

Best Practice Examples from Sector 460

Below are examples of successful dune rounding conducted in sector 460 (western side of alignment between approx. chainage 9700-10,000).



- Seamless blending with landforms beyond designation
- Rounding and gradients are a continuation of adjoining landforms



- Dune rounding at edge of boundary fits with existing profile
- Rounding and gradients are at a similar character and scale to surrounding landforms
- Horizontal shaping and undulation with similar character to surrounding dune context
- During dune rounding, form a positive fall across the earthworks and ensure there are no ruts, sags or ground depressions to avoid water collecting and potentially destabilising the slope.



- Natural appearance. Avoid uniform, engineered profiles.

ORIGINAL DRAWING
IN COLOUR
FOR CONSTRUCTION

- **This guidance does not negate the requirement for the landscape architect to sign off these works prior to spreading topsoil.**
- The obligation to round earthwork cuts in the dune country, avoiding a geometric engineered finish, is a requirement of the consent conditions, the UDLF and the LMP (see below).
- Ideally, this shaping should have been incorporated into the earthworks design model, for implementation on site via the Trimble system. However, inclusion of flowing contours proved unworkable in the MX model so it was agreed that 'on site' instruction by the Design Team with the Construction Team was the best approach.
- Earthworks in sector 460 have been completed to a standard that meets the consent design requirements. Consequently, the dune shaping in 460 (depicted at right) is the design standard for 'dune rounding' for the entire M2PP project.

Consent Conditions

Condition DC.57 b) The purpose of each SSLMP shall be to help ensure detailed landscape design of the Project accords with the principles set out in the Urban and Landscape Design Framework (Technical Report 5) in order to achieve the outcomes and standards required under Condition DC.53C, having regard to the local character and context and ecological conditions within each sector or stage of the route. SSLMPs are required for all sectors/stages of the Expressway.

Condition DC.57 f) Each SSLMP shall include details of landscape design, including the following matters:
xi) Consideration of:
A. The landforms and character, including streams;

UDLF(Urban Design and Landscape Framework)

The dunes are the 'signature' landforms encountered along the Expressway corridor. In the first instance the route alignment seeks to avoid significant dunes if possible. However, loss or modification of some dunes will be inevitable in places given the confined corridor available and the scale of the Expressway footprint. Integrating the Expressway linear form into the dune landforms is a key design objective.

Design Concept
The dune forms and other natural landform features have been avoided as best they can in the alignment of the Expressway. However, the Expressway will create change to landforms and the approach will be to 'naturalise' the changes as far as practicable, to integrate those changes with local topographical patterns.

- Design Principles**
The following principles will apply to the landform design:
3. Design or modify landforms to acknowledge and reflect the local topographical pattern (scale, orientation, profile).
 5. Shape (roll off) the tops of cut/ fill faces so the faces integrate with the existing dune profiles as far as practicable and minimise risk of water and wind erosion.
 6. Shape visual and noise mitigation bunds to appear as 'natural' landform, avoiding engineered appearances unless these forms are a component of a designed 'land art' formation.

LMP(Landscape Management Plan)

Attachment 2: Principles, Methods and Procedures (pg.6)

Ensure finished earthworks physically and visually relate to adjoining landforms and that they reflect the Design Principles as set out in the Urban and Landscape Design Framework.

- Shape noise and visual mitigation bunds to appear as 'natural' landforms where practicable.
- Avoid unnecessary disturbance to natural landforms.
- Re-shaping of dunes to achieve a 'natural' appearance is likely to require extending earthworks into surrounding topography.

A3 REPRODUCTION SCALE
0mm
20
40
60
80
100

No.	Revision	By	Chk	Chk.V	Appd	Date
2	REVISED BASED ON GEOTECHNICAL INPUT	MP	MP	BF	DIS	07.08.14
1	FOR CONSTRUCTION	MP	GFB	DH	DC	07.05.14

Original Scale (A1)	Design	Drawn	Checked	Date	Approved For Construction
NTS	B FAULKNER	V BILLETT	P BRADSHAW	24.04.14	
Reduced Scale (A3)	Dwg Verifier	B EVANS		05.05.14	
NTS	Dwg Check	G F-B		05.05.14	Date 09.05.14

* Refer to Revision 1 for Original Signature

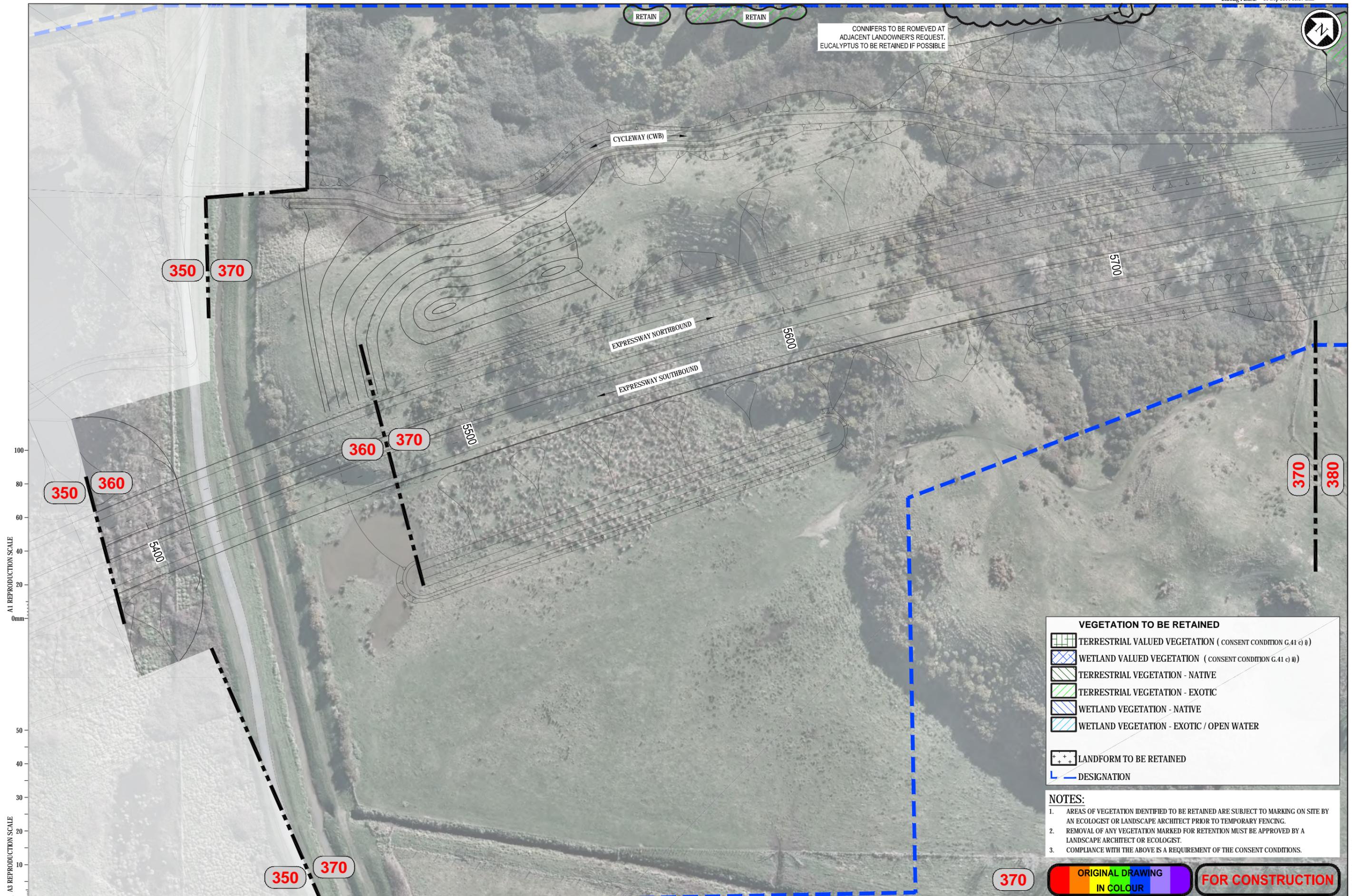
NZ TRANSPORT AGENCY
WAKA KOTAHI

MacKays to Peka Peka
Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

SHEET 27
DUNE ROUNDDING DETAIL

Drawing No: M2PP-23R-D-DWG-8904
Rev: 2



CONNIFERS TO BE REMOVED AT ADJACENT LANDOWNER'S REQUEST. EUCALYPTUS TO BE RETAINED IF POSSIBLE

RETAIN

CYCLEWAY (CWB)

EXPRESSWAY NORTHBOUND

EXPRESSWAY SOUTHBOUND

A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

VEGETATION TO BE RETAINED

- TERRESTRIAL VALUED VEGETATION (CONSENT CONDITION G.41 c) i)
- WETLAND VALUED VEGETATION (CONSENT CONDITION G.41 c) ii)
- TERRESTRIAL VEGETATION - NATIVE
- TERRESTRIAL VEGETATION - EXOTIC
- WETLAND VEGETATION - NATIVE
- WETLAND VEGETATION - EXOTIC / OPEN WATER
- LANDFORM TO BE RETAINED
- DESIGNATION

NOTES:

- AREAS OF VEGETATION IDENTIFIED TO BE RETAINED ARE SUBJECT TO MARKING ON SITE BY AN ECOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO TEMPORARY FENCING.
- REMOVAL OF ANY VEGETATION MARKED FOR RETENTION MUST BE APPROVED BY A LANDSCAPE ARCHITECT OR ECOLOGIST.
- COMPLIANCE WITH THE ABOVE IS A REQUIREMENT OF THE CONSENT CONDITIONS.

ORIGINAL DRAWING IN COLOUR **FOR CONSTRUCTION**

No.	Revision	By	Chk	Appd	Date	
3	FOR CONSTRUCTION	MP	MP	BF	DS	07.08.14
2	FOR KCDC CERTIFICATION - REVISED AS NOTED	MP	MP	BF	DS	08.07.14
1	FOR CONSTRUCTION - WEED CLEARANCE	MP	GFB	DH	DS	17.03.14

Original Scale (A1)	Design	Drawn	Checked	Approved For Construction*
1:500	S DUNN	M POWELL	B FAULKNER	P BRADSHAW
1:1000			G F B	

* Refer to Revision 1 for Original Signature

NZ TRANSPORT AGENCY WAKA KOTAHĪ

MacKays to Peka Peka
Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: WHAREMAUKU TO KAPITI RD VEGETATION TO BE RETAINED

Drawing No: M2PP-37R-D-DWG-8701
Rev: 3



SECTOR 370
SECTOR 380

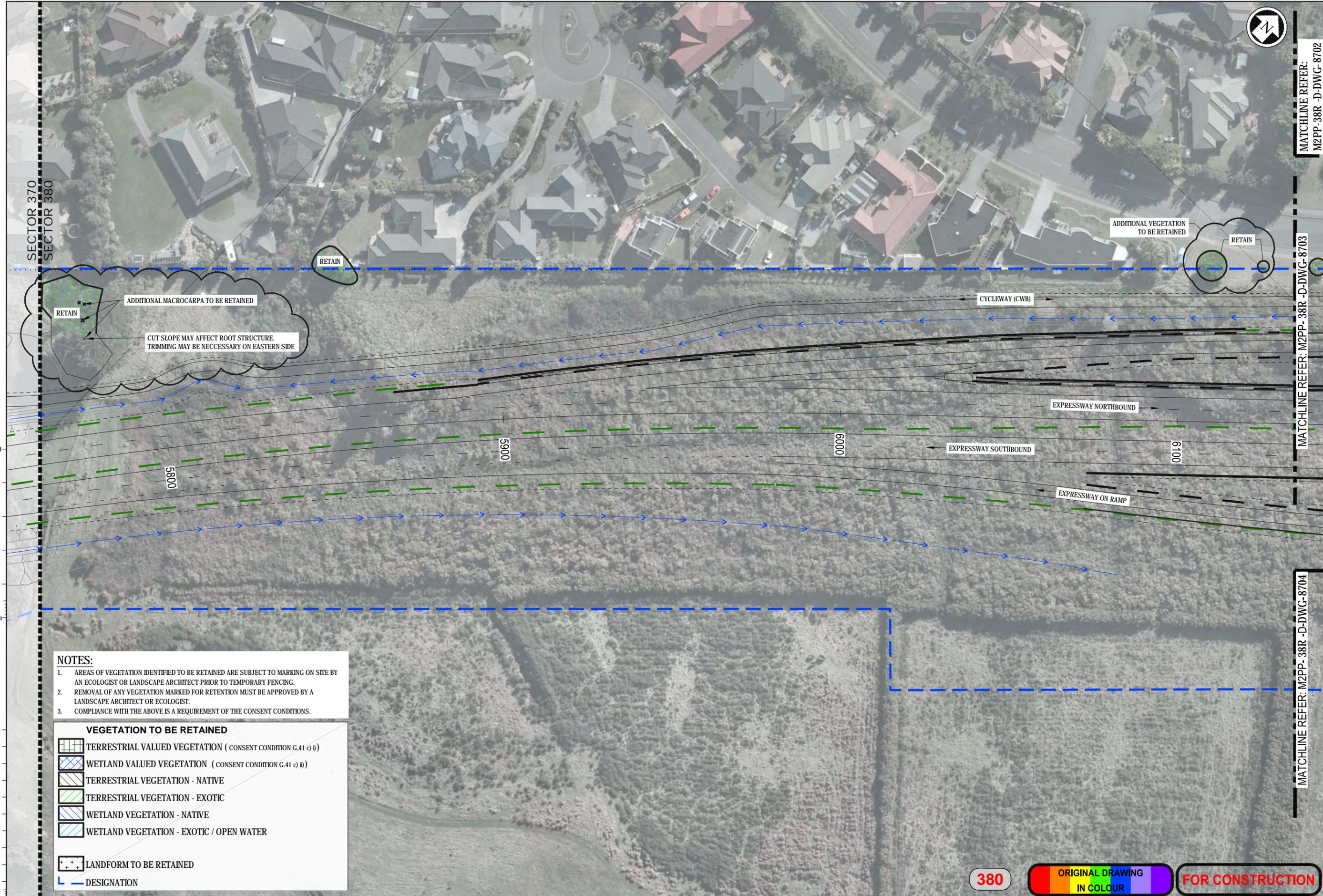
MATCHLINE REFER:
M2PP-38R-D-DWG-8702

MATCHLINE REFER: M2PP-38R-D-DWG-8703

MATCHLINE REFER: M2PP-38R-D-DWG-8704

A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE



- NOTES:**
1. AREAS OF VEGETATION IDENTIFIED TO BE RETAINED ARE SUBJECT TO MARKING ON SITE BY AN ECOLOGIST OR LANDSCAPE ARCHITECT PRIOR TO TEMPORARY FENCING.
 2. REMOVAL OF ANY VEGETATION MARKED FOR RETENTION MUST BE APPROVED BY A LANDSCAPE ARCHITECT OR ECOLOGIST.
 3. COMPLIANCE WITH THE ABOVE IS A REQUIREMENT OF THE CONSENT CONDITIONS.

VEGETATION TO BE RETAINED

	TERRESTRIAL VALUED VEGETATION (CONSENT CONDITION G.41 c) i)
	WETLAND VALUED VEGETATION (CONSENT CONDITION G.41 c) ii)
	TERRESTRIAL VEGETATION - NATIVE
	TERRESTRIAL VEGETATION - EXOTIC
	WETLAND VEGETATION - NATIVE
	WETLAND VEGETATION - EXOTIC / OPEN WATER
	LANDFORM TO BE RETAINED
	DESIGNATION

380

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION

No.	Revision	By	Chk	Chk V	Appd	Date
3	FOR CONSTRUCTION - REVISED AS NOTED	MP	MP	BF	DS	07.08.14
2	FOR KDCDC CERTIFICATION - ENABLING WORKS (NO CHANGE IFC)	MP	GFB	DH	DS	26.03.14
1	FOR CONSTRUCTION - WEED CLEARANCE	MP	GFB	DH	DS	17.03.14

Original Scale (A1)	Design	Date	Approved For Construction
1:500	F. BAGGALEY	18.02.14	M. POWELL
Reduced Scale (A3)	B. FAULKNER	17.03.14	P. BRADSHAW
1:1000	G. F-B	17.03.14	

* Refer to Revision 1 for Original Signature



Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE VEGETATION TO BE RETAINED SHEET 1

Drawing No: M2PP-38R-D-DWG-8701
Rev: 3



VEGETATION TO BE RETAINED

- TERRESTRIAL VALUED VEGETATION (CONSENT CONDITION G.41 c) i)
- WETLAND VALUED VEGETATION (CONSENT CONDITION G.41 c) ii)
- TERRESTRIAL VEGETATION - NATIVE
- TERRESTRIAL VEGETATION - EXOTIC
- WETLAND VEGETATION - NATIVE
- WETLAND VEGETATION - EXOTIC / OPEN WATER

LANDFORM TO BE RETAINED

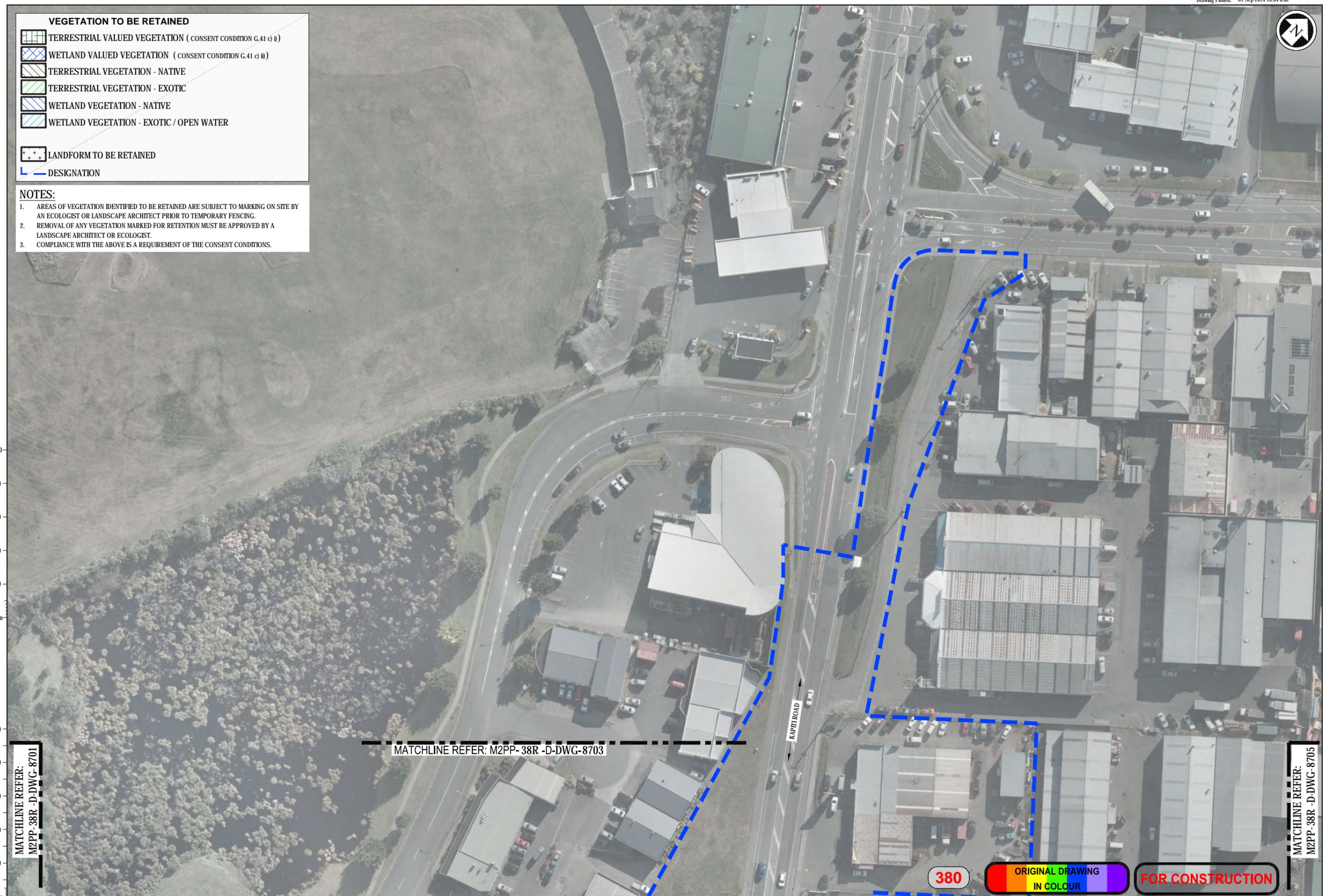
DESIGNATION

NOTES:

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A1 REPRODUCTION SCALE
0mm
20
40
60
80
100

A3 REPRODUCTION SCALE
0mm
10
20
30
40



MATCHLINE REFER: M2PP-38R-D-DWG-8703

MATCHLINE REFER:
M2PP-38R-D-DWG-8701

MATCHLINE REFER:
M2PP-38R-D-DWG-8705

380

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION

No.	Revision	By	CHK	CHK.V	Appd	Date
3	FOR CONSTRUCTION	MP				05.09.14
2	FOR KCDC CERTIFICATION - ENABLING WORKS (NO CHANGE IFC)	MP	GFB	DH	DS	26.03.14
1	FOR CONSTRUCTION - WEED CLEARANCE	MP	GFB	DH	DS	17.03.14

Original Scale (A1)	Design	Drawn	Dsg. Verifier	Dsg. Check	Approved For Construction
1:500	F. BAGGLEY 18.02.14	M. POWELL 18.02.14	B. FAULKNER 17.03.14	G. F-B 17.03.14	P. BRADSHAW
Reduced Scale (A3)	* Refer to Revision 1 for Original Signature				
1:1000					



MacKays to Peka Peka
Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE
VEGETATION TO BE RETAINED
SHEET 2

Drawing No: M2PP-38R-D-DWG-8702

Rev. 3



MATCHLINE REFER: M2PP-38R-D-DWG-8705

VEGETATION TO BE RETAINED

	TERRESTRIAL VALUED VEGETATION (CONSENT CONDITION G.41 c) i)
	WETLAND VALUED VEGETATION (CONSENT CONDITION G.41 c) ii)
	TERRESTRIAL VEGETATION - NATIVE
	TERRESTRIAL VEGETATION - EXOTIC
	WETLAND VEGETATION - NATIVE
	WETLAND VEGETATION - EXOTIC / OPEN WATER
	LANDFORM TO BE RETAINED
	DESIGNATION

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MATCHLINE REFER: M2PP-38R-D-DWG-8702



A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

MATCHLINE REFER: M2PP-38R-D-DWG-8701

MATCHLINE REFER: M2PP-38R-D-DWG-8704

No.	Revision	By	CHK	CHK.V	Appd	Date
3	FOR CONSTRUCTION - REVISED AS NOTED	MP	MP	BF	DS	07.08.14
2	FOR KCDC CERTIFICATION - ENABLING WORKS (NO CHANGE IFC)	MP	GFB	DH	DS	26.03.14
1	FOR CONSTRUCTION - WEED CLEARANCE	MP	GFB	DH	DS	17.03.14

Original Scale (A1)	Design	Drawn	Dsg. Verifier	Dsg. Check	Approved For Construction
1:500	F. BAGGLEY 18.02.14	M. POWELL 18.02.14	B. FAULKNER 17.03.14	G. F-B 17.03.14	P. BRADSHAW
Reduced Scale (A3)					Date 19.03.14



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Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAITI ROAD INTERCHANGE VEGETATION TO BE RETAINED SHEET 3

Drawing No: M2PP-38R-D-DWG-8703
Rev: 3



MATCHLINE REFER: M2PP-38R-D-DWG-8701

MATCHLINE REFER: M2PP-38R-D-DWG-8705



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

NOTES:

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- REMOVAL OF ANY VEGETATION MARKED FOR RETENTION MUST BE APPROVED BY A LANDSCAPE ARCHITECT OR ECOLOGIST.
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VEGETATION TO BE RETAINED

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	WETLAND VALUED VEGETATION (CONSENT CONDITION G.41 c) ii)
	TERRESTRIAL VEGETATION - NATIVE
	TERRESTRIAL VEGETATION - EXOTIC
	WETLAND VEGETATION - NATIVE
	WETLAND VEGETATION - EXOTIC / OPEN WATER
	LANDFORM TO BE RETAINED
	DESIGNATION

No.	Revision	By	CHK	CHK.V	Appd	Date
3	FOR CONSTRUCTION - REVISED AS NOTED	MP	MP	BF	DS	07.08.14
2	FOR KCDC CERTIFICATION - ENABLING WORKS (NO CHANGE IFC)	MP	GFB	DH	DS	26.03.14
1	FOR CONSTRUCTION - WEED CLEARANCE	MP	GFB	DH	DS	17.03.14

Original Scale (A1)	Design	F. BAGGLEY	18.02.14	Approved For Construction*
1:500	Drawn	M. POWELL	18.02.14	P. BRADSHAW
Reduced Scale (A3)	Dwg. Verifier	B. FAULKNER	17.03.14	
1:1000	Dwg. Check	G. F-B	17.03.14	Date 19.03.14

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Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE
VEGETATION TO BE RETAINED
SHEET 4

Drawing No: M2PP-38R-D-DWG-8704
Rev. 3

380

ORIGINAL DRAWING
IN COLOUR

FOR CONSTRUCTION



SECTOR 380
SECTOR 410

VEGETATION TO BE RETAINED

- TERRESTRIAL VALUED VEGETATION (CONSENT CONDITION G.41 c) i)
- WETLAND VALUED VEGETATION (CONSENT CONDITION G.41 c) ii)
- TERRESTRIAL VEGETATION - NATIVE
- TERRESTRIAL VEGETATION - EXOTIC
- WETLAND VEGETATION - NATIVE
- WETLAND VEGETATION - EXOTIC / OPEN WATER
- LANDFORM TO BE RETAINED
- DESIGNATION

NOTES:

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A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

No.	Revision	By	Chk	Chk V	Appd	Date
3	FOR CONSTRUCTION	MP				05.09.14
2	FOR KDCDC CERTIFICATION - ENABLING WORKS (NO CHANGE IFC)	MP	GFB	DH	DS	26.03.14
1	FOR CONSTRUCTION - WEED CLEARANCE	MP	GFB	DH	DS	17.03.14

Original Scale (A1)	Design	Date	Approved For Construction
1:500	F. BAGGALEY	18.02.14	P. BRADSHAW
Reduced Scale (A3)	M. POWELL	18.02.14	
1:1000	B. FAULKNER	17.03.14	
	G. F-B	17.03.14	

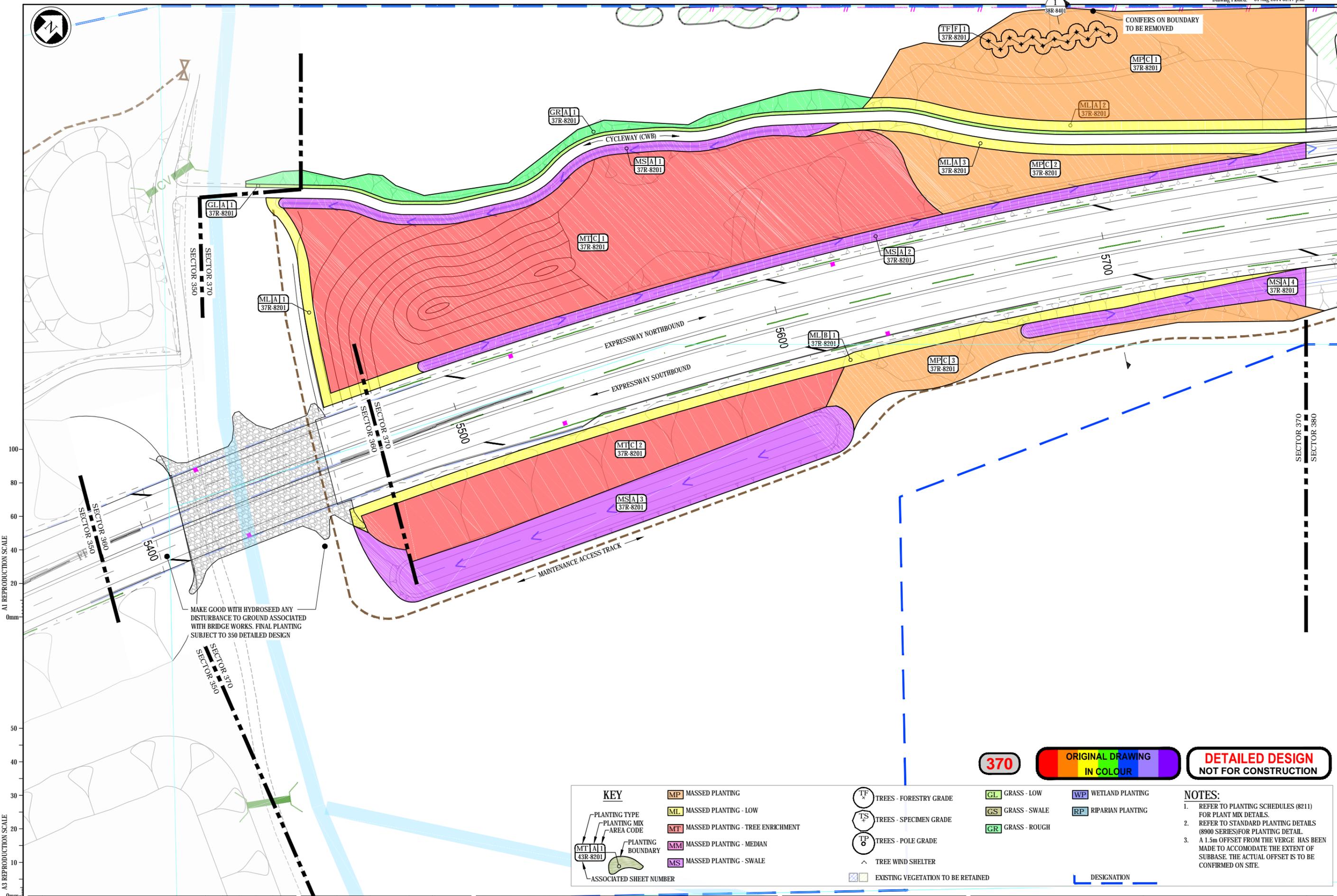


Project SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE VEGETATION TO BE RETAINED SHEET 5

Drawing No: M2PP-38R-D-DWG-8705
Rev: 3





A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

No.	Revision	By	Chk	Chk.V	Appd	Date
C	FOR DETAILED DESIGN	MP				08.14
B	85% REVIEW	MP	DGS			11.07.14
A	55% REVIEW	MP	FB			22.05.14

Original Scale (A1)	Design	F BAGGLEY	07.05.14	Approved For Construction*
1:500	Drawn	M. POWELL	07.05.14	
Reduced Scale (A3)	Dwg Verifier		08.14	
1:1000	Dwg Check		08.14	Date

* Refer to Revision 1 for Original Signature

NZ TRANSPORT AGENCY
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MacKays to Peka Peka
Wellington Northern Corridor

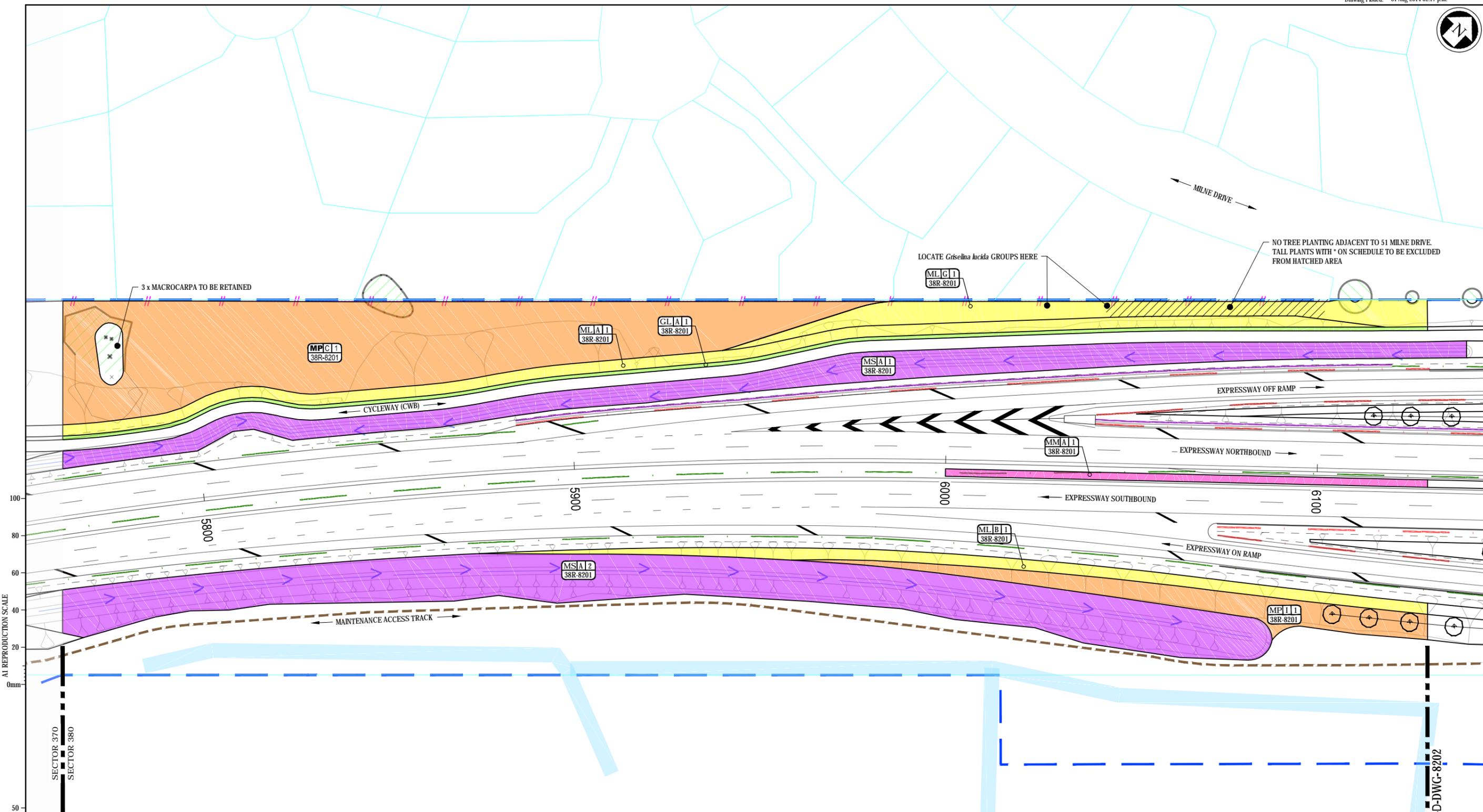
Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

WHAREMAUKU STREAM CROSSING TO KAPITI ROAD INTERCHANGE
PLANTING PLAN

Drawing No: M2PP-37R-D-DWG-8201
Rev: C

<p>KEY</p> <p>PLANTING TYPE PLANTING MIX AREA CODE PLANTING BOUNDARY ASSOCIATED SHEET NUMBER</p> <p>MT A1 43R-8201</p>	<p>MP MASSED PLANTING</p> <p>ML MASSED PLANTING - LOW</p> <p>MT MASSED PLANTING - TREE ENRICHMENT</p> <p>MM MASSED PLANTING - MEDIAN</p> <p>MS MASSED PLANTING - SWALE</p>	<p>TF TRESSES - FORESTRY GRADE</p> <p>TS TRESSES - SPECIMEN GRADE</p> <p>TP TRESSES - POLE GRADE</p> <p>^ TREE WIND SHELTER</p> <p>EXISTING VEGETATION TO BE RETAINED</p>	<p>GL GRASS - LOW</p> <p>GS GRASS - SWALE</p> <p>GR GRASS - ROUGH</p> <p>WP WETLAND PLANTING</p> <p>RP RIPARIAN PLANTING</p>	<p>NOTES:</p> <p>1. REFER TO PLANTING SCHEDULES (8211) FOR PLANT MIX DETAILS.</p> <p>2. REFER TO STANDARD PLANTING DETAILS (8900 SERIES) FOR PLANTING DETAIL.</p> <p>3. A 1.5m OFFSET FROM THE VERGE HAS BEEN MADE TO ACCOMMODATE THE EXTENT OF SUBBASE. THE ACTUAL OFFSET IS TO BE CONFIRMED ON SITE.</p>
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370 ORIGINAL DRAWING IN COLOUR DETAILED DESIGN NOT FOR CONSTRUCTION



A3 REPRODUCTION SCALE
0mm

MATCHLINE REFER: M2PP-38R-D-DWG-8202

380 ORIGINAL DRAWING IN COLOUR DETAILED DESIGN NOT FOR CONSTRUCTION

KEY		PLANTING TYPE		PLANTING MIX AREA CODE		PLANTING BOUNDARY		ASSOCIATED SHEET NUMBER	
	MASSED PLANTING		TREES - FORESTRY GRADE		GRASS - LOW		WETLAND PLANTING		MASSED PLANTING - TREE ENRICHMENT
	MASSED PLANTING - LOW		TREES - SPECIMEN GRADE		GRASS - SWALE		RIPARIAN PLANTING		MASSED PLANTING - MEDIAN
	MASSED PLANTING - TREE ENRICHMENT		TREES - POLE GRADE		GRASS - ROUGH		DESIGNATION		MASSED PLANTING - SWALE
	MASSED PLANTING - TREE ENRICHMENT		TREE WIND SHELTER		EXISTING VEGETATION TO BE RETAINED				

NOTES:
 1. REFER TO PLANTING SCHEDULES (8211) FOR PLANT MIX DETAILS.
 2. REFER TO STANDARD PLANTING DETAILS (8900 SERIES) FOR PLANTING DETAIL.
 3. A 1.5m OFFSET FROM THE VERGE HAS BEEN MADE TO ACCOMMODATE THE EXTENT OF SUBBASE. THE ACTUAL OFFSET IS TO BE CONFIRMED ON SITE.

No.	Revision	By	Chk	Chk.V	Appd	Date
C	FOR DETAILED DESIGN	MP				.08.14
B	85% REVIEW	MP		DGS		11.07.14
A	55% REVIEW	MP		FB		22.05.14

Original Scale (A1)	Design	Drawn	Date	Approved For Construction*
1:500	F BAGGLEY	M. POWELL	07.05.14	
Reduced Scale (A3)	Dwg Verifier		.08.14	
1:1000	Dwg Check		.08.14	

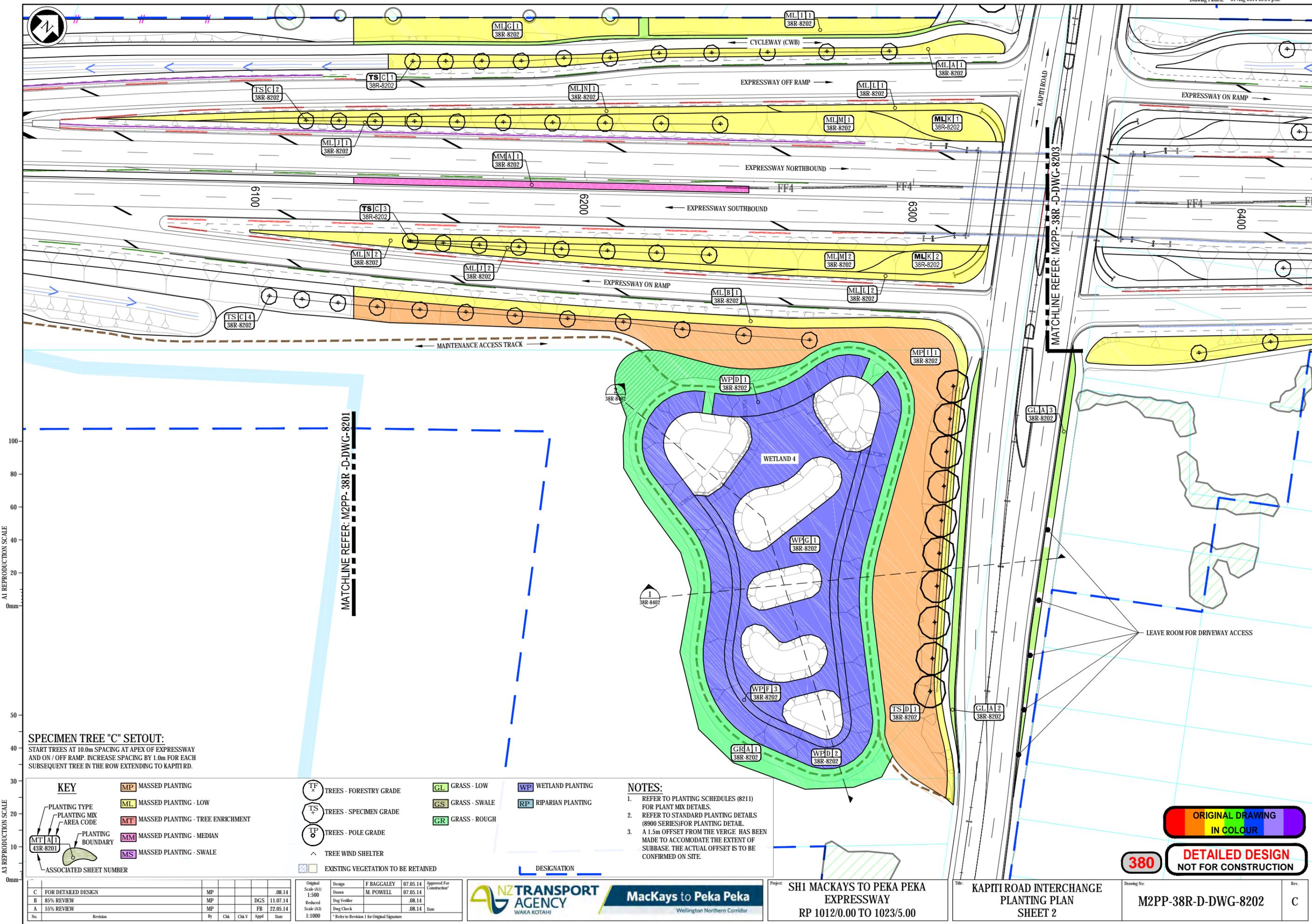
* Refer to Revision 1 for Original Signature

NZ TRANSPORT AGENCY WAKA KOTAHU
MacKays to Peka Peka
 Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
 RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE PLANTING PLAN SHEET 1

Drawing No: M2PP-38R-D-DWG-8201
 Rev: C



A1 REPRODUCTION SCALE
0mm 20 40 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

SPECIMEN TREE "C" SETOUT:
START TREES AT 10.0m SPACING AT APEX OF EXPRESSWAY AND ON / OFF RAMP. INCREASE SPACING BY 1.0m FOR EACH SUBSEQUENT TREE IN THE ROW EXTENDING TO KAPITI RD.

KEY		DESIGNATION	
MP MASSED PLANTING	TF TREES - FORESTRY GRADE	GL GRASS - LOW	WP WETLAND PLANTING
ML MASSED PLANTING - LOW	TS TREES - SPECIMEN GRADE	GS GRASS - SWALE	RP RIPARIAN PLANTING
MT MASSED PLANTING - TREE ENRICHMENT	TP TREES - POLE GRADE	GR GRASS - ROUGH	
MM MASSED PLANTING - MEDIAN	TP TREE WIND SHELTER		
MS MASSED PLANTING - SWALE	TV EXISTING VEGETATION TO BE RETAINED		

NOTES:
1. REFER TO PLANTING SCHEDULES (8211) FOR PLANT MIX DETAILS.
2. REFER TO STANDARD PLANTING DETAILS (8900 SERIES) FOR PLANTING DETAIL.
3. A 1.5m OFFSET FROM THE VERGE HAS BEEN MADE TO ACCOMMODATE THE EXTENT OF SUBBASE. THE ACTUAL OFFSET IS TO BE CONFIRMED ON SITE.

No.	Revision	By	Chk	Chk.V	Appd	Date
C	FOR DETAILED DESIGN	MP				.08.14
B	85% REVIEW	MP	DGS			11.07.14
A	55% REVIEW	MP	FB			22.05.14

Original Scale (A1)	Design	Date	Approved For Construction*
1:500	F BAGGLEY	07.05.14	
Reduced Scale (A3)	M. POWELL	07.05.14	
1:1000		.08.14	

NZ TRANSPORT AGENCY
WAKA KOTAHAI

MacKays to Peka Peka
Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE PLANTING PLAN SHEET 2

Drawing No: M2PP-38R-D-DWG-8202
Rev: C

380

ORIGINAL DRAWING IN COLOUR

DETAILED DESIGN NOT FOR CONSTRUCTION



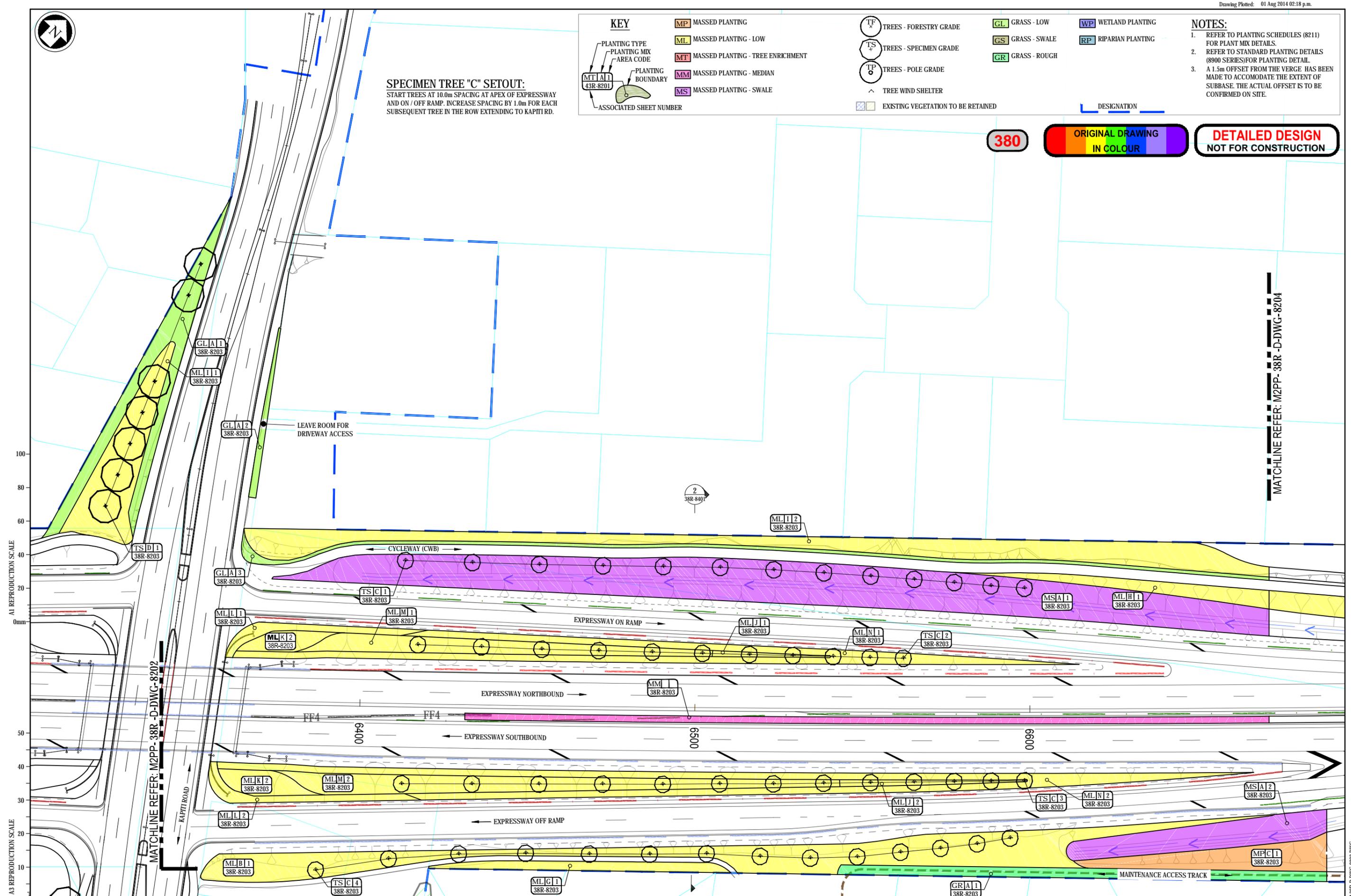
SPECIMEN TREE "C" SETOUT:
 START TREES AT 10.0m SPACING AT APEX OF EXPRESSWAY AND ON / OFF RAMP. INCREASE SPACING BY 1.0m FOR EACH SUBSEQUENT TREE IN THE ROW EXTENDING TO KAPITI RD.

KEY		TREES - FORESTRY GRADE		GRASS - LOW		WETLAND PLANTING	
MP	MASSED PLANTING	TF	TREES - FORESTRY GRADE	GL	GRASS - LOW	WP	WETLAND PLANTING
ML	MASSED PLANTING - LOW	TS	TREES - SPECIMEN GRADE	GS	GRASS - SWALE	RP	RIPARIAN PLANTING
MT	MASSED PLANTING - TREE ENRICHMENT	TP	TREES - POLE GRADE	GR	GRASS - ROUGH		
MM	MASSED PLANTING - MEDIAN	^	TREE WIND SHELTER				
MS	MASSED PLANTING - SWALE	⊠	EXISTING VEGETATION TO BE RETAINED				

PLANTING TYPE
 PLANTING MIX
 AREA CODE
 PLANTING BOUNDARY
 ASSOCIATED SHEET NUMBER

DESIGNATION
380
 ORIGINAL DRAWING
 IN COLOUR
DETAILED DESIGN
 NOT FOR CONSTRUCTION

- NOTES:**
- REFER TO PLANTING SCHEDULES (8211) FOR PLANT MIX DETAILS.
 - REFER TO STANDARD PLANTING DETAILS (8900 SERIES) FOR PLANTING DETAIL.
 - A 1.5m OFFSET FROM THE VERGE HAS BEEN MADE TO ACCOMMODATE THE EXTENT OF SUBBASE. THE ACTUAL OFFSET IS TO BE CONFIRMED ON SITE.



A1 REPRODUCTION SCALE
 0mm 100 80 60 40 20

A3 REPRODUCTION SCALE
 0mm 10 20 30 40 50

No.	Revision	By	Chk	Chk.V	Appd	Date
C	FOR DETAILED DESIGN	MP				.08.14
B	85% REVIEW	MP	DGS			11.07.14
A	55% REVIEW	MP	FB			22.05.14

Original Scale (A1)	Design	Drawn	Date	Approved For Construction
1:500	F BAGGLEY	M. POWELL	07.05.14	
Reduced Scale (A3)	1:1000			

Design	Drawn	Date	Checked	Date
F BAGGLEY	M. POWELL	07.05.14		

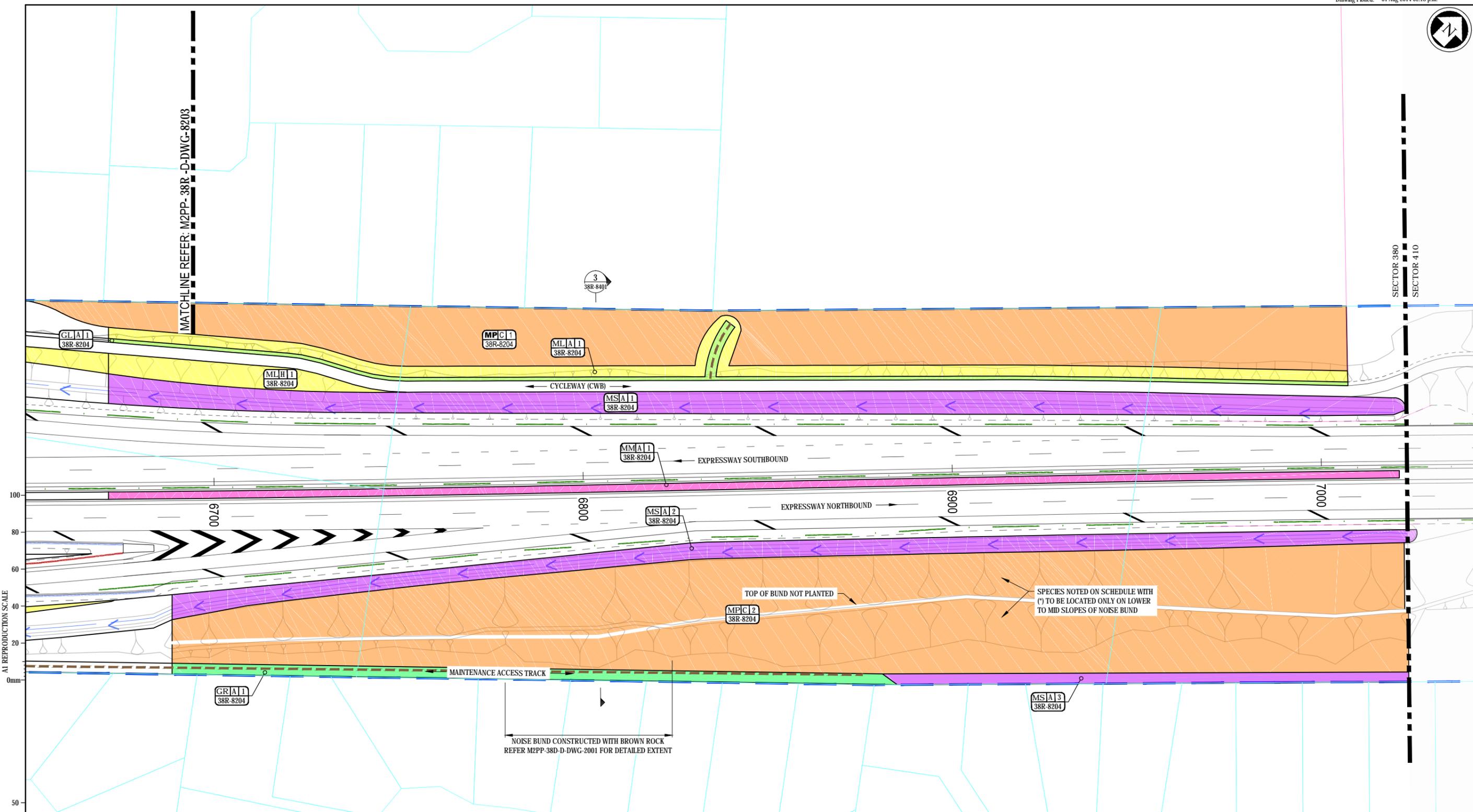


MacKays to Peka Peka
 Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
 RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE PLANTING PLAN SHEET 3

Drawing No: M2PP-38R-D-DWG-8203
 Rev: C



A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE

380

**ORIGINAL DRAWING
IN COLOUR**

**DETAILED DESIGN
NOT FOR CONSTRUCTION**

<p>KEY</p> <p>PLANTING TYPE PLANTING MIX AREA CODE</p> <p>PLANTING BOUNDARY</p> <p>ASSOCIATED SHEET NUMBER</p>	<p>MP MASSED PLANTING</p> <p>ML MASSED PLANTING - LOW</p> <p>MT MASSED PLANTING - TREE ENRICHMENT</p> <p>MM MASSED PLANTING - MEDIAN</p> <p>MS MASSED PLANTING - SWALE</p>	<p>TF TREES - FORESTRY GRADE</p> <p>TS TREES - SPECIMEN GRADE</p> <p>TP TREES - POLE GRADE</p> <p>^ TREE WIND SHELTER</p> <p>EXISTING VEGETATION TO BE RETAINED</p>	<p>GL GRASS - LOW</p> <p>GS GRASS - SWALE</p> <p>GR GRASS - ROUGH</p> <p>WP WETLAND PLANTING</p> <p>RP RIPARIAN PLANTING</p>	<p>NOTES:</p> <ol style="list-style-type: none"> REFER TO PLANTING SCHEDULES (8211) FOR PLANT MIX DETAILS. REFER TO STANDARD PLANTING DETAILS (8900 SERIES) FOR PLANTING DETAIL. A 1.5m OFFSET FROM THE VERGE HAS BEEN MADE TO ACCOMMODATE THE EXTENT OF SUBBASE. THE ACTUAL OFFSET IS TO BE CONFIRMED ON SITE.
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No.	Revision	By	Chk	Chk.V	Appd	Date
C	FOR DETAILED DESIGN	MP				.08.14
B	85% REVIEW	MP		DGS		11.07.14
A	55% REVIEW	MP		FB		22.05.14

Original Scale (A1)	Design	Drawn	Date	Approved For Construction*
1:500	F BAGGALEY	M. POWELL	07.05.14	
Reduced Scale (A3)				
1:1000				

* Refer to Revision 1 for Original Signature

MacKays to Peka Peka

Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE PLANTING PLAN SHEET 4

Drawing No: M2PP-38R-D-DWG-8204
Rev: C

AREA	28452 m ²
AREA ADJUSTED FOR SLOPE	29875 m ²

MT MIX - 1.0M CRS MASSED PLANTING, ENRICHMENT 10.0M CRS, PLANT CENTRES (METRES)
 MULCH TYPE OM = ORGANIC MULCH, GM = GRADED GRAVEL MULCH, BC = BIOCOIR
 N = NO MULCH (IN RIPRAP AN / WETLAND ZONES), WM = WOOD MAT GRAVEL (RIPRAP EROSION)

PLANT TYPE	MIX	BOTANICAL NAME	COMMON NAME	GRADE	% MIX	NOTES	PLANT REFERENCE	TOTAL
MASSED LOW EDGE PLANTING - ADJACENT TO CYCLEWAY								
ML	A	Acaena novae-zealandiae	Red bidibidi	1.0 litre	10%	front edge		403
ML	A	Austroderia fulvida	syn Cortaderia, toetoe	1.0 litre	5%	back		196
ML	A	Carex dipsacea	Treasel sedge	1.0 litre	10%	front edge		392
ML	A	Carex solandri	Forest sedge, Solander's sedge	1.0 litre	10%	front edge		392
ML	A	Carex virgata	Swamp sedge	1.0 litre	5%	mid back		196
ML	A	Coprosma areolata	Thin leaved Coprosma	1.0 litre	3%	back		118
ML	A	Coprosma propinqua	Mingimingi	1.0 litre	5%	mid back		196
ML	A	Coprosma repens	Taupata	1.0 litre	10%	mid back		392
ML	A	Ficinia neocosa	Wiwi, Knobby club rush	1.0 litre	10%	front edge		392
ML	A	Hebe stricta	Koromiko	1.0 litre	10%	back		392
ML	A	Melicope simplex		1.0 litre	2%	mid		78
ML	A	Muehlenbeckia complexa	Pohuehue, wire vine	1.0 litre	20%	front edge		785
MASSED LOW EDGE PLANTING - ADJACENT TO EXPRESSWAY								
ML	B	Acaena novae-zealandiae	Red bidibidi	1.0 litre	10%	front edge		432
ML	B	Austroderia fulvida	syn Cortaderia, toetoe	1.0 litre	5%	back		216
ML	B	Carex dipsacea	Treasel sedge	1.0 litre	10%	front edge		432
ML	B	Carex solandri	Forest sedge, Solander's sedge	1.0 litre	10%	front edge		432
ML	B	Carex virgata	Swamp sedge	1.0 litre	5%	mid back		216
ML	B	Coprosma acerosa	Sand Coprosma	1.0 litre	10%	front mid		432
ML	B	Coprosma areolata	Thin leaved Coprosma	1.0 litre	2%	back		86
ML	B	Coprosma propinqua	Mingimingi	1.0 litre	5%	mid back		216
ML	B	Coprosma repens	Taupata	1.0 litre	5%	mid back		216
ML	B	Ficinia neocosa	Wiwi, Knobby club rush	1.0 litre	10%	front edge		432
ML	B	Melicope simplex			3%	mid		130
ML	B	Hebe stricta	Koromiko	1.0 litre	5%	back		216
MASSED LOW EDGE PLANTING WITH SMALL SCREEN TREE - MTFD WIDTH FOR VEGETATION BUFFER OR SCREEN PLANTING ON BOUNDARY								
ML	G	Coprosma lucida	Shining karamu	1.0 litre	5%			89
ML	G	Coprosma propinqua	Mingimingi	1.0 litre	10%			177
ML	G	Cordyline australis	Ti kouka	1.0 litre	5%	groups 3-5 *		89
ML	G	Corokia cotoneaster	Korokia taranga	1.0 litre	10%			177
ML	G	Griselinia lucida	Puka, Broadleaf	1.0 litre	5%			89
ML	G	Hebe stricta	Koromiko	1.0 litre	10%			177
ML	G	Macropiper excelsum	Kawakawa	1.0 litre	5%			89
ML	G	Myrsine australis	Mapou, Matipo	1.0 litre	15%			266
ML	G	Phormium tenax	Harakeke, Flax	1.0 litre	5%	back		89
ML	G	Pittosporum tenuifolium	Kohuhu	1.0 litre	10%			177
ML	G	Pseucopanax crassifolius	Horoeka, Lancewood	1.0 litre	15%	groups 3-5 *		266
ML	G	Sophora microphylla	Kowhai	1.0 litre	5%			89
MASSED LOW EDGE PLANTING WITH SMALL SCREEN TREE - NARROW WIDTH FOR DENSE VEGETATION SCREEN PLANTING ON BOUNDARY								
ML	H	Apocasmia similis	Oioi	0.5 litre	10%	mid back		70
ML	H	Carex dipsacea	Treasel sedge	0.5 litre	15%	cwb edge		105
ML	H	Carex solandri	Forest sedge, Solander's sedge	0.5 litre	10%	cwb edge		70
ML	H	Coprosma propinqua	Mingimingi	1.0 litre	10%	back		70
ML	H	Cordyline australis	Ti kouka	1.0 litre	10%	back		70
ML	H	Cyperus ustulatus	Toetoe upokotangata, Giant umbrella sedge	0.5 litre	10%	mid back		70
ML	H	Ficinia neocosa	Wiwi, Knobby club rush	0.5 litre	20%	cwb edge		140
ML	H	Pseucopanax crassifolius	Horoeka, Lancewood	1.0 litre	15%	mid back		105
MASSED LOW PLANTING - UNDER SPECIMEN TREES AT KAPITI INTERCHANGE								
ML	J	Astelia banksii		1.0 litre	100%			317
ML	K	Callistemon 'Little John'		Pb5	100%			710
ML	L	Coprosma 'Hawera'	coprosma cv	1.0 litre	100%			1243
ML	M	Coprosma repens 'Poor Knights'	coprosma cv	1.0 litre	100%			2642
ML	N	Lomandra longifolia 'Tanika'		1.0 litre	100%			5378

PLANTING SCHEDULE

PLANT TYPE	MIX	BOTANICAL NAME	COMMON NAME	GRADE	% MIX	NOTES	PLANT REFERENCE	TOTAL
MASSED PLANTING								
MP	C	Aristotelia serrata	Makomako	1.0 litre	5%			223
MP	C	Carex lesssoniana	Cutty grass	1.0 litre	5%	front		446
MP	C	Carpodetus serratus	Putaputaweta	1.0 litre	5%			1275
MP	C	Coprosma propinqua	Mingimingi	1.0 litre	7%			1785
MP	C	Coprosma robusta	Karamu	1.0 litre	10%			2550
MP	C	Cordyline australis	Ti kouka	1.0 litre	5%			1275
MP	C	Griselinia lucida	Puka, Broadleaf	1.0 litre	2%			510
MP	C	Hebe stricta	Koromiko	1.0 litre	8%	front		2040
MP	C	Kunzea ericoides	Kanuka	1.0 litre	12%			3060
MP	C	Macropiper excelsum	Kawakawa	1.0 litre	5%			1275
MP	C	Melicope simplex	Mahoe	1.0 litre	5%			1275
MP	C	Melicope ternata	Wharangi	1.0 litre	3%			765
MP	C	Myoporum laetum	Ngao	1.0 litre	3%			765
MP	C	Myrsine australis	Mapou, Matipo	1.0 litre	7%			1785
MP	C	Olearia solandri	Coastal tree daisy	1.0 litre	5%			1275
MP	C	Pittosporum tenuifolium	Kohuhu	1.0 litre	8%			2040
MP	C	Pseucopanax arboreus	Whauwhaupaku, Fvefinga	1.0 litre	2%			510
MP	C	Sophora microphylla	Kowhai	1.0 litre	3%			765
MASSED PLANTING - ADJACENT TO WETLAND								
MP	I	Aristotelia serrata	Makomako	1.0 litre	5%			223
MP	I	Austroderia fulvida	syn Cortaderia, toetoe	1.0 litre	10%			446
MP	I	Carex secta	Pukio, Purei	1.0 litre	5%			223
MP	I	Carex virgata	Swamp sedge	1.0 litre	10%			446
MP	I	Coprosma propinqua	Mingimingi	1.0 litre	5%			223
MP	I	Coprosma tenuicaulis	Hukihuki, swamp Coprosma	1.0 litre	5%			223
MP	I	Cordyline australis	Ti kouka	1.0 litre	15%			670
MP	I	Cyperus ustulatus	Toetoe upokotangata, Giant umbrella sedge	1.0 litre	5%			223
MP	I	Hebe stricta	Koromiko	1.0 litre	5%			223
MP	I	Leptospermum scoparium	Manuka	1.0 litre	10%			446
MP	I	Myrsine australis	Mapou, Matipo	1.0 litre	5%			223
MP	I	Phormium tenax	Harakeke, Flax	1.0 litre	10%			446
MP	I	Pittosporum eugenioides	Tarata, lemonwood	1.0 litre	5%			223
MP	I	Sophora microphylla	Kowhai	1.0 litre	5%			223
MASSED PLANTING + TREE ENRICHMENT								
MT	C	Aristotelia serrata	Makomako	1.0 litre	5%			363
MT	C	Carex lesssoniana	Cutty grass	1.0 litre	5%	front		363
MT	C	Carpodetus serratus	Putaputaweta	1.0 litre	5%			363
MT	C	Coprosma propinqua	Mingimingi	1.0 litre	7%			670
MT	C	Coprosma robusta	Karamu	1.0 litre	10%			957
MT	C	Cordyline australis	Ti kouka	1.0 litre	5%			479
MT	C	Griselinia lucida	Puka, Broadleaf	1.0 litre	2%			192
MT	C	Hebe stricta	Koromiko	1.0 litre	8%	front		766
MT	C	Kunzea ericoides	Kanuka	1.0 litre	12%			1149
MT	C	Macropiper excelsum	Kawakawa	1.0 litre	5%			479
MT	C	Melicope simplex	Mahoe	1.0 litre	5%			479
MT	C	Melicope ternata	Wharangi	1.0 litre	3%			287
MT	C	Myoporum laetum	Ngao	1.0 litre	3%			287
MT	C	Myrsine australis	Mapou, Matipo	1.0 litre	7%			670
MT	C	Olearia solandri	Coastal tree daisy	1.0 litre	5%			479
MT	C	Pittosporum tenuifolium	Kohuhu	1.0 litre	8%			766
MT	C	Pseucopanax arboreus	Whauwhaupaku, Fvefinga	1.0 litre	2%			192
MT	C	Sophora microphylla	Kowhai	1.0 litre	3%			287
MT	C	Alectryon excelsus	Ti koki	Pb18	20%	enrich		192
MT	C	Diospyllum spectabile	Kohekohe	Pb18	20%	enrich		192
MT	C	Knightsia excelsa	Rewarewa	Pb18	25%	enrich		239
MT	C	Podocarpus totara	Totara	Pb18	15%	enrich		144
MT	C	Prumnopitys taxifolia	Matai	Pb18	5%	enrich		48
MT	C	Rhopalostylis sapida	Nikau	Pb18	15%	enrich		144
TREE FORESTRY GRADE								
TF	F	Olea 'Vardale'	Olive	1.0 litre				12
TREE SPECIMEN GRADE - HOLD SUBJECT TO KCDC CONFIRMATION								
TS	D	Knightsia excelsa	Rewarewa	Pb 40				92
TS	D	Metrosideros excelsa 'Maori Princess'	Pohutukawa	Pb 40				17
WETLAND PLANTING - SLOPING BANK TO PERMANENT WATER, OCCASIONAL INUNDATION								
WP	D	Carex secta	Pukio, Purei	0.5 litre	65%	waters edge		250
WP	D	Cyperus ustulatus	Toetoe upokotangata, Giant umbrella sedge	0.5 litre	15%	waters edge		77
WP	D	Dacrydium dacrydioides	Kahikatea		2%			77
WP	D	Laurelia novae-zealandiae	Pukatea		3%			115
WP	D	Phormium tenax	Harakeke, Flax	0.5 litre	10%			385
WP	D	Cordyline australis	Ti kouka	1.0 litre	5%	occ groups		192
WETLAND PLANTING - EMERGENT 0.0 - 0.3M WATER DEPTH								
WP	F	Carex virgata	Swamp sedge	0.5 litre	75%			77
WP	F	Cyperus ustulatus	Toetoe upokotangata, Giant umbrella sedge	0.5 litre	15%			133
WP	F	Machaerina rubiginosa (syn Baumea)	Common twig rush, pakihī sedge	0.5 litre	20%			177
WP	F	Machaerina teretifolia (syn Baumea)	Common twig rush, pakihī sedge	0.5 litre	25%			222
WP	F	Phormium tenax	Harakeke, Flax	0.5 litre	15%			133
WETLAND PLANTING - 0.3 TO 0.6M WATER DEPTH								
WP	G	Bolboschoenus fluviatilis	Kukuraho, Marsh club rush	0.5 litre	15%			479
WP	G	Carex secta	Pukio, Purei	0.5 litre	40%			1278
WP	G	Eleocharis acuta	Sharp spiked sedge	0.5 litre	25%			799
WP	G	Juncus algariae (syn J. greggii)	Wiwi	0.5 litre	20%			639
MASSED MEDIAN PLANTING								
MM	A	Ficinia neocosa	Wiwi, Knobby club rush	1.0 litre	100%	stone mulch		3129
MASSED SWALE PLANTING								
MS	A	Apocasmia similis	Oioi	0.5 litre	100%	no mulch		37245
GRASS								
GL	A	Grass low grow mix	sown, close mow to 100mm					2857 m ²
GR	A	Grass rank - (low grow mix)	sown, allowed to grow rank					4198 m ²

A3 REPRODUCTION SCALE

370 380

ORIGINAL DRAWING
IN COLOUR

DETAILED DESIGN
NOT FOR CONSTRUCTION

No.	Revision	By	Chk	Appd	Date
A	FOR DETAILED DESIGN	MP			08.14

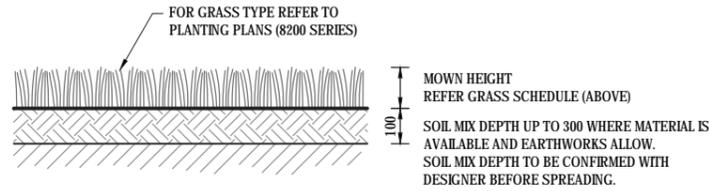
Original Scale (A1) NTS	Design	S DUNN	09.06.14	Approved For Construction
Reduced Scale (A3) NTS	Dwg Checker	M POWELL	09.06.14	
	Dwg Check		08.14	Date

MacKays to Peka Peka
Wellington Northern Corridor

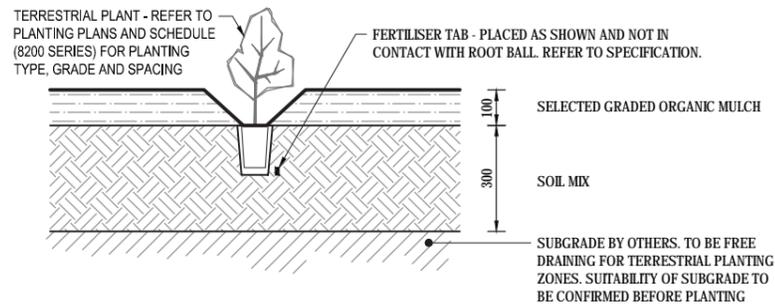
Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: KAPITI ROAD INTERCHANGE PLANTING SCHEDULE
Drawing No: M2PP-38R-D-DWG-8211
Rev: A

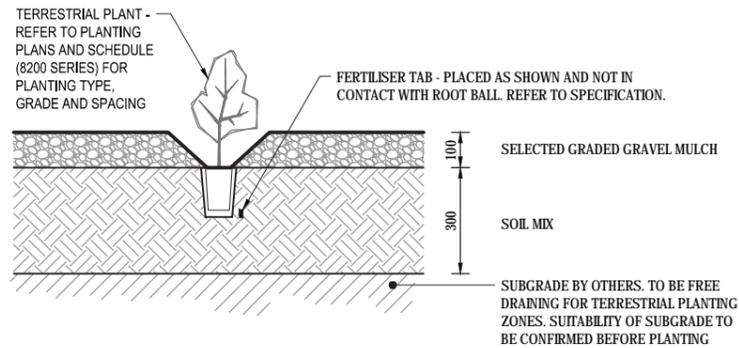
GRASS SCHEDULE			
PLANTING TYPE	NAME	MOWN HEIGHT	SEED MIX
GL	GRASS - LOW	100mm MAXIMUM	LOW GROW AS PER SPECIFICATION
GS	GRASS - SWALE	200mm MAXIMUM	LOW GROW AS PER SPECIFICATION
GR	GRASS - ROUGH	>100mm	LOW GROW AS PER SPECIFICATION



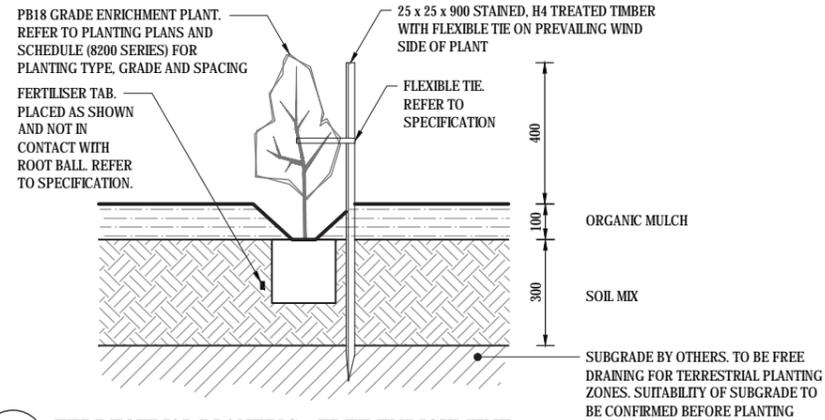
A GRASS DETAIL
1:10



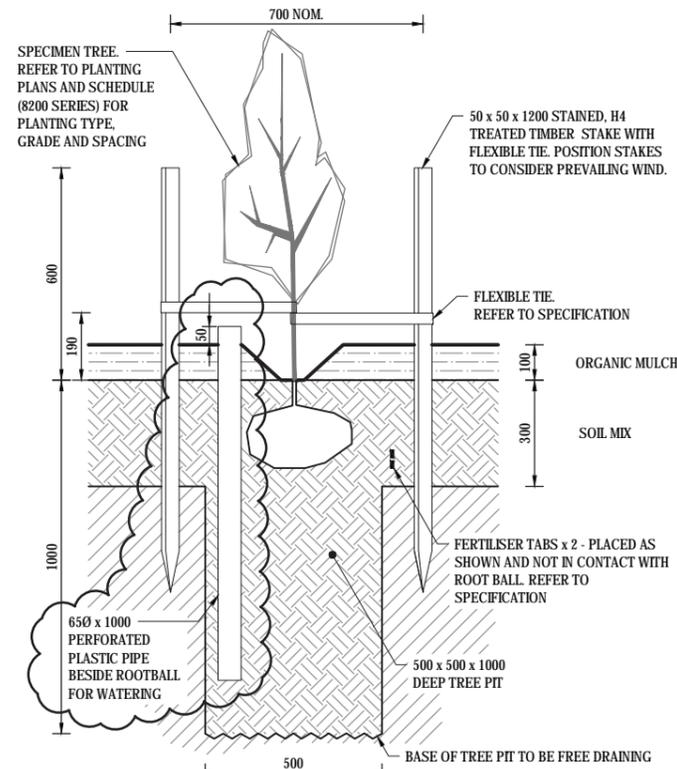
B TERRESTRIAL PLANTING (ORGANIC MULCH)
1:10



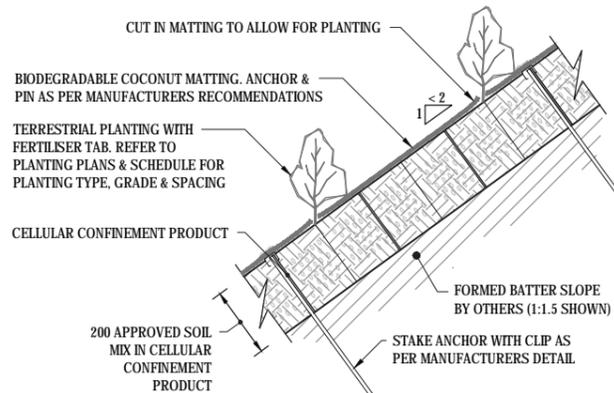
C TERRESTRIAL PLANTING (STONE MULCH)
1:10



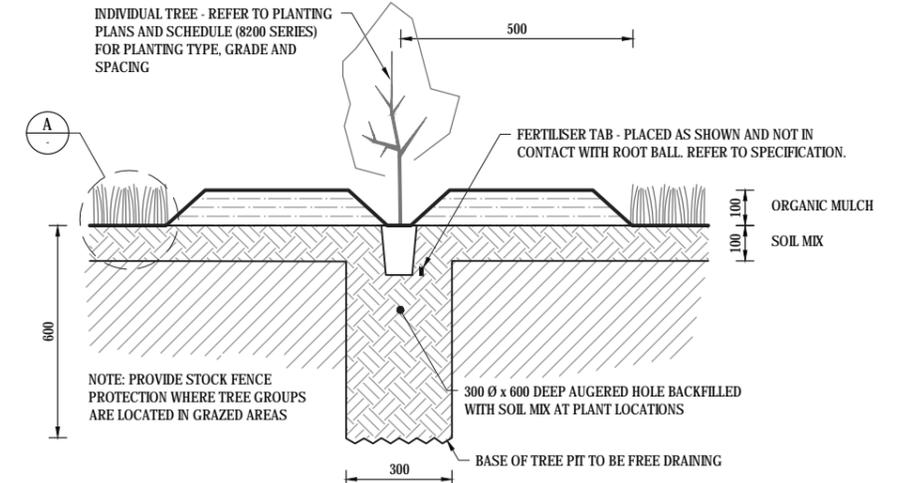
D TERRESTRIAL PLANTING - TREE ENRICHMENT
1:10



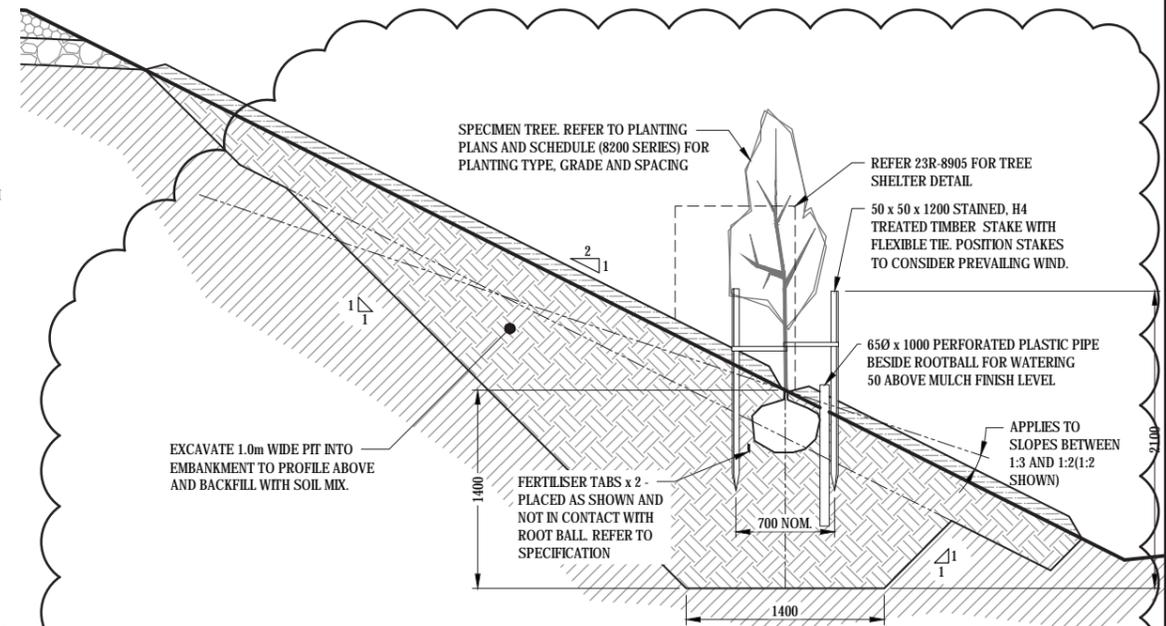
E TERRESTRIAL PLANTING - SPECIMEN TREE ON SLOPES UP TO 1:3
1:10



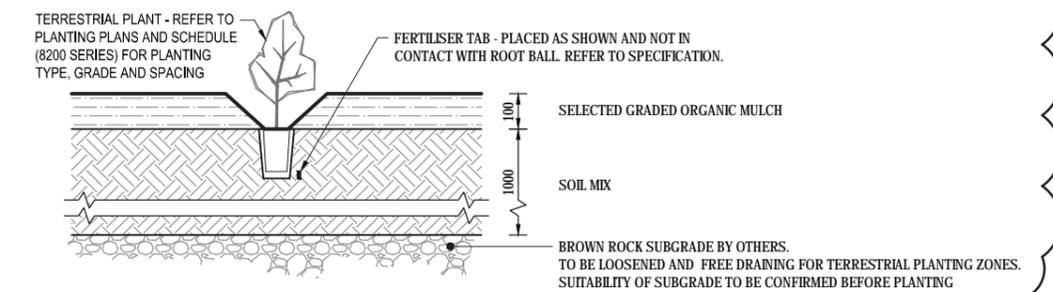
F TERRESTRIAL PLANTING - SOIL MIX STABILISATION
1:10



G TERRESTRIAL PLANTING - INDIVIDUAL TREE IN GRASSED AREA
1:10



H TERRESTRIAL PLANTING - SPECIMEN TREE ON SLOPES 1:3 TO 1:2
1:25



J TERRESTRIAL PLANTING ON BROWN ROCK BASE
1:10

- NOTES:**
- REFER TO LANDSCAPE SPECIFICATION FOR ORGANIC MULCH, GRAVEL MULCH, TOPSOIL / SOIL MIX AND GUYING COMPONENTS.
 - ENSURE MULCH DOES NOT PILE UP AGAINST THE PLANT STEM.
 - ENSURE SUBGRADE IS FREE DRAINING FOR TERRESTRIAL PLANTING PRIOR TO PLACEMENT OF SOIL MIX. (THIS DOES NOT APPLY TO RIPARIAN AREAS, WETLANDS, SWALES AND STORMWATER DETENTION ZONES).
 - REFER PLANTING PLANS (8200 SERIES) FOR PLANTING LOCATIONS.
 - REFER PLANT SCHEDULE (8210 SERIES) FOR PLANT MIXES, NUMBERS AND DETAILS.
 - AT TIME OF PLANTING ENSURE TREE PITS AND PLANT HOLES DO NOT HOLD WATER.
 - PRIOR TO PLACEMENT OF SOIL MIX HEAVILY COMPACTED SUBGRADE TO BE LOOSENED TO ENSURE GROWING ZONE IS FREE DRAINING.

FOR CONSTRUCTION

No.	Revision	By	Chk	Chk.V	Appd	Date
3	PERFORATED PIPE ADDED TO SPECIMEN TREE DETAILS (E & H)	MP				05.09.14
2	DETAIL H REVISED & DETAIL J ADDED	MP	MP	BF	DS	07.08.14
1	FOR CONSTRUCTION	MP	GFB	DMH	DGS	04.04.14

Original Scale (A1)	Design	S.DUNN	05.11.13	Approved For Construction
AS SHOWN	DRAWN	D.RVINE	05.11.13	P. BRADSHAW
Reduced Scale (A3)	Dwg Verifier	B. EVANS	04.04.14	
1/2 SHOWN	Dwg Check	G. F.B	04.04.14	Date 04.04.14

NZ TRANSPORT AGENCY WAKA KOTAHU
MacKays to Peka Peka Wellington Northern Corridor

Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
 RP 1012/0.00 TO 1023/5.00

Title: STANDARD DETAILS
 STANDARD PLANTING DETAILS
 SHEET 1

Drawing No: M2PP-23R-D-DWG-8900
 Rev: 3