

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:4000 @ A1	21.04.2020
Check	MLe	1:8000 @ A3	
Appvd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT

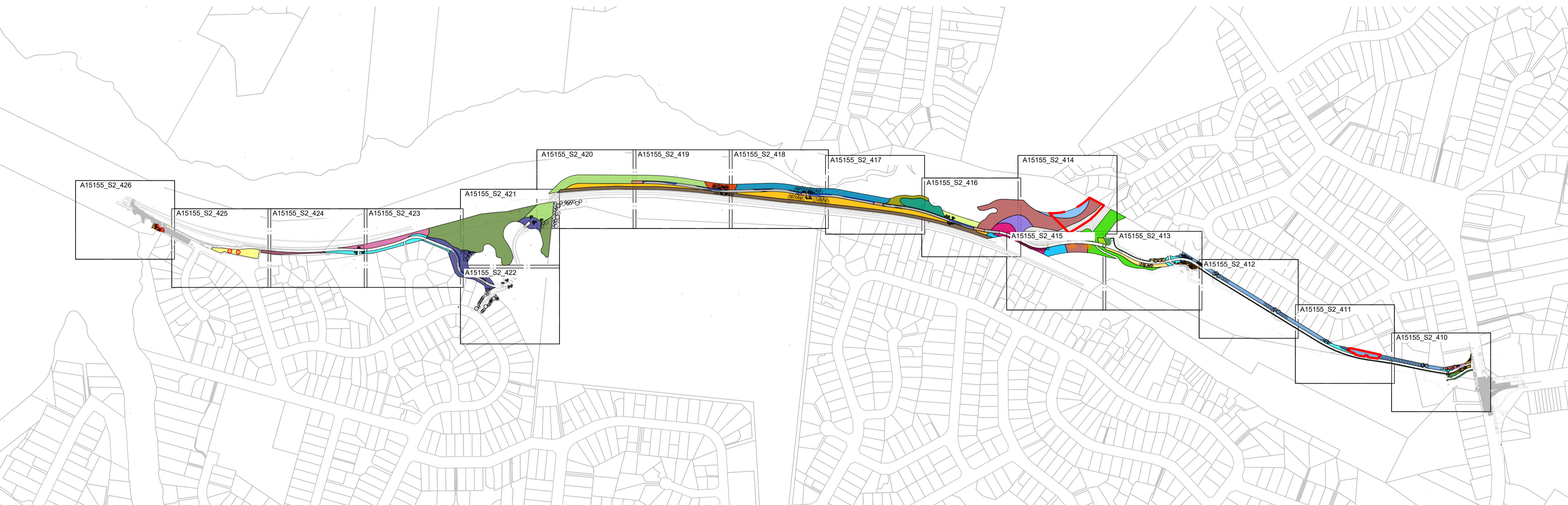
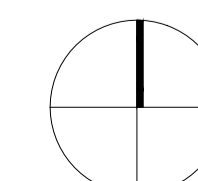


Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING LOCATION PLAN

DRAWING NO.	REVISION
A15155_S2_400	-



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

Glen Innes to Tamaki Drive Cycleway PLANTING MIXES FOR SECTION 2							
Code	Botanical Name	Common Name	Size	%	Cntrs	Quantity	
MIX 01 ENTRANCE							
Ca.sec	Carex secta*	Purei	0.5L	30.0	700	191	
Ca.vir	Carex virgata*	Pukio	0.5L	20.0	800	98	
Co.poo	Coprosma repens prostrate*	Taupata (Prostrate form)	0.5L	15.0	600	130	
Ph.coo	Phormium cookianum subsp. Hookeri^	Wharariki	0.5L	35.0	1500	49	
*Place typically beside path, set back the distance from the path provided for plant spacings ('Cntrs')							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 03 HARA KEKE							
Ap.sim	Apodasmia similis*	Oioi	0.5L	30.0	700	104	
Ph.coo	Phormium cookianum subsp. Hookeri* ^	Wharariki	0.5L	50.0	1500	38	
Ph.ten	Phormium tenax^	Hara keke	0.5L	20.0	2000	9	
*Place typically beside path, set back the distance from the path provided for plant spacings ('Cntrs')							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 04 PATH EDGE							
Ap.sim	Apodasmia similis	Oioi	0.5L	65.0	700	2088	
Co.poo	Coprosma repens prostrate*	Taupata (Prostrate form)	0.5L	35.0	600	1530	
*Place typically beside path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 05 BOUNDARY							
Ar.cir	Arthropodium cirratum*	Rengarenga	0.5L	10.0	700	619	
Ca.sec	Carex secta*	Purei	0.5L	20.0	700	1237	
Co.rob	Coprosma robusta	Karamuramura	0.5L	15.0	1500	202	
He.str	Hebe stricta	Koromiko	0.5L	5.0	1500	67	
Me.ram	Melicytus ramiflorus	Mahoe	0.5L	10.0	1500	135	
Ph.coo	Phormium cookianum subsp. Hookeri* ^	Wharariki	0.5L	10.0	1500	135	
Ph.ten	Phormium tenax^	Hara keke	0.5L	5.0	2000	38	
Pi.eug	Pittosporum eugenioides	Lemonwood	0.5L	10.0	1500	135	
Po.kum	Pomaderris kumeraho	Kumerahou	0.5L	5.0	1500	67	
Ps.les	Pseudopanax lessonii	Houpara	0.5L	10.0	1500	135	
*Place typically beside path, set back the distance from the path provided for plant spacings ('Cntrs')							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 06 RETAINING WALL							
Ca.vir	Carex virgata	Pukio	0.5L	35.0	800	10	
Co.poo	Coprosma repens prostrate	Taupata (Prostrate form)	0.5L	65.0	600	35	
MIX 07 GULLY							
Ca.vir	Carex virgata	Pukio	0.5L	20.0	800	62	
Dy.spe	Dysoxylum spectabile	Kohekohe	5L	10.0	2000	5	
Ku.rob	Kunzea linearis	Kanuka	0.5L	20.0	1500	18	
Me.ram	Melicytus ramiflorus	Mahoe	0.5L	30.0	1500	26	
Sc.dig	Schefflera digitata	Pate	0.5L	10.0	1500	9	
Te.spe	Tecomanthe speciosa*	Akapukaea	2L	5.0	1200	7	
Vi.luc	Vitex lucens	Puriri	5L	5.0	3000	3	
*Place at base of MSE wall to train over the vertical surface							
MIX 08 ENRICHMENT OF EXISTING BUSH- LOOKOUT AREA (assumes 20% enrichment of gaps and edges)							
Co.rob	Coprosma robusta*	Karamuramura	0.5L	12.0	1500	31	
Da.cup	Dacrydium cupressinum	Rimu	5L	5.0	2500	5	
Ku.rob	Kunzea linearis*	Kanuka	0.5L	24.0	1500	62	
Ge.lig	Geniostoma ligustrifolium var. ligustrifolium	Hangehange	0.5L	5.0	1500	13	
He.arb	Hedycarya arborea	Porokaiwhiri	5L	4.0	2500	4	
Kn.exc	Knightia excelsa	Rewarewa	5L	10.0	2000	14	
Ma.exc	Macropiper excelsum	Kawakawa	0.5L	4.0	1500	10	
My.aus	Myrsine australis*	Mapou	0.5L	8.0	1500	21	
Ph.tri	Phyllocladus trichomanoides	Tanekaha	5L	10.0	2000	14	
Po.tot	Podocarpus totara	Totara	5L	12.0	2500	11	
Vi.luc	Vitex lucens	Puriri	5L	6.0	3000	4	
*Plant in more exposed places							
MIX 08a ENRICHMENT OF EXISTING BUSH- ST JOHNS STREAM (assumes 20% enrichment of gaps and edges)							
Cl.pan	Clematis paniculata~	Puawānanga	2L	4.0	1200	5	
Co.gra	Coprosma grandiflora	Kanono	2L	8.0	1500	7	
Cy.dea	Cyathea dealbata	Ponga	5L	6.0	2000	3	
Cy.med	Cyathea medullaris	Mamaku	5L	4.0	2000	3	
Da.cup	Dacrydium cupressinum	Rimu	5L	8.0	2500	3	
Dy.spe	Dysoxylum spectabile	Kohekohe	5L	10.0	2000	5	
Fr.ban	Freyinetia banksii*	Kiekie	2L	4.0	700	15	
Ma.exc	Macropiper excelsum	Kawakawa	0.5L	10.0	1500	8	
Me.ram	Melicytus ramiflorus	Mahoe	0.5L	16.0	1500	13	
Pr.tax	Prumnopitys taxifolia	Matai	5L	8.0	2500	3	
Sc.dig	Schefflera digitata*	Pate	0.5L	8.0	1500	7	
Po.tot	Podocarpus totara	Totara	5L	8.0	2500	3	
Vi.luc	Vitex lucens	Puriri	5L	6.0	3000	3	
*Place in wetter areas							
~Clamber requiring mature tree							

MIX 09 PATH EDGE LOOKOUT							
Ca.sec	Carex secta*	Purei	0.5L	20.0	700	2.04	1.02
Ca.vir	Carex virgata*	Pukio	0.5L	12.0	800	1.56	1.02
Co.rob	Coprosma robusta	Karamuramura	0.5L	20.0	1500	0.44	1.02
He.str	Hebe stricta	Koromiko	0.5L	8.0	1500	0.44	1.02
Ph.coo	Phormium cookianum subsp. Hookeri^	Wharariki	0.5L	24.0	1500	0.44	1.02
Ps.les	Pseudopanax lessonii	Houpara	0.5L	16.0	1500	0.44	1.02
*Place typically beside path, set back the distance from the path provided for plant spacings ('Cntrs')							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 10 WILLOW WETLAND RESTORATION (assumes 50% additional cover for canopy trees)							
Ca.gem	Carex geminata	Cutty grass	0.5L	20.0	600	2.78	1.02
Ca.sec	Carex secta	Purei	0.5L	10.0	600	2.78	1.02
Co.aus	Cordyline australis	Ti Kōuka	0.5L	8.0	1200	0.69	1.02
Ca.ser	Carpodetus serratus	Putaputa wētā	2L	10.0	2500	0.16	1.02
Co.rob	Coprosma robusta	Karamuramura	0.5L	8.0	1500	0.44	1.02
Cy.ust	Cyperus ustulatus	Toetoe upoko-tangata	0.5L	12.0	800	1.56	1.02
Da.dac	Dacrycarpus dacydioides	Kahikatea	5L	20.0	2500	0.16	1.02
Fr.ban	Freyinetia banksii	Kiekie	2L	5.0	700	2.04	1.02
Me.ram	Melicytus ramiflorus	Mahoe	0.5L	8.0	1500	0.44	1.02
La.nov	Laurelia novae-zelandiae	Pukatea	5L	15.0	3000	0.11	1.02
Ph.ten	Phormium tenax^	Hara keke	0.5L	25.0	2000	0.25	1.02
Pi.sal	Ptisana salicina	Para	2L	4.0	1000	1.00	1.02
Rh.sap	Rhopalostylis sapida	Nikau	5L	5.0	2000	0.25	1.02
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 11 LOOKOUT PLANTING							
Ca.sec	Carex secta	Purei	0.5L	30.0	700	2.04	1.06
Ca.vir	Carex virgata	Pukio	0.5L	35.0	800	1.56	1.06
He.str	Hebe stricta*	Koromiko	0.5L	10.0	1500	0.44	1.06
Ph.coo	Phormium cookianum subsp. Hookeri*^	Wharariki	0.5L	25.0	1500	0.44	1.06
*Place lower down the bank to preserve views							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 12 MEADOW							
Ap.sim	Apodasmia similis	Oioi	0.5L	50.0	700	2.04	1.02
Ca.sec	Carex secta	Purei	0.5L	30.0	700	2.04	1.02
Mu.ast	Muehlenbeckia astonii*	Tororaro	0.5L	8.0	1000	1.00	1.02
Ph.coo	Phormium cookianum subsp. Hookeri*^	Wharariki	0.5L	12.0	1500	0.44	1.02
*Place as a broken transitional edge to the 'Meadow Edge' Planting Mix							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							
MIX 12a MEADOW EDGE							
Au.ful	Austroderia fulvida	Toetoe	0.5L	8.0	1500	0.44	1.02
Co.rob	Coprosma robusta	Karamuramura	0.5L	20.0	1500	0.44	1.02
Ku.rob	Kunzea linearis	Kanuka	0.5L	28.0	1500	0.44	1.02
Le.sco	Leptospermum scoparium	Manuka	0.5L	14.0	1500	0.44	1.02
Ph.coo	Phormium cookianum subsp. Hookeri	Wharariki	0.5L	10.0	1500	0.44	1.02
Ph.ten	Phormium tenax	Hara keke	0.5L	20.0	2000	0.25	1.02
MIX 13 WETLAND RESTORATION							
Ca.les	Carex lessoniana	Ruatahi	0.5L	35.0	800	1.56	1.06
Ca.sec	Carex secta	Purei	0.5L	20.0	700	2.04	1.06
Cy.ust	Cyperus ustulatus	Toetoe upoko-tangata	0.5L	25.0	800	1.56	1.06
Ma.rub	Machaerina rubiginosa	Soft twig rush	0.5L	20.0	500	4.00	1.06
MIX 14 RAIL EDGE SOUTH							
Au.ful	Austroderia fulvida	Toetoe	0.5L	5.0	1500	0.44	1.02
Co.rob	Coprosma robusta	Karamuramura	0.5L	10.0	1500	0.44	1.02
He.str	Hebe stricta	Koromiko	0.5L	10.0	1500	0.44	1.02
Ku.rob	Kunzea linearis	Kanuka	0.5L	40.0	1500	0.44	1.02
Pi.cra	Pittosporum crassifolium	Karo	0.5L	15.0	1500	0.44	1.02
Ps.les	Pseudopanax lessonii	Houpara	0.5L	20.0	1500	0.44	1.02
MIX 15 RAIL EDGE NORTH							
As.ban	Astelia banksii*	Wharawhara	0.5L	4.0	700	2.04	1.02
Co.rep	Coprosma repens	Taupata	0.5L	12.0	1500	0.44	1.02
Co.rob	Coprosma robusta	Karamuramura	0.5L	4.0	1500	0.44	1.02
Le.sco	Leptospermum scoparium	Manuka	0.5L	5.0	1500	0.44	1.02
Ku.rob	Kunzea linearis	Kanuka	0.5L	16.0	1500	0.44	1.02
Me.ram	Melicytus ramiflorus	Mahoe	0.5L	26.0	1500	0.44	1.02
Ph.ten	Phormium tenax*^	Hara keke	0.5L	8.0	1500	0.44	1.02
Pi.eug	Pittosporum eugenioides	Lemonwood	0.5L	4.0	1500	0.44	1.02
Ps.les	Pseudopanax lessonii	Houpara	0.5L	16.0	1500	0.44	1.02
So.mic	Sophora microphylla@	Kowhai	5L	5.0	2000	0.25	1.02
*Place adjacent to boardwalk							
@Exclude from all Archaeological sites							
^Where planting occurs beside the path, set back the distance from the path provided for plant spacings ('Cntrs')							

21.04.20 FOR CONSTRUCTION
 REV DATE DESCRIPTION

FOR CONSTRUCTION

Design MLe Scale Date
 Drawn LCh 1:250 @ A1 21.04.2020
 Check MLe 1:500 @ A3
 Appvd MLe

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



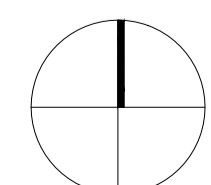
Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
 Section 2

PLANTING SCHEDULE

DRAWING NO. REVISION

A15155_S2_401



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

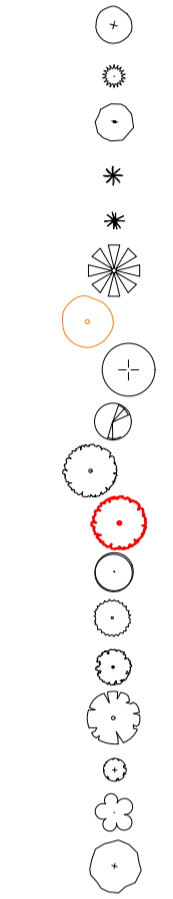
PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

MIX 16 RAIL EDGE SETBACK (low planting)								
As.ban	<i>Astelia banksii</i>	Wharawhara	0.5L	6.0	700	2.04	1.02	498
Co.pro	<i>Coprosma propinqua</i> var. <i>propinqua</i>	Mingimingi	0.5L	6.0	1500	0.44		109
Co.rob	<i>Coprosma robusta</i>	Karamuramura	0.5L	16.0	1500	0.44		289
He.str	<i>Hebe stricta</i>	Koromiko	0.5L	8.0	1500	0.44		145
Ph.coo	<i>Phormium cookianum</i> subsp. <i>Hookeri</i> # ^A	Wharariki	0.5L	24.0	1500	0.44		434
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	40.0	2000	0.25		407
	# Preferred in place of Ph. ten for Archaeological sites							
	^A Where planting occurs beside the path, set back the distance from the path provided for plant spacings ("Ctrs")							
MIX 17 ENRICHMENT LOWLAND RIPARIAN FOREST (assumes 20% enrichment of gaps and edges)								
Cl.pan	<i>Clematis paniculata</i>	Puawānanga	2L	2.0	1200	0.69	1.06	3
Co.gra	<i>Coprosma grandiflora</i>	Kanono	2L	4.0	1500	0.44		3
Co.lae	<i>Corynocarpus laevigata</i>	Karaka	5L	10.0	2000	0.25		3
Cy.dea	<i>Cyathaea dealbata</i>	Ponga	5L	6.0	2000	0.25		3
Cy.med	<i>Cyathaea medullaris</i>	Mamaku	5L	6.0	2000	0.25		3
Dy.spe	<i>Dysoxylum spectabile</i>	Kohekohe	5L	10.0	2000	0.25		3
Fr.ban	<i>Freyinetia banksii</i> [*]	Kiekie	2L	4.0	600	2.78		15
Ge.lig	<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	Hangehange	0.5L	4.0	1500	0.44		3
He.arb	<i>Hedycarya arborea</i>	Porokaiwhiri	2L	4.0	2500	0.16		3
Ma.exc	<i>Macropiper excelsum</i>	Kawakawa	0.5L	10.0	1500	0.44		6
Pa.koh	<i>Passiflora tetrandra</i>	Kohia	2L	2.0	1200	0.69		3
Po.tot	<i>Podocarpus totara</i>	Tōtara	5L	10.0	2500	0.16		3
Pr.tax	<i>Prumnopitys taxifolia</i>	Matai	5L	6.0	2500	0.16		3
Pi.sal	<i>Ptisania salicina</i> [*]	Para	2L	2.0	1000	1.00		3
Rh.sap	<i>Rhoplostylis sapida</i> [*]	Nikau	2L	6.0	2000	0.25		3
Sc.dig	<i>Schefflera digitata</i>	Pate	0.5L	4.0	1500	0.44		3
Vi.luc	<i>Vitex lucens</i>	Puriri	5L	10.0	3000	0.11		3
	[*] Place adjacent to stream							
	~ Climber requiring mature tree							
MIX 18 MANUKA SHRUBLAND								
Co.rob	<i>Coprosma robusta</i>	Karamuramura	0.5L	10.0	1500	0.44	1.06	27
Da.dac	<i>Dacrydium dactyloides</i>	Kahikatea	5L	10.0	2000	0.25		15
Le.sco	<i>Leptospermum scoparium</i>	Manuka	0.5L	60.0	1500	0.44		163
My.aus	<i>Myrsine australis</i>	Mapou	0.5L	4.0	1500	0.44		11
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	16.0	2000	0.25		25
	^A Where planting occurs beside the path, set back the distance from the path provided for plant spacings ("Ctrs")							
MIX 19 LOWLAND RIPARIAN FOREST								
Co.arb	<i>Coprosma arborea</i>	Mamangi	0.5L	4.0	1400	0.51	1.02	57
Co.rep	<i>Coprosma repens</i>	Taupata	0.5L	4.0	1400	0.51		57
Co.rob	<i>Coprosma robusta</i>	Karamuramura	0.5L	4.0	1400	0.51		57
Dy.spe	<i>Dysoxylum spectabile</i>	Kohekohe	5L	4.0	1400	0.51		57
Ku.rob	<i>Kunzea linearis</i>	Kanuka	0.5L	20.0	1400	0.51		283
Le.sco	<i>Leptospermum scoparium</i>	Manuka	0.5L	4.0	1400	0.51		57
Me.ram	<i>Meliclytus ramiflorus</i>	Mahoe	0.5L	30.0	1400	0.51		425
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	10.0	1400	0.51		142
Pi.eug	<i>Pittosporum eugenioides</i>	Lemonwood	0.5L	4.0	1400	0.51		57
Po.tot	<i>Podocarpus totara</i>	Tōtara	5L	8.0	1400	0.51		113
Ps.arb	<i>Pseudopanax arboreus</i> [*]	Puahou, Five Finger	0.5L	4.0	1400	0.51		57
So.mic	<i>Sophora microphylla</i>	Kowhai	5L	4.0	1400	0.51		57
	[*] Place adjacent to streams							
	^A Where planting occurs beside the path, set back the distance from the path provided for plant spacings ("Ctrs")							
MIX 20 - BISHOP SELWYN SITE (assumes 30% enrichment of gaps and understorey)								
Ca.dis	<i>Carex dissita</i>	Purei, Forest Sedge	0.5L	10.0	500	4.00	1.06	81
Ca.vir	<i>Carex virgata</i>	Pukio	0.5L	16.0	800	1.56		50
Cl.pan	<i>Clematis paniculata</i>	Puawānanga	2L	2.0	1200	0.69		3
Co.gra	<i>Coprosma grandiflora</i>	Kanono	2L	6.0	1500	0.44		5
Fr.ban	<i>Freyinetia banksii</i> [*]	Kiekie	2L	6.0	600	2.78		34
Ge.lig	<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	Hangehange	0.5L	14.0	1500	0.44		13
Ma.exc	<i>Macropiper excelsum</i>	Kawakawa	0.5L	24.0	1500	0.44		21
Mi.sti	<i>Microlaena stipoides</i>	Rice Grass	2L	16.0	500	4.00		129
Pa.koh	<i>Passiflora tetrandra</i>	Kohia	2L	2.0	1200	0.69		3
Pi.sal	<i>Ptisania salicina</i> [*]	Para	2L	4.0	1000	1.00		8
	~ Climber requiring mature tree							
	[*] Place adjacent to stream							
MIX 21 COASTAL SHRUB								
Co.rep	<i>Coprosma repens</i>	Taupata	0.5L	8.0	1500	0.44	1.06	171
He.str	<i>Hebe stricta</i>	Koromiko	0.5L	4.0	1500	0.44		85
Le.sco	<i>Leptospermum scoparium</i>	Manuka	0.5L	8.0	1500	0.44		171
Ku.rob	<i>Kunzea linearis</i> [*]	Kanuka	0.5L	20.0	1500	0.44		427
Me.ram	<i>Meliclytus ramiflorus</i>	Mahoe	0.5L	12.0	1500	0.44		256
Me.exc	<i>Metrosideros excelsa</i> [@]	Pohutukawa	5L	10.0	3000	0.11		53
My.lae	<i>Myoporum laetum</i>	Ngaio	0.5L	8.0	2500	0.16		61
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	8.0	2000	0.25		96
Pi.cra	<i>Pittosporum crassifolium</i>	Karo	0.5L	4.0	1500	0.44		85
Ps.les	<i>Pseudopanax lessonii</i>	Houpara	0.5L	14.0	1500	0.44		299
So.mic	<i>Sophora microphylla</i> [@]	Kowhai	5L	4.0	2000	0.25		48
	[@] To be located 10m from the B6 rail bridge							
	[@] Exclude from all Archaeological sites							
	^A Where planting occurs beside the path, set back the distance from the path provided for plant spacings ("Ctrs")							

MIX 22 PATH EDGE TAHAPA RESERVE								
Ca.sec	<i>Carex secta</i>	Purei	0.5L	15.0	600	2.78	1.06	1177
Ca.vir	<i>Carex virgata</i>	Pukio	0.5L	10.0	600	2.78		784
Co.rep	<i>Coprosma repens</i>	Taupata	0.5L	5.0	1500	0.44		63
Co.rob	<i>Coprosma robusta</i>	Karamuramura	0.5L	5.0	1500	0.44		63
He.str	<i>Hebe stricta</i>	Koromiko	0.5L	5.0	1500	0.44		63
Ph.coo	<i>Phormium cookianum</i> subsp. <i>Hookeri</i> ^A	Wharariki	0.5L	25.0	1000	1.00		706
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	15.0	2000	0.25		106
Ps.les	<i>Pseudopanax lessonii</i>	Houpara	0.5L	15.0	1500	0.44		188
So.mic	<i>Sophora microphylla</i> [*]	Kowhai	5L	5.0	2000	0.25		35
	~ Nearest to grass edge							
	[*] Place min 10m from the B6 rail bridge							
	^A Where planting occurs beside the path, set back the distance from the path provided for plant spacings ("Ctrs")							
MIX 23 ENRICHMENT TAHAPA RESERVE (assumes 20% enrichment of gaps and edges)								
Be.taw	<i>Beilschmiedia tawa</i>	Tawa	5L	8.0	2000	0.25	1.02	38
Cl.pan	<i>Clematis paniculata</i>	Puawānanga	2L	2.0	1200	0.69		26
Co.gra	<i>Coprosma grandiflora</i>	Kanono	2L	6.0	1500	0.44		50
Dy.spe	<i>Dysoxylum spectabile</i>	Kohekohe	2L	10.0	2000	0.25		47
Ge.lig	<i>Geniostoma ligustrifolium</i> var. <i>ligustrifolium</i>	Hangehange	0.5L	12.0	1500	0.44		101
He.arb	<i>Hedycarya arborea</i>	Porokaiwhiri	2L	8.0	2500	0.16		24
Ma.exc	<i>Macropiper excelsum</i>	Kawakawa	0.5L	12.0	1500	0.44		101
Pa.tet	<i>Passiflora tetrandra</i>	Kohia	2L	2.0	1200	0.69		26
Po.tot	<i>Podocarpus totara</i>	Tōtara	5L	16.0	2500	0.16		48
Pr.fer	<i>Prumnopitys ferruginea</i>	Miro	5L	14.0	2500	0.16		42
Sc.dig	<i>Schefflera digitata</i>	Pate	0.5L	4.0	1500	0.44		34
Vi.luc	<i>Vitex lucens</i>	Puriri	5L	6.0	3000	0.11		13
	~ Climber requiring mature tree							
MIX 24 COASTAL ESCARPMENT								
As.ban	<i>Astelia banksii</i> ^A	Shore Kowhara whara	0.5L	5.0	700	2.04	1.06	121
Ca.sec	<i>Carex secta</i> [*]	Purei	0.5L	15.0	700	2.04		362
Co.rep	<i>Coprosma repens</i>	Taupata	0.5L	8.0	1500	0.44		42
He.str	<i>Hebe stricta</i>	Koromiko	0.5L	8.0	1500	0.44		42
My.lae	<i>Myoporum laetum</i>	Ngaio	0.5L	4.0	2500	0.16		8
Mu.ast	<i>Muehlenbeckia astonii</i>	Tororaro	0.5L	8.0	1000	1.00		94
My.aus	<i>Myrsine australis</i>	Mapou	0.5L	2.0	1500	0.44		10
Ph.coo	<i>Phormium cookianum</i> subsp. <i>Hookeri</i> [#]	Wharariki	0.5L	26.0	1500	0.44		136
Pi.cra	<i>Pittosporum crassifolium</i>	Karo	0.5L	8.0	1500	0.44		42
Ps.les	<i>Pseudopanax lessonii</i>	Houpara	0.5L	16.0	1500	0.44		84
	[*] Nearest to path edge, set back the distance from the path provided for by plant spacings ("Ctrs")							
	^A Planting to occur behind one row minimum of <i>C. secta</i> ,							
	[#] Locate <i>P. Cookianum</i> along the entire Kiwirail boundary, set back 1500mm from boundary							
MIX 24a COASTAL ESCARPMENT (MEADOWBANK CLIFF)								
As.ban	<i>Astelia banksii</i> [*]	Shore Kowhara whara	0.5L	4.0	700	2.04	1.41	45
Mu.com	<i>Muehlenbeckia complexa</i> #	Pohuehue	0.5L	36.0	1000	1.00		199
Co.ace	<i>Coprosma acerosa</i> #	Sand coprosma	0.5L	24.0	800	1.56		207
He.str	<i>Hebe stricta</i> [*]	Koromiko	0.5L	6.0	1000	1.00		33
Ph.coo	<i>Phormium cookianum</i> subsp. <i>Hookeri</i> [*]	Wharariki	0.5L	14.0	1000	1.00		77
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	6.0	1400	0.51		17
Pi.cra	<i>Pittosporum crassifolium</i> ^A	Karo	0.5L	4.0	1400	0.51		11
Ps.les	<i>Pseudopanax lessonii</i> ^A	Houpara	0.5L	6.0	1400	0.51		17
	[*] Plant at property boundaries above the cliff where safely accessible by foot for maintenance.							
	^A Also plant in pockets of soil at the base of the cliff where plants can be reached from the future path without machinery							
	^A Plant at eastern and western ends of the cliff face where accessible by foot for maintenance							
	[#] Plant at the top of the cliff or in the place of weeds growing on the cliff face, to cascade and spread							
MIX 25 COASTAL PHOHUTUKAWA BANK								
Ar.cir	<i>Arthropodium cirratum</i>	Rengarenga	0.5L	15.0	700	2.04	1.06	275
As.ban	<i>Astelia banksii</i>	Wharawhara	0.5L	10.0	700	2.04		183
Ca.sec	<i>Carex secta</i>	Purei	0.5L	15.0	700	2.04		275
Ma.exc	<i>Macropiper excelsum</i>	Kawakawa	0.5L	10.0	1500	0.44		40
Ph.coo	<i>Phormium cookianum</i> subsp. <i>Hookeri</i> ^A	Wharariki	0.5L	25.0	1500	0.44		100
Ph.ten	<i>Phormium tenax</i> ^A	Haraeke	0.5L	15.0	2000	0.25		34
Ps.les	<i>Pseudopanax lessonii</i>	Houpara	0.5L	10.0	1500	0.44		40
	^A Where planting occurs beside the path, set back the distance from the path provided for plant spacings ("Ctrs")							
MIX 26 BOARDWALK HIGH (>3m Boardwalk to GL)								
Ca.vir	<i>Carex virgata</i>	Pukio	0.5L	20.0	800	1.56	1.02	101
Co.gra	<i>Coprosma grandiflora</i>	Kanono	2L	6.0				



MIX 27 BOARDWALK LOW (1-3m Boardwalk to GL)							
Ar.cir	<i>Arthropodium cirratum</i>	Rengarenga	0.5	4.0	700	2.04	67
As.bul	<i>Asplenium bulbiferum*</i>	Pikopiko	0.5L	4.0	600	2.78	1.02
Ca.dis	<i>Carex dissita</i>	Purei, Forest Sedge	0.5L	8.0	500	4.00	263
Ca.vir	<i>Carex virgata</i>	Pukio	0.5L	46.0	800	1.56	592
Di.nig	<i>Dianella nigra</i>	Turutu	2L	12.0	600	2.78	274
Fr.ban	<i>Freycinetia banksii*</i>	Kiekie	2L	4.0	600	2.78	91
Lo.dis	<i>Lomaria discolor</i>	Piupiu	0.5L	10.0	600	2.78	229
Ma.exc	<i>Macropiper excelsum</i>	Kawakawa	0.5L	12.0	1500	0.44	44
	*in wetter areas						
SPECIMEN TREES							
Al.exc	<i>Alectryon excelsus</i>	Titoki	25L		as spec		27
Co.aus	<i>Cordyline australis</i>	Ti Kōuka	10L		as spec		46
Co.lae	<i>Corynocarpus laevigata</i>	Karaka	25L		as spec		28
Cy.dea	<i>Cyathea dealbata</i>	Ponga	10L		as spec		12
Cy.med	<i>Cyathea medullaris</i>	Mamaku	10L		as spec		15
Da.cup	<i>Dacrydium cupressinum</i>	Rimu	50L		as spec		2
Da.dac	<i>Dacrycarpus dacrydioides</i>	Kahikatea	80L		as spec		23
Dy.spe	<i>Dysoxylum spectabile</i>	Kohekohe	25L		as spec		30
Kn.exc	<i>Knightia excelsa</i>	Rewarewa	25L		as spec		12
Me.exc	<i>Metrosideros excelsa</i>	Pohutukawa	50L		as spec		8
Me.exc	<i>Metrosideros excelsa</i>	Pohutukawa	80L		as spec		5
Pi.cra	<i>Pittosporum crassifolium</i>	Karo	10L		as spec		11
Pi.eug	<i>Pittosporum eugenioides</i>	Lemonwood	10L		as spec		26
Pi.ten	<i>Pittosporum tenuifolium</i>	Kohuhu	10L		as spec		5
Po.tot	<i>Podocarpus totara</i>	Tōtara	50L		as spec		18
Rh.sap	<i>Rhopalostylis sapida</i>	Nikau	25L		as spec		68
So.tet	<i>Sophora tetraptera</i>	Kowhai	25L		as spec		13
Vi.luc	<i>Vitex lucens</i>	Puriri	50L		as spec		11
GRASS							
	<i>Seeded grass mix as specified</i>					1.00	1.00
	Notes: 1. Myrtaceae Family plants such as Pohutukawa, Kanuka and Manuka trees: if available use Myrtle Rust disease resistant varieties. Substitution to be considered in the event the disease has severe effects on planting.						

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT

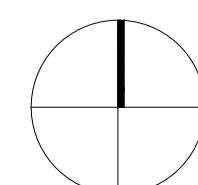


Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

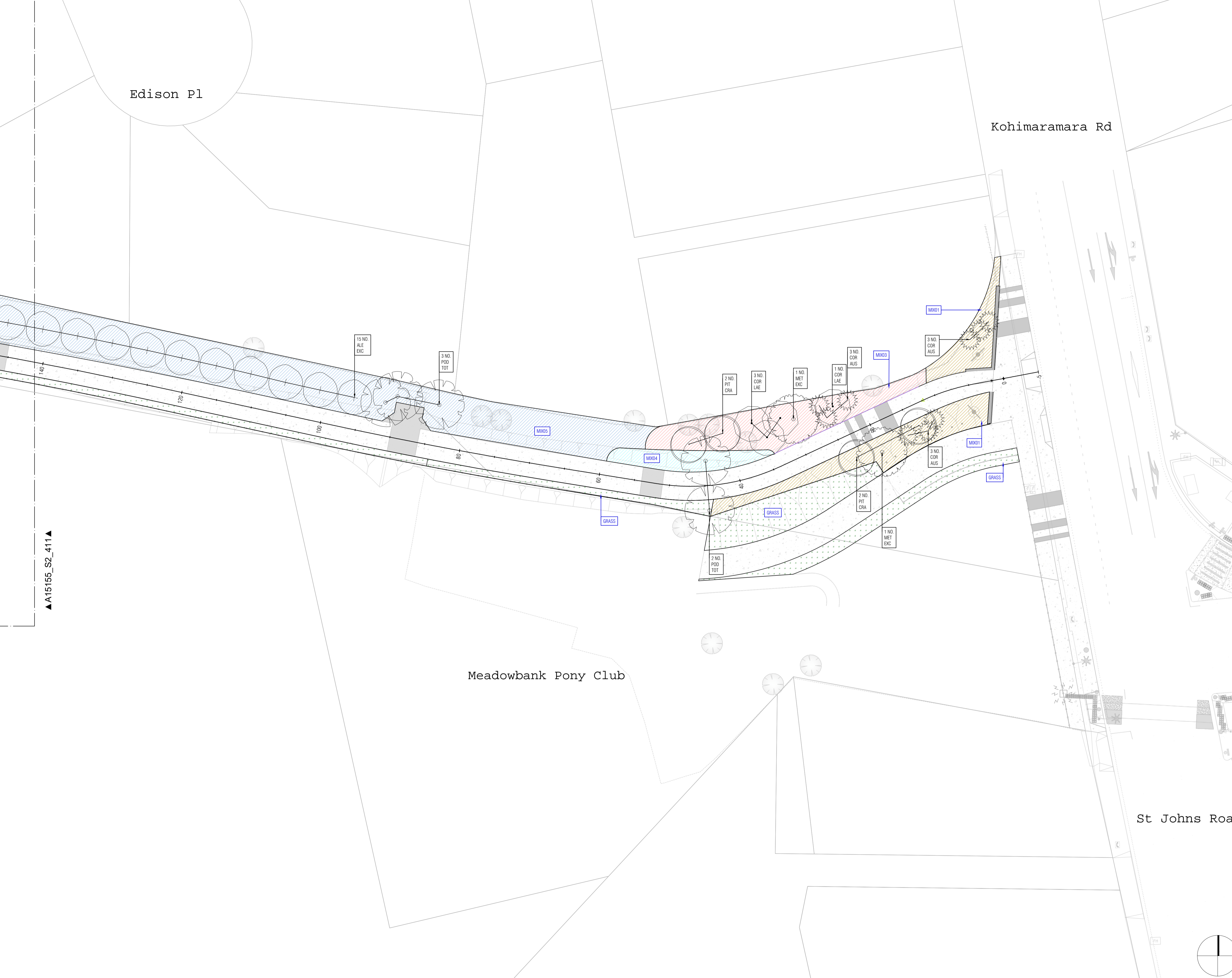
TE ARA KI UTA KI TAI
Section 2

PLANTING SCHEDULE

DRAWING NO.	REVISION
A15155_S2_403	-



This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



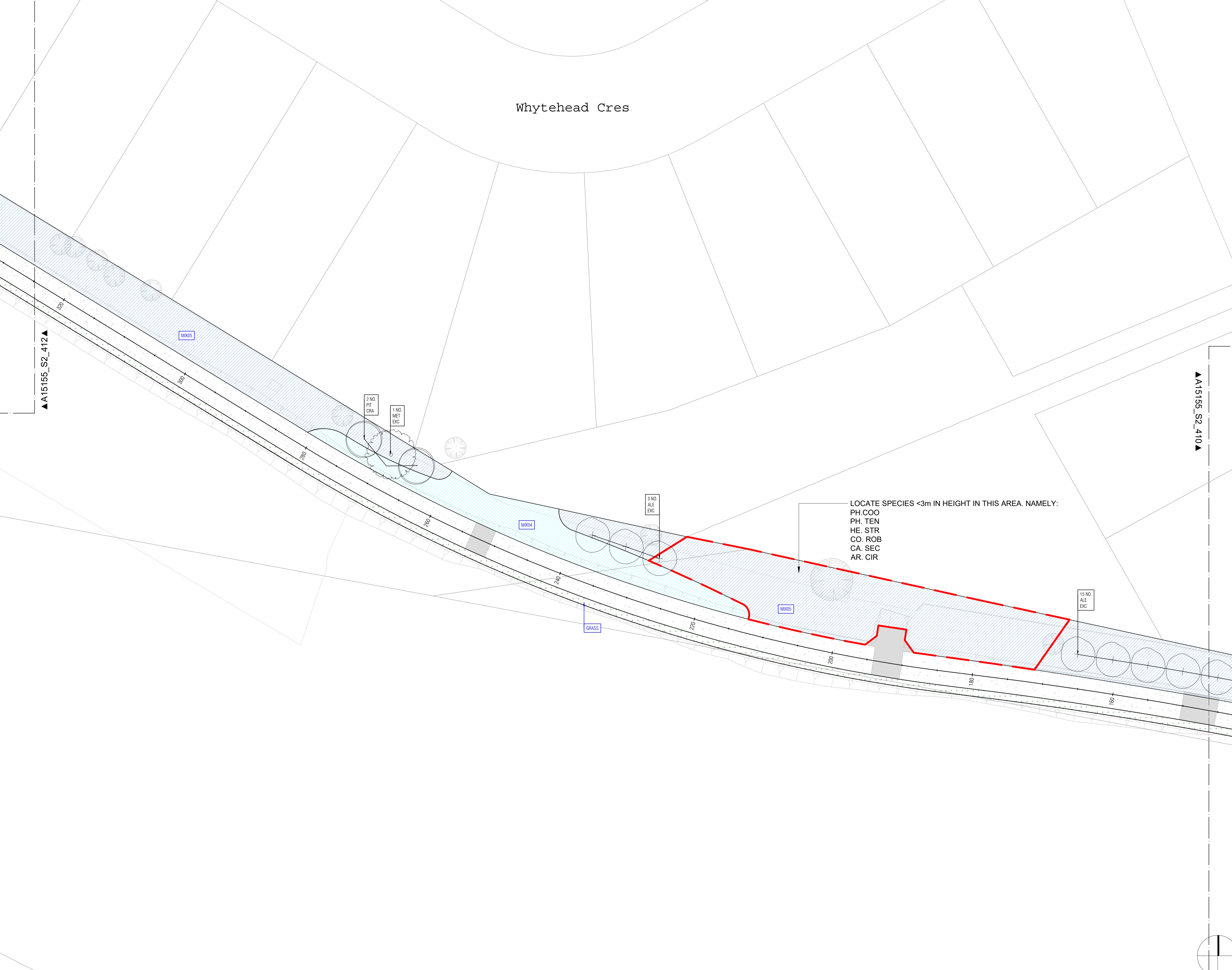
Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

**TE ARA KI UTA KI TAI
Section 2**

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_410	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



Whytehead Cres

LOCATE SPECIES <3m IN HEIGHT IN THIS AREA. NAMELY:
 PH. COO
 PH. TEN
 HE. STR
 CO. ROB
 CA. SEC
 AR. CIR

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

- KEY**
- MIX 01- ENTRANCE
 - MIX 03- HARAKEKE
 - MIX 04- PATH EDGE
 - MIX 05- BOUNDARY
 - MIX 06- RETAINING WALL
 - MIX 07- GULLY
 - MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
 - MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
 - MIX 09- PATH EDGE LOOKOUT
 - MIX 10- WILLOW WETLAND RESTORATION
 - MIX 11- LOOKOUT
 - MIX 12- MEADOW
 - MIX 12a- MEADOW EDGE
 - MIX 13- WETLAND RESTORATION
 - MIX 14- RAIL EDGE SOUTH
 - MIX 15- RAIL EDGE NORTH
 - MIX 16- RAIL EDGE SETBACK
 - MIX 17- ENRICHMENT LOWLAND RIPARIAN
 - MIX 18- MANUKA SHRUBLAND
 - MIX 19- LOWLAND RIPARIAN FOREST
 - MIX 20- BISHOP SELWYN SITE
 - MIX 21- COASTAL SHRUB
 - MIX 22- PATH EDGE TAHAPA RESERVE
 - MIX 23- ENRICHMENT
 - MIX 24- COASTAL ESCARPMENT - MEADOWBANK CLIFF
 - MIX 25- COASTAL POHUTUKAWA BANK
 - MIX 26- BOARDWALK HIGH
 - MIX 27- BOARDWALK LOW
 - GRASS
 - EXISTING TREE
 - RIPRAP

REV	DATE	FOR CONSTRUCTION DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLE	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLE	1:500 @ A3	
Appv'd	MLE		

CONSULTANTS

CLIENT
 AUCKLAND TRANSPORT

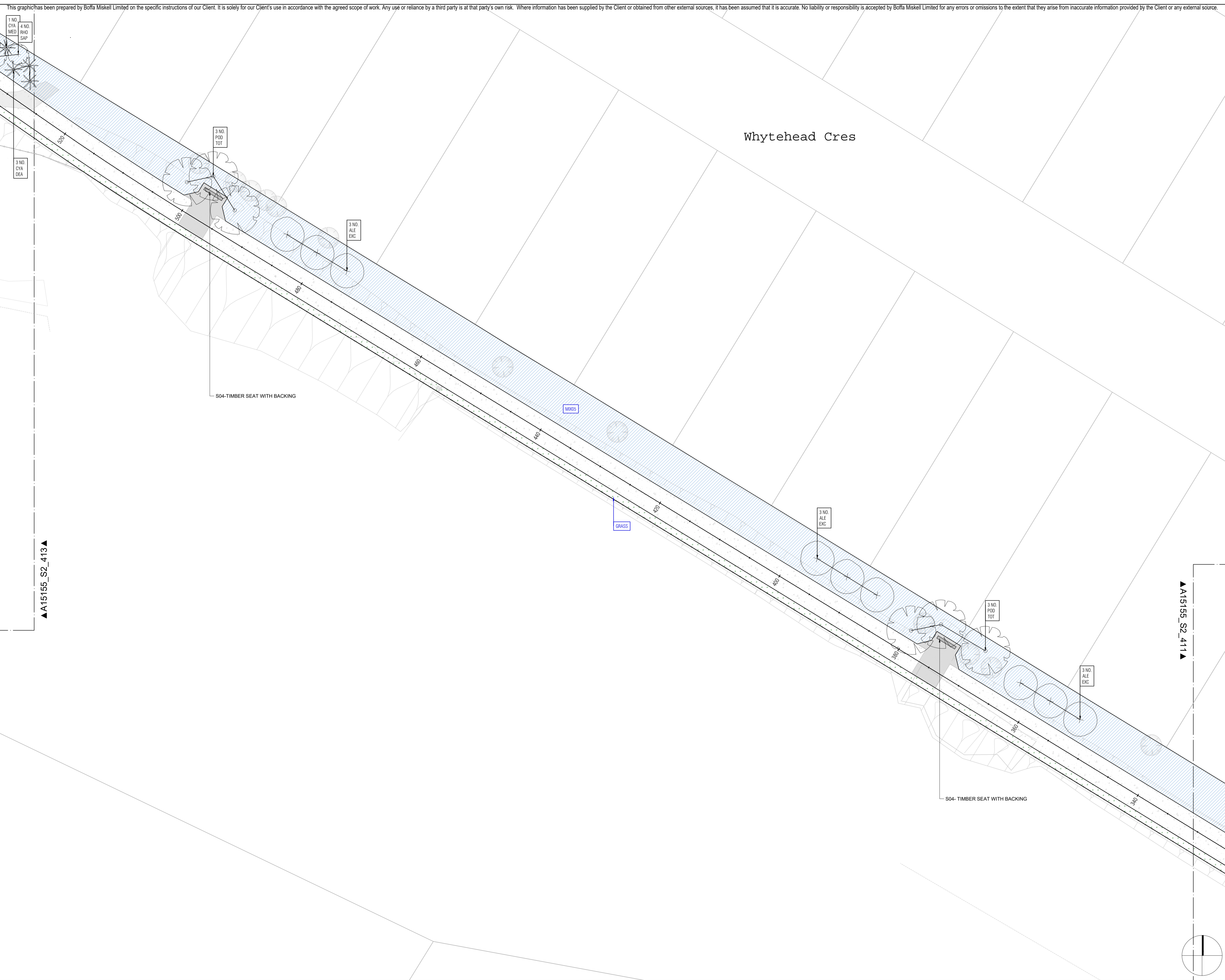


Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
 Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_411	-



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



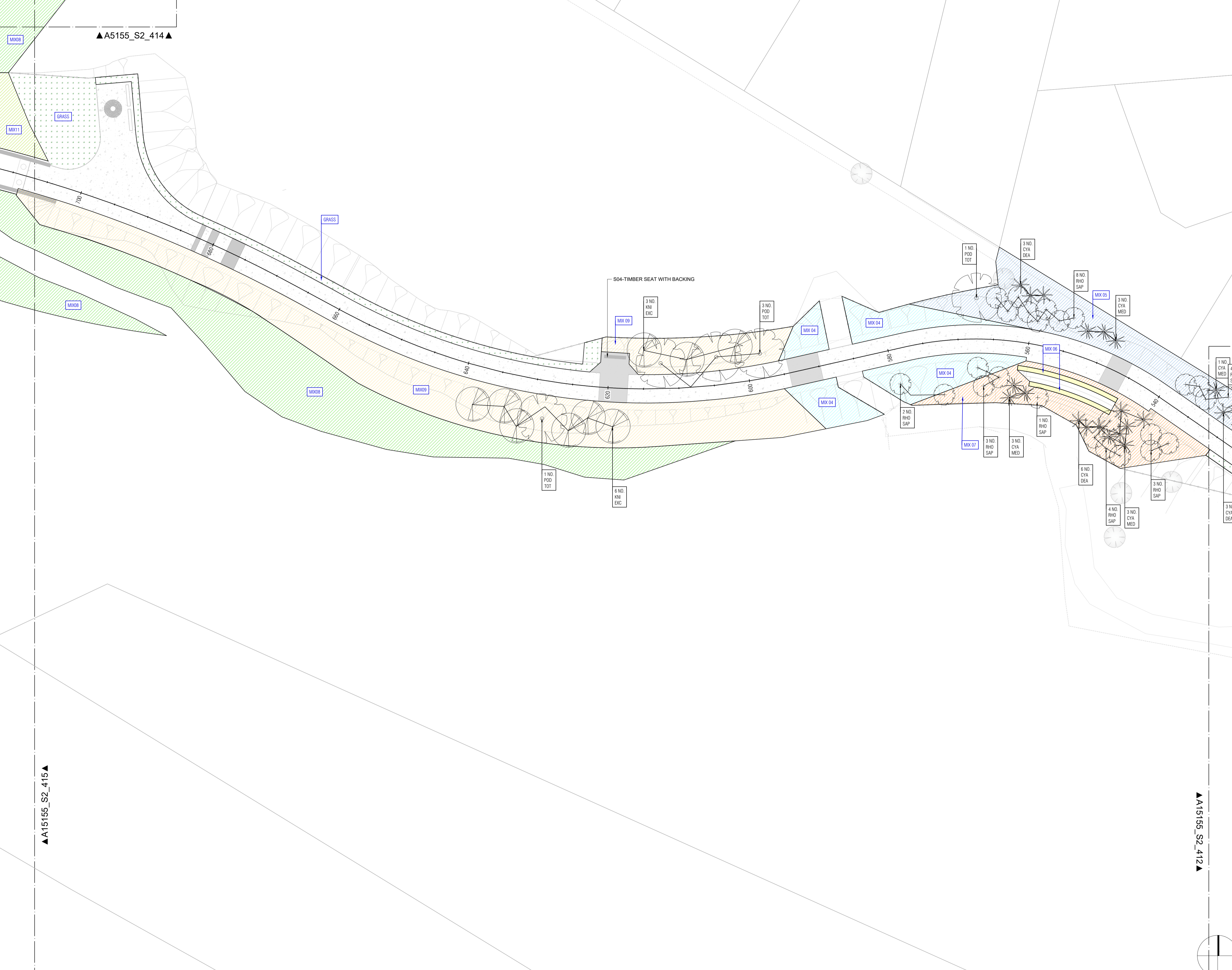
Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

**TE ARA KI UTA KI TAI
Section 2**

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_412	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



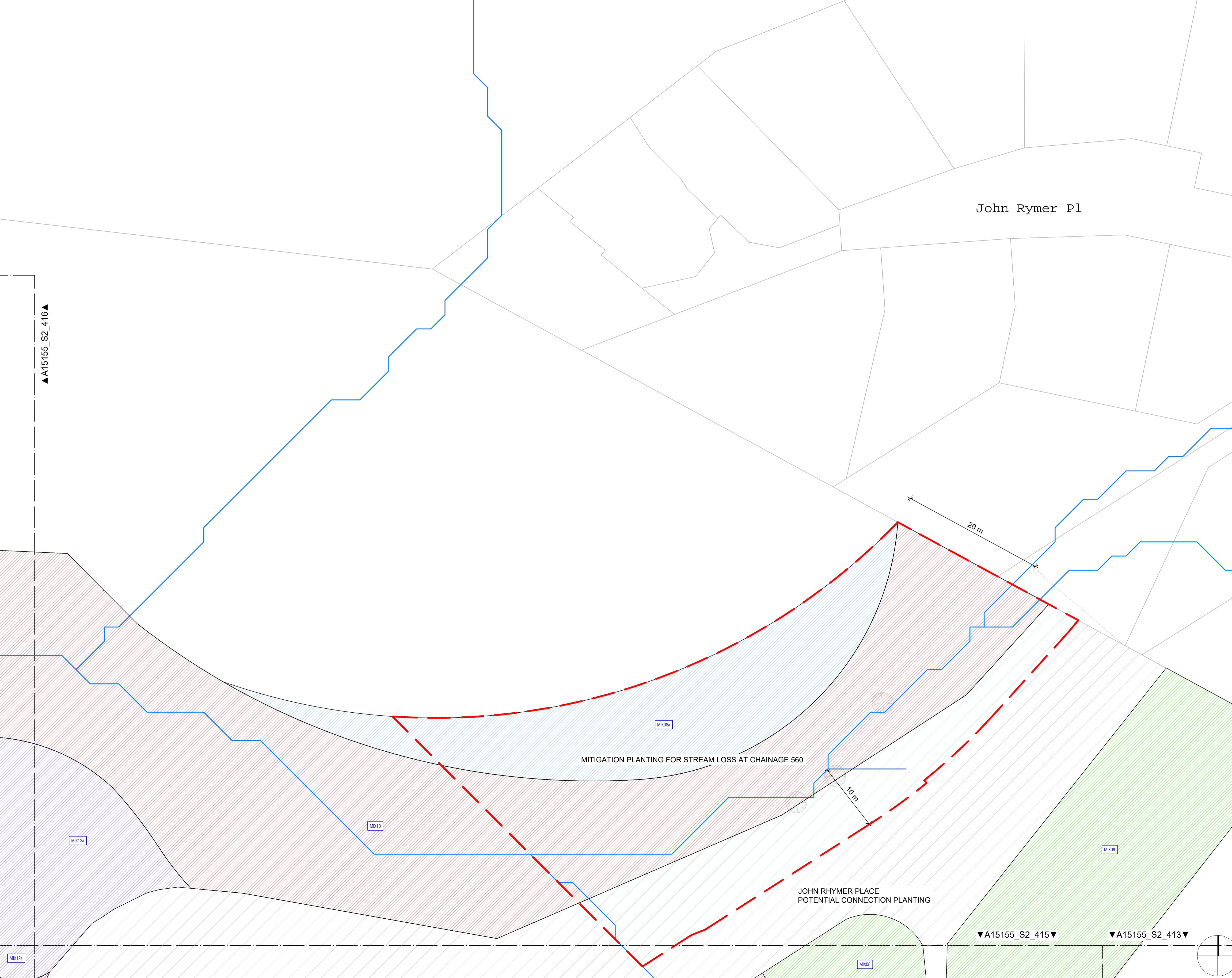
Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_413	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT

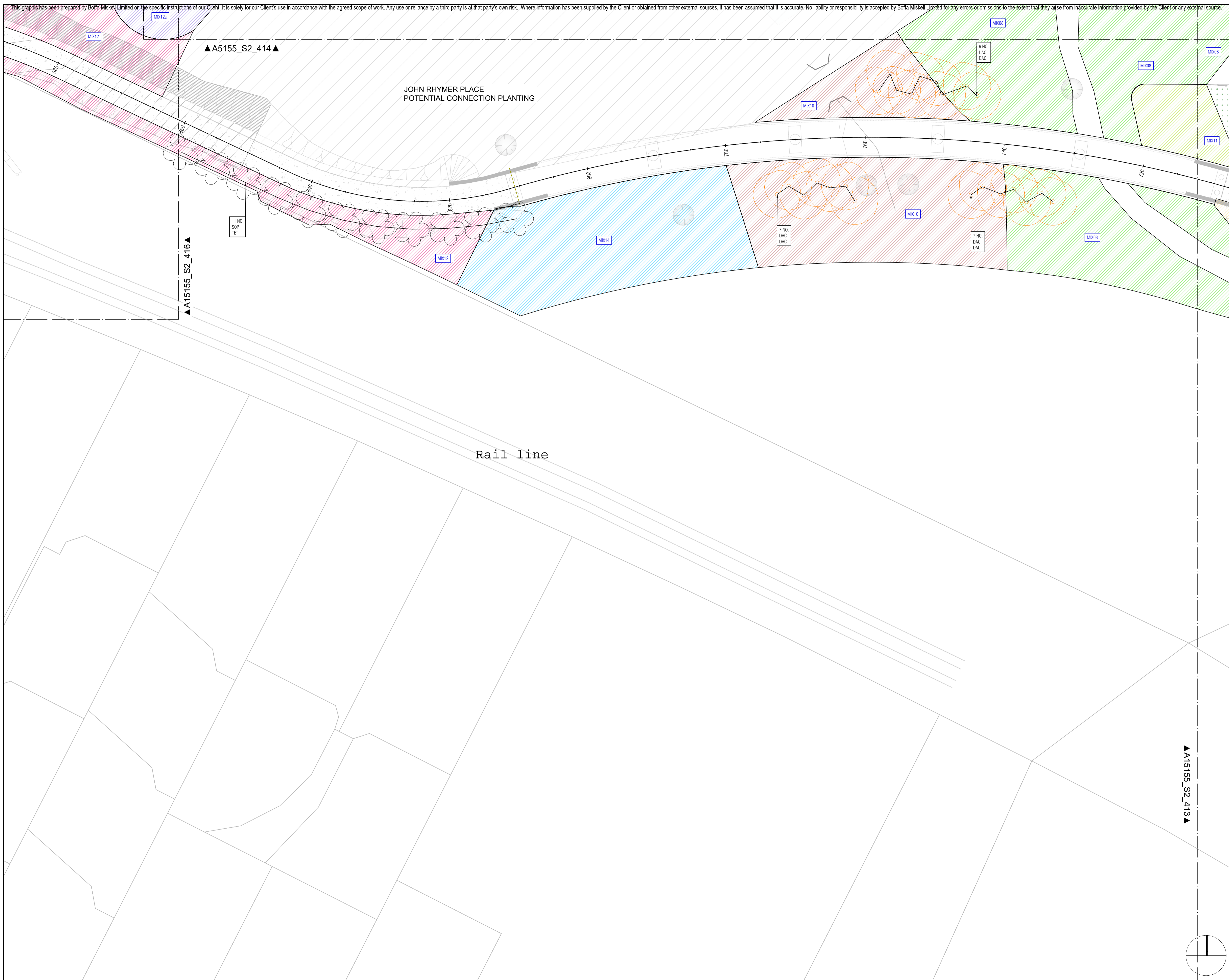


Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

**TE ARA KI UTA KI TAI
Section 2**

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_414	-



This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	FOR CONSTRUCTION DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



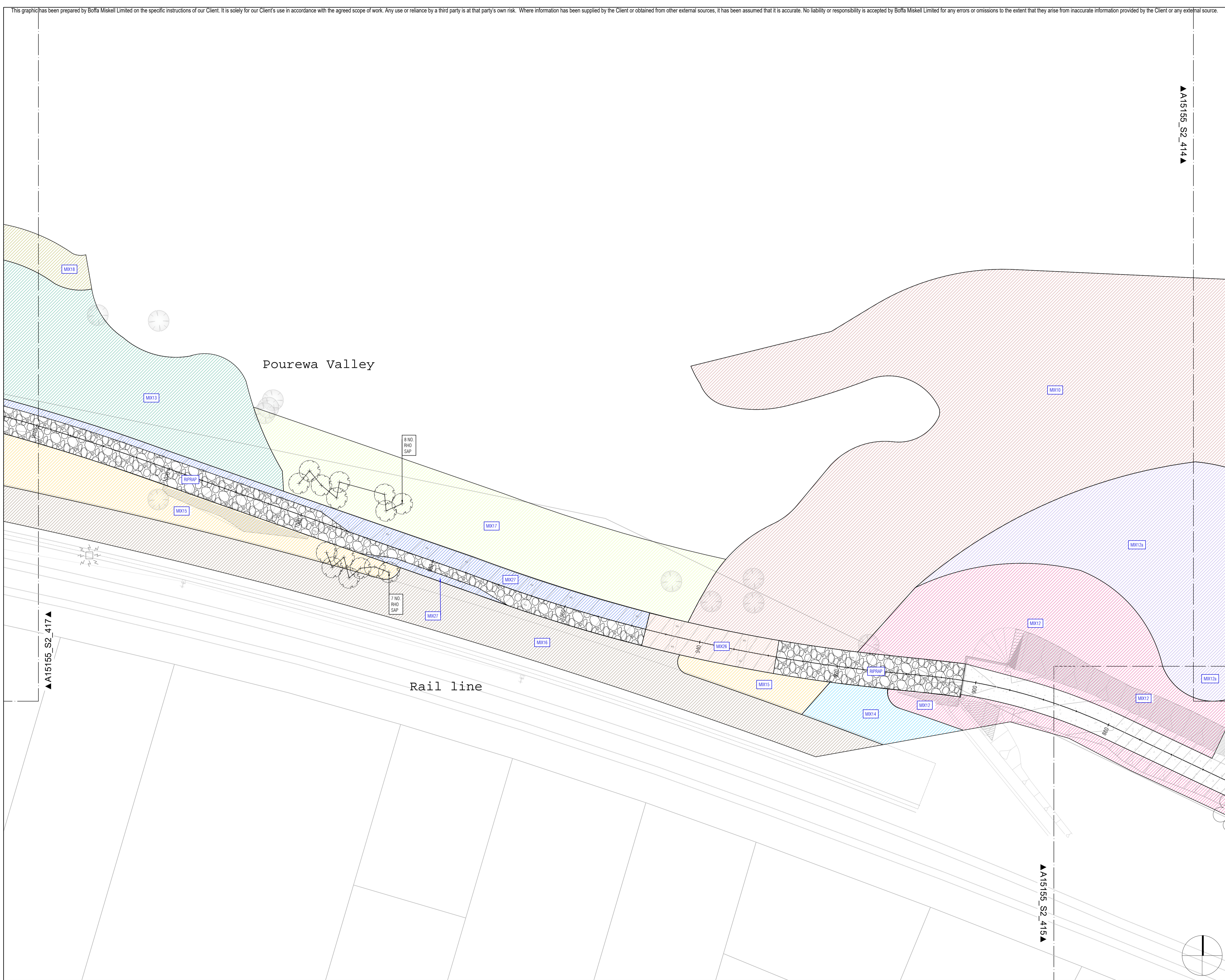
Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_415	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLE	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLE	1:500 @ A3	
Appv'd	MLE		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



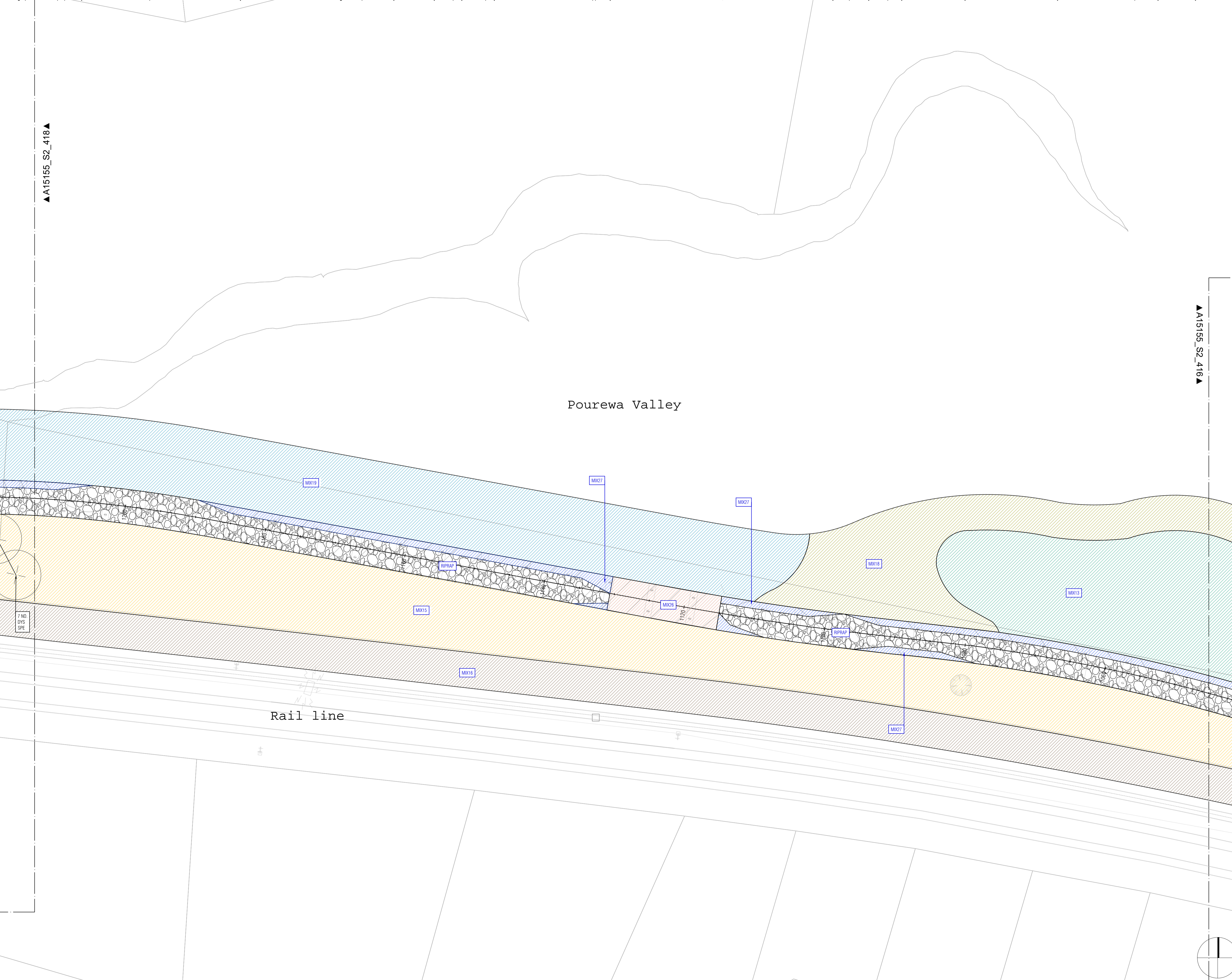
Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_416	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_417	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appvd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

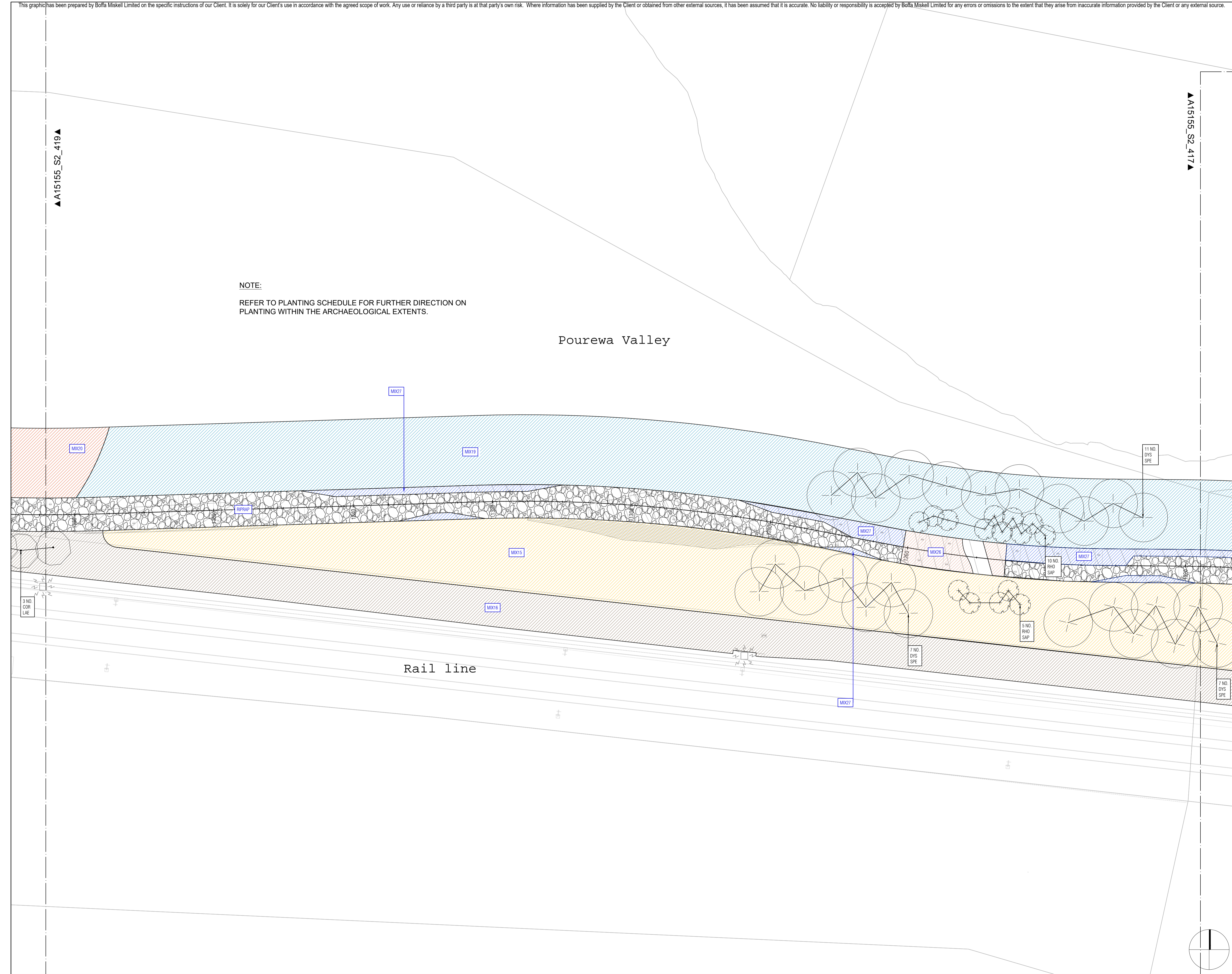
PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_418	-

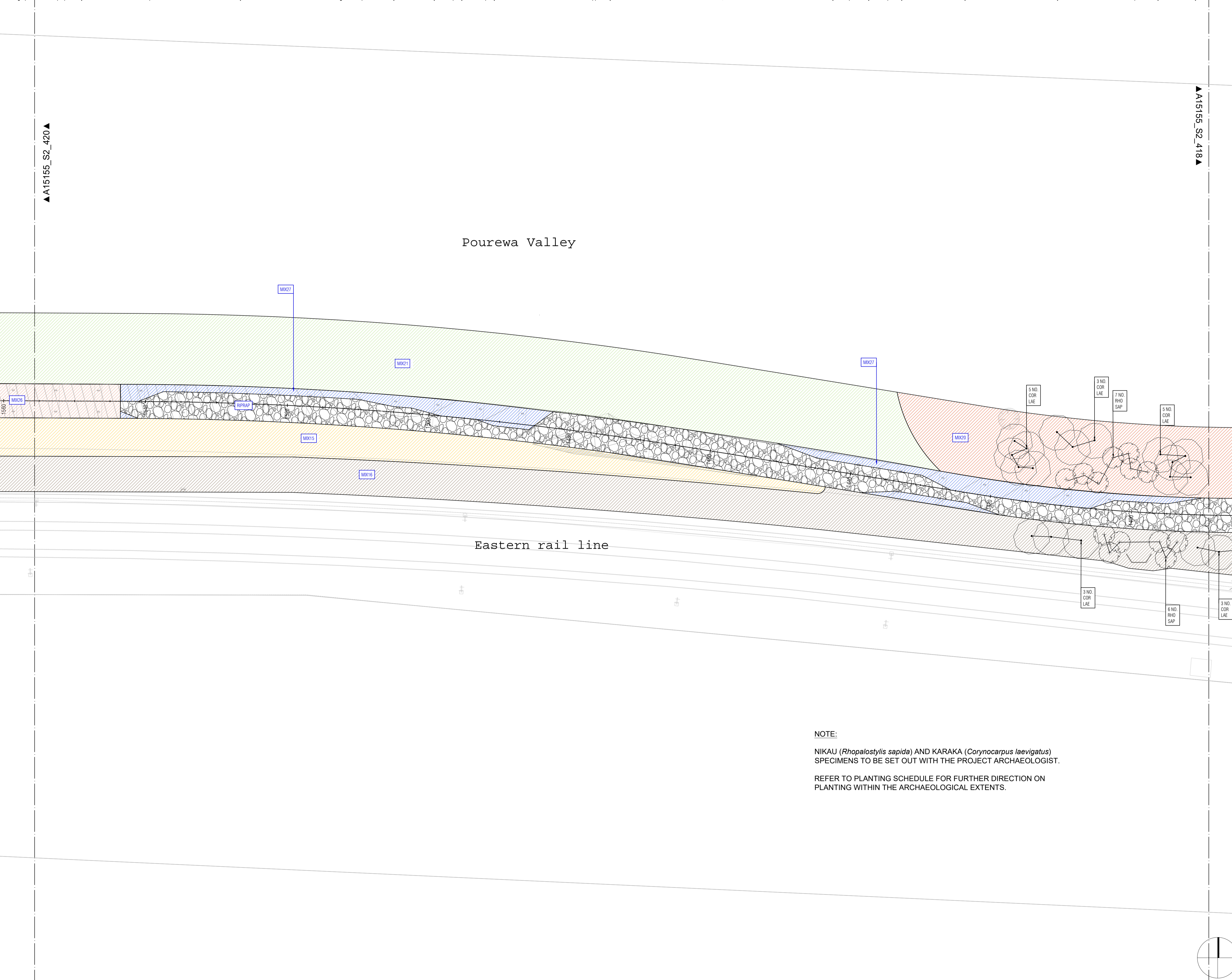
NOTE:
 REFER TO PLANTING SCHEDULE FOR FURTHER DIRECTION ON PLANTING WITHIN THE ARCHAEOLOGICAL EXTENTS.

Pourewa Valley

Rail line



This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appvd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_419	-

NOTE:
 NIKAU (*Rhoplostylis sapida*) AND KARAKA (*Corynocarpus laevigatus*) SPECIMENS TO BE SET OUT WITH THE PROJECT ARCHAEOLOGIST.
 REFER TO PLANTING SCHEDULE FOR FURTHER DIRECTION ON PLANTING WITHIN THE ARCHAEOLOGICAL EXTENTS.

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	FOR CONSTRUCTION	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION	

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appvd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT

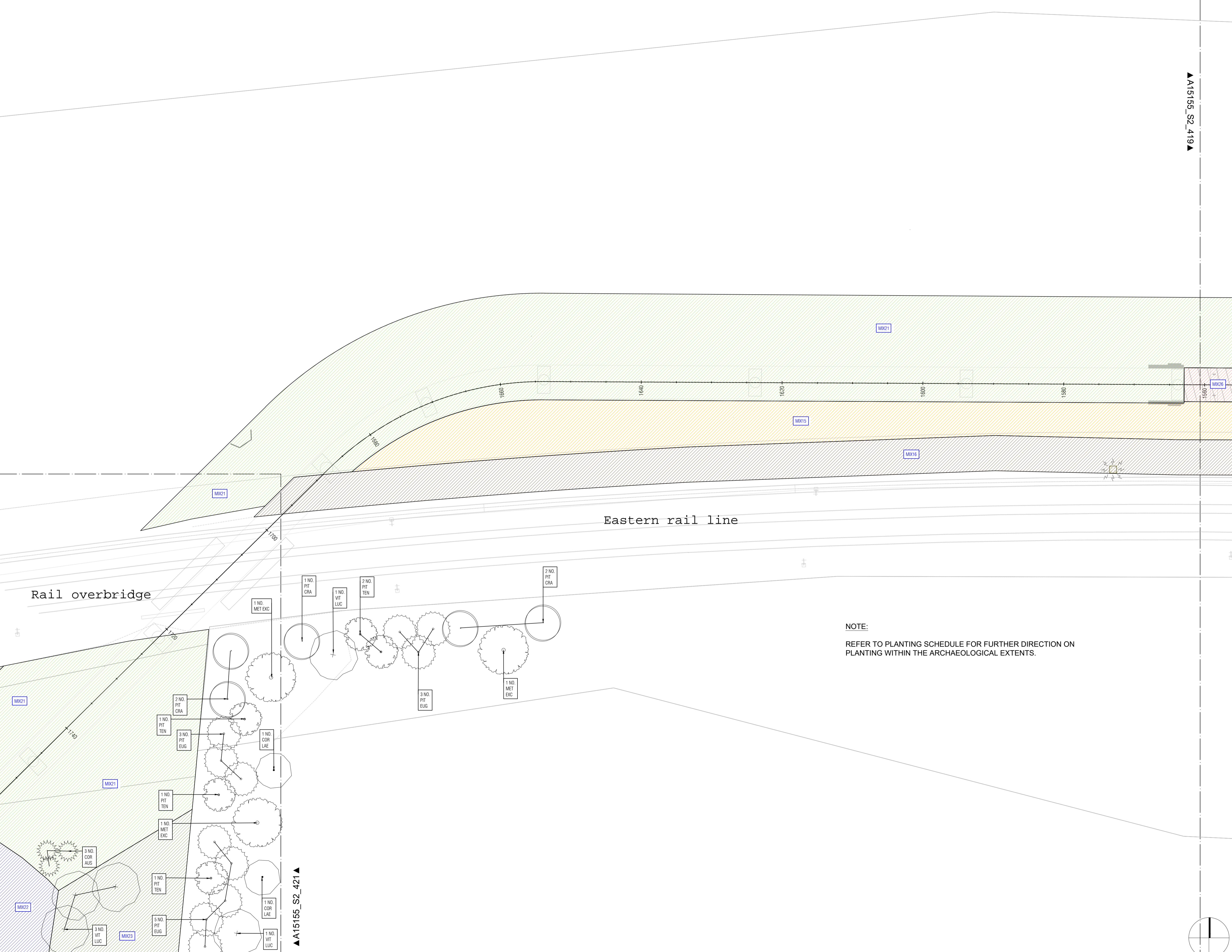
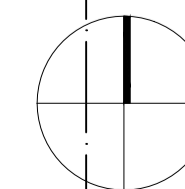


Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

**TE ARA KI UTA KI TAI
Section 2**

PLANTING PLAN

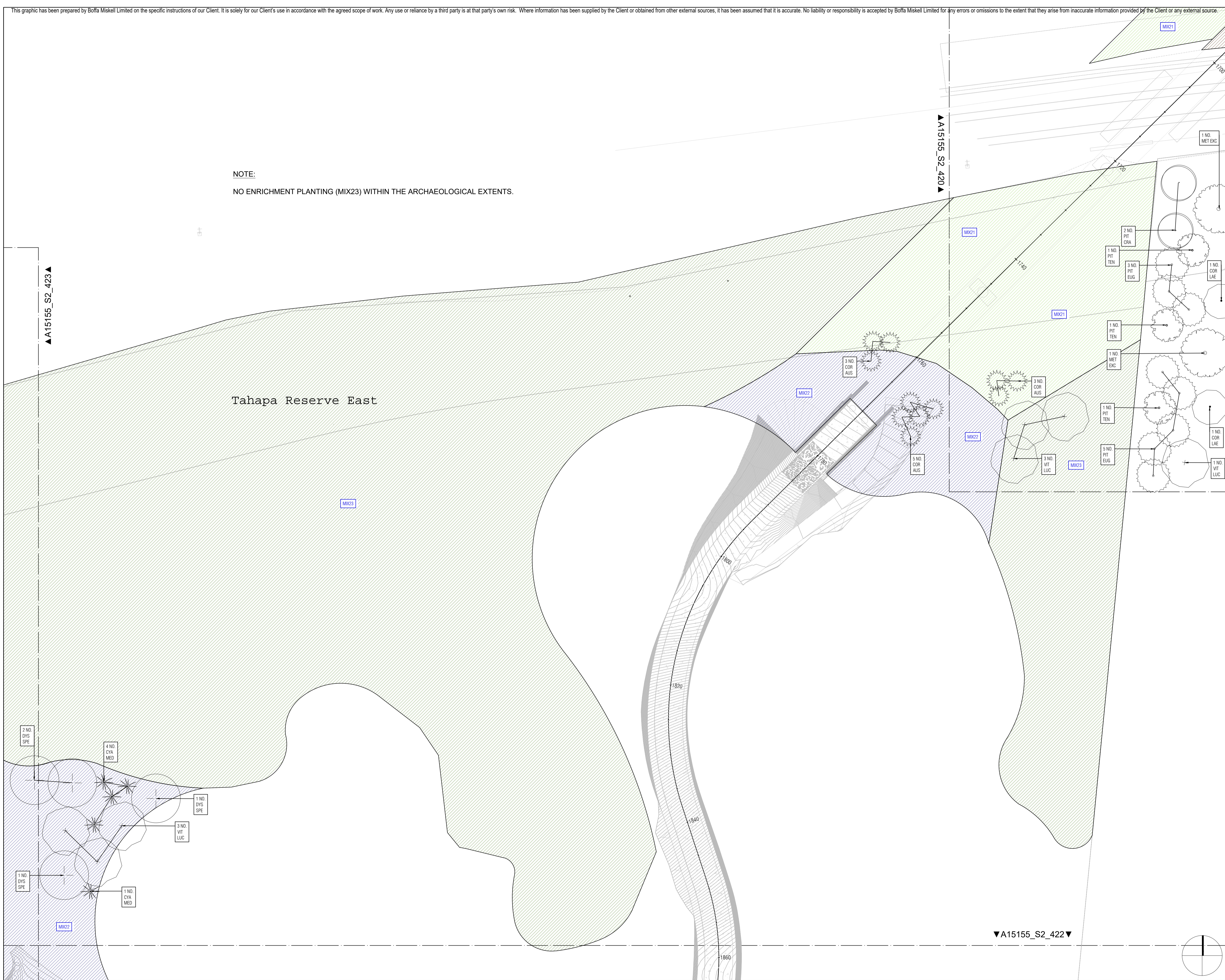
DRAWING NO.	REVISION
A15155_S2_420	-



NOTE:
REFER TO PLANTING SCHEDULE FOR FURTHER DIRECTION ON PLANTING WITHIN THE ARCHAEOLOGICAL EXTENTS.

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

NOTE:
NO ENRICHMENT PLANTING (MIX23) WITHIN THE ARCHAEOLOGICAL EXTENTS.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

- KEY**
- MIX 01- ENTRANCE
 - MIX 03- HARAKEKE
 - MIX 04- PATH EDGE
 - MIX 05- BOUNDARY
 - MIX 06- RETAINING WALL
 - MIX 07- GULLY
 - MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
 - MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
 - MIX 09- PATH EDGE LOOKOUT
 - MIX 10- WILLOW WETLAND RESTORATION
 - MIX 11- LOOKOUT
 - MIX 12- MEADOW
 - MIX 12a- MEADOW EDGE
 - MIX 13- WETLAND RESTORATION
 - MIX 14- RAIL EDGE SOUTH
 - MIX 15- RAIL EDGE NORTH
 - MIX 16- RAIL EDGE SETBACK
 - MIX 17- ENRICHMENT LOWLAND RIPARIAN
 - MIX 18- MANUKA SHRUBLAND
 - MIX 19- LOWLAND RIPARIAN FOREST
 - MIX 20- BISHOP SELWYN SITE
 - MIX 21- COASTAL SHRUB
 - MIX 22- PATH EDGE TAHAPA RESERVE
 - MIX 23- ENRICHMENT
 - MIX 24- COASTAL ESCARPMENT
 - MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
 - MIX 25- COASTAL POHUTUKAWA BANK
 - MIX 26- BOARDWALK HIGH
 - MIX 27- BOARDWALK LOW
 - GRASS
 - EXISTING TREE
 - RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



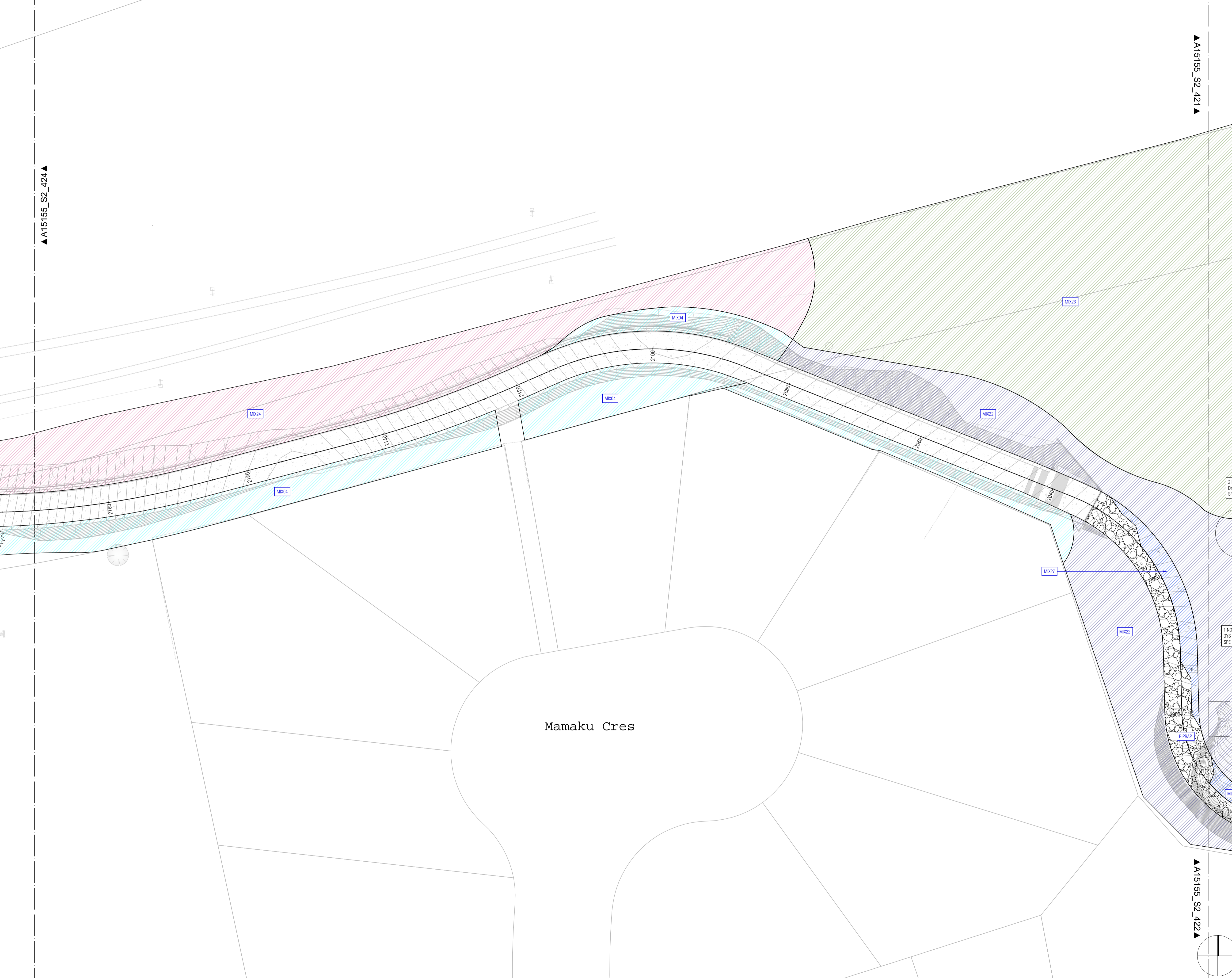
Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_421	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPUA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



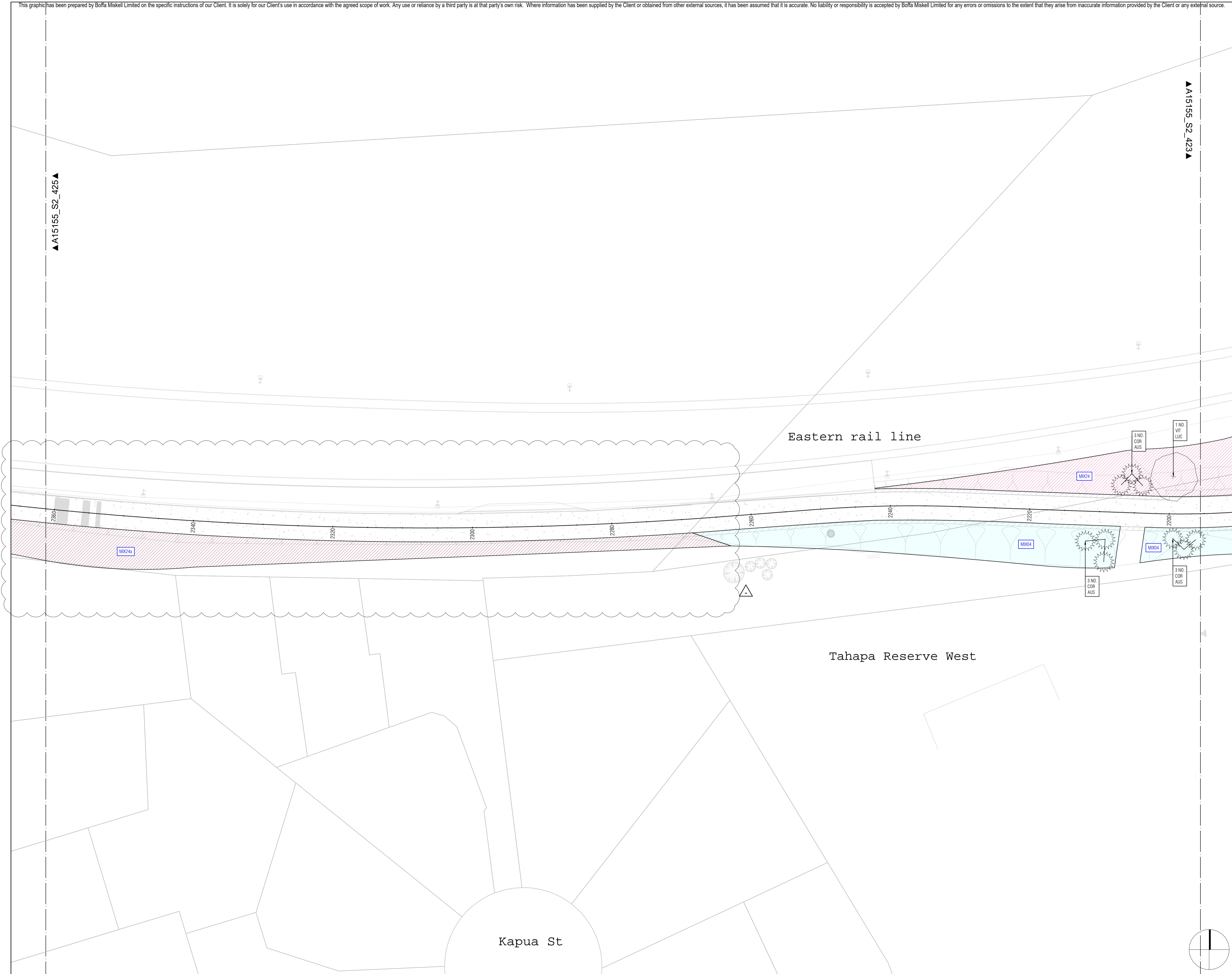
Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_423	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.



NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;
 CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;
 FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.
 PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.
 REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



Boffa Miskell Limited
 Level 3 IBM Centre
 82 Wyndham Street 1010
 PO Box 91250, Auckland 1142, New Zealand
 Tel: +64 9 358 2526
 www.boffamiskell.co.nz

TE ARA KI UTA KI TAI
Section 2

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_424	-

This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWIRAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT
- MIX 24a- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT

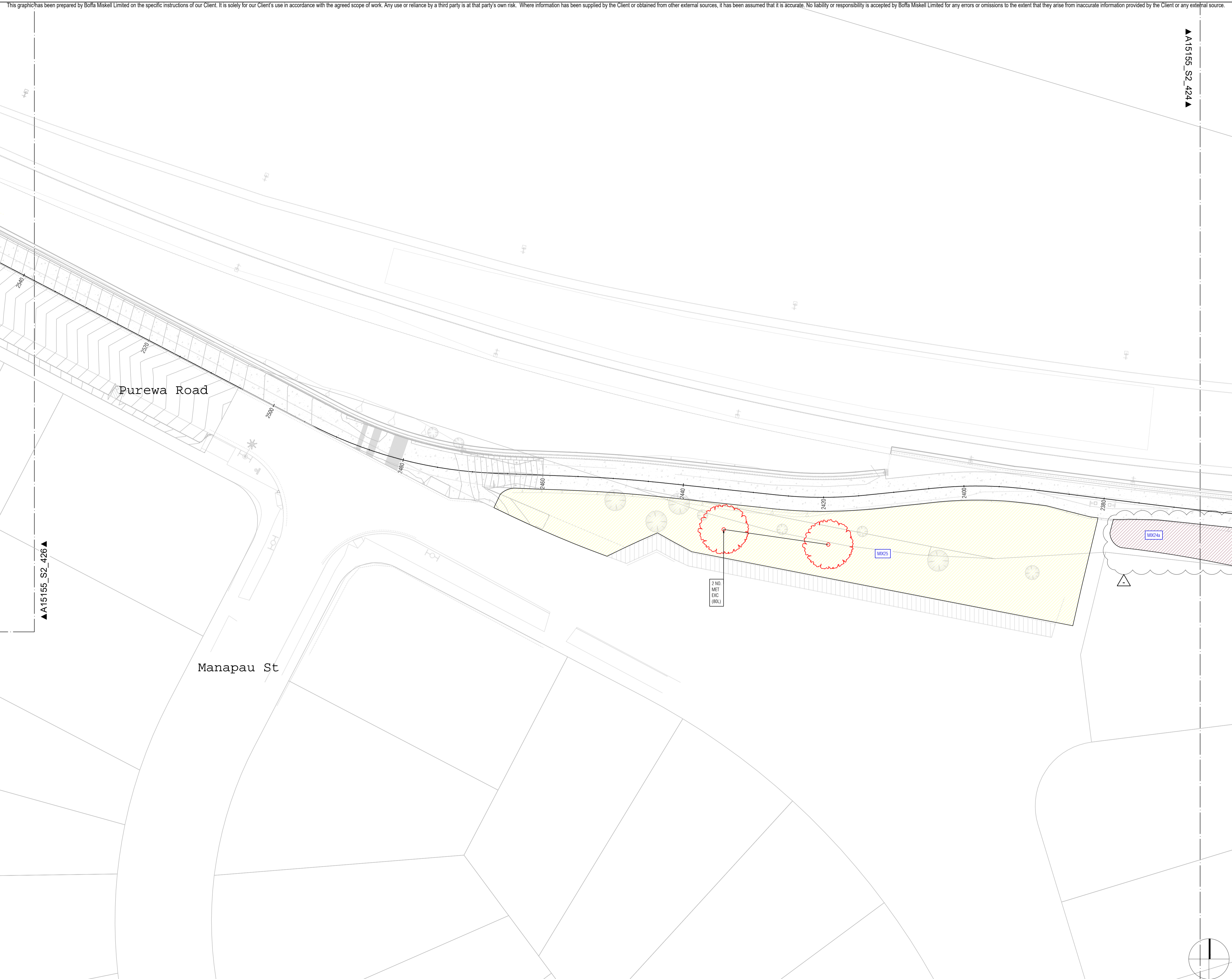
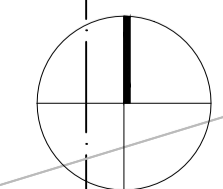


Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

**TE ARA KI UTA KI TAI
Section 2**

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_425	-



This graphic has been prepared by Boffa Miskell Limited on the specific instructions of our Client. It is solely for our Client's use in accordance with the agreed scope of work. Any use or reliance by a third party is at that party's own risk. Where information has been supplied by the Client or obtained from other external sources, it has been assumed that it is accurate. No liability or responsibility is accepted by Boffa Miskell Limited for any errors or omissions to the extent that they arise from inaccurate information provided by the Client or any external source.

NOTES

CONTRACTORS TO VERIFY ALL DIMENSIONS ON SITE PRIOR TO COMMENCING WORK;

CONTRACTORS ARE RESPONSIBLE FOR CONFIRMING THE LOCATION OF ALL UNDERGROUND SERVICES ON SITE PRIOR TO COMMENCING WORK;

FIGURED DIMENSIONS TO BE TAKEN IN PREFERENCE TO SCALED DIMENSIONS.

PLANTING PLANS HAVE BEEN REVIEWED AND FOUND TO ADHERE WITH KIWI RAIL STANDARDS, INCLUDING THE INTEGRATED VEGETATION MANAGEMENT PLAN, TREESCAPE 2018.

REFER TO CIVIL DRAWING 80504522-C4-0402_G410 FOR RIPRAP DETAILS.

KEY

- MIX 01- ENTRANCE
- MIX 03- HARAKEKE
- MIX 04- PATH EDGE
- MIX 05- BOUNDARY
- MIX 06- RETAINING WALL
- MIX 07- GULLY
- MIX 08- ENRICHMENT OF EXISTING BUSH - LOOKOUT AREA
- MIX 08a- ENRICHMENT OF EXISTING BUSH - ST JOHNS STREAM
- MIX 09- PATH EDGE LOOKOUT
- MIX 10- WILLOW WETLAND RESTORATION
- MIX 11- LOOKOUT
- MIX 12- MEADOW
- MIX 12a- MEADOW EDGE
- MIX 13- WETLAND RESTORATION
- MIX 14- RAIL EDGE SOUTH
- MIX 15- RAIL EDGE NORTH
- MIX 16- RAIL EDGE SETBACK
- MIX 17- ENRICHMENT LOWLAND RIPARIAN
- MIX 18- MANUKA SHRUBLAND
- MIX 19- LOWLAND RIPARIAN FOREST
- MIX 20- BISHOP SELWYN SITE
- MIX 21- COASTAL SHRUB
- MIX 22- PATH EDGE TAHAPA RESERVE
- MIX 23- ENRICHMENT
- MIX 24- COASTAL ESCARPMENT - MEADOWBANK CLIFF
- MIX 25- COASTAL POHUTUKAWA BANK
- MIX 26- BOARDWALK HIGH
- MIX 27- BOARDWALK LOW
- GRASS
- EXISTING TREE
- RIPRAP

REV	DATE	DESCRIPTION
-	21.04.20	FOR CONSTRUCTION

FOR CONSTRUCTION

Design	MLe	Scale	Date
Drawn	LCh	1:250 @ A1	21.04.2020
Check	MLe	1:500 @ A3	
Appv'd	MLe		

CONSULTANTS

CLIENT
AUCKLAND TRANSPORT



Boffa Miskell Limited
Level 3 IBM Centre
82 Wyndham Street 1010
PO Box 91250, Auckland 1142, New Zealand
Tel: +64 9 358 2526
www.boffamiskell.co.nz

**TE ARA KI UTA KI TAI
Section 2**

PLANTING PLAN

DRAWING NO.	REVISION
A15155_S2_426	-

