Wed, 29 Nov 2023 - 2:39pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway- PlantingDDPackage_Rev01.dwg

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
PLANTING KEY PLAN



STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-100**

CONTRACT NUMBER: **J004323**
 SCALE: **1:1000 @ A3**
 REVISION: **6**

LEGEND

Extent of works

PLANTING STRATEGY

Stellar Projects has been engaged by KBS Construction to provide landscape plans for 48 Esmond Road, Takapuna, Local Sharepath.

Through working with arborists from Peers Brown Miller LTS and ecologists from Wildlands, 4 planting mixes have been specified to be planted within the esplanade reserve area. Each mix populates different areas, with different design outcomes.

Refer to pages LA-DD-300 to LA-DD-304 for more detail around viewshafts and planting strategy.

PEST PLANT REMOVAL AREA.

- Carex virgata
- Corynocarpus laevigatus
- Cordyline australis
- Coprosma robusta
- Coprosma repens
- Didymocheton spectabilis
- Metrosideros excelsa
- Myoporum laetum
- Ozothamnus leptophyllus
- Pittosporum crassifolium
- Phormium tenax
- Vitex lucens

PLANTING STRATEGY.

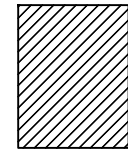
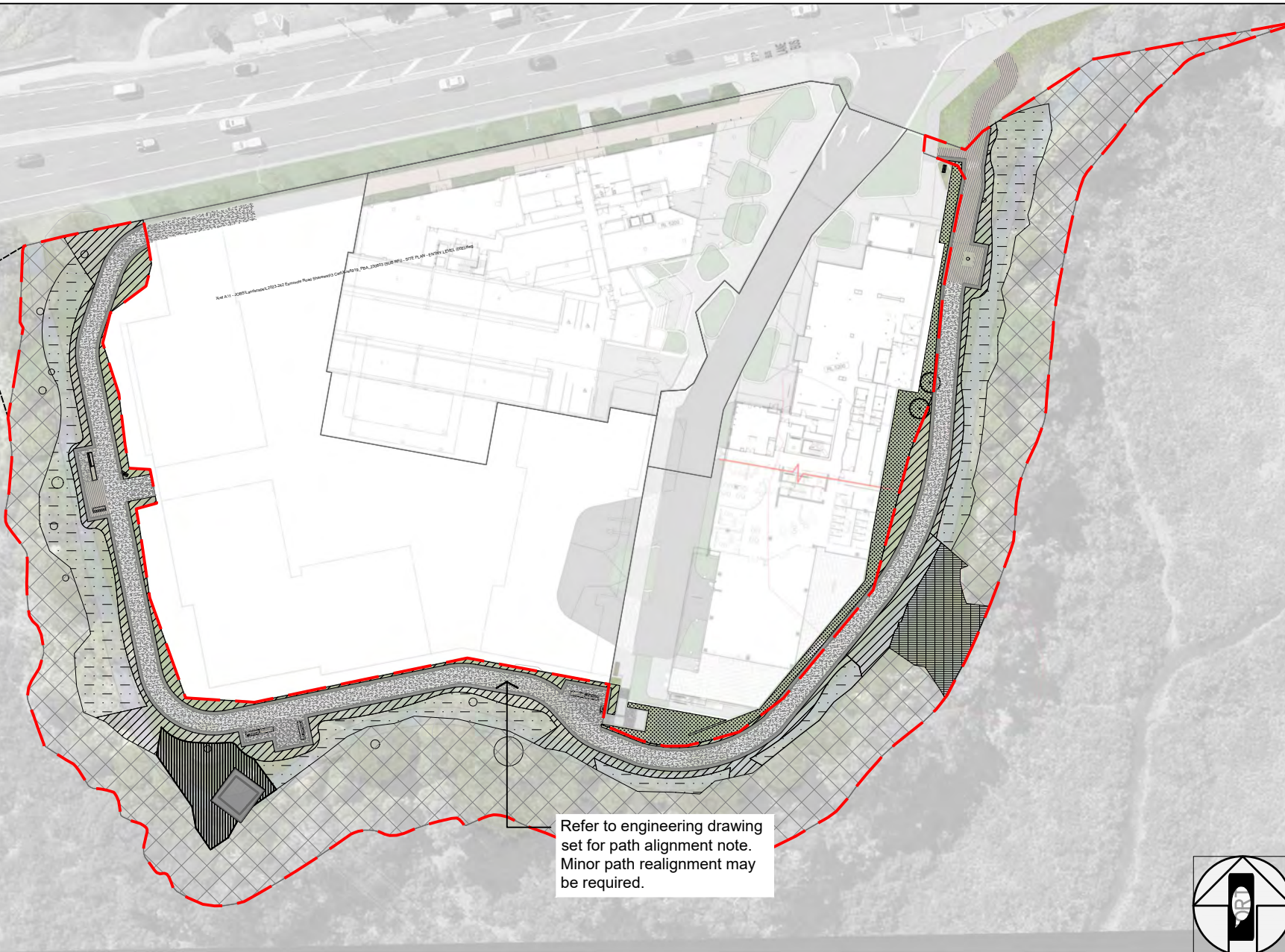
Refer to **Ecological Management Plan for a Proposed Esplanade Reserve at 48 Esmond Road, Takapuna, Wildlands, R5000e, dated July 2023**, for more information.

Indigenous planting is required around the proposed pathway, and to infill the areas of pest plant removal.

Restoration works should follow the timeline presented in Section 9 (page 15) of the referenced report.

Planting to be spaced at 1m centres. Numbers to be confirmed on site during planting implementation.

Planting to occur on slopes no steeper than 1:3



PLANTING MIX 1 - ESPLANADE.

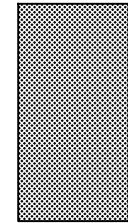
- Arthropodium cirratum
- Carex flagellifera
- Carex testacea
- Libertia peregrinans
- Muehlenbeckia axillaris

PLANTING STRATEGY.

4 native groundcovers and one flowering shrub will be planted alongside the shareway with a 600mm offset from the edge of the path.

The low growing plants will provide clear sightlines to identified viewshafts, and the groundcovers can be easily maintained to avoid overgrowing the pathway. The planting also borders the hotel boundary and architecture, which leaves opportunity for integration with the architecture to enhance both the sharepath and the development.

The typology where Planting Mix 1 will be planted is relatively flat, with some gentle slopes down the bank. Low growing planting will maintain all sightlines.



PLANTING MIX 2 - WITHIN HOTEL BOUNDARY.

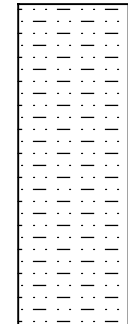
- Apodasmia similis
- Arthropodium cirratum
- Astelia banksii
- Carex flagellifera
- Carex testacea
- Coprosma repens 'Poor Knights'
- Phormium cookianum 'Emerald Gem'

PLANTING STRATEGY.

A mixture of native groundcovers, flowering shrubs, and grasses will be planted within the hotel boundary. Refer to 48 Esmond Road Hotel Landscaping Package for final numbers.

This mixture provides varying height and texture, with green and red tones, to provide visual interest inside of the hotel boundary. Planting will be grouped into groups of 3-5 to create a naturalistic feeling.

The typology where Planting Mix 2 will be planted is relatively flat, with architecture often meeting the planting boundary. Low growing planting will maintain all sightlines at the front of the planting, while taller flowering plants will provide colour and height to soften the architectural elevations.



PLANTING MIX 3 - ESPLANADE

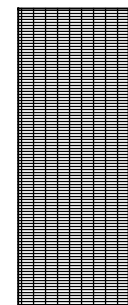
- Carex virgata
- Coprosma repens
- Coprosma robusta
- Cordyline australis
- Corynocarpus laevigatus
- Didymocheton spectabilis
- Metrosideros excelsa
- Myoporum laetum
- Ozothamnus laetum
- Phormium tenax
- Pittosporum crassifolium
- Vitex lucens

PLANTING STRATEGY.

Refer to Wildlands Ecological Assessment and Management Plan. The mixture of native groundcovers, shrubs, and trees, reflect the site context, with focus on plants best suited to the site. The plant mixture will be planted on the outside of the shared path, integrating into the existing vegetation and infilling areas of pest plant removal.

Due to the slight slope of the site in this area of planting, plants will be placed with taller growing species at the rear to allow for clear sightlines to identified viewshafts.

The typology where Planting Mix 3 will be planted contains slopes going down the bank at different gradients. In order to maintain sightlines, lower growing plants and groundcovers will be planted on flat areas, with taller shrubs populating the rear of the planting area. Trees will be planted throughout the mix, crown lifted once established to maintain viewshafts.



PLANTING MIX 4 - ESPLANADE

- Astelia banksii
- Carex lessoniana
- Coprosma repens
- Coprosma robusta
- Didymocheton spectabilis
- Kunzea robusta
- Metrosideros excelsa
- Myoporum laetum
- Ozothamnus laetum
- Phormium tenax
- Vitex lucens

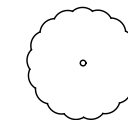
PLANTING STRATEGY.

Refer to Wildlands Ecological Assessment and Management Plan. The mixture of native groundcovers, shrubs, and trees, reflect the site context, with focus on plants best suited to the site. The plant mixture will be planted in the area which was effected by a landslip.

Plants chosen have strong root systems in order to provide ground stability and prevent future ground movement.

The typology where Planting Mix 4 is very steep, due to a landslip. In order to maintain sightlines, lower growing plants and groundcovers will be planted on less sloped areas, with taller shrubs populating the rest of the area. Trees will be planted throughout the mix to provide height while enabling viewshafts.

This planting will only be planted on slopes no greater than 1:3.



FEATURE TREES

- Metrosideros excelsa

PLANTING STRATEGY.

Pohutukawa trees are naturally found in coastal environments. These trees will provide seasonal colour and reflect the surrounding context.



EXISTING TREES AND CANOPY

To be protected throughout implementation of planting.

PLANTING STRATEGY.

The existing canopy cover and trees will be protected and retained throughout site works and planting implementation, to maintain ground stability and ground the site within the wider context.

Refer to engineering drawing set for path alignment note. Minor path realignment may be required.



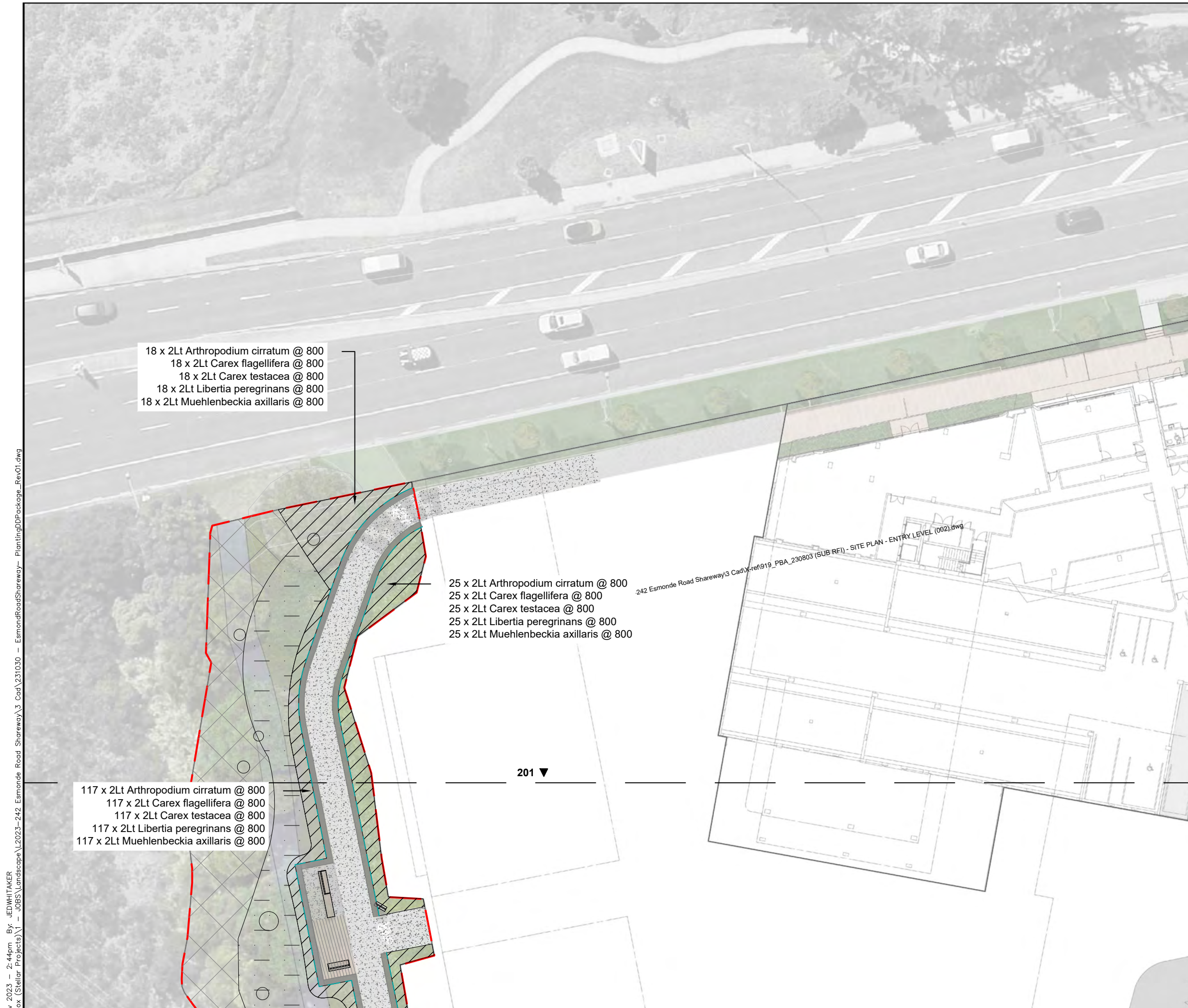
Plotted: Wed, 29 Nov 2023 - 2:41pm. By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscaping\2023-242 Esmond Road Shareway\3 Cad\231030 - Esmond Road Shareway\3 PlantingDDPackage_Rev01.dwg

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	09/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
 PLANTING STRATEGY



STATUS:	DEVELOPED DESIGN	CONTRACT NUMBER:	J004323
DRAWING NO.:	LA-DD-150	SCALE:	1:1000 @ A3
REVISION:	6		



KEY PLAN



LEGEND

- Extent of works
- Planting setback - 600mm
- PLANTING MIX 1 - ESPLANADE**
Note: Placement to be confirmed by a Landscape Architect on site at the time of planting. Refer to planting details, detail 1/401, 2/401 and planting specifications.
- PLANTING MIX 2 - WITHIN HOTEL BOUNDARY.**
Final numbers to be confirmed on 48 esmond road hotel landscape package.
- NOTE:** Border planting to stage 3 will evolve to enhance both the sharepath and residential development once architecture is confirmed.
- PLANTING MIX 3 - ESPLANADE**
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402, detail 2/402 and planting specifications.
- PLANTING MIX 4 - ESPLANADE**
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/403, detail 2/403 and planting specifications.
- PEST REMOVAL AREA - ESPLANADE**
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402 and planting specifications.
Planting numbers to be confirmed on site.
- FEATURE TREES**
Refer to planting detail 1/401 and planting specifications.
- EXISTING TREES AND CANOPY**
To be protected throughout implementation of planting. Refer to specifications.
- PRIVATE ACCESS GATE**

NOTE: Refer to **Ecological Management Plan for a Proposed Esplanade Reserve at 48 Esmond Road, Takapuna, Wildlands, R5000e, dated July 2023**, for more information.
Planting to occur on slopes no steeper than 1:3.

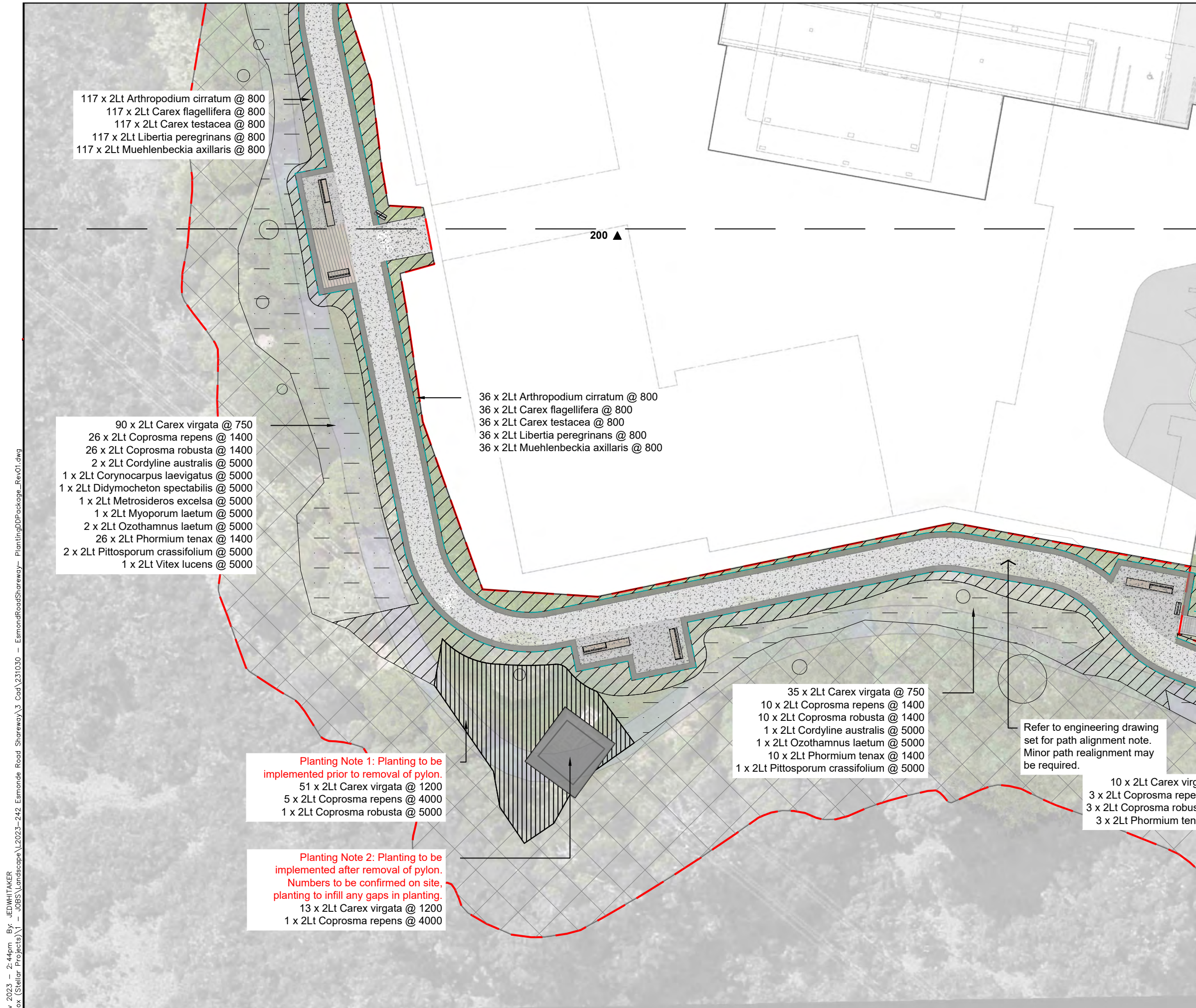
Plotted: Wed, 29 Nov 2023 - 2:44pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmond Road Shareway\3 Cad\231030 - Esmond Road Shareway - PlantingDDPackage_Rev01.dwg

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	09/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
PLANTING PLAN 1 OF 4



STATUS:	DEVELOPED DESIGN	CONTRACT NUMBER:	J004323
DRAWING NO.:	LA-DD-200	SCALE:	1:400 @ A3
REVISION:	6		



KEY PLAN

LEGEND

- Extent of works
- Planting setback - 600mm
- PLANTING MIX 1 - ESPLANADE
Note: Placement to be confirmed by a Landscape Architect on site at the time of planting. Refer to planting details, detail 1/401, 2/401 and planting specifications.
- PLANTING MIX 2 - WITHIN HOTEL BOUNDARY.
Final numbers to be confirmed on 48 esmond road hotel landscape package.
- NOTE: Border planting to stage 3 will evolve to enhance both the sharepath and residential development once architecture is confirmed.
- PLANTING MIX 3 - ESPLANADE
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402, detail 2/402 and planting specifications.
- PLANTING MIX 4 - ESPLANADE
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/403, detail 2/403 and planting specifications.
- PEST REMOVAL AREA - ESPLANADE
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402 and planting specifications. Planting numbers to be confirmed on site.
- FEATURE TREES
Refer to planting detail 1/401 and planting specifications.
- EXISTING TREES AND CANOPY
To be protected throughout implementation of planting. Refer to specifications.
- PRIVATE ACCESS GATE

NOTE: Refer to **Ecological Management Plan for a Proposed Esplanade Reserve at 48 Esmond Road, Takapuna, Wildlands, R5000e, dated July 2023**, for more information. Planting to occur on slopes no steeper than 1:3.

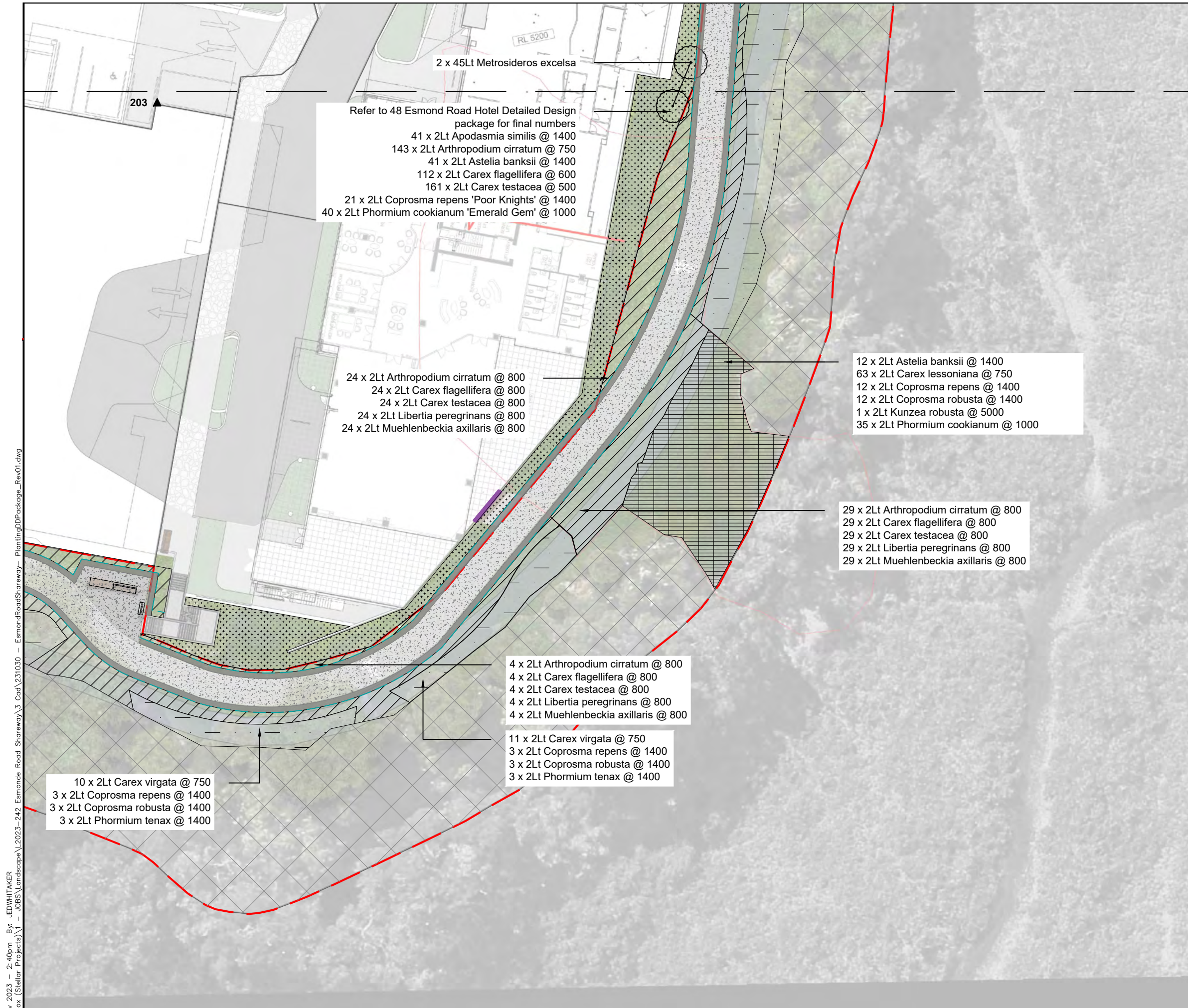
Plotted: Wed, 29 Nov 2023 - 2:44pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmond Road Shareway\3 Cad\231030 - EsmondRoadShareway - PlantingDDPackage_Rev01.dwg

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	09/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
PLANTING PLAN 2 OF 4



STATUS:	DEVELOPED DESIGN	CONTRACT NUMBER:	J004323
DRAWING NO.:	LA-DD-201	SCALE:	1:400 @ A3
REVISION:	6		



KEY PLAN



LEGEND

- Extent of works
- Planting setback - 600mm
- PLANTING MIX 1 - ESPLANADE
Note: Placement to be confirmed by a Landscape Architect on site at the time of planting. Refer to planting details, detail 1/401, 2/401 and planting specifications.
- PLANTING MIX 2 - WITHIN HOTEL BOUNDARY.
Final numbers to be confirmed on 48 esmond road hotel landscape package.
- PLANTING MIX 3 - ESPLANADE
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402, detail 2/402 and planting specifications.
- PLANTING MIX 4 - ESPLANADE
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/403, detail 2/403 and planting specifications.
- PEST REMOVAL AREA - ESPLANADE
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402 and planting specifications.
Planting numbers to be confirmed on site.
- FEATURE TREES
Refer to planting detail 1/401 and planting specifications.
- EXISTING TREES AND CANOPY
To be protected throughout implementation of planting. Refer to specifications.
- PRIVATE ACCESS GATE

NOTE: Refer to **Ecological Management Plan for a Proposed Esplanade Reserve at 48 Esmond Road, Takapuna, Wildlands, R5000e, dated July 2023**, for more information.
Planting to occur on slopes no steeper than 1:3.

Plotted: Wed, 29 Nov 2023 - 2:40pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondRoadShareway- PlantingDDPackage_Rev01.dwg

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	CB	23/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	JW	04/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

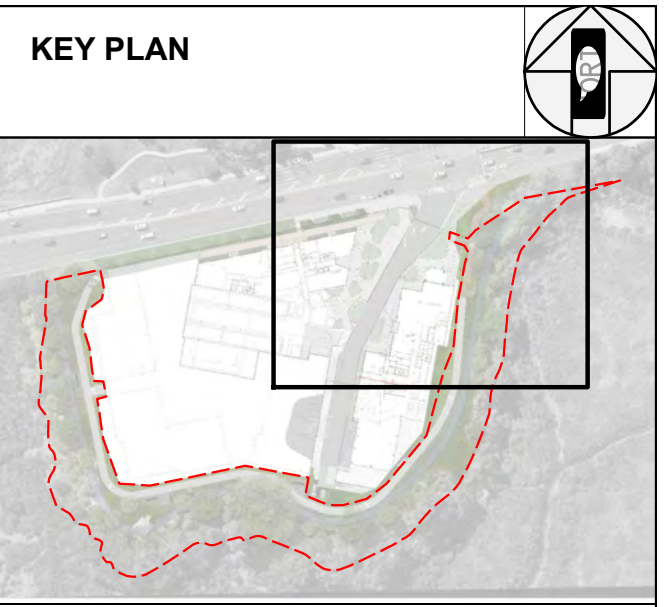
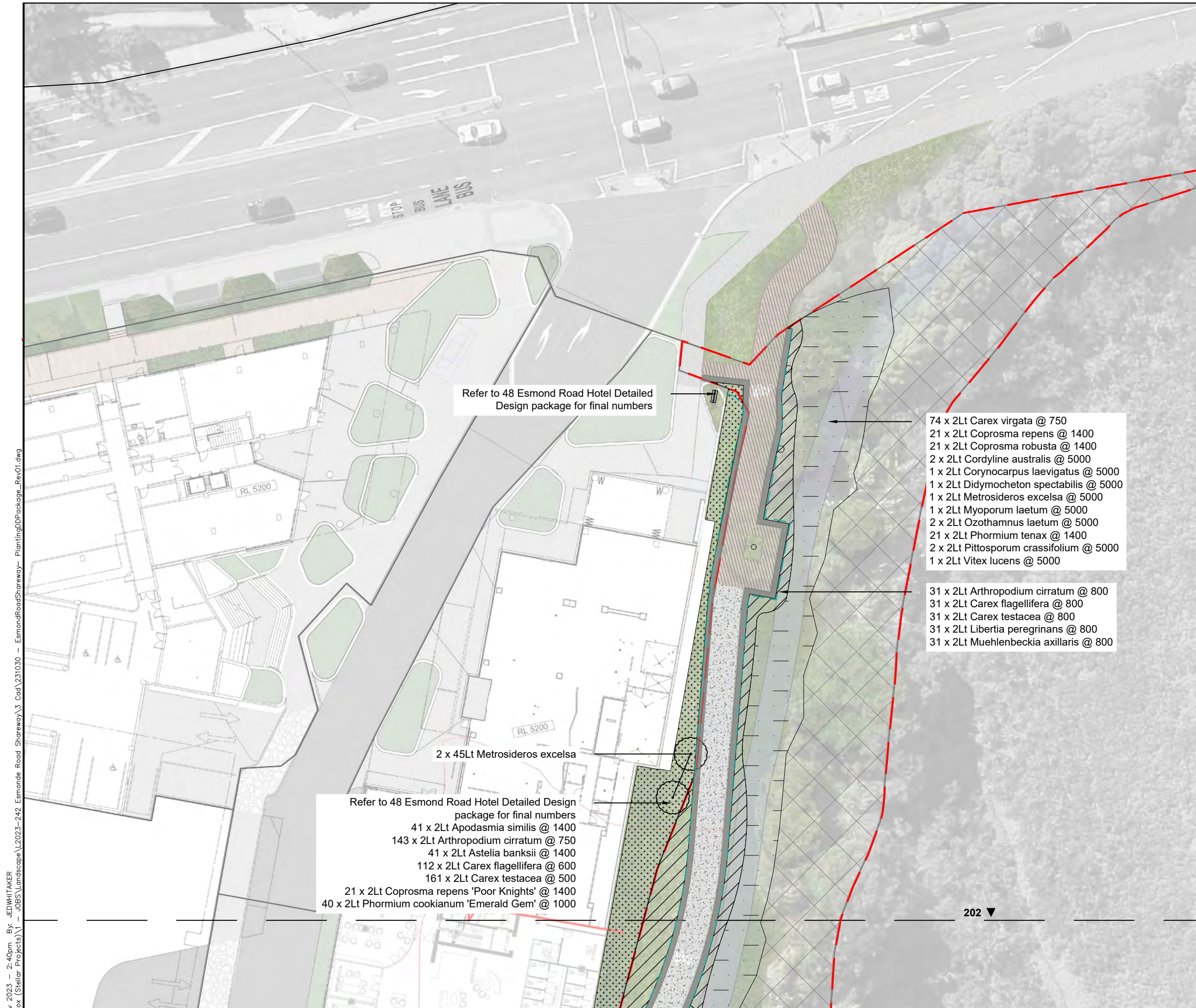
KBS CONSTRUCTION

48 ESMONDE ROAD LOCAL SHAREPATH

PLANTING PLAN 3 OF 4



STATUS:	DEVELOPED DESIGN	CONTRACT NUMBER:	J004323
DRAWING NO.:	LA-DD-202	SCALE:	1:400 @ A3
REVISION:	6		



LEGEND

- Extent of works
- Planting setback - 600mm
- PLANTING MIX 1 - ESPLANADE**
Note: Placement to be confirmed by a Landscape Architect on site at the time of planting. Refer to planting details, detail 1/401, 2/401 and planting specifications.
- PLANTING MIX 2 - WITHIN HOTEL BOUNDARY.**
Final numbers to be confirmed on 48 esmond road hotel landscape package.
- NOTE:** Border planting to stage 3 will evolve to enhance both the sharepath and residential development once architecture is confirmed.
- PLANTING MIX 3 - ESPLANADE**
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402, detail 2/402 and planting specifications.
- PLANTING MIX 4 - ESPLANADE**
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/403, detail 2/403 and planting specifications.
- PEST REMOVAL AREA - ESPLANADE**
Refer to Wildlands Ecological Assessment and Management Plan
Refer to planting detail 1/401, detail 1/402 and planting specifications.
Planting numbers to be confirmed on site.
- FEATURE TREES**
Refer to planting detail 1/401 and planting specifications.
- EXISTING TREES AND CANOPY**
To be protected throughout implementation of planting. Refer to specifications.
- PRIVATE ACCESS GATE**

NOTE: Refer to **Ecological Management Plan for a Proposed Esplanade Reserve at 48 Esmond Road, Takapuna, Wildlands, R5000e, dated July 2023**, for more information.
 Planting to occur on slopes no steeper than 1:3.

Plotted: Wed, 29 Nov 2023 - 2:40pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - Esmonde Road Shareway - PlantingDDPackage_Rev01.dwg

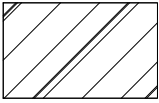
BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	CB	23/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	JW	04/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
PLANTING PLAN 4 OF 4

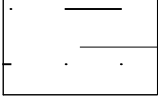


STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-203**
 CONTRACT NUMBER: **J004323**
 SCALE: 1:400 @ A3
 REVISION: **6**

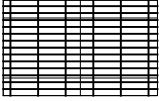
PLANTING MIX 1 - TO BE PLANTED 600MM OFF PATHWAY

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Percent	Description
	284	Arthropodium cirratum	Renga Renga	2Lt	800 mm	20	Flowering shade tolerant strappy leaved shrub
	284	Carex flagellifera	Glen Murray tussock	2Lt	800 mm	20	Arching native sedge
	284	Carex testacea	NZ Sedge	2Lt	800 mm	20	Red coloured sedge
	284	Libertia peregrinans	Mikoikoi	2Lt	800 mm	20	Stiff leaved flowering plant
	284	Muehlenbeckia axillaris	Creeping pohuehue	2Lt	800 mm	20	Dense groundcover with small green leaves

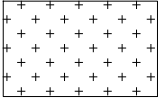
PLANTING MIX 3

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Percent	Description
	220	Carex virgata	Pukio	2Lt	750 mm	10	Swamp loving sedge to revegetation areas
	63	Coprosma repens	Coprosma sp.	2Lt	1400 mm	10	Border plant or mass groundcover to revegetation areas
	63	Coprosma robusta	Karamu	2Lt	1400 mm	10	Fast growing tree to revegetation areas
	5	Cordyline australis	Cabbage Tree	2Lt	5000 mm	10	Multi-trunked tree to revegetation areas
	2	Corynocarpus laevigatus	Karaka	2Lt	5000 mm	6	Native tree with round form to revegetation areas
	2	Didymocheton spectabilis	Kohekohe	2Lt	5000 mm	6	A very distinctive tree which with its large compound green leaves to revegetation areas
	2	Metrosideros excelsa	Pohutukawa	2Lt	5000 mm	6	Native coastal tree with red flowers to revegetation areas
	2	Myoporum laetum	Ngaio	2Lt	5000 mm	6	Dense and fast growing tree to revegetation areas
	5	Ozothamnus laetum	Ngaio	2Lt	5000 mm	10	Rapid growing shrub to revegetation areas
	63	Phormium tenax	Harakeke	2Lt	1400 mm	10	Large native flax to revegetation areas
	5	Pittosporum crassifolium	Tarata	2Lt	5000 mm	10	Quick growing tree to revegetation areas
	2	Vitex lucens	Puriri	2Lt	5000 mm	6	Rounded tree with crinkled leaves to revegetation areas

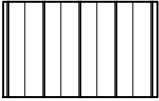
PLANTING MIX 4

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Percent	Description
	12	Astelia banksii	Wharawhara	2Lt	1400 mm	10	Flax like plant with silver leaves
	63	Carex lessoniana	Rautahi	2Lt	750 mm	15	Native green sedge to revegetate areas and help with land stabilisation
	12	Coprosma repens	Coprosma sp.	2Lt	1400 mm	10	Border plant or mass groundcover to revegetation areas
	12	Coprosma robusta	Karamu	2Lt	1400 mm	10	Fast growing tree to revegetation areas
	1	Kunzea robusta	Kanuka	2Lt	5000 mm	15	Fast growing regeneration tree with small flowers
	35	Phormium cookianum	Mountain Flax	2Lt	1000 mm	15	Small flax with green leaves to revegetation areas


PLANTING MIX 2 - INSIDE OF HOTEL BOUNDARY. REFER TO PULLMAN OF TAKAPUNA HOTEL DOCUMENTATION FOR FINAL NUMBERS.

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Percent	Description
	41	Apodasmia similis	Oioi	2Lt	1400 mm	20	Tall upright tolerant grass, green and with brown notches
	143	Arthropodium cirratum	Renga Renga	2Lt	750 mm	20	Flowering shade tolerant strappy leaved shrub
	41	Astelia banksii	Wharawhara	2Lt	1400 mm	20	Flax like plant with silver leaves
	112	Carex flagellifera	Glen Murray tussock	2Lt	600 mm	10	Arching native sedge
	161	Carex testacea	NZ Sedge	2Lt	500 mm	10	Red coloured sedge
	21	Coprosma repens 'Poor Knights'	Coprosma sp.	2Lt	1400 mm	10	Native border plant or mass groundcover
	40	Phormium cookianum 'Emerald Gem'	Dwarf Flax	2Lt	1000 mm	10	Small flax plant

PYLON PLANTING - PRE REMOVAL

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Percent	Description
	51	Carex virgata	Pukio	2Lt	1200 mm	40	Swamp loving sedge to revegetation areas
	5	Coprosma repens	Coprosma sp.	2Lt	4000 mm	40	Border plant or mass groundcover to revegetation areas
	1	Coprosma robusta	Karamu	2Lt	5000 mm	20	Fast growing tree to revegetation areas

PYLON PLANTING - POST REMOVAL

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Percent	Description
	13	Carex virgata	Pukio	2Lt	1200 mm	40	Swamp loving sedge to revegetation areas
	1	Coprosma repens	Coprosma sp.	2Lt	4000 mm	40	Border plant or mass groundcover to revegetation areas

Plotted: Wed, 29 Nov 2023 - 2:41pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - Esmonde Road Shareway - PlantingDDPackage_Rev01.dwg

DESIGNED:	JW	24/07/23	6	PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
DRAWN:	LL	28/07/23	5	PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
DWG CHK:	AB	28/07/23	4	PLANTING PLAN - S92	AB	EH	03/11/23
DSGN CHK:	JW	31/07/23	3	PLANTING PLAN REISSUE - ECOLOGY	AB	EH	09/09/23
APPROVED:	JW	04/08/23	2	PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
			1	PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
			0	PLANTING PLAN ISSUE	AB	JW	04/08/23
BY:	DATE	REVISION			BY:	APRVD	DATE

KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
PLANTING SCHEDULE

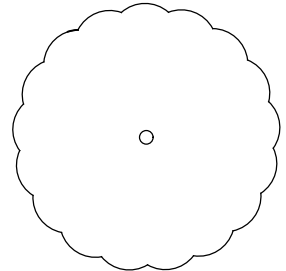


STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-250**

CONTRACT NUMBER: **J004323**
 SCALE: **NOT TO SCALE**
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:45pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway- PlantingDDPackage_Rev01.dwg

FEATURE TREES

Sym.	Qty.	Botanic Name	Common Name	Pot	Spacing	Size	Description
	2	Metrosideros excelsa	Pohutukawa	45Lt	AS SHOWN	4m	Native coastal tree with red flowers to provide seasonal colour along shareway

DESIGNED:	JW	24/07/23	6	PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
DRAWN:	LL	28/07/23	5	PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
DWG CHK:	AB	28/07/23	4	PLANTING PLAN - S92	AB	EH	03/11/23
DSGN CHK:	JW	31/07/23	3	PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/08/23
APPROVED:	JW	04/08/23	2	PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
			1	PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
			0	PLANTING PLAN ISSUE	AB	JW	04/08/23
BY:	DATE	REVISION			BY:	APRVD	DATE

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
TREE PLANTING SCHEDULE



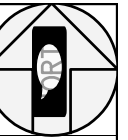
STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-251**

CONTRACT NUMBER: **J004323**
 SCALE: **NOT TO SCALE**
 REVISION: **6**

LEGEND

— Extent of works

NOTE: All trees are to be retained. See Ecologist plan for seedling/sapling removal.



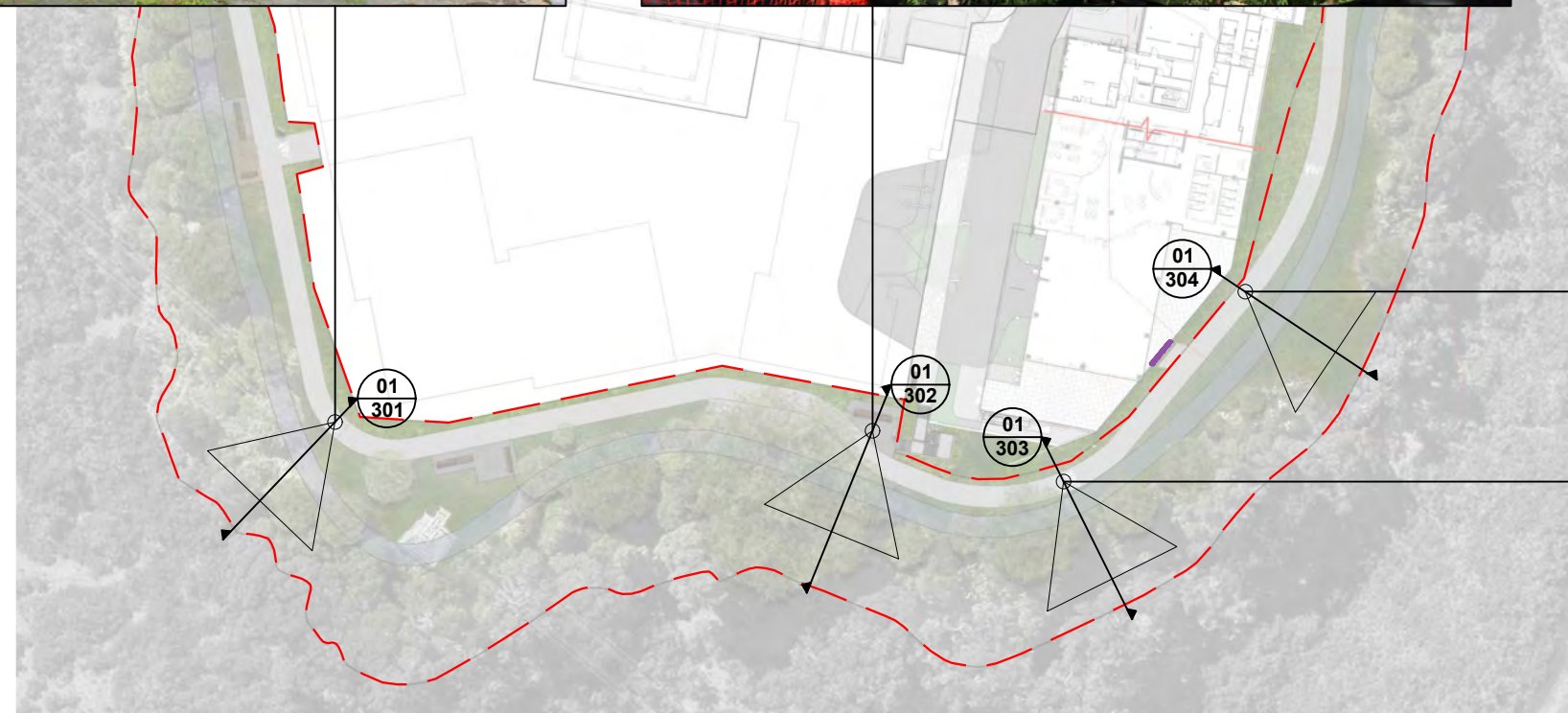
Viewshaft 1 - Refer to page 301



Viewshaft 2 - Refer to page 302



Viewshaft 4 - Refer to page 304



Viewshaft 3 - Refer to page 303



Plotted: Wed, 29 Nov 2023 - 2:42pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway- PlantingDDPackage_Rev01.dwg

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/08/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
		1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
		0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
VIEWSHAFT KEY PLAN



STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-300**

CONTRACT NUMBER: **J004323**
 SCALE: 1:400 @ A3
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:45pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway- PlantingDDPackage_Rev01.dwg

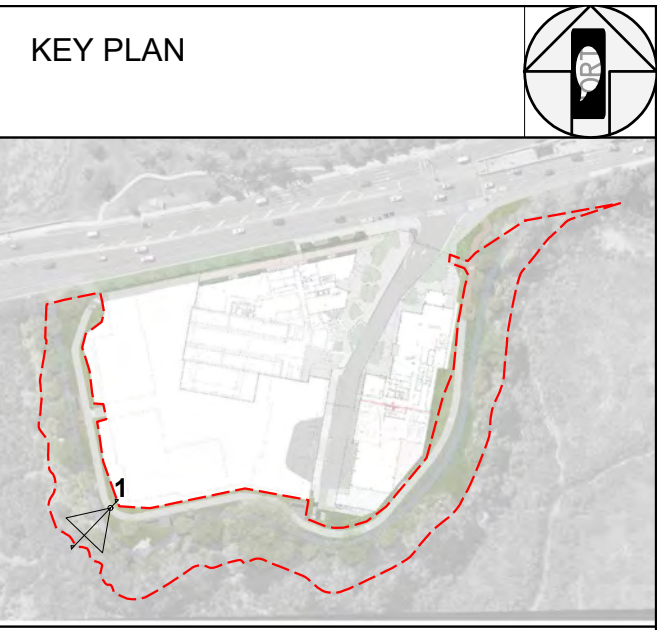


Established planting to be retained outside of planting areas. Pest plant species to be removed in accordance to Ecologist report.

01 VIEWSHAFT 1 - CROSS SECTION
 301 SCALE: 1:100 @ A3



02 VIEWSHAFT 1
 301



BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
VIEWSHAFT 1

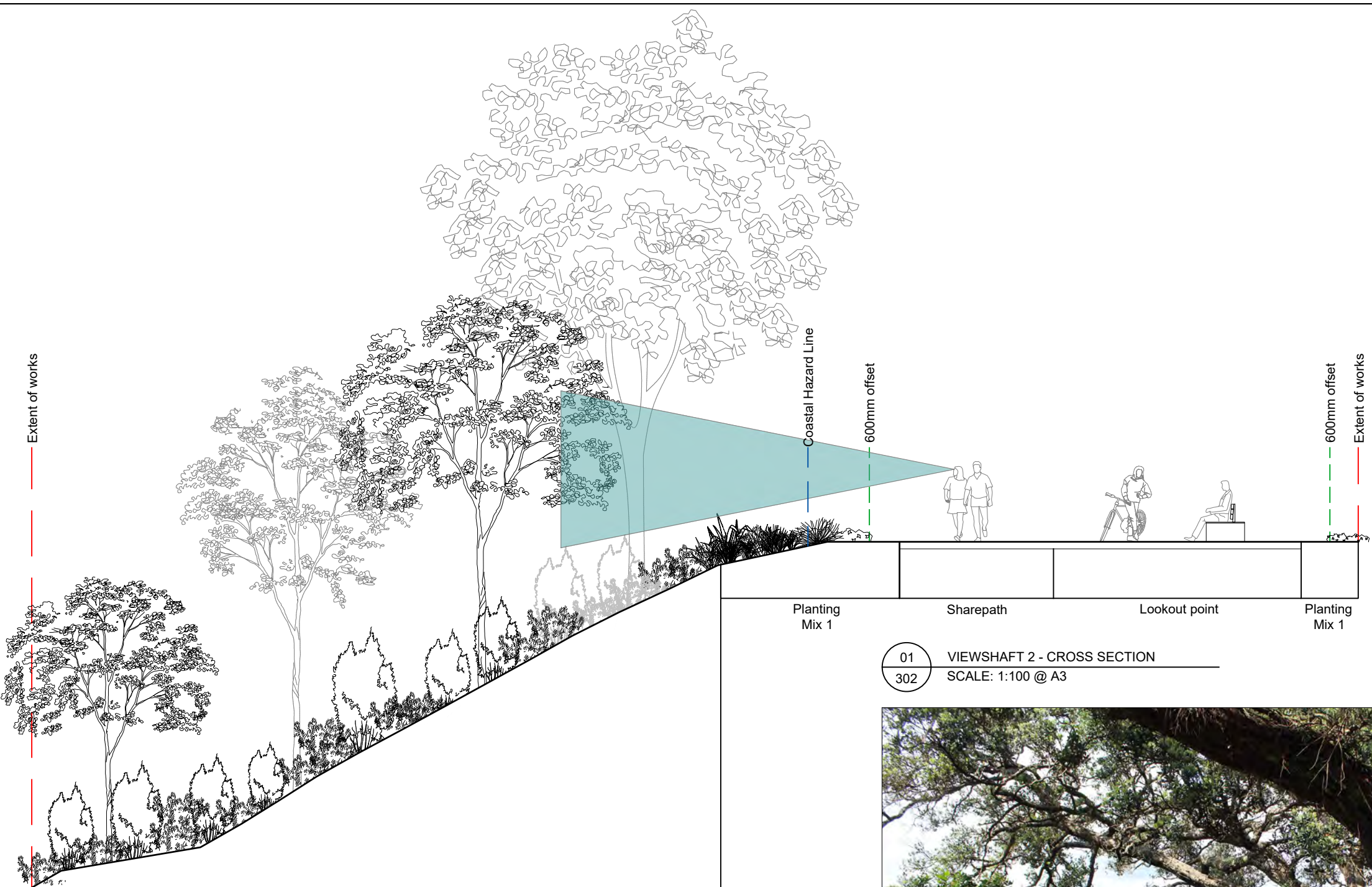
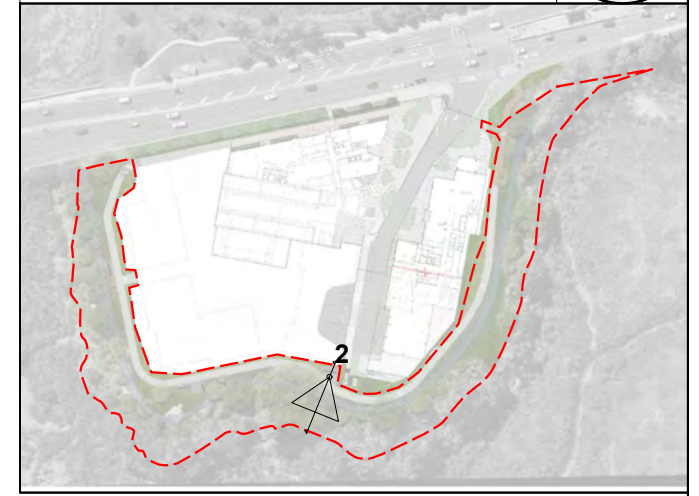


STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-301**

CONTRACT NUMBER: **J004323**
 SCALE: 1:400 @ A3
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:43pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - Esmonde Road Shareway - PlantingDDPackage_Rev01.dwg

KEY PLAN



Established planting to be retained outside of planting areas. Pest plant species to be removed in accordance to Ecologist report.

01 VIEWSHAFT 2 - CROSS SECTION
 302 SCALE: 1:100 @ A3



02 VIEWSHAFT 2
 302

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/08/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN REISSUE	AB	JW	04/08/23

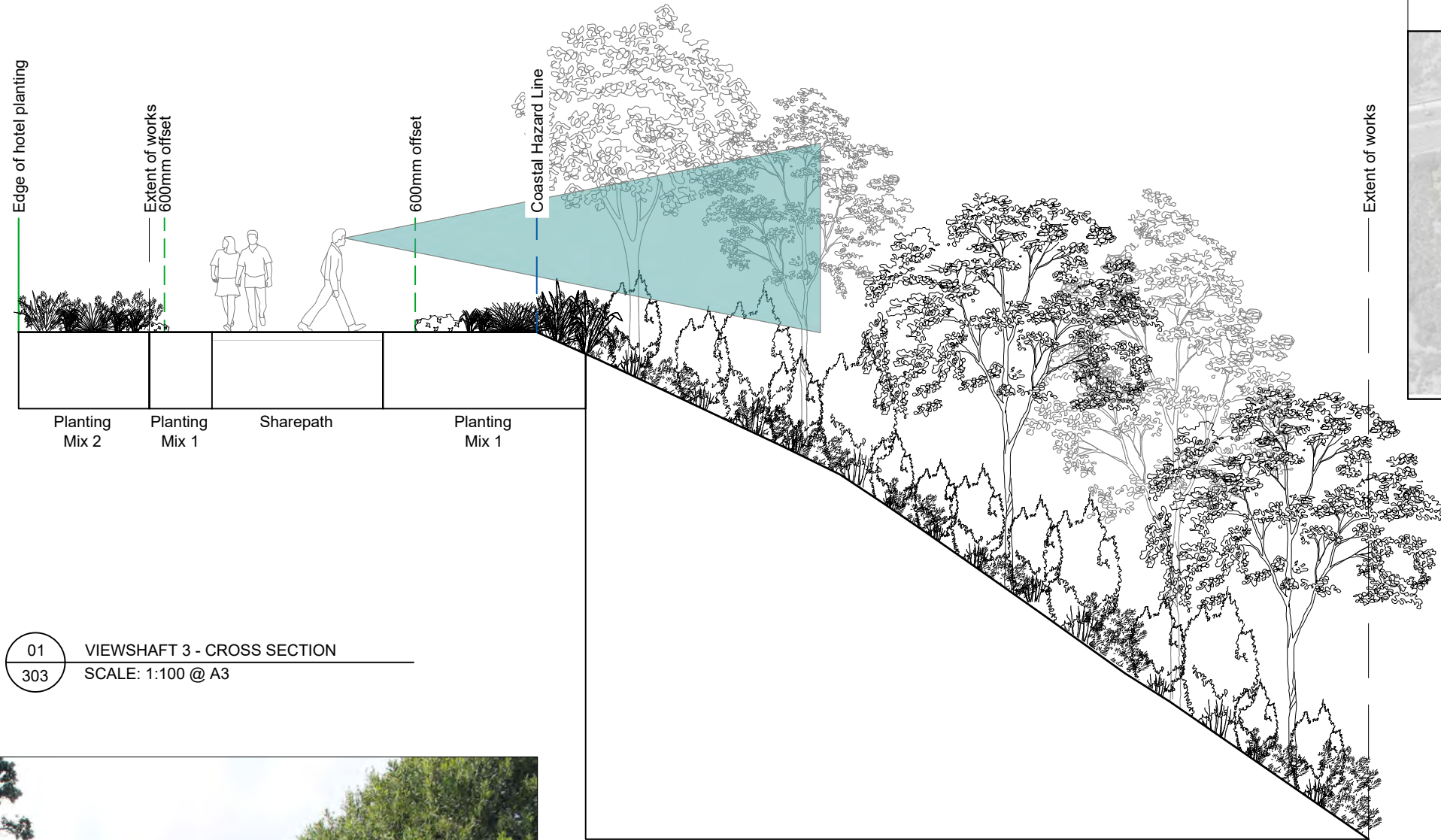
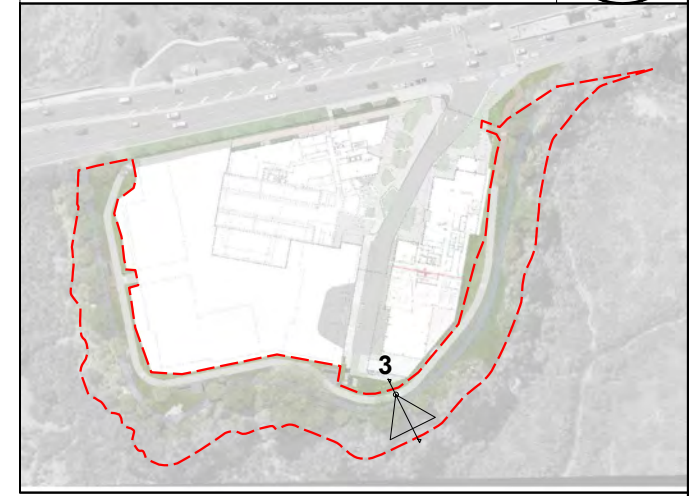
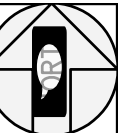
KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
VIEWSHAFT 2



STATUS:	DEVELOPED DESIGN	CONTRACT NUMBER:	J004323
DRAWING NO.:	LA-DD-302	SCALE:	1:400 @ A3
REVISION:	6		

Plotted: Wed, 29 Nov 2023 - 2:41pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway- PlantingDDPackage_Rev01.dwg

KEY PLAN



01 VIEWSHAFT 3 - CROSS SECTION
 303 SCALE: 1:100 @ A3

Established planting to be retained outside of planting areas. Pest plant species to be removed in accordance to Ecologist report.



02 VIEWSHAFT 3
 303

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

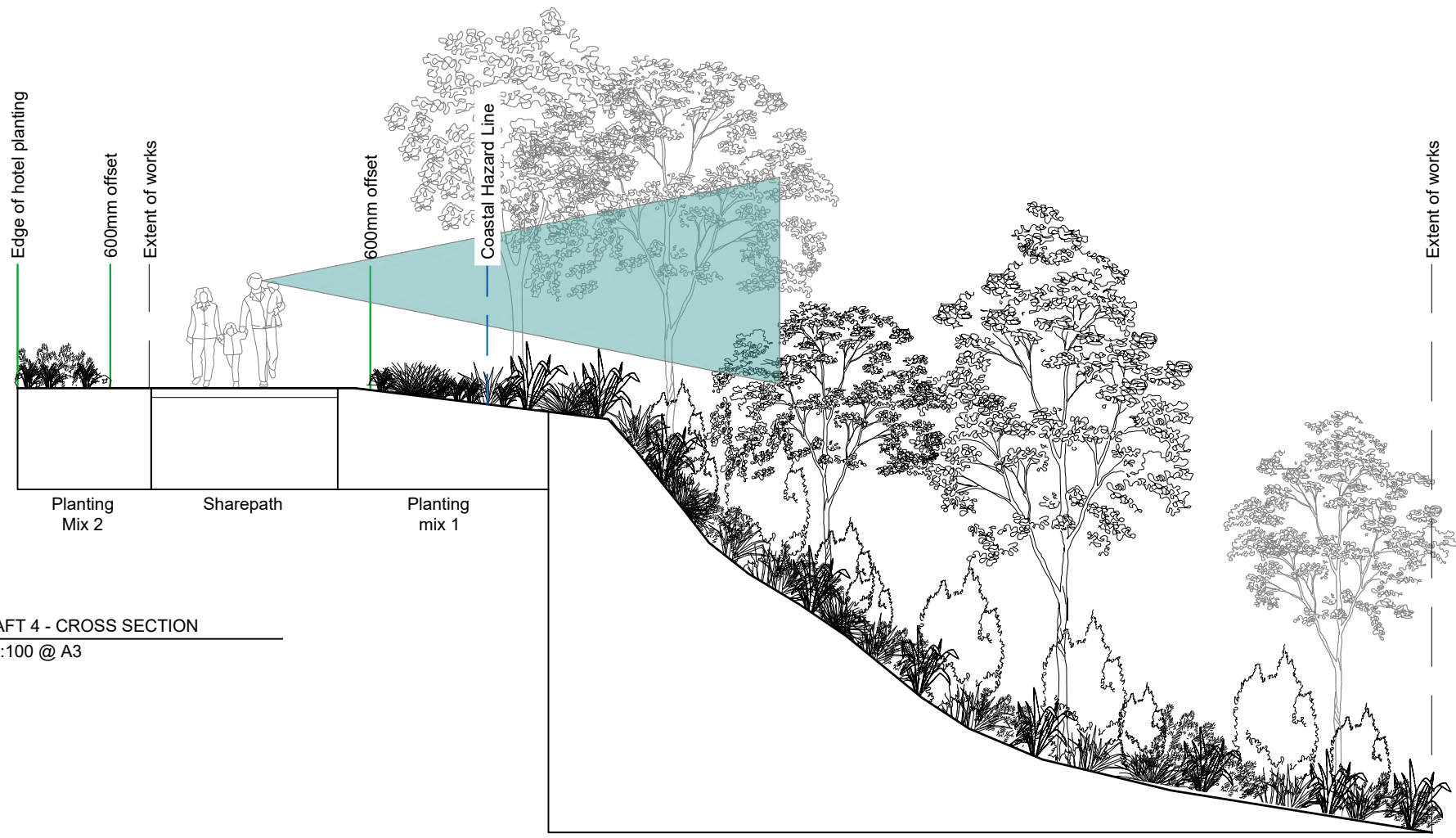
KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
 VIEWSHAFT 3



STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-303**

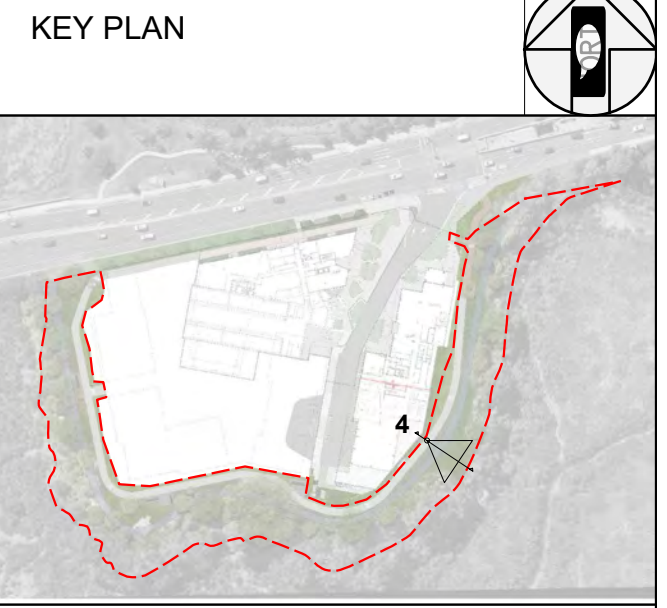
CONTRACT NUMBER: **J004323**
 SCALE: 1:400 @ A3
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:40pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway- PlantingDDPackage_Rev01.dwg



01 VIEWSHAFT 4 - CROSS SECTION
 304 SCALE: 1:100 @ A3

Planting Mix 4 to be implemented in slip area.
 Refer to ecologist for pest plant removal



02 VIEWSHAFT 4
 304

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

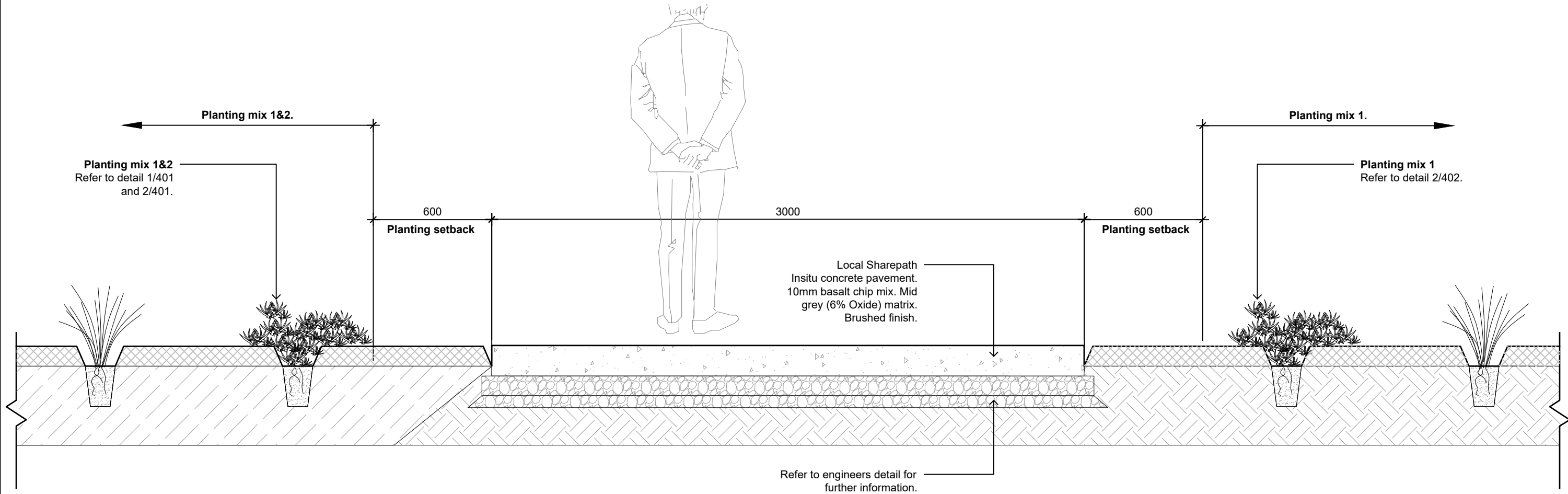
KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
 VIEWSHAFT 3



STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-304**

CONTRACT NUMBER: **J004323**
 SCALE: 1:400 @ A3
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:39pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - Esmonde Road Shareway\3 PlantingDDPackage_Rev01.dwg



1 TYPICAL LOCAL SHARE PATH PLANTING METHODOLOGY
400 SCALE: 1:20 @ A3

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6	AB	JW	29/11/23
LL	28/07/23	5	AB	JW	10/11/23
AB	28/07/23	4	AB	EH	03/11/23
JW	31/07/23	3	AB	EH	06/09/23
JW	04/08/23	2	AB	EH	24/08/23
		1	AB	CB	23/08/23
		0	AB	JW	04/08/23

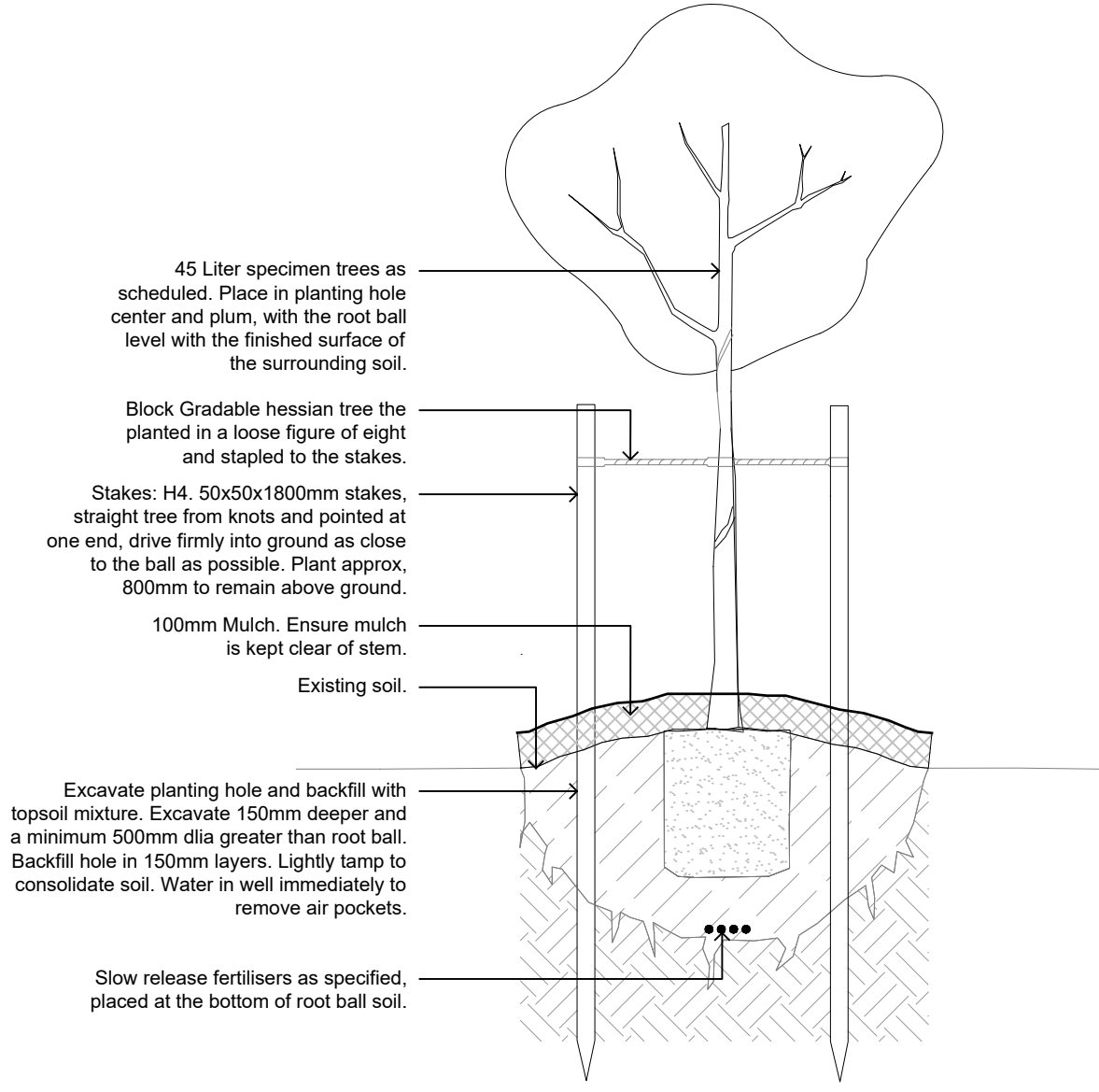
KBS CONSTRUCTION
48 ESMONDE ROAD LOCAL SHAREPATH
PLANTING DETAILS 1 OF 4



STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-400**

CONTRACT NUMBER: **J004323**
 SCALE: **AS SHOWN**
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:44pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscaping\2023-242 Esmonde Road Shareway\3 Cad\231030 - Esmonde Road Shareway - PlantingDDPackage_Rev01.dwg



45 Liter specimen trees as scheduled. Place in planting hole center and plum, with the root ball level with the finished surface of the surrounding soil.

Block Gradable hessian tree planted in a loose figure of eight and stapled to the stakes.

Stakes: H4. 50x50x1800mm stakes, straight tree from knots and pointed at one end, drive firmly into ground as close to the ball as possible. Plant approx. 800mm to remain above ground.

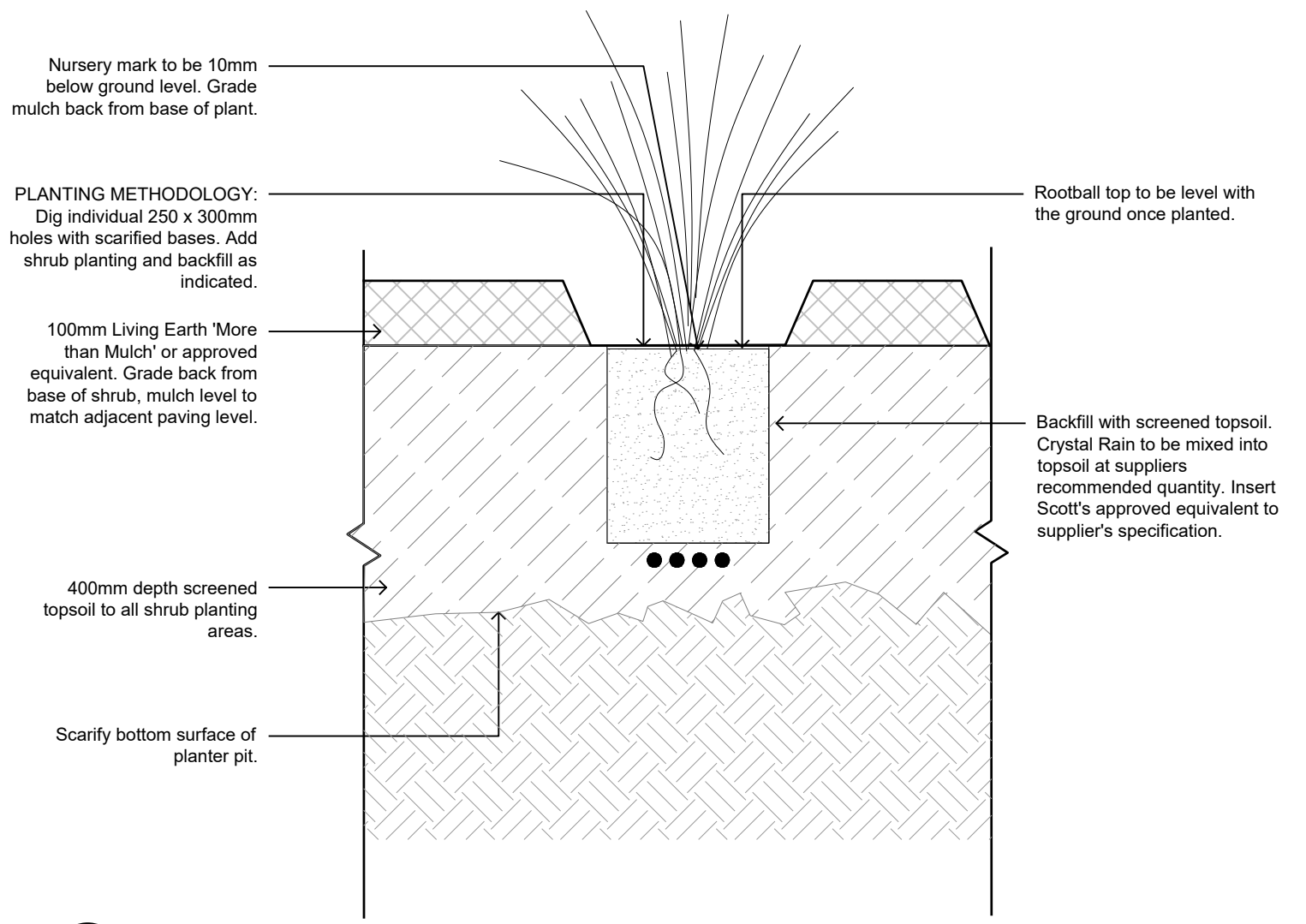
100mm Mulch. Ensure mulch is kept clear of stem.

Existing soil.

Excavate planting hole and backfill with topsoil mixture. Excavate 150mm deeper and a minimum 500mm dia greater than root ball. Backfill hole in 150mm layers. Lightly tamp to consolidate soil. Water in well immediately to remove air pockets.

Slow release fertilisers as specified, placed at the bottom of root ball soil.

1 TYPICAL TREE PLANTING - PLANTING MIX 1, 2 & 3
401 SCALE: 1:20 @ A3



Nursery mark to be 10mm below ground level. Grade mulch back from base of plant.

PLANTING METHODOLOGY:
Dig individual 250 x 300mm holes with scarified bases. Add shrub planting and backfill as indicated.

100mm Living Earth 'More than Mulch' or approved equivalent. Grade back from base of shrub, mulch level to match adjacent paving level.

400mm depth screened topsoil to all shrub planting areas.

Scarify bottom surface of planter pit.

Rootball top to be level with the ground once planted.

Backfill with screened topsoil. Crystal Rain to be mixed into topsoil at suppliers recommended quantity. Insert Scott's approved equivalent to supplier's specification.

2 TYPICAL SHRUB PLANTING - PLANTING MIX 1 & 2
401 SCALE: 1:10 @ A3

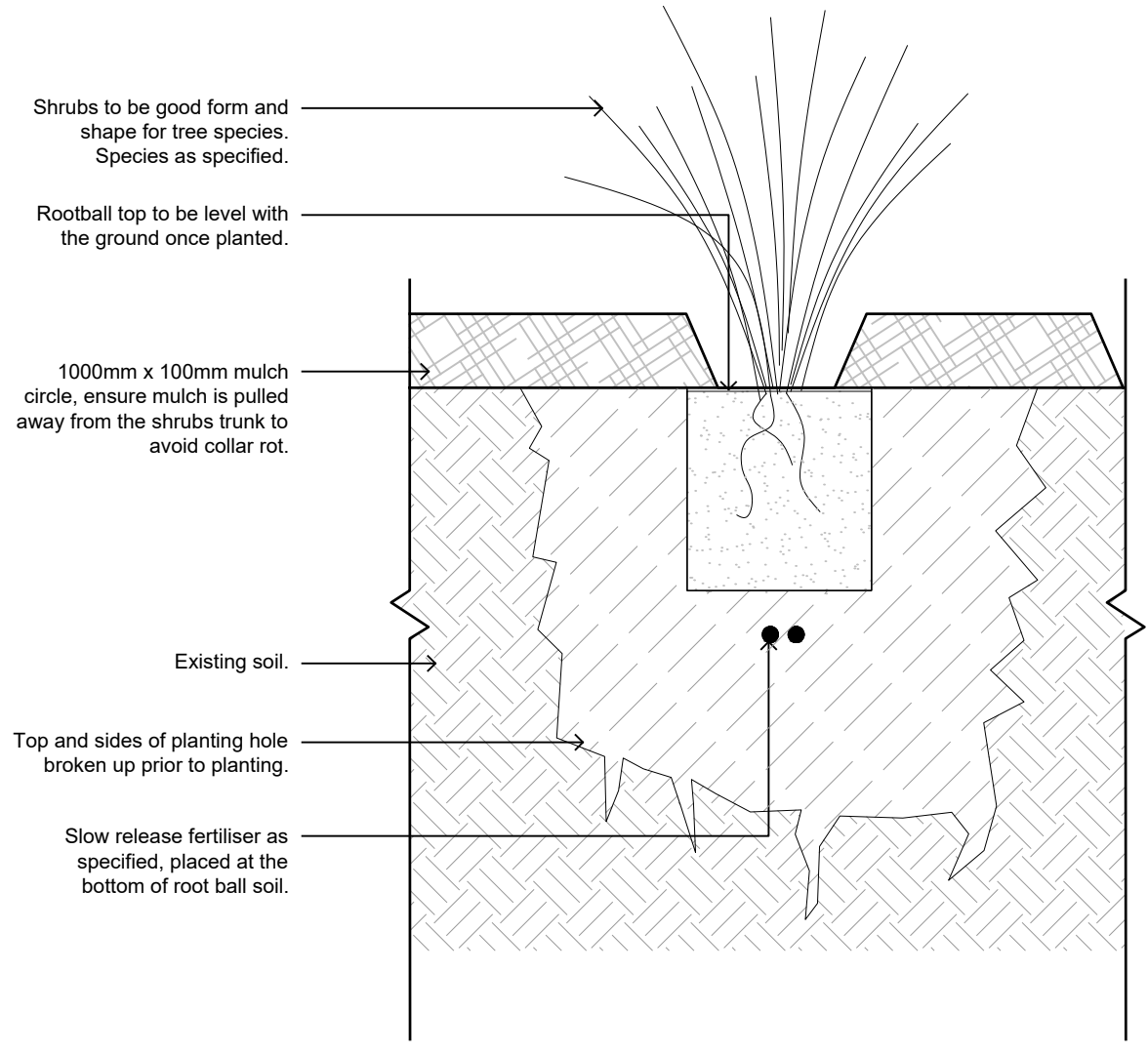
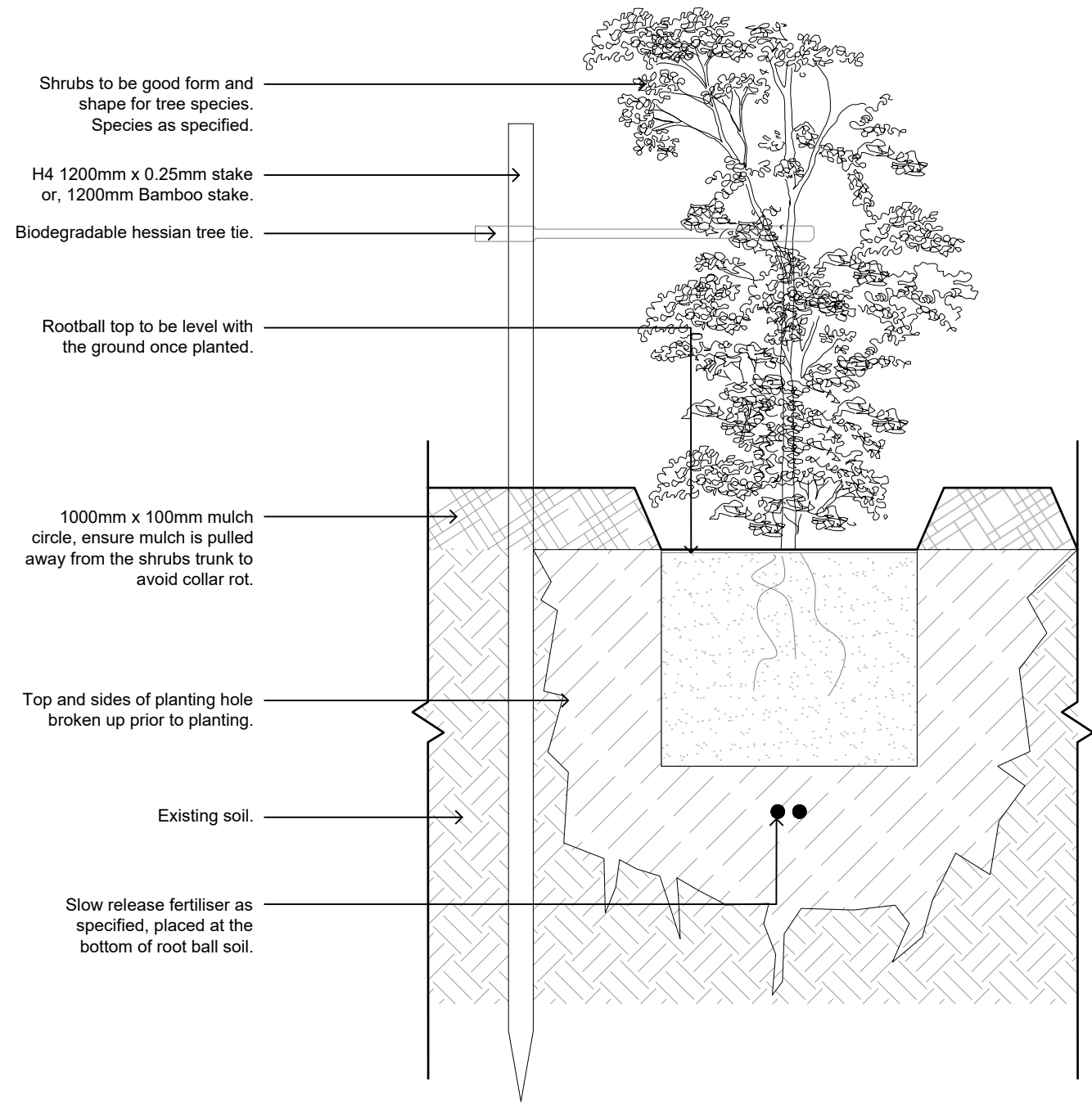
BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6	AB	JW	29/11/23
LL	28/07/23	5	AB	JW	10/11/23
AB	28/07/23	4	AB	EH	03/11/23
JW	31/07/23	3	AB	EH	06/09/23
JW	04/08/23	2	AB	EH	24/08/23
		1	AB	CB	23/08/23
		0	AB	JW	04/08/23

KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
 PLANTING DETAILS 2 OF 4



STATUS:	DEVELOPED DESIGN	CONTRACT NUMBER:	J004323
DRAWING NO.:	LA-DD-401	SCALE:	AS SHOWN
REVISION:	6		

Plotted: Wed, 29 Nov 2023 - 2:42pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\1 - JOBS\Landscapes\2023-242 Esmonde Road Shareway\3 Cad\231030 - EsmondeRoadShareway-PlantingDDPackage_Rev01.dwg



1 SHRUB PLANTING - PLANTING MIX 3
402 SCALE: 1:10 @ A3

2 GRASS AND GROUNDCOVER PLANTING - PLANTING MIX 3
402 SCALE: 1:10 @ A3

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN REISSUE	AB	JW	04/08/23

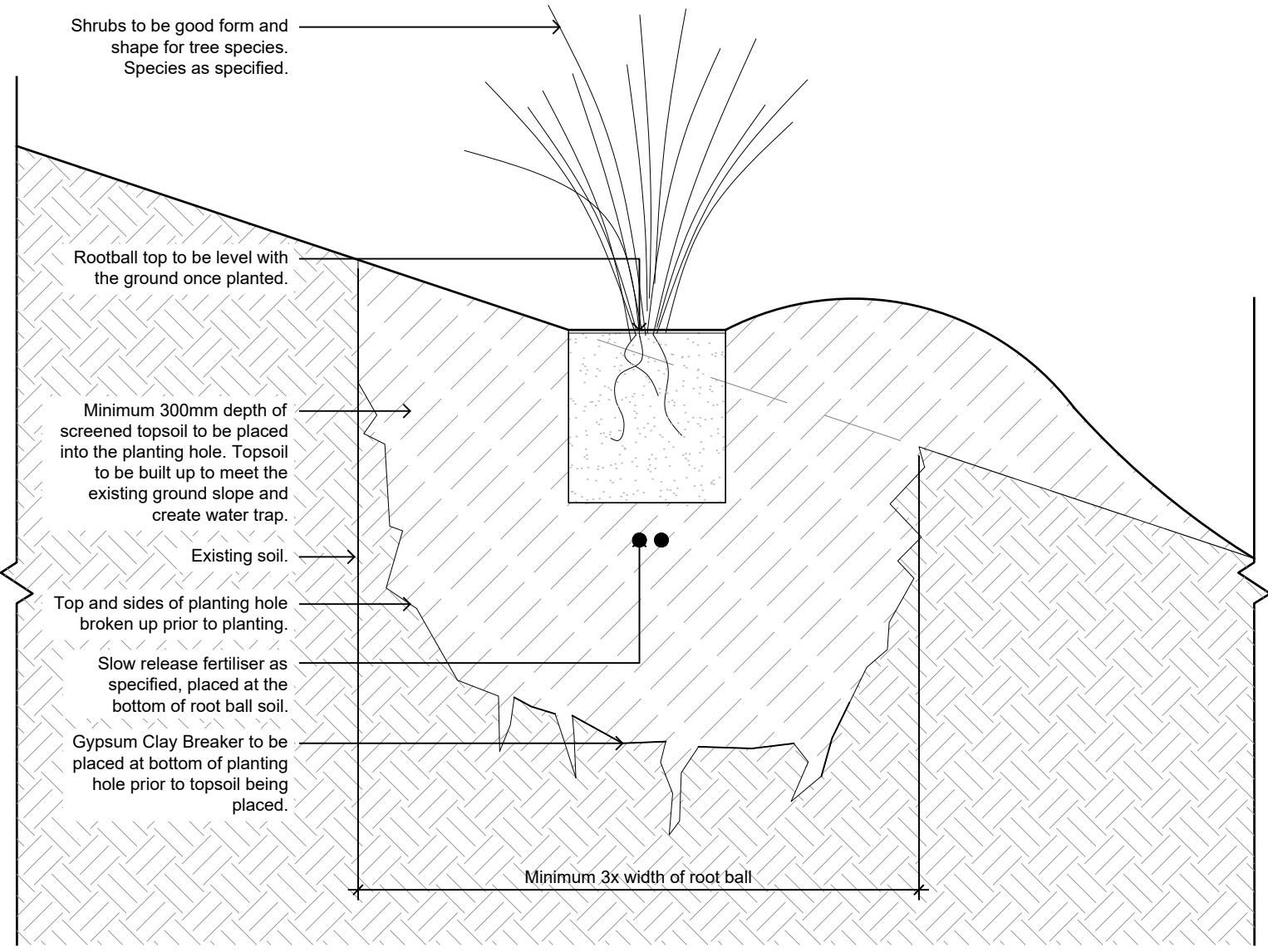
KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
 PLANTING DETAILS 3 OF 4



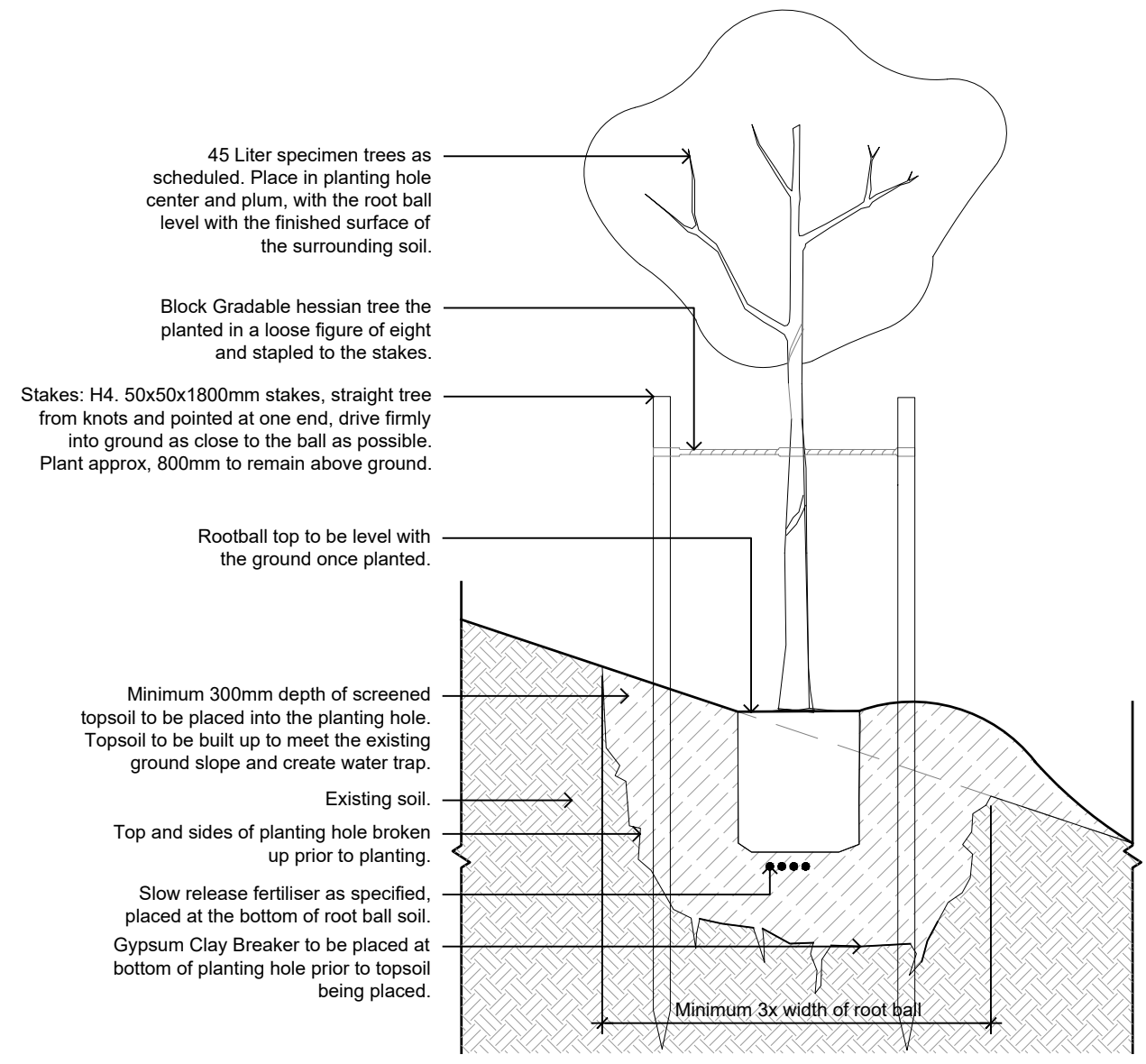
STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-402**

CONTRACT NUMBER: **J004323**
 SCALE: **AS SHOWN**
 REVISION: **6**

Plotted: Wed, 29 Nov 2023 - 2:39pm By: JEDWHITAKER
 File Name: C:\Dropbox (Stellar Projects)\ - JOBS\Landscapes\2023-242 Esmonde Road Shareway - PlantingDDPackage_Rev01.dwg



1 GRASS AND GROUNDCOVER PLANTING - PLANTING MIX 4
403 SCALE: 1:10 @ A3



2 TYPICAL TREE PLANTING - PLANTING MIX 4
403 SCALE: 1:20 @ A3

BY	DATE	REVISION	BY	APRVD	DATE
JW	24/07/23	6 PLANTING PLAN - ECOLOGIST REISSUE	AB	JW	29/11/23
LL	28/07/23	5 PLANTING PLAN - S92 REISSUE	AB	JW	10/11/23
AB	28/07/23	4 PLANTING PLAN - S92	AB	EH	03/11/23
JW	31/07/23	3 PLANTING PLAN REISSUE - ECOLOGY	AB	EH	06/09/23
JW	04/08/23	2 PLANTING PLAN REISSUE - REVISED SLIP	AB	EH	24/08/23
JW	04/08/23	1 PLANTING PLAN REISSUE - SLIP	AB	CB	23/08/23
JW	04/08/23	0 PLANTING PLAN ISSUE	AB	JW	04/08/23

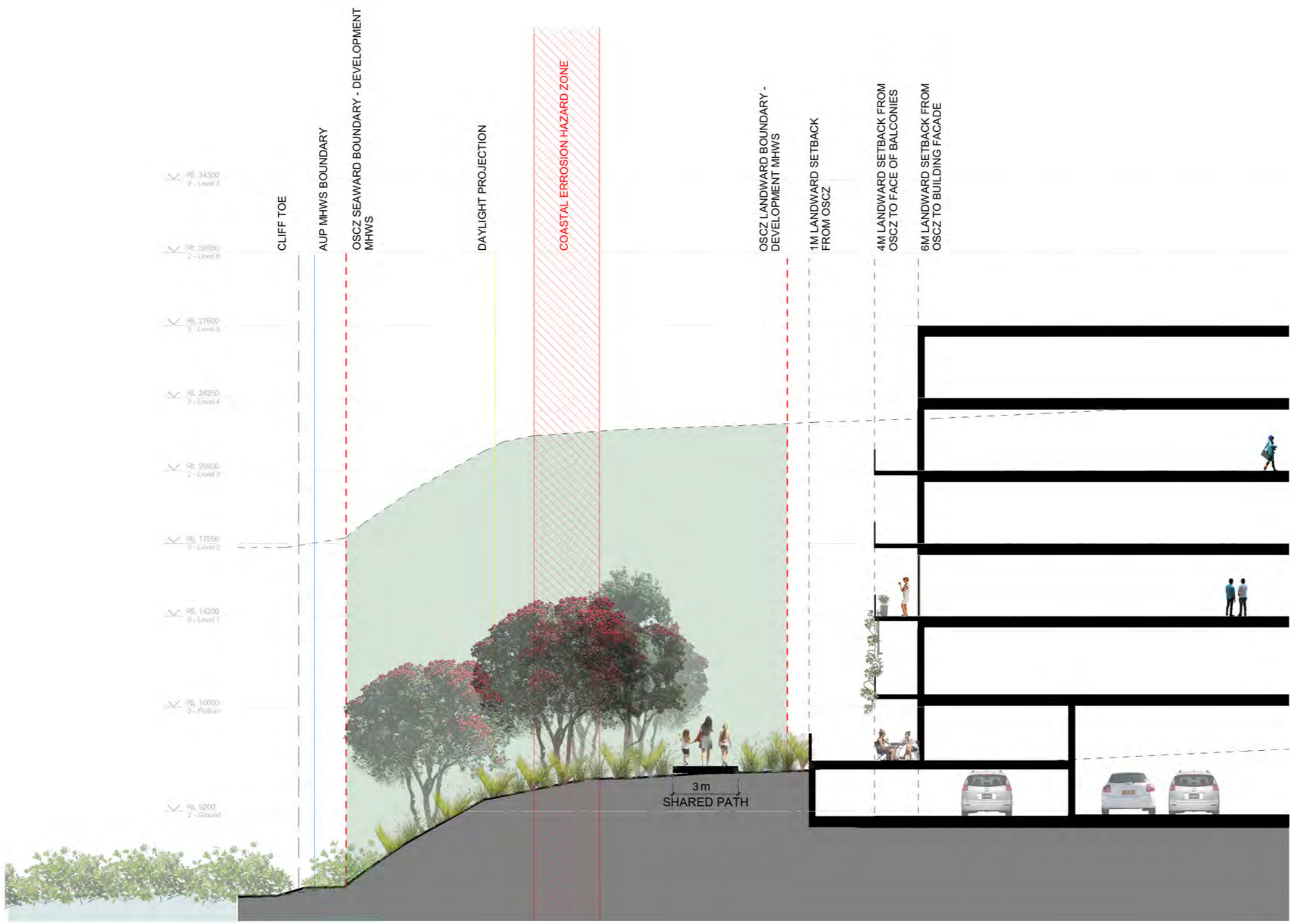
KBS CONSTRUCTION
 48 ESMONDE ROAD LOCAL SHAREPATH
 PLANTING DETAILS 4 OF 4



STATUS: **DEVELOPED DESIGN**
 DRAWING NO: **LA-DD-403**

CONTRACT NUMBER: **J004323**
 SCALE: **AS SHOWN**
 REVISION: **6**

Attachment B - Proposed cross sections - shared path





PLANNING 48 ESMONDE ROAD, TAKAPUNA

03/13/20

CLIENT: KINGSTONE PROPERTY LIMITED

DRAWING South Interface Section

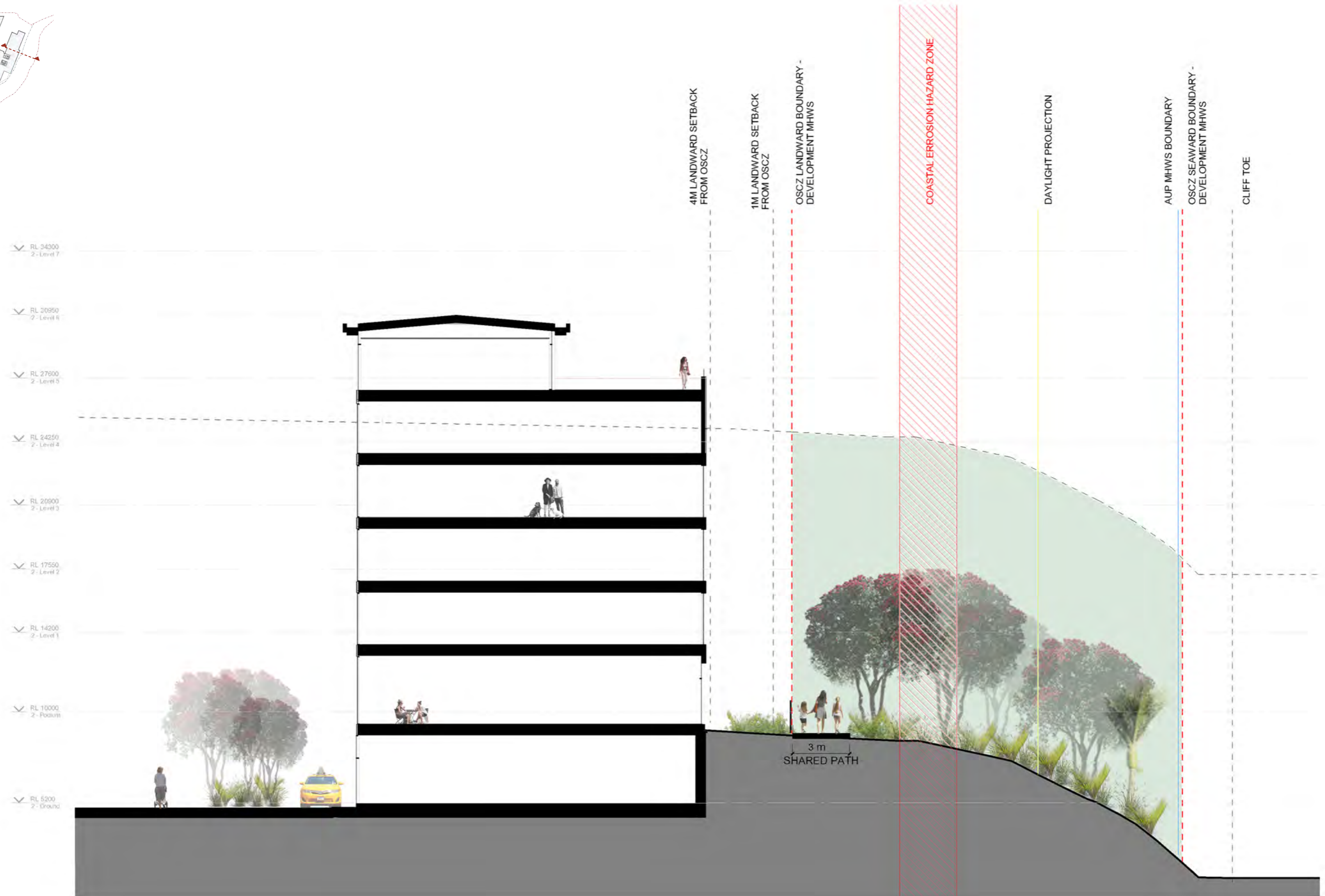
SCALE @ A1 1 : 100

PROJECT No. 220114

DRAWING No. UDP3-206 REV.

JASMAX

Copyright ©



**ECOLOGICAL MANAGEMENT PLAN FOR A
PROPOSED ESPLANADE RESERVE AT
48 ESMOND ROAD, TAKAPUNA**



 providing
outstanding
ecological
services to
sustain
and improve our
environments



ECOLOGICAL MANAGEMENT PLAN FOR A PROPOSED ESPLANADE RESERVE AT 48 ESMOND ROAD, TAKAPUNA



Pampas and brush wattle within proposed Esplanade Reserve at 48 Esmond Road, Takapuna.

Contract Report No. 5000e

July 2023

Project Team:

Phoebe Andrews – Project Manager, field survey and report author

Harrison Sollis – Field survey and report author

Sarah Budd – Peer Review

Prepared for:

Kingstone Property Ltd

PO Box 127

Albany Village

Auckland 0755

CONTENTS

1.	INTRODUCTION	1
2.	SITE CONTEXT	1
3.	PROJECT OBJECTIVES	2
4.	METHODS	2
4.1	Pest plant survey	2
4.2	Pest animal presence	2
4.3	Planting	2
5.	PEST PLANTS	3
5.1	Overview	3
5.2	Pest plant categories	3
5.2.1	Progressive containment pest plants	3
5.2.2	Sustained control pest plants	3
5.2.3	Pest plants not within the ARPMP 2020-2030	4
5.3	Pest plant management areas	4
5.3.1	Overview	4
5.3.2	Management Unit 1 (a-c)	6
5.3.3	Management Unit 2	7
5.3.4	Management Unit 3	7
5.4	Pest plant control methods	9
5.5	Disposal of material	9
5.6	Pest plant control outcomes	9
5.7	Agrichemical use, record keeping and reporting	9
5.8	Planting site preparation	10
6.	PEST ANIMALS	10
6.1	Overview	10
6.2	Pest animal control methods	12
6.2.1	Rodent and possum control	12
6.2.2	Mustelid control	12
6.3	Record keeping and reporting	13
7.	PLANTING	13
7.1	Planting area description and species list	13
7.2	Site preparation	14
7.3	Plant stock and availability	14
7.4	Maintenance	14
8.	PROTOCOLS TO PREVENT THE SPREAD OF MYRTLE RUST	14
9.	WORK PROGRAMME, RESOURCES, AND TIMELINE	15
	ACKNOWLEDGMENTS	17
	REFERENCES	17

Reviewed and approved for release by:



Sarah Budd
Principal Ecologist
Wildland Consultants Ltd

© *Wildland Consultants Ltd* 2023

This report has been produced by Wildland Consultants Ltd for Kingstone Property Ltd. All copyright in this report is the property of Wildland Consultants Ltd and any unauthorised publication, reproduction, or adaptation of this report is a breach of that copyright.

1. INTRODUCTION

Kingstone Property Ltd have applied for resource consent for a Private Plan Change to allow for the development of high-density residential housing at 48 Esmond Road, Takapuna. The site occupies a small headland projecting into the Waitemata Harbour and it is contiguous on three sides with coastal forest and mangroves. Wildland Consultants Ltd (Wildlands) provided an ecological assessment and subsequent evidence for the Plan Change hearing. (Wildlands 2022). The resulting Plan Change provisions require an esplanade reserve within the Open Space Conservation Zone (OSZ).

Kingstone Property Ltd commissioned Wildlands to develop an Ecological Management Plan (EMP) for 48 Esmond Road. This plan describes the actions required to guide the restoration and ongoing maintenance of the esplanade reserve.

Descriptions of the indigenous planting work that should be carried out on the property are also provided. The plant schedules include details of the species, grades, and numbers of plants to be planted.

2. SITE CONTEXT

The property at 48 Esmond Road is located in Takapuna, within the Tāmaki Ecological District, which encompasses the heavily urbanised Auckland isthmus between the Manukau and Waitematā harbours, the former North Shore City, and the lowlands of Waitākere. The North Shore is the most vegetated section of the Tāmaki Ecological District. While it covers just 21 percent of the land area, it contains 49 percent of the indigenous forest and scrub present within the Ecological District (Myers 2005). The biodiversity of the North Shore is considered to be representative of New Zealand’s northern lowland ecosystems, which have been significantly reduced from their former extent as a consequence of human occupation and farming activities (Myers 2005). Despite the extent of human modification on the North Shore, some elements of its natural character have survived (Myers 2005).

Until recently, the land use included the Harbourside Church, the Harbourside Kids Childcare Centre, a car park complex, and associated lawns and gardens. The development is now under construction with site offices and a carpark area occupying the rest of the site. The site margins comprise coastal forest covering a steep bank abutting the Waitematā Harbour. The forest varies in width between 10-25 metres and covers an area of approximately 0.9 hectares. The land surrounding the site is largely characterised by dense urban development, roading infrastructure, light industry, and mangrove (*Avicennia marina*)-dominated estuaries of the Waitematā Harbour. All land within the proposed development lies within an ‘At Risk’ land environment (20-30% indigenous vegetation cover left) as described by Walker *et al.* (2007).

3. PROJECT OBJECTIVES

The overall aim of this Ecological Management Plan (EMP) is to guide the ongoing management of pest plants and pest animals within the Esplanade Reserve. This EMP also includes methods for indigenous planting to compensate for the loss of vegetation associated with the construction of the boardwalk (Wildland Consultants 2023).

The objectives of this Ecological Management Plan are to:

- Control all pest plants within the proposed esplanade reserve so no mature (flowering or fruiting) pest plants remain.
- Control target pest animals within the proposed esplanade reserve to maintain low populations of these species.
- Provide indigenous planting to compensate for the impact of vegetation removal required to construct the boardwalk within the esplanade reserve.

Achieving these objectives will enhance the ecological values of the site by facilitating indigenous regeneration, improving floristic diversity through plantings, and enhancing habitat values for indigenous fauna.

4. METHODS

4.1 Pest plant survey

A field survey for pest plants was undertaken on 3 July 2023 to map the distribution of pest plants. Pest plants are introduced species that threaten the ecological processes and values within the area where they are present. The field survey involved walking through the project area identifying and recording the location, distribution and density of all pest plants encountered.

Pest plant distributions and densities were mapped in the field onto hard copy prints of digital aerial photographs. The maps were then used for data input into ArcGIS (GIS programme).

4.2 Pest animal presence

While a formal survey of pest animals was not undertaken, any sign of pest animal presence was recorded during the field survey. Pest animals that were not detected but are considered likely to be present were also considered. Effective and efficient control methods for pest animal control were devised relevant for the site.

4.3 Planting

Potential planting sites were assessed during the field survey to determine which ecologically appropriate species would be best suited to the site. Input has been provided in liaison with the landscape architect regarding what species and coverage is recommended for these areas.

5. PEST PLANTS

5.1 Overview

The plant species that should be controlled have been assigned to one of the following categories:

- Progressive containment pest plants under the Auckland Regional Pest Management Plan (ARPMP).
- Sustained control pest plants under the ARPMP.
- Pest plants that are not currently included in the ARPMP.

5.2 Pest plant categories

5.2.1 Progressive containment pest plants

Progressive containment pest plants are species that are present in moderate to low numbers or have a limited distribution. These pest plants have not yet become widespread, so active control is required to contain or limit their dispersal and reduce their distribution over time. All progressive containment pest plants are banned from sale, propagation, distribution, and exhibition throughout the Auckland Region (Auckland Council 2019).

Lantana (*Lantana camara*) is the only species recorded during the field survey that is classified as a progressive containment pest plant throughout the Auckland Region.

5.2.2 Sustained control pest plants

Sustained Control Pest Plants include species that have been identified as having the potential to negatively impact environmental and economic values across the entire Auckland Region. Twenty-eight sustained control pest plants were recorded during the field survey and are listed in Table 1.

Table 1: Sustained control pest plants observed at 48 Esmonde Road, Takapuna.

Common Name	Species Name
Agapanthus	<i>Agapanthus praecox</i>
Arum lily	<i>Zantedeschia aethiopica</i>
Boneseed	<i>Chrysanthemoides monilifera</i>
Brush wattle	<i>Paraserianthes lophantha</i>
Chinese fan palm	<i>Trachycarpus fortunei</i>
Climbing asparagus	<i>Asparagus scandens</i>
Cotoneaster	<i>Cotoneaster glaucophyllus</i> and <i>C. franchetii</i>
Elaeagnus	<i>Elaeagnus x reflexa</i>
German ivy	<i>Senecio mikanioides</i> syn. <i>Delairea odorata</i>
Gorse	<i>Ulex</i> spp.
Grey sedge	<i>Carex divulsa</i>

Common Name	Species Name
Madeira vine	<i>Anredera cordifolia</i>
Monkey apple / lillipilli	<i>Syzygium smithii</i> syn. <i>Acmena smithii</i>
Montbretia	<i>Crocsmia x crocosmiiflora</i>
Moth plant	<i>Araujia sericifera</i> syn. <i>Araujia hortorum</i>
Pampas grass	<i>Cortaderia jubata</i> and <i>C. selloana</i>
Periwinkle	<i>Vinca major</i>
Phoenix palm	<i>Phoenix canariensis</i>
Smilax	<i>Asparagus asparagoides</i>
Sydney golden wattle	<i>Acacia longifolia</i>
Tree privet	<i>Ligustrum lucidum</i>
Tuber ladder fern	<i>Nephrolepis cordifolia</i>
Wild ginger	<i>Hedychium gardnerianum</i> and <i>H. flavescens</i>
Woolly nightshade	<i>Solanum mauritianum</i>

5.2.3 Pest plants not within the ARPMP 2020-2030

Four pest plant species were observed that are not identified in the ARPMP (Table 2). Although these species are not named in the ARPMP, they are considered to be having a detrimental impact on ecological values at the site or are not ecologically appropriate. These species may also spread further if not controlled.

Table 2. Pest plant not listed in the ARPMP observed at 48 Esmonde Road, Takapuna.

Common Name	Species Name
Cape honeysuckle	<i>Tecomaria capensis</i>
Fruit salad plant	<i>Monstera deliciosa</i>
Garden nasturtium	<i>Tropaeolum majus</i>
Indian hawthorn	<i>Raphiolepis indica</i>
Pineapple lily	<i>Eucomis comosa</i>
Yucca	<i>Yucca gloriosa</i>

5.3 Pest plant management areas

5.3.1 Overview

All pest plants and exotic plant species identified above should be controlled within the esplanade reserve. The esplanade reserve has been divided into pest plant management units based on pest plant distribution, abundance and control required as follows (Figure 1).



Figure 1. Pest plant distribution and abundance within the esplanade reserve at 48 Esmond Road, Takapuna

Data Acknowledgment
 "Contains data sourced from the LINZ Data Service licensed for reuse under CC BY 4.0"
 Report: 5000d
 Ref: 10844
 Client: Kingstone Property Ltd
 Name: FieldMap - II.aprx
 Path: E:\gis\Esmond - 48\mxd\Pro\FieldMap - II.aprx

Wildlands
 www.wildlands.co.nz, 0508 WILDNZ
 Scale: 1:800
 Date: 15/08/2023
 Cartographer: JPP
 Format: A3R

5.3.2 Management Unit 1 (a-c)

Management Unit 1 (MU1a, b, and c) comprises the pōhutukawa forest within the proposed esplanade reserve. Indian hawthorn (*Rhaphiolepis indica*) is the most abundant pest plant and dominates the sub-canopy with most individuals over three metres tall within MU1a and MU1b. This species is also frequent within MU1c. Monkey apple (*Syzygium smithii*), Sydney golden wattle (*Acacia longifolia*), and tree privet (*Ligustrum lucidum*) are frequent within the subcanopy/understorey in MU1a and MU1b. Periwinkle (*Vinca major*) and pampas (*Cortaderia selloana*) are locally abundant within MU1a and MU1b, and elaeagnus (*Elaeagnus ×reflexa*), wild ginger (*Hedychium gardnerium*), and German ivy (*Delairea odorata*) are locally abundant within MU1b. Cotoneaster (*Cotoneaster galucophyllus*), brush wattle (*Paraserianthes lophantha*), woolly nightshade (*Solanum mauritianum*), cape honeysuckle (*Tecomaria capensis*), smilax (*Asparagus asparagoides*), climbing asparagus (*Asparagus scandens*), fruit salad plant (*Monstera deliciosa*), moth plant (*Araujia hortorum*), madeira vine (*Anredera cordifolia*), tuber ladder fern (*Nephrolepis cordifolia*), blue morning glory (*Ipomoea indica*), arum lily (*Zantedeschia aethiopica*), and garden nasturtium (*Tropaeolum majus*), Yucca (*Yucca gloriosa*), Grey sedge (*Carex divulsa*), and Phoenix palm (*Phoenix canariensis*) occur occasionally.



Plate 1: Understorey vegetation within MU1b comprised of Indian hawthorn, cape honeysuckle, karamū (*Coprosma robusta*), and karo (*Pittosporum crassifolium*).
3 July 2023.

5.3.3 Management Unit 2

Management Unit 2 (MU2) is dominated by pampas with frequent emergent tree privet and Indian hawthorn. Periwinkle, madeira vine, and gorse (*Ulex europaeus*) are locally abundant. Agapanthus (*Agapanthus praecox*), arum lily, climbing asparagus, pineapple lily (*Eucomis comosa*), moth plant, and lantana (*Lantana camara*) are occasional.



Plate 2: Pampas dominant with swan plant and tree privet in MU2. 3 July 2023.

5.3.4 Management Unit 3

Management Unit 3 (MU3) comprises most of the south eastern end of the site with the canopy dominated by Sydney golden wattle (*Acacia longifolia*), tree privet, and Indian hawthorn. Control of canopy trees is not recommended as it may compromise slope stability, however seedlings and saplings of these species should be removed as they occur. Pampas is abundant in open areas, at the bottom of the large slip, and in the understory throughout this MU. Brush wattle, woolly nightshade, cotoneaster, gorse, and montbretia (*Crocasmia x crocosmiiflora*) are frequent. Occasional arum lily and moth plant are also present.



Plate 3: Sydney golden wattle canopy and montbretia understorey within MU3.
3 July 2023.



Plate 4: Pampas dominated slip area with emergent tree privet and brush wattle.
3 July 2023.

5.4 Pest plant control methods

Control will be via a combination of cut and paste/spray and foliar spray methods, depending on species, location, and age class. Removal of larger pest plant trees is not recommended as it may impact slope stability, however seedlings and saplings of these species should be removed as they occur. In addition, hand-pulling of seedlings and saplings should only be undertaken for smaller plants that do not have a substantial root ball to maintain slope stability. Species specific advice regarding herbicide rates is provided on the Auckland Council Taiki Tāmaki Makaurau¹ and Weedbusters² websites.

Repeated treatment rounds will be required to achieve full control of some species, particularly those with large tubers or bulbs (e.g., wild ginger, arum lily etc) The timing of treatment rounds is provided in Section 9.

5.5 Disposal of material

The seedlings of many pest plant species (e.g. woolly nightshade) can be controlled by hand-pulling (if small enough that they will not compromise slope stability) and may be left to rot on site. It is essential that plant seeds, tubers, and fragments are not dispersed from the current infestation areas as some species can easily be spread by seed or fragments (e.g. periwinkle). Where cut vegetation is to be left on site, seed heads should be removed wherever possible and disposed of carefully to avoid new infestations establishing.

5.6 Pest plant control outcomes

No mature, flowering, or fruiting pest plants (excluding large canopy trees) should be remaining in the proposed esplanade reserve by the end of the first year of control. After this stage ongoing monitoring and maintenance should be carried out to keep the proposed esplanade reserve in a pest plant free state in perpetuity. All newly established pest plants, or regrowth of unsuccessfully controlled pest plant species, should be controlled during regular maintenance visits. See Section 9 for the frequency and timing of maintenance work.

5.7 Agrichemical use, record keeping and reporting

All pest plant control operations should be undertaken by “Growsafe” certified operators, in line with the Agrichemical Users’ Code of Practice (NZS 8409 2004: The Management of Agrichemicals) and industry best practice. This includes recording and maintaining records of all agrichemical usage on appropriate spray record sheets.

¹ <https://www.tiakitamakimakaurau.nz/protect-and-restore-our-environment/pests-in-auckland/pest-search>

² <https://www.weedbusters.org.nz/what-are-weeds/weed-list/>

Reports summarising the pest plant control work undertaken during each year of the programme should be presented to Auckland Council on an annual basis. This report should include, but is not limited to:

- Chemical application method.
- Start and finish time of application.
- Concentration, volume, brand name and active ingredient of herbicides used.
- The timing of pest plant control rounds.
- Weather conditions during control rounds.
- Pest plant species controlled.
- The results/effectiveness of the control.
- Pest plant control priorities for the following year.

5.8 Planting site preparation

Site preparation work must be carried out in all areas where indigenous plantings are to be established (see Section 7 for details).

6. PEST ANIMALS

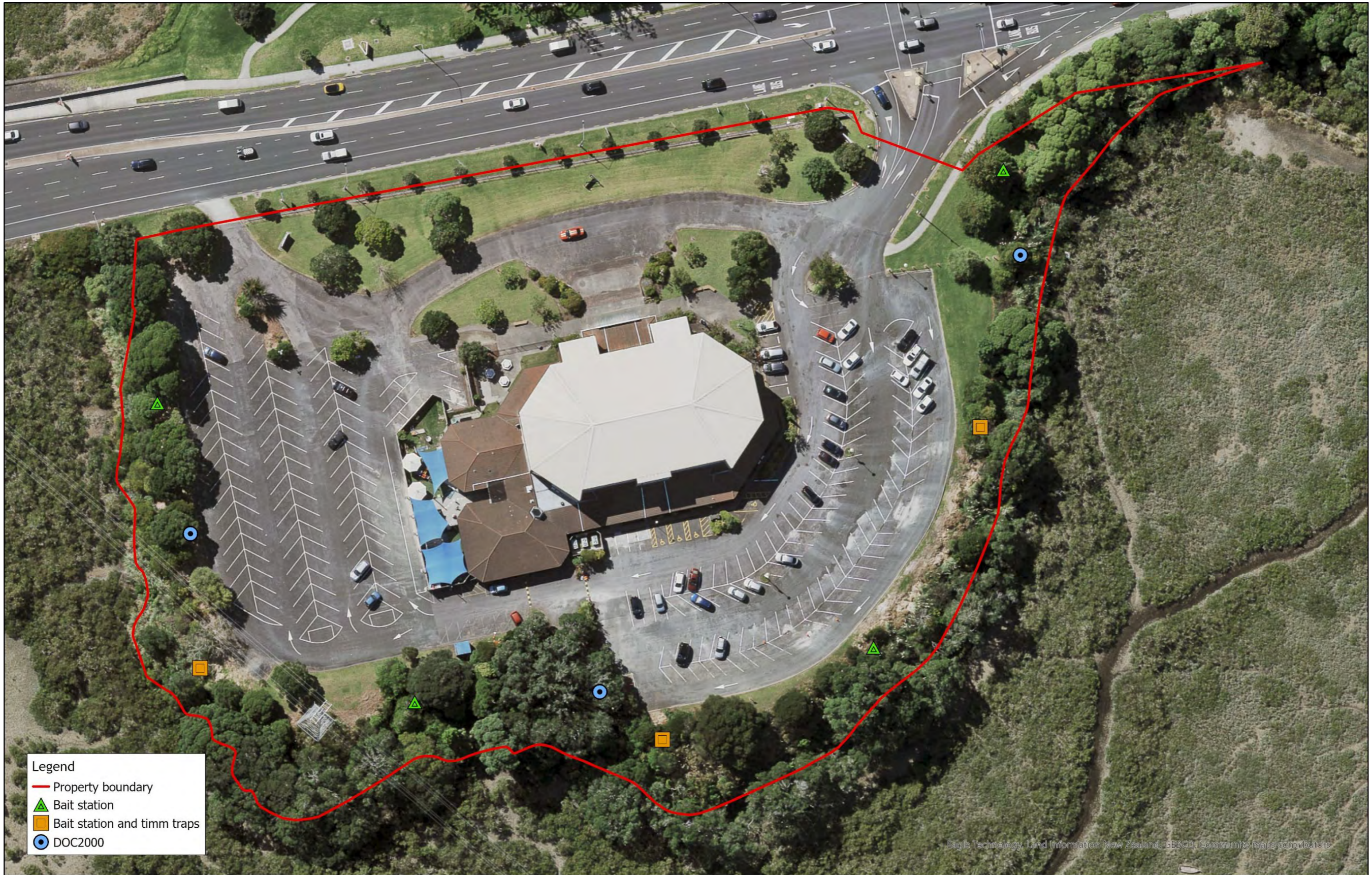
6.1 Overview

Pest animal control is required to protect indigenous fauna, enhance the ecological integrity of the proposed esplanade reserve, and protect indigenous planting efforts. The proposed pest animal control device layout is provided in Figure 2.

Possoms (*Trichosurus vulpecula*), ship rats (*Rattus rattus*), Norway rats (*R. norvegicus*), mice (*Mus musculus*), hedgehogs (*Erinaceus europaeus occidentalis*), cats (*Felis catus*; both feral and domestic), and mustelids (stoats - *Mustela erminea*, ferrets - *M. furo*, weasels - *M. nivalis vulgaris*) are likely to be present at the site.

Possoms, rats, and mice adversely impact vegetation health by browsing foliage and eating the seeds of indigenous plants. All mammalian pests are also likely to reduce the fauna values of the proposed esplanade reserve through the predation of birds, lizards, and invertebrates.

Pūkeko (*Porphyrio melanotus melanotus*) are present and Rabbits (*Oryctolagus cuniculus*) may also be present. Both of these species have the potential to hinder the establishment of indigenous plantings. Rabbits browse on the foliage of plants and may damage the root balls, while pūkeko frequently pull new plants out of the ground soon after planting. If rabbits and pūkeko are found to be negatively impacting the planting area control should be initiated immediately.



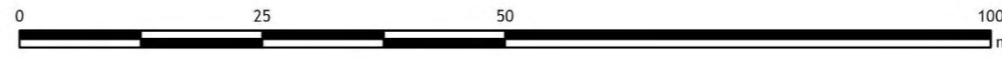
Legend

- Property boundary
- ▲ Bait station
- Bait station and timm traps
- DOC2000

Data Acknowledgment
 "Contains data sourced from the LINZ Data Service licensed for reuse under CC BY 4.0"

Report: 5000d
 Ref: 10844
 Client: Kingstone Property Ltd
 Name: FieldMap - II.aprx
 Path: E:\gis\Esmonde_48\mxd\ProJ

Figure 2. Pest animal control devices within the esplanade reserve at 48 Esmond Road, Takapuna



Eagle Technology, Land Information New Zealand, GEBCO, community maps contributors

Wildlands © 2023
 www.wildlands.co.nz, 0508 WILDNZ

Scale: 1:700
 Date: 19/07/2023
 Cartographer: JPP
 Format: A3R

6.2 Pest animal control methods

6.2.1 Rodent and possum control

Bait stations and Timms traps will be arranged to create a system of bait stations spaced every 50 metres along a line. Timms traps should be placed every 100 metres along this line (i.e. along side every second bait station). A map of this layout is provided in Figure 2.

Bait stations should be activated for four control pulses per year. During the first pulse (November-December) all bait stations should be filled with bromadiolone bait and should be checked and topped up weekly for four weeks. At the end of the four week period all bait should be removed and disposed of responsibly.

The following three pulses should occur at three monthly intervals. During each pulse the bait stations will be filled with diphacinone bait and must be regularly topped up to ensure that none of the stations run out of bait for a full two week period. The frequency of top up visits will depend on the abundance of rats in the control area and the rate at which the bait is taken. To be effective this bait must be consistently available during the two week pulse and should be replaced if it becomes mouldy or degraded during this time. After two weeks all bait should be removed and disposed of responsibly.

Timms traps should be activated for four control pulses per year, with each pulse comprising two consecutive weeks. The traps should be installed at the beginning of the pulse and removed at the end of the pulse. Possum control pulses should occur at the same time as the rat control pulses described above. During each period of activation the traps should be baited with half a cut apple and/or a cinnamon lure and should be cleared and rebaited at least weekly.

6.2.2 Mustelid control

DOC200 traps should be used to control mustelids. One trap per hectare is recommended, equating to approximately two DOC200 traps for the site. These traps can be moved around within the site. Each trap should be baited with a chicken egg or dried rabbit meat and should be checked, cleared, re-baited and reset every month. If possible, this should increase to fortnightly from October to April.

6.3 Record keeping and reporting

Records of all pest animal control operations should be maintained in line with industry best practice. A summary of the pest animal control work undertaken during each year of the programme should be presented to Auckland Council on an annual basis. This includes, but is not limited to:

- A plan showing the approximate locations of bait stations, traps, and signage;
- Timing of control rounds;
- Weather conditions during control rounds;
- Number of bait stations used, and amount of bait take;
- Number of traps installed, and number and species of animals caught; and
- A record of correspondence (if any) regarding the pest animal control operation.

7. PLANTING

7.1 Planting area description and species list

Indigenous planting is required within the esplanade reserve to fill open spaces around the boardwalk. The location of the planting area will be shown in the planting plan provided by the landscape architect. Table 3 provides ecologically appropriate species and indicative cover for the planting areas identified within the esplanade reserve. Restoration works should follow the timeline presented in Section 9.

Table 3: Indicative planting schedule for Planting Area.

Species	Common Name	Grade	% cover
<i>Carex virgata</i>	Pukio	0.5 - 1L	10
<i>Corynocarpus laevigatus</i>	Karaka	1 - 2L	6
<i>Cordyline australis</i>	Tī kōuka	1 - 2L	10
<i>Coprosma robusta</i>	Karamū	1 - 2L	10
<i>Coprosma repens</i>	Taupata	1 - 2L	10
<i>Didymocheton spectabilis</i>	Kohekohe	1 - 2L	6
<i>Metrosideros excelsa</i>	Pōhutukawa	1 - 2L	6
<i>Myoporum laetum</i>	Ngaio	1 - 2L	6
<i>Ozothamnus leptophyllus</i>	Tauhinu	1 - 2L	10
<i>Pittosporum crassifolium</i>	Karo	0.5 - 1L	10
<i>Phormium tenax</i>	Harakeke	0.5 - 1L	10
<i>Vitex lucens</i>	Pūriri	1 - 2L	6
Total			100

7.2 Site preparation

Appropriate site preparation is essential to the success of indigenous plantings. All pest plants should be controlled within the planting area (as per Section 5 above). In addition, all non-invasive exotic grasses and herbaceous plants should also be blanket sprayed with a Glyphosate-based herbicide before planting work is carried out.

In planting areas that contain rank kikuyu spraying should be undertaken at least 12 weeks in prior to planting, to allow time for the vegetation to break down.

7.3 Plant stock and availability

All plants should be sourced from the Tāmaki Ecological District, in line with Auckland Council's eco-sourcing Code of Practice. To ensure availability, the plant stock should be ordered as far in advance as possible, especially for slower-growing species required in larger grades.

7.4 Maintenance

Planted areas should be inspected at least three times during the first two years following planting. During these visits plants should be released from exotic vegetation to ensure they are able to receive sufficient sunlight to thrive. As the plants become established, they will begin to out compete other exotic species and the frequency of releasing will decrease. After five years no releasing should be necessary.

Limited infill planting¹ may be required during the next planting season depending on plant survival over the first summer. Infill plants should be of the same grade as those used in the initial planting. The number and species of infill plants should be identified in the February or March preceding the infill planting season.

8. PROTOCOLS TO PREVENT THE SPREAD OF MYRTLE RUST

Pōhutukawa, kānuka and other indigenous myrtle species are at risk of infection by myrtle rust, but there was no sign of myrtle rust infection at the time of the field surveys.

Care should be taken to minimise the risk of spreading myrtle rust into or out of the site. Standard phytosanitary protocols will be followed, including rigorous cleaning of all gear and boots before entering and exiting the site.

¹ Infill planting is required on sites where there are gaps in the planting because of plant mortality or where initial stocking rates were too low.

9. WORK PROGRAMME, RESOURCES, AND TIMELINE

The work programmes for pest plant control, pest animal control and planting work is provided below. Timing is based on the Auckland Council financial year of 1 July to 30 June.

Year 1

Task		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pest Plant Control and Maintenance	Initial pest plant control												
	Follow up pest plant control												
	Site Preparation												
Pest Animal Control	Setup of traps and bait stations												
	Bait station pulses (four per year)												
	Timms trap pulses (one or two per year)												
	DOC 200 checks (monthly)												

Year 2

Task		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Planting	Planting												
Pest Plant Control and Maintenance	Follow up pest plant control												
	Infill site preparation (if required)												
	Monitoring planting and releasing where necessary												
Pest Animal Control	Bait station pulses (four per year)												
	Timms trap pulses (one or two per year)												
	DOC 200 checks (monthly)												

Year 3

Task		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Planting	Infill planting (if required)												
Pest Plant Control and Maintenance	Follow up pest plant control												
	Monitoring planting and releasing where necessary												
Pest Animal Control	Bait station pulses (four per year)												
	Timms trap pulses (one or two per year)												
	DOC 200 checks (monthly)												

Year 4

Task		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pest Plant Control and Maintenance	Follow up pest plant control												
	Monitoring planting and releasing where necessary												
Pest Animal Control	Bait station pulses (four per year)												
	Timms trap pulses (one or two per year)												
	DOC 200 checks (monthly)												

Year 5

Task		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pest Plant Control and Maintenance	Follow up pest plant control												
	Monitoring planting and releasing where necessary												
Pest Animal Control	Bait station pulses (four per year)												
	Timms trap pulses (one or two per year)												
	DOC 200 checks (monthly)												

Ongoing

Task		Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
Pest Plant Control and Maintenance	Follow up pest plant control												
	Monitoring planting and releasing where necessary												
Pest Animal Control	Bait station pulses (four per year)												
	Timms trap pulses (one or two per year)												
	DOC 200 checks (monthly)												

ACKNOWLEDGMENTS

We thank Kingstone Property Limited for communication and provision of site information.

REFERENCES

Agrichemical Users' Code of Practice: NZ Agrichemical Education Trust.

Auckland Council. 2020: Mahere ā-Rohe Whakahaere Kaupapa Orotā mō Tāmaki Makaurau 2020-2030 / Auckland Regional Pest Management Strategy 2020-2030.

Myers S. (compiler) 2005: North Shore City Ecological Survey: A survey of sites of ecological significance in Tamaki and Rodney Ecological Districts. Auckland Regional Council and North Shore City Council.

New Zealand Standard NZS 8409 2004: The Management of Agrichemicals.

Walker S., Cieraad E., Grove P., Lloyd K., Myers S., Park T., and Porteous T. 2007: Threatened Environment Classification: Guide for Users (Ver. 1.1). Landcare Research.

Wildland Consultants Ltd 2022: Assessment of ecological effects of a proposed plan change for 48 Esmonde Road, Takapuna. *Wildland Consultants Ltd Contract Report No. 5000c*. Prepared for KBS Capital Ltd. 30 pp.

Wildland Consultants Ltd 2023: Ecological impact assessment for a proposed boardwalk within the esplanade reserve for 48 Esmonde Road, Takapuna. *Wildland Consultants Lt Contract Report No. 5000d*. Prepared for Kingstone Property Ltd. 29 pp.



Call Free 0508 WILDNZ
Ph: +64 7 343 9017
Fax: +64 7 3439018
ecology@wildlands.co.nz

99 Sala Street
PO Box 7137, Te Ngae
Rotorua 3042,
New Zealand

Regional Offices located in
Auckland, Hamilton, Tauranga,
Whakatane, Wellington,
Christchurch and Dunedin

ECOLOGY RESTORATION BIODIVERSITY SUSTAINABILITY

www.wildlands.co.nz



H_Series

H_01 Seat

MATERIALS

Aluminium
FSC Hardwood Slats

DIMENSIONS

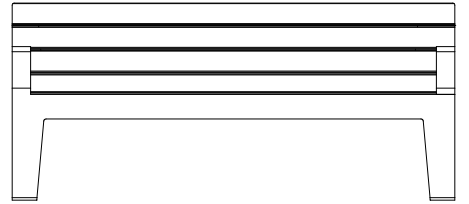
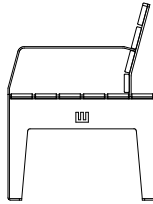
H 430 / 750
W 600
L 1800

FINISHES

Powdercoated
Timber - Penetrating Oil

OPTIONS

Surface or Sub-Surface mounting
Logo / Badging options are available
Skate Deterrents
This Set is made to order so all aspects can be modified
to suit client requirements





H_Series

H_02 Bench

MATERIALS

Aluminium

FSC Hardwood Slats

DIMENSIONS

H 430

W 600

L 1800

FINISHES

Powdercoated

Timber - Penetrating Oil

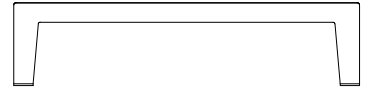
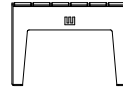
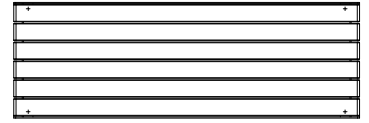
OPTIONS

Surface or Sub-Surface mounting

Logo / Badging options are available

Skate Deterrents

This Set is made to order so all aspects can be modified to suit client requirements



Project CapEx Costs

Walkway Construction: \$591,492.00
Soft Landscaping: \$57,995.00

Supplied by applicant*
Supplied by applicant*

Project OpEx Costs

Scenario 1 - Including both revegetation area and bush area

Service Area	Service Category	Estimated Consequential OPEX
Garden Maintenance	Revegetation Area	\$ 3,000
Bush Maintenance	Bush Area	\$ 7,350
Tracks & Paths (Sealed)	Concrete Path	\$ 4,650
Furniture and Fixtures Maintenance and Repairs	Signs	\$ 60
Furniture and Fixtures Maintenance and Repairs	Removable Bollards	\$ 120
Furniture and Fixtures Maintenance and Repairs	Benches	\$ 370
Structure Maintenance and Repairs	Boardwalk and Stairs	\$ 200
Total Opex Cost		\$ 15,750
Scheduled Work for the whole site - estimated additional 10%	Plant Pest Removal, Dead Animal/Carcass Removal, Loose Litter Collection, Garden Irrigation Repairs and Maint, Drain Clearing and Repair, Electrical Maintenance Service	\$ 1,580
Response Work - estimated additional 15%		\$ 2,370
General Ecological Maintenance - estimated additional 5%		\$ 790
Grand Total		\$ 20,500

Rounded upward to nearest 100*

Scenario 2 - Excluding revegetation area

Service Area	Service Category	Estimated Consequential OPEX
Bush Maintenance	Bush Area	\$ 7,350
Tracks & Paths (Sealed)	Concrete Path	\$ 4,650
Furniture and Fixtures Maintenance and Repairs	Signs	\$ 60
Furniture and Fixtures Maintenance and Repairs	Removable Bollards	\$ 120
Furniture and Fixtures Maintenance and Repairs	Benches	\$ 370
Structure Maintenance and Repairs	Boardwalk and Stairs	\$ 200
Total Opex Cost		\$ 12,750
Scheduled Work for the whole site - estimated additional 10%	Plant Pest Removal, Dead Animal/Carcass Removal, Loose Litter Collection, Garden Irrigation Repairs and Maint, Drain Clearing and Repair, Electrical Maintenance Service	\$ 1,280
Response Work - estimated additional 15%		\$ 1,920
General Ecological Maintenance - estimated additional 5%		\$ 640
Grand Total		\$ 16,600

Rounded upward to nearest 100*

Scenario 3 - Excluding bush area

Service Area	Service Category	Estimated Consequential OPEX
Garden Maintenance	Revegetation Area	\$ 3,000
Tracks & Paths (Sealed)	Concrete Path	\$ 4,650
Furniture and Fixtures Maintenance and Repairs	Signs	\$ 60
Furniture and Fixtures Maintenance and Repairs	Removable Bollards	\$ 120
Furniture and Fixtures Maintenance and Repairs	Benches	\$ 370
Structure Maintenance and Repairs	Boardwalk and Stairs	\$ 200
Total Opex Cost		\$ 8,400
Scheduled Work for the whole site - estimated additional 10%	Plant Pest Removal, Dead Animal/Carcass Removal, Loose Litter Collection, Garden Irrigation Repairs and Maint, Drain Clearing and Repair, Electrical Maintenance Service	\$ 840
Response Work - estimated additional 15%		\$ 1,260
General Ecological Maintenance - estimated additional 5%		\$ 420
Grand Total		\$ 11,000

Rounded upward to nearest 100*

Scenario 4 - Excluding both bush area and revegetation area

Service Area	Service Category	Estimated Consequential OPEX
Tracks & Paths (Sealed)	Concrete Path	\$ 4,650
Furniture and Fixtures Maintenance and Repairs	Signs	\$ 60
Furniture and Fixtures Maintenance and Repairs	Removable Bollards	\$ 120
Furniture and Fixtures Maintenance and Repairs	Benches	\$ 370
Structure Maintenance and Repairs	Boardwalk and Stairs	\$ 200
Total Opex Cost		\$ 5,400
Scheduled Work for the whole site - estimated additional 10%	Plant Pest Removal, Dead Animal/Carcass Removal, Loose Litter Collection, Garden Irrigation Repairs and Maint, Drain Clearing and Repair, Electrical Maintenance Service	\$ 540
Response Work - estimated additional 15%		\$ 810
General Ecological Maintenance - estimated additional 5%		\$ 270
Grand Total		\$ 7,100

Rounded upward to nearest 100*

DISCLAIMER:

- This is a high level estimate of the consequential opex costs per annum, based on the concept plan provided. The costs may change if changes are made to the concept design and levels of service, in which case costs would have to be reworked
- All the above costs are based on the Full Facility Contract. The range has been provided to give an indication of the maintenance costs for that particular service
- The level of services are outcome based and the costs mentioned for the service categories are an indication only. If you require specific information for a particular level of service/category, please let us know
- All the above costs are GST exclusive.
- Inflation is not accounted for in this calculation.
- The rate not include any response over \$1000.

DISCLAIMER:

- This is a high level estimate of the consequential opex costs per annum, based on the concept plan provided. The costs may change if changes are made to the concept design and levels of service, in which case costs would have to be reworked
- All the above costs are based on the Full Facility Contract. The range has been provided to give an indication of the maintenance costs for that particular service
- The level of services are outcome based and the costs mentioned for the service categories are an indication only. If you require specific information for a particular level of service/category, please let us know
- All the above costs are GST exclusive.
- Inflation is not accounted for in this calculation.
- The rate not include any response over \$1000.

DISCLAIMER:

- This is a high level estimate of the consequential opex costs per annum, based on the concept plan provided. The costs may change if changes are made to the concept design and levels of service, in which case costs would have to be reworked
- All the above costs are based on the Full Facility Contract. The range has been provided to give an indication of the maintenance costs for that particular service
- The level of services are outcome based and the costs mentioned for the service categories are an indication only. If you require specific information for a particular level of service/category, please let us know
- All the above costs are GST exclusive.
- Inflation is not accounted for in this calculation.
- The rate not include any response over \$1000.

Devonport-Takapuna Connected Communities Monthly Update

April 2024



Community Delivery Key Updates March 2024

- Depot Art Space
- The Rose Centre
- Michael King Writer's Centre
- Waiwharariki ANZAC Square wrap-up
- Quick Activator Note





Arts Partners Updates



DEPOT, Te Whare Toi FY 2023/24





FY 2023/24 at a glance

- Recording Studio upgrades
- Whare Toi Refurbishment
- Gallery Refurbishment
- Gallery Shop Opens

(6 FTE/ 7 PTE, plus 6 contractors)

(7 local employees)

(10 volunteers, 3 local)



Depot
Artspace

FY 2023/24



- **Developed new models and new ways of working**
- **Doing more with less**
- **Creating new income streams**
- **Developing public programme**
- **Finding new audiences**



Depot
Sound

Development Programmes:

- 140 songs
- 213 recording sessions
- 81 singers and musicians



- Woman in Sound
- Let's Make Noise
- High School Song Writing Competition
- Depot Live
- Sound Stories
- Songwriter's Workshop
- Toi Toi Manawa

ArtsLab



- **180 unemployed creatives on Jobseekers Allowance**
- **6 month programme**
- **96 Workshops**
- **160 Mentoring sessions**
- **Outcome: 60% employment placements**

Wayfind Creative



- **Wayfind Creative: 100 self employed creatives**
- **9 month programme**
- **36 Workshops**
- **400 Mentoring sessions**
- **70% reported income increases**



Working with local artists, organisations and the local business community, creating a supportive ecosystem, and advocating for the importance of the creative sector, the environment and the power of community.



Depot Kerr St Whare Toi



- **Open Studios**
- **Workshops and classes**
- **Residency space**



Depot Shop Toi Toa



DEPOT Gallery Shop, Toa Toi

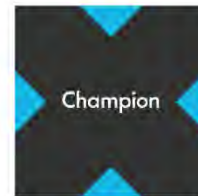
**Supporting local artists and
artists from across Aotearoa**

**Circular economy, income goes
towards running the gallery**

Open 5 April, 2024



DEPOT Collective: Finding new ways to build community and generate revenue.



DEPOT Collective: Champion
\$45 / year

Benefits such as:

- 10% discount in the DEPOT shop
- 10% off one venue hire at DEPOT Artspace in 2024
- FREE consultations for DEPOT Sound services
- Stay up to date with our monthly e-news direct to your inbox, as well as exclusive invitations to exhibition openings, live music performances, workshops and more

[Purchase Membership](#)

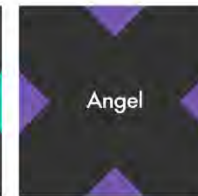


DEPOT Collective: Game Changer
\$120 / year

Benefits such as:

- 10% discount in the DEPOT shop
- 20% off one venue hire at DEPOT Artspace in 2024
- FREE consultations for DEPOT Sound services
- Stay up to date with our monthly e-news direct to your inbox, as well as exclusive invitations to exhibition openings, live music performances, workshops and more
- DEPOT tote bag and a bottle of Toi Toi Wine
- Invitation to our annual DEPOT Collective Celebration

[Purchase Membership](#)



DEPOT Collective: Angel
From: \$1,000 / year

Benefits such as:

- 10% discount in the DEPOT shop
- One FREE venue hire at DEPOT Artspace in 2024
- FREE consultations for DEPOT Sound services
- Stay up to date with our monthly e-news direct to your inbox, as well as exclusive invitations to exhibition openings, live music performances, workshops and more
- DEPOT tote bag and a bottle of Toi Toi Wine
- Invitation to our annual DEPOT Collective Celebration
- Aroha and gratitude for your significant contribution to the Arts

[Purchase Membership](#)

The Future



Challenges

- Limited resources
- Artist fees
- Digital strategy

Risks

- Losing our delivery partners and funders (MSD, Council)
- Staff retention



Depot
Te Whare Toi

Thank you!
Amy Saunders
Director



BEHIND THE CURTAINS

Presentation for Devonport-Takapuna Board : 9 April 2024



Nau mai,
Haere mai!

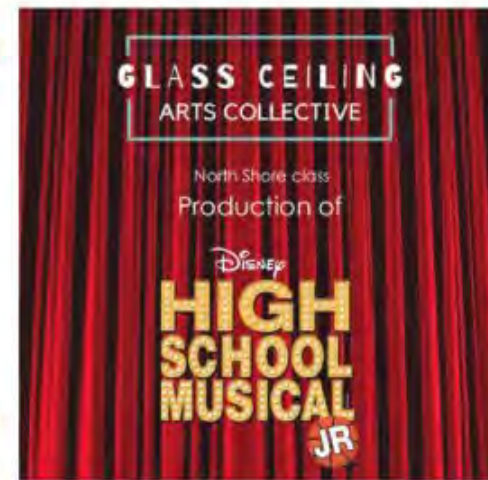
Welcome

Come with us on our journey...

On Stage

Our Established Connections

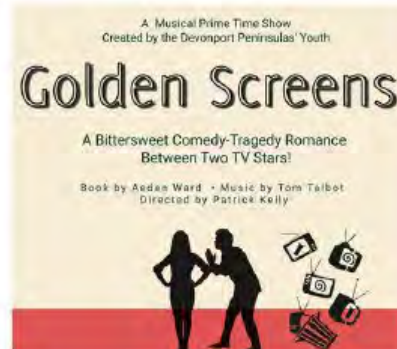
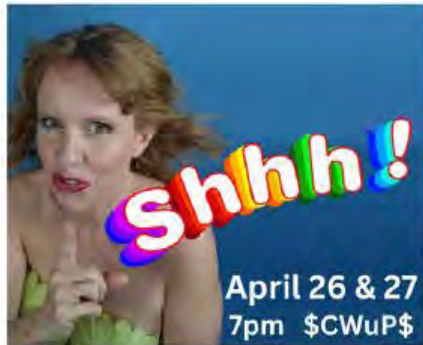
- Long-term commitment: Demonstrating a consistent presence and dedication to engagement through support and management of RC
- Delivering on shared common goals
- Collaboration with stakeholders to support local engagement collectively



Back Stage

New Collaboration & Support

- Community Led Initiatives
- Aiding productions with a platform for engagement
- Encouraging emerging youth artists
- Delivering a diverse programme for locals.



Into the Foyer

Our Living Room

- Local Artist Showcase
- Wellbeing Workshops
- Community Gatherings



Meeting Room

Addressing local needs

Classes, Meetings, Clubs, Gatherings

- Haumaru
- Youth Forum
- RTH
- Kids Afterschool Classes
- Matariki
- CMA
- Adult Wellbeing



Beginner Pilates for Women
Tuesdays in term 1
12.15pm - 1.00pm
\$10 per class



Belmont Knitters Club
Join our social knitting group. All ages and stages welcome!
First and third Wednesday of the month
11am-12.30pm
4 School Rd, Belmont
For more info contact:
k1aarc@rosecentre.co.nz 05 445 9900



Community Preschool

Ko ngā kakano o te wā a mua - The seeds of the future.

- Family Orientated
- Community engaged
- Trusted
- 80% Local Staff
- Vital Service for local families
- Focused Child led development
- Te reo Māori & its cultural practices (tikanga)
- Inclusion and equity for all children





Cast & Crew

Overall momentum towards our
Strategic Plan

Operational Team:

- › Delivery Focused
- › Dedicated team of locals
- › Passionate & welcoming

Rose Centre Board

- Diverse experience <
- Committed <
- Focused on good governance <

Next Event: Centre Stage in Belmont

- Build on activities that benefit the community.
- Youth Engagement: Theatre mentor programme
- Collaboration with stakeholders: Wider connections deepened
- Strengthen Grassroots involvement
- Programme Diversity
- Environmental sustainability
- Volunteer engagement
- Board Succession Plan



Numbers *YE 2022/3

Theatre

Bookings - 253
Cast/Crew/Guests - 16,500

Preschool

Avg Child Hours per day - 121
Total Child hours per year - 22,783

Community

Bookings - 781
Participants - 5,330

Children Enrolled - 32
Waiting list - 49



& Feedback

- ››› I went to the Rose Centre last night to watch a production of Shakespeares Twelfth Night. Cut down to a one act and performed by a cast of under 25's, I was blown away by the creativity of it all. I make a lot of glib comments about vaping skateboarders etc, but when I see this kind of thing, I get a good change of perspective. Worth supporting!
- ››› "I love being able to access a local theatre on my bike"
- ››› Working on this show has been my most rewarding theatre-related experience thus far'
- ››› We are extremely proud to be working alongside The Rose Centre / Te Whare Rose as they provide exceptional experiences for community engagement.

Thank you!



MK

MICHAEL KING
Writers Centre

Aotearoa New Zealand's National
Writers Centre supports and develops diverse
New Zealand writers and writing.

Comfortable accommodation for two writers at a time.



The garden 'writing studio'



Writer Tom Doig enjoying the studio.



Strengths

- Prestigious with a long-established reputation within writing community
- Resilient
- Targeted residencies for Māori & Pasifica writers
- International reach through residency exchanges
- Good working relationships with key stakeholders
- Strong board and committed long serving staff



Threats and Challenges

- Funding reliance on only a few organisations
- Sourcing funds specifically for operating expenses.
- Joyce Fisher funding unlikely to remain at current levels.
- Difficult to attract sponsorship in highly competitive arts funding.
- Potential changes to lease in 2025
- Securing funding for Young Writers Programme
- Impact on Auckland literary businesses



Tūpuna Maunga Authority

- Collaborative relationship with TMA
- Focus on Māori outcomes
- Enhancement of environment
- Continue to work on connection between mana whenua and Takarunga



Key outcomes

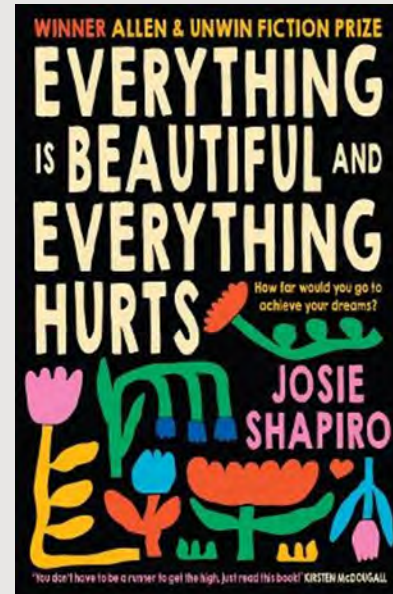
- A well-maintained historic house with purpose.
- Supporting New Zealand writers



Booker Prize
Winner 2013



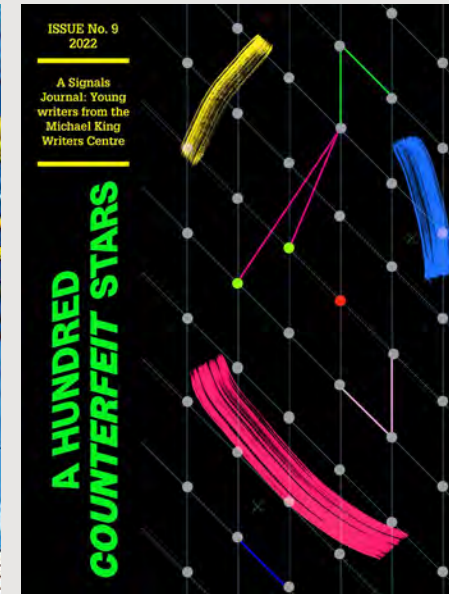
Fiction Prize,
Ockham
Awards 2022



A&U Fiction
Prize 2022



Book of the
Year, NZ
Children's Book
Awards 2021



Signals Young
Writers Awards
2022



Non-Fiction
Prize, Ockham
Awards 2021





Community Delivery Updates

PUTTING *Community*
Wellbeing AT THE
HEART OF ALL WE DO.



Waiwharariki ANZAC Square Placemaking Wrap-Up

What was funded:

- Out and About
 - Hungerball
 - Circus in the Square
 - Junk Play
- Takapuna Beach Business Association
 - Food Truck Thursdays
 - Carols and Music in the Square
 - Movies in the Square
- Lake House Arts
 - Live Carving
 - Sculpture Symposium



Hungerball

8 activations

20-35 attendees per activation



HUNGERBALL



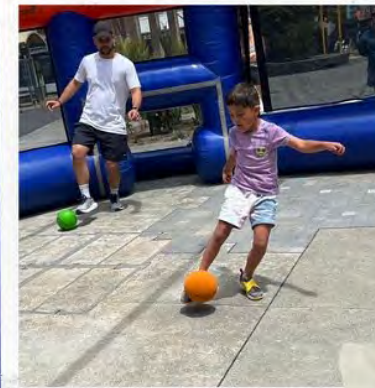
ANZAC SQUARE



25/11/23



HUNGERBALL



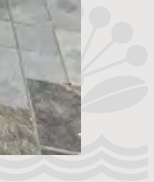
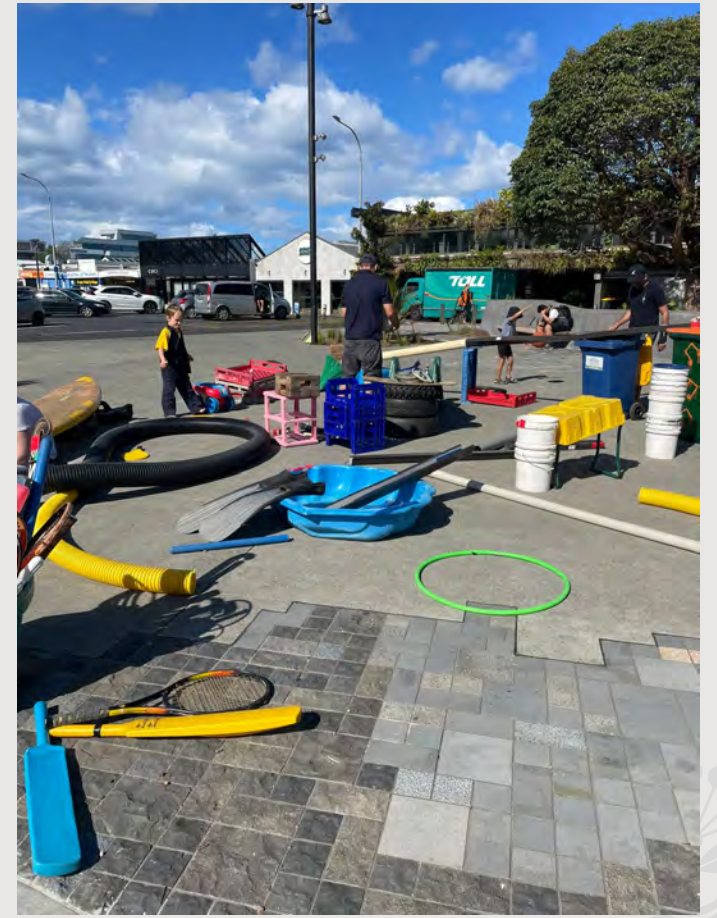
#FINDYOURGAME



Conscious Kids: Junk Play

5 activations

Over 300
attendees across
all 5



Takapuna Beach Business Association



3 Food Truck Thursdays:
2nd Nov, 1st Feb and 14th
March

14th March: a few stallholders
from Sunday markets were there
as well



Takapuna Beach Business Association



Movie Night 17th Feb:
1500 people viewing
DC League of
Superpets and
Barbie



Takapuna Beach Business Association



Christmas Carols and Music in the Square:

- 8 days of performances
- Held Fridays and Saturdays in Nov and Dec



A range of buskers, musicians, bands and choirs performed in the Waiwharariki Anzac Square in the lead up to Christmas to enhance the Christmas shopping experience in Takapuna .



Takapuna Beach Business Association



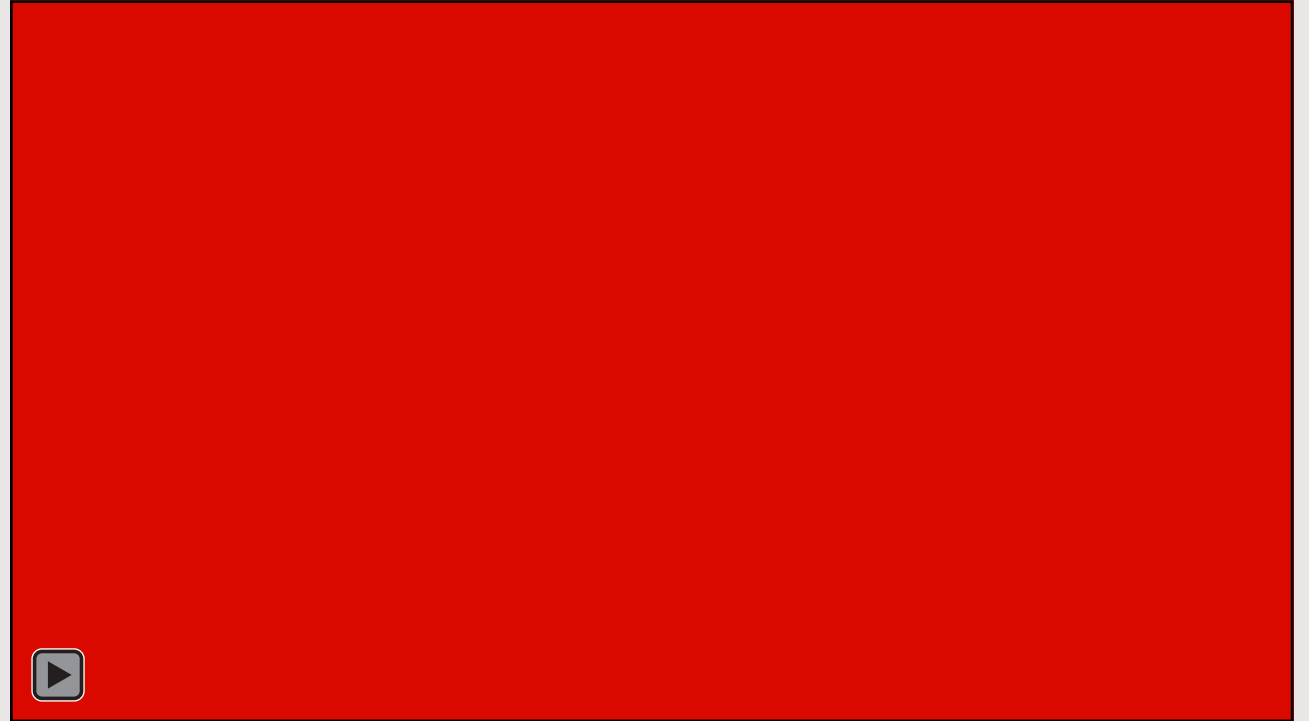
Summer Music in the Square:
17th February, 2nd March, and 9th March

Takapuna Grammar Students Nathan Fry, Milla Rodrigues-Birch, Jessie Hitchens and local student group the Jazzocrats performed Saturday afternoon lunch time sets



Lake House Artist Residency

Live Carvers Ljubica Grubic, Paul Olson, Joe Kemp and Sheree Kemp



Piki e te Tuara Sculpture Symposium and Artist's Market

Estimated 1800 direct engagements over 2 weeks

Estimated 6000 indirect engagements
(foot traffic and roadside observers)



Lake House Arts Centre

3 February · 🌐

Handmade earrings by one of the winners of our Piki e te Tuara artist Residency, Ljubica Grubic, for sale at our Artist Market at Waiwharariki Square



Quick note:

Activator's info added to the DTLB Contact Us Page

Community support and development contacts

We have two community roles to support your needs and aspirations for your community.

Contact our Community Activators with your ideas to make your community better.

Community Activator Raki (north)

Ruth Moloney

✉ Sunnynook Community Centre
148 Sycamore Drive
Sunnynook

@ activator.north@outlook.com

Community Activator Taitonga (south)

Jess Jacobs

✉ Devonport Community House
32 Clarence Street
Devonport

@ activator.south@devonportcomhouse.co.nz

