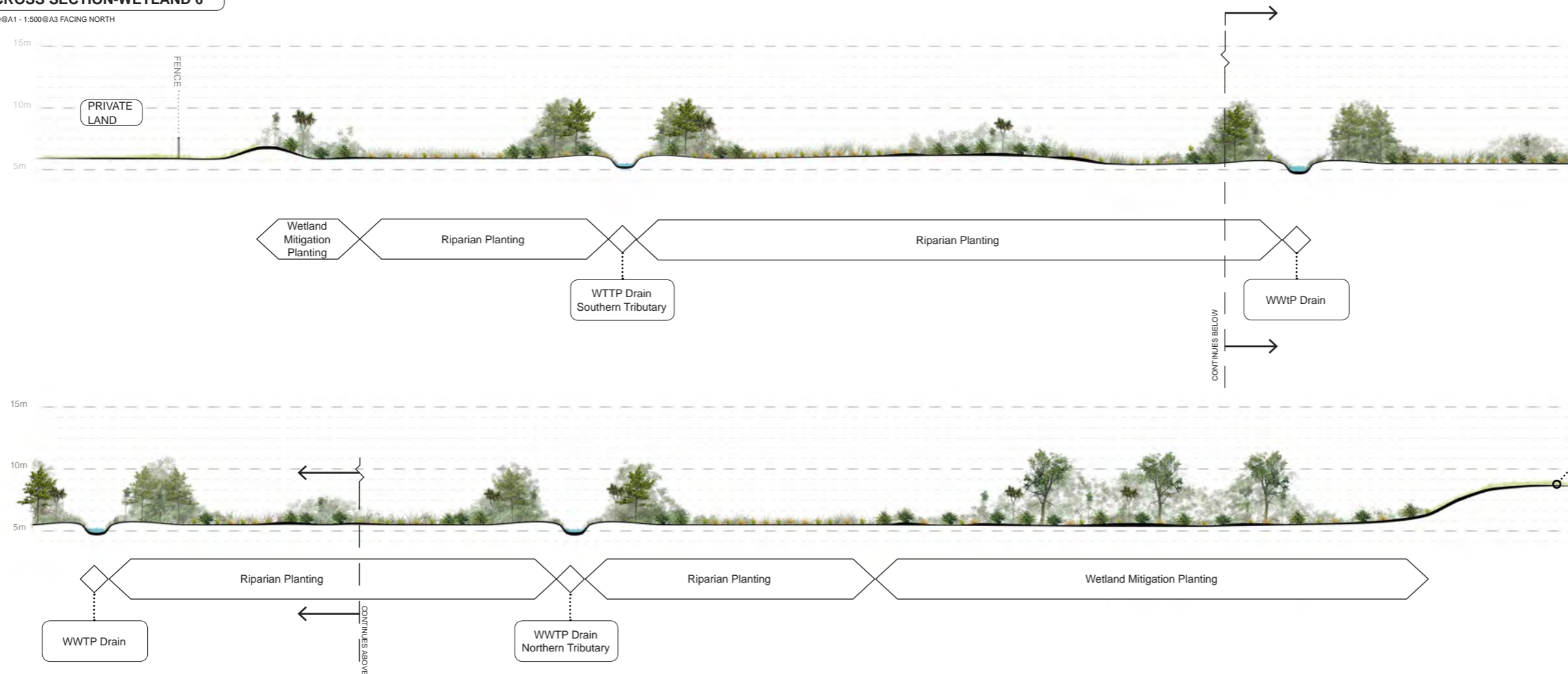


CS1 - CROSS SECTION-WETLAND 6

SCALE - 1:250@A1 - 1:500@A3 FACING NORTH



SSMP LOCATION MAP-M2PP-121-D-GPH-8056



SITE CONTEXT PLAN-M2PP-121-D-GPH-8101

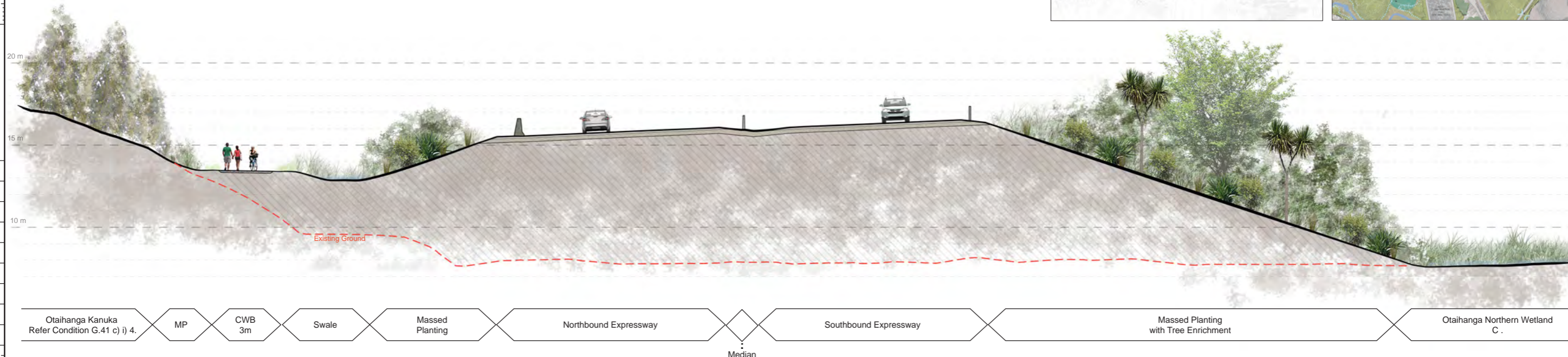


CS2 - CROSS SECTION-THROUGH EXPRESSWAY

SCALE - 1:100@A1 - 1:200@A3 FACING NORTH

A1 REPRODUCTION SCALE

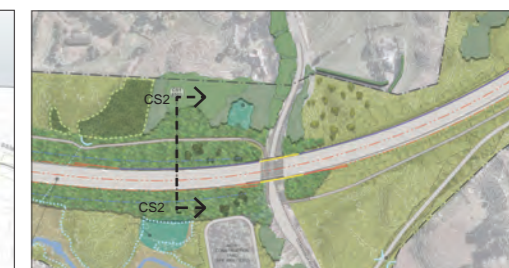
A3 REPRODUCTION SCALE



SSMP LOCATION MAP-M2PP-121-D-GPH-8056



SITE CONTEXT PLAN-M2PP-121-D-GPH-8102



| No. | Revision | By | Chk | Chk.V | Appd | Date |
|-----|-------------------|----|-----|-------|------|----------|
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| Original Scale (A1) | Design | Drawn | Approved For Construction? |
|---------------------|--|-------|----------------------------|
| AS SHOWN | - | - | - |
| AS SHOWN | Design Verifier | - | - |
| AS SHOWN | Drawn | - | - |
| AS SHOWN | Design Check | - | - |
| AS SHOWN | Refer to Revision 1 for Original Signature | - | - |



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

Title: SSMP 5 & 6 - SHEET 7 ROAD SECTIONS

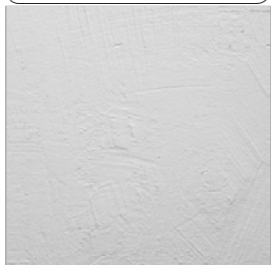
Drawing No: M2PP-121-D-GPH-8501

Rev: B

CS1 - CROSS SECTIONAL ELEVATION-OTAIHANGA RD

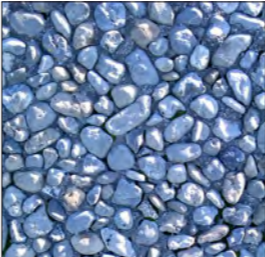
FACING WEST SCALE - 1:200@A3

MATERIAL A



BRIDGE BARRIER:
PRECAST
CONCRETE WITH
2 COATS WHITE
KIEH COATING &
ANTI GRAFFITI
PROTECTION-
PENDING SAMPLE
PANEL APPROVAL

MATERIAL B

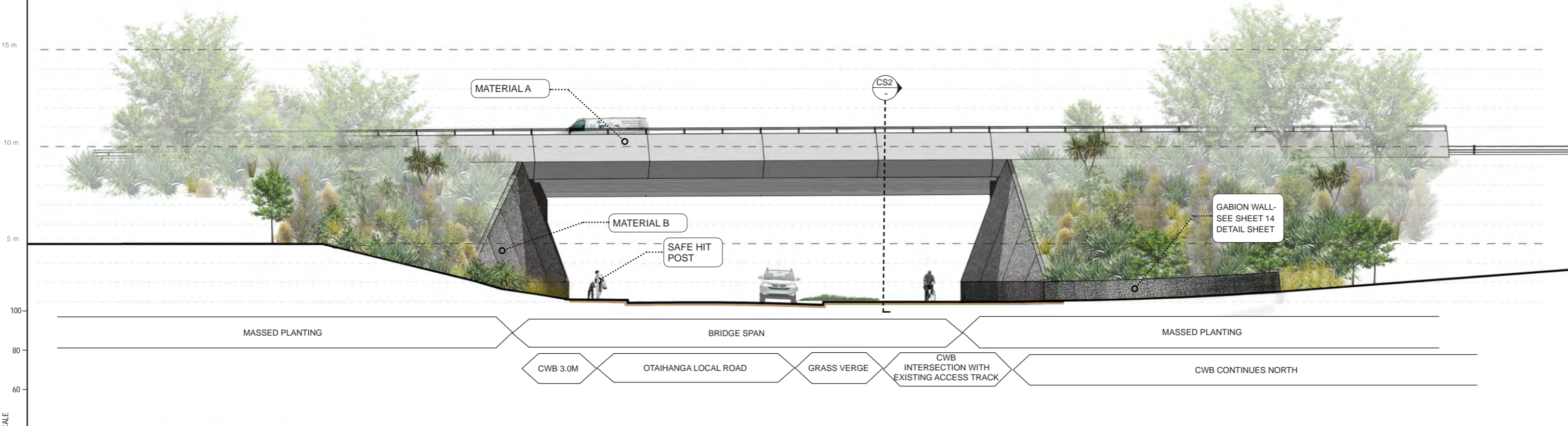
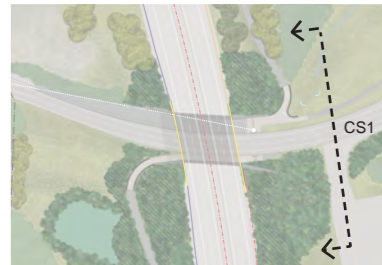


BRIDGE ABUTMENT:
PRECAST
CONCRETE PANEL
WITH INLAYED OTAKI
PEB 40MM STONE
AND MATT GRAFFITI
PROTECTION-
PENDING SAMPLE
PANEL APPROVAL

SSMP LOCATION MAP-M2PP-121-D-GPH-8056

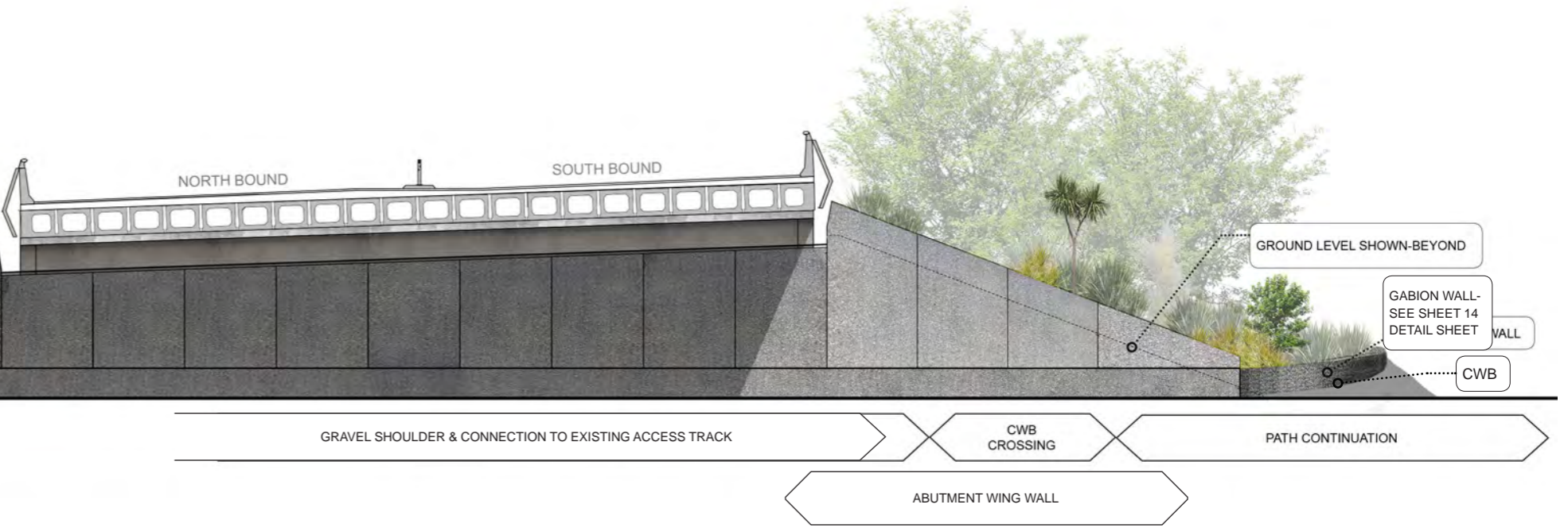
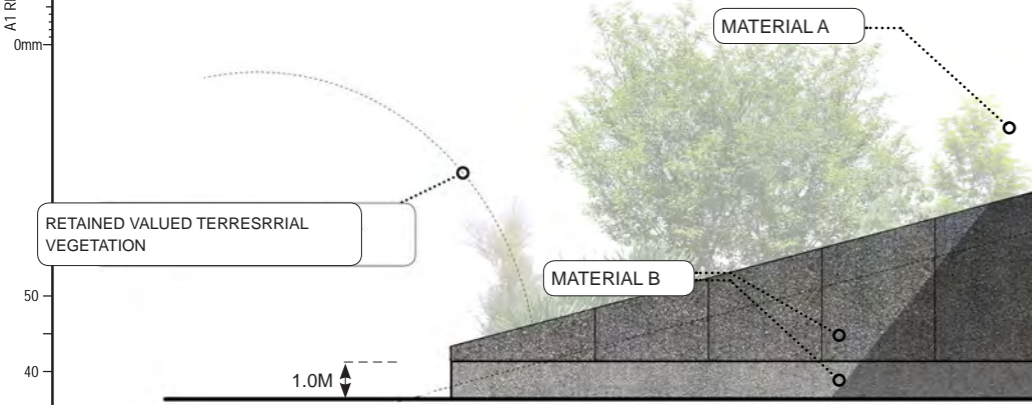


SITE CONTEXT PLAN-M2PP-121-D-GPH-8301



CS2-CROSS SECTIONAL ELEVATION-ABUTMENT

FACING NORTH SCALE - 1:200@A3



| No. | Revision | By | Chk | Chk.V | Appd | DMS SHOWN |
|-----|-------------------|----|-----|-------|------|--------------------|
| B | FOR CERTIFICATION | | | | | AS SHOWN |
| A | PRELIMINARY ISSUE | | | | | Reduced Scale (A3) |

NZ TRANSPORT AGENCY
WAKA KOTAHĀ

MacKays to Peka Peka
Wellington Northern Corridor

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

Title: SSMP 5 & 6 - SHEET 8 LONG SECTIONS

Drawing No: M2PP-121-D-GPH-8401

Rev: B

DETAIL DESIGN (DET)

VS1-VISUALISATION-OTAIHANGA OVERPASS-LOOKING EAST



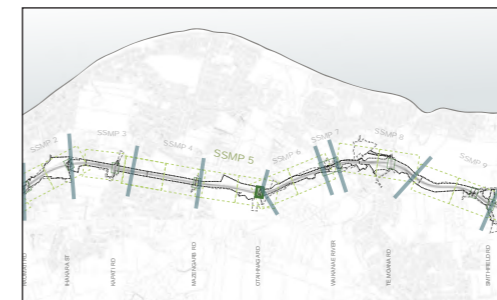
PROPOSED SITUATION AFTER 10 YEARS

A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm

DETAIL DESIGN (DET)

SSMP LOCATION MAP-M2PP-121-D-GPH-8056



SITE CONTEXT PLAN-M2PP-121-D-GPH-8301



| No. | Revision | By | Chk | Chk.V | Appd | Date |
|-----|-------------------|----|-----|-------|------|----------|
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| Original Scale (A1) | Design | Approved For Construction* |
|---------------------|-----------------|--|
| Drawn | | Date |
| Reduced Scale (A3) | Design Verifier | |
| NTS | Design Check | |
| | | * Refer to Revision 1 for Original Signature |



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




Title: SSMP 5 & 6 - SHEET 9
BRIDGE VIEW

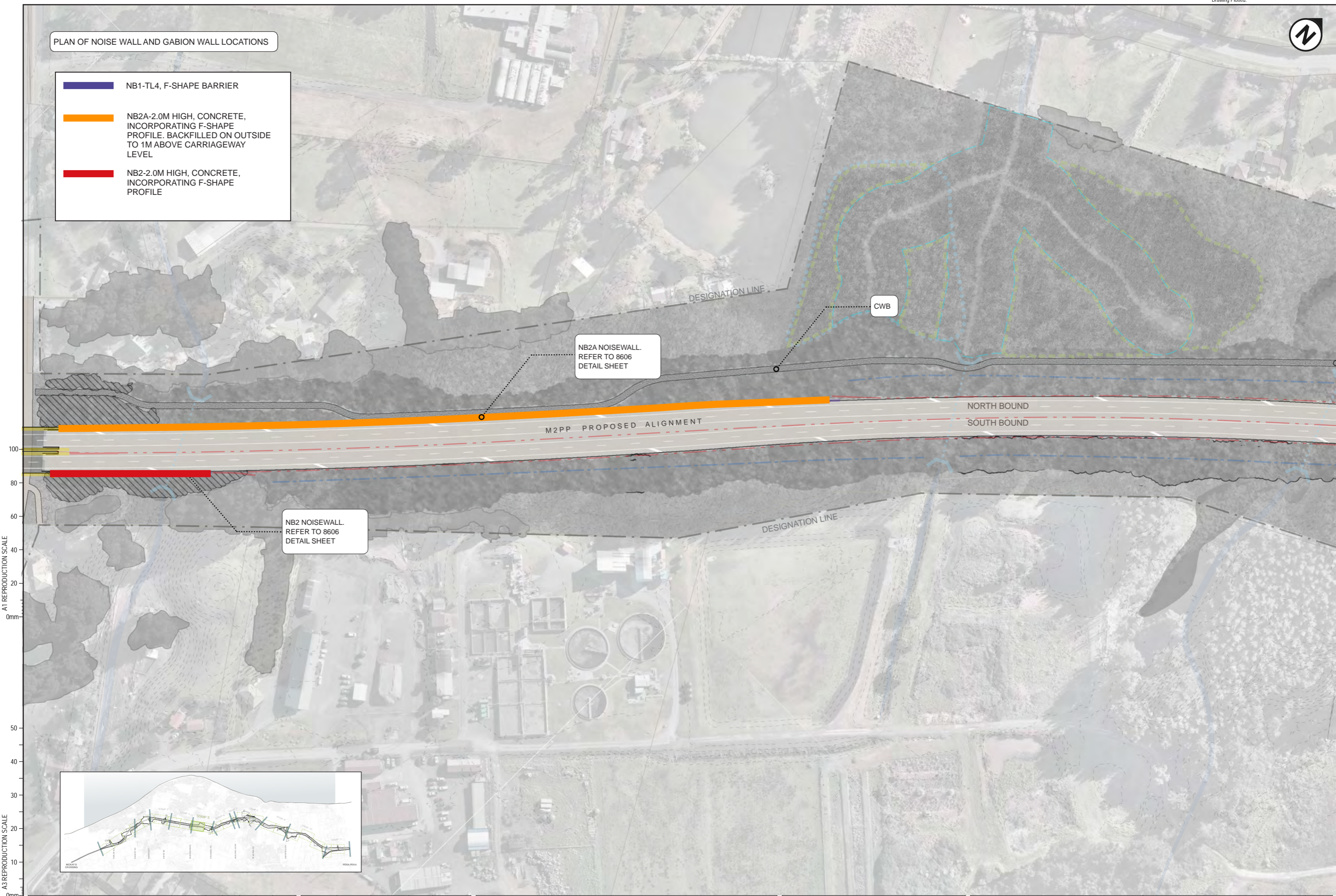
Drawing No: M2PP-121-D-GPH-8801

Rev: B



PLAN OF NOISE WALL AND GABION WALL LOCATIONS

-  NB1-TL4, F-SHAPE BARRIER
-  NB2A-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE. BACKFILLED ON OUTSIDE TO 1M ABOVE CARRIAGEWAY LEVEL
-  NB2-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE



| | | | | | |
|-------------------|----------|----|-----|------|----------|
| FOR CERTIFICATION | | | | | 20.12.13 |
| PRELIMINARY ISSUE | | | | | 19.09.13 |
| No. | Revision | By | Chk | Appd | Date |

| | | |
|---------------------|-----------------|----------------------------|
| Original Scale (A1) | Design Drawn | Approved For Construction? |
| Reduced Scale (A3) | Design Verifier | Date |
| | Design Check | |

* Refer to Revision 1 for Original Signature

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

Title: SSMP 5 & 6 - SHEET 10
NOISE WALL LOCATIONS

Drawing No: M2PP-121-D-GPH-8601

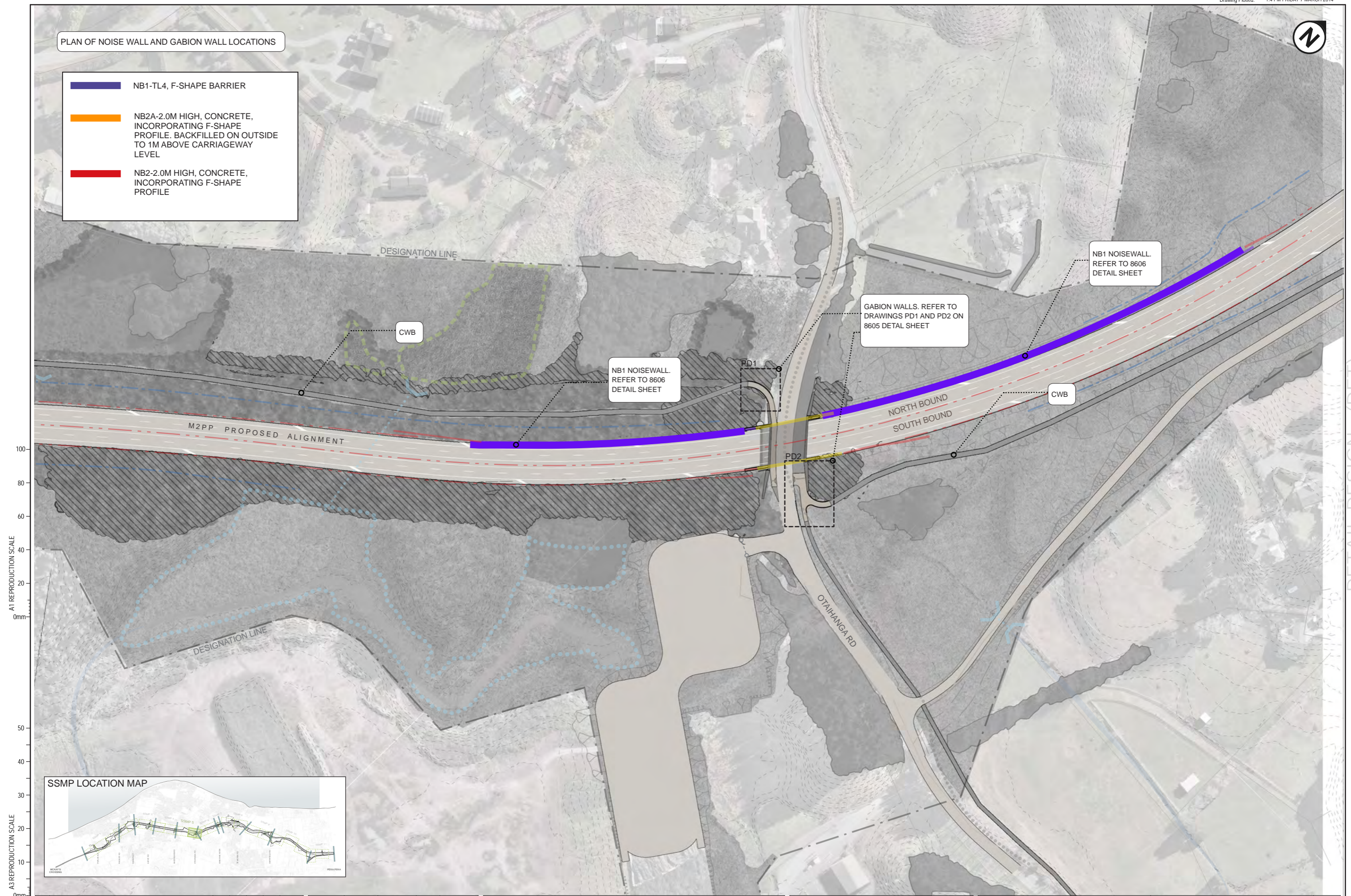
Rev. B

DETAIL DESIGN (DET)



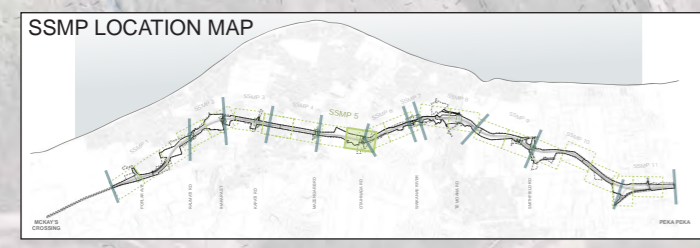
PLAN OF NOISE WALL AND GABION WALL LOCATIONS

- NB1-TL4, F-SHAPE BARRIER
- NB2A-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE. BACKFILLED ON OUTSIDE TO 1M ABOVE CARRIAGEWAY LEVEL
- NB2-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE



A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm



DETAIL DESIGN (DET)

| | | | | | | |
|-----|-------------------|----|-----|-------|------|----------|
| No. | Revision | By | Chk | Chk.V | Appd | Date |
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| | | |
|---------------------|----------------|----------------------------|
| Original Scale (A1) | Design | Approved For Construction* |
| 1:25 | Drawn | Date |
| Reduced Scale (A3) | Design Checker | |
| 1:50 | Checked | |

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

Title: SSMP 5 & 6 - SHEET 11
NOISE WALL LOCATIONS

Drawing No: M2PP-121-D-GPH-8602

Rev: B



PLAN OF NOISE WALL AND GABION WALL LOCATIONS

- NB1-TL4, F-SHAPE BARRIER
- NB2A-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE. BACKFILLED ON OUTSIDE TO 1M ABOVE CARRIAGEWAY LEVEL
- NB2-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE

NB1 NOISEWALL. REFER TO 8606 DETAIL SHEET

CWB

DESIGNATION LINE

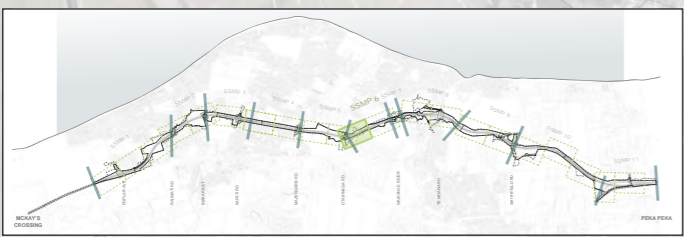
NORTH BOUND
SOUTH BOUND

M2PP PROPOSED ALIGNMENT

DESIGNATION LINE

A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm



| | | | | | | | | | |
|-----|-------------------|----|-----|-------|------|------|--|--|----------|
| | | | | | | | | | |
| B | FOR CERTIFICATION | | | | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | | | | 19.09.13 |
| No. | Revision | By | Chk | Chk.V | Appd | Date | | | |

| | | |
|---------------------|--|----------------------------|
| Original Scale (A1) | Design Drawn | Approved For Construction? |
| Reduced Scale (A3) | Design Verifier | Date |
| | Design Check | |
| | * Refer to Revision 1 for Original Signature | |

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

Title: SSMP 5 & 6 - SHEET 12
NOISE WALL LOCATIONS

Drawing No: M2PP-121-D-GPH-8603

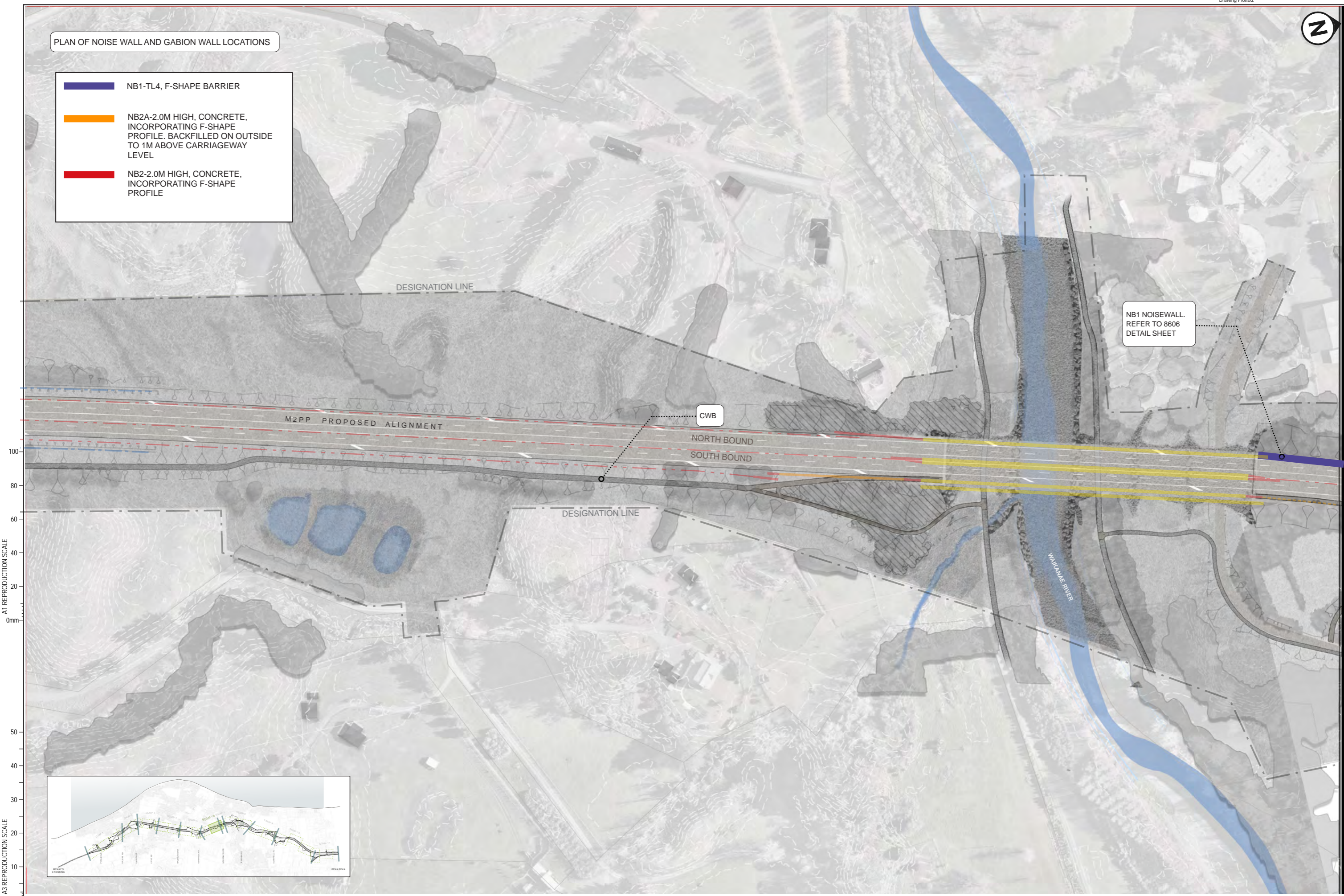
Rev. B

DETAIL DESIGN (DET)



PLAN OF NOISE WALL AND GABION WALL LOCATIONS

- NB1-TL4, F-SHAPE BARRIER
- NB2A-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE. BACKFILLED ON OUTSIDE TO 1M ABOVE CARRIAGEWAY LEVEL
- NB2-2.0M HIGH, CONCRETE, INCORPORATING F-SHAPE PROFILE



A1 REPRODUCTION SCALE
0mm

A3 REPRODUCTION SCALE
0mm



DETAIL DESIGN (DET)

| | | | | | | |
|-----|-------------------|----|-----|-------|------|----------|
| No. | Revision | By | Chk | Chk.V | Appd | Date |
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| | | |
|---------------------|--|----------------------------|
| Original Scale (A1) | Design | Approved For Construction? |
| 1:25 | Drawn | Date |
| Reduced Scale (A3) | Design Verifier | |
| 1:50 | Design Check | |
| | * Refer to Revision 1 for Original Signature | |

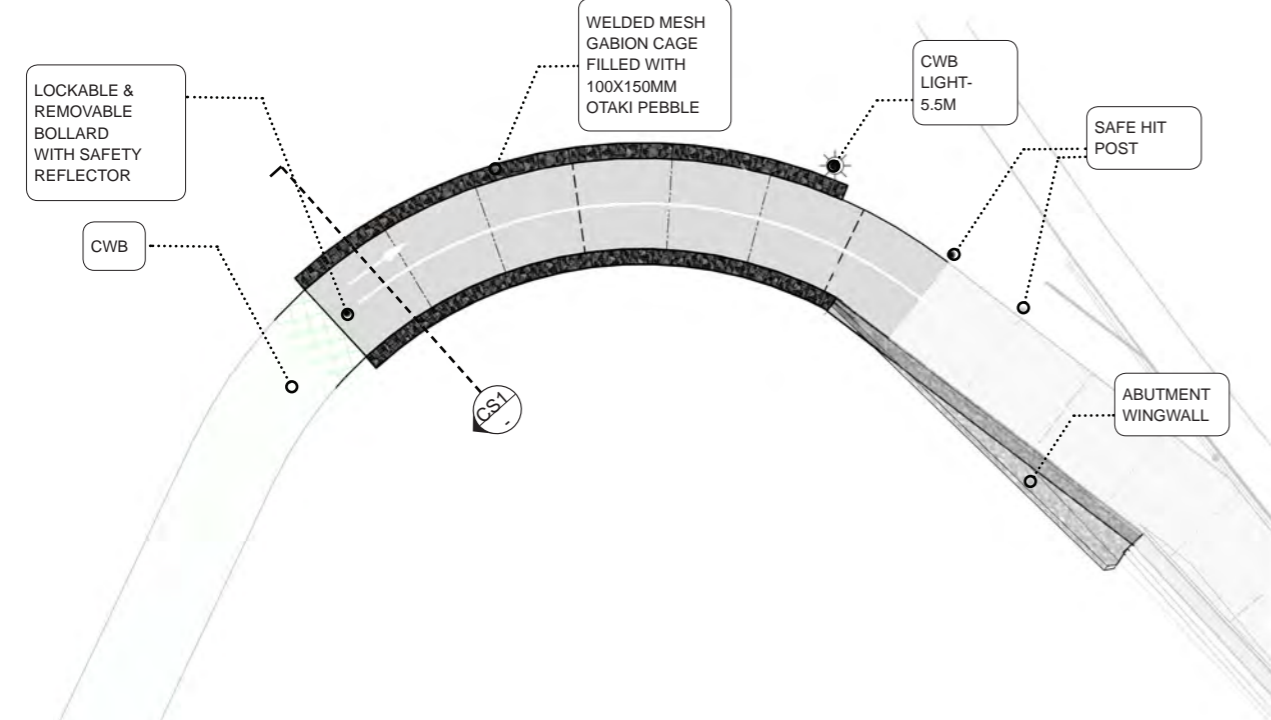
Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: SSMP 5 & 6 - SHEET 13
NOISE WALL LOCATIONS

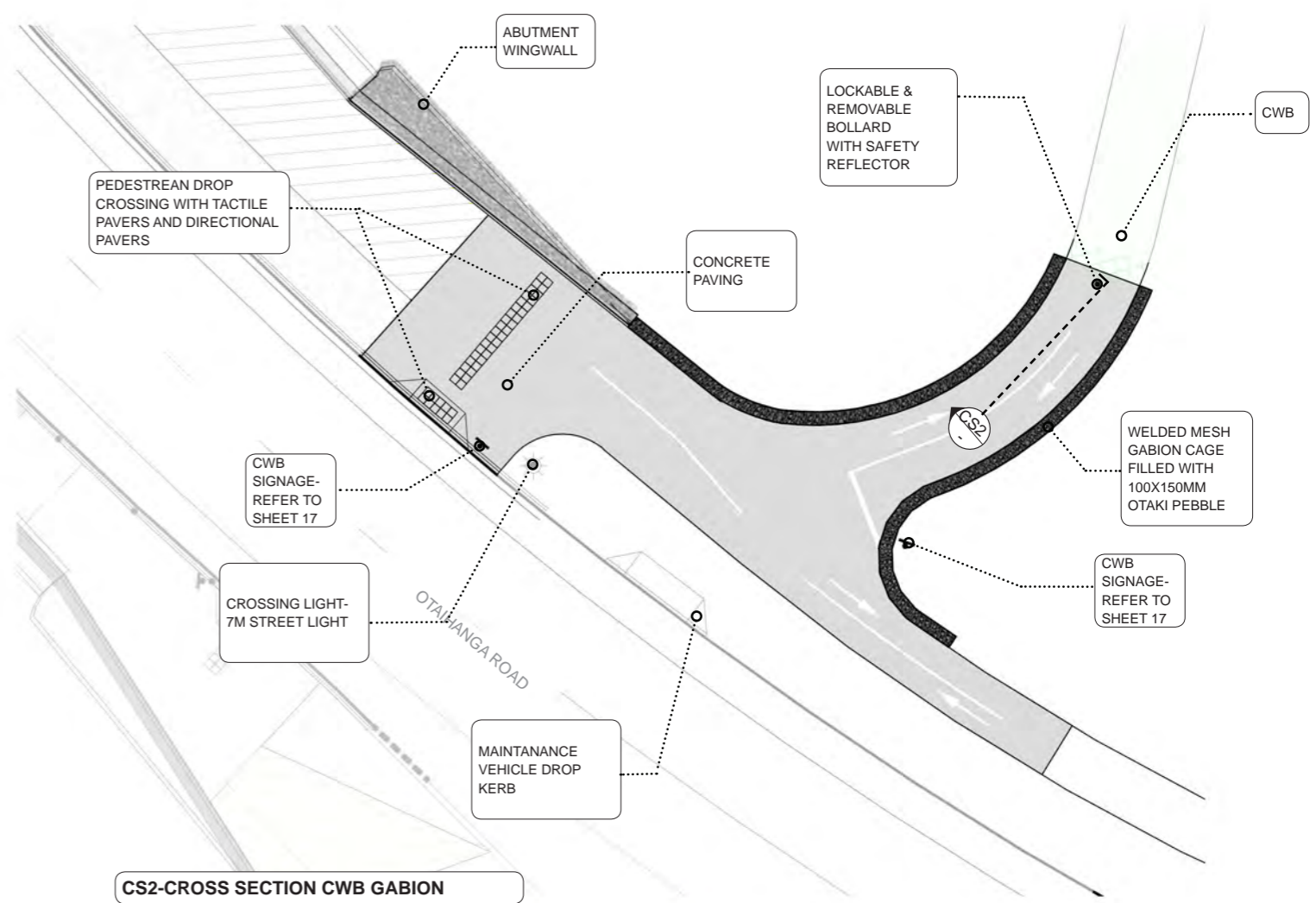
Drawing No: M2PP-121-D-GPH-8604

Rev: B

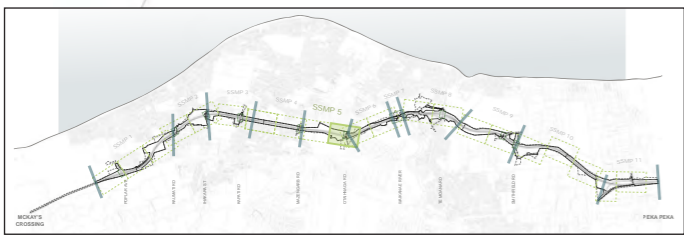
PD1-TYPICAL GABION BARRIER



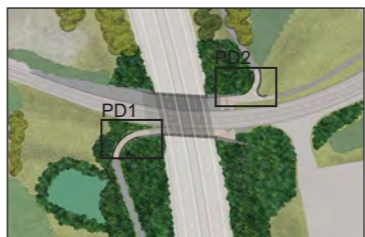
PD2-TYPICAL GABION BARRIER



SSMP LOCATION MAP-M2PP-121-D-GPH-8056



M2PP-121-D-GPH-8301



CS1-CROSS SECTION CWB GABION

A1 REPRODUCTION SCALE

A3 REPRODUCTION SCALE



CS2-CROSS SECTION CWB GABION



MATERIALITY SAMPLES



| No. | Revision | By | Chk | Chk.V | Appd | Date |
|-----|-------------------|----|-----|-------|------|----------|
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| Original Scale (A1) | Design | Approved For Construction? |
|---------------------|-----------------|----------------------------|
| Reduced Scale (A3) | Drawn | Date |
| | Design Verifier | |
| | Design Check | |

* Refer to Revision 1 for Original Signature



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

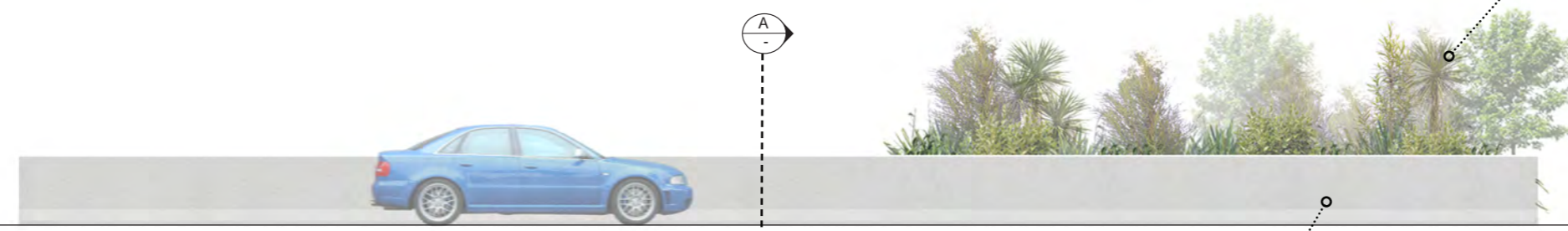
| | |
|-------|--|
| Title | SSMP 5 & 6 - SHEET 14 GABION WALL DETAILS |
|-------|--|

| | |
|-------------|---------------------|
| Drawing No. | M2PP-121-D-GPH-8605 |
|-------------|---------------------|

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|------|---|
| Rev. | B |
|------|---|

DETAIL DESIGN (DET)

ELEVATION 1 - NOISE WALL NB1(TL4)- EXPRESSWAY SIDE

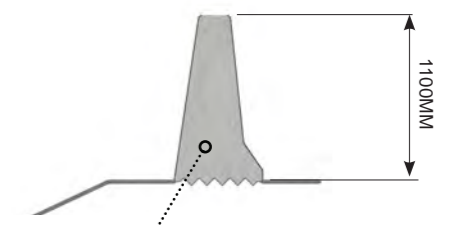


INDICATIVE PLANTING-FOR FULL PLANTING EXTENT REFER TO SHEETS 29, 30, 31, 32

SECTION A - NOISE WALL NB1 (TL4)

SCALE - 1:25@A3

RESIDENTIAL SIDE EXPRESSWAY SIDE

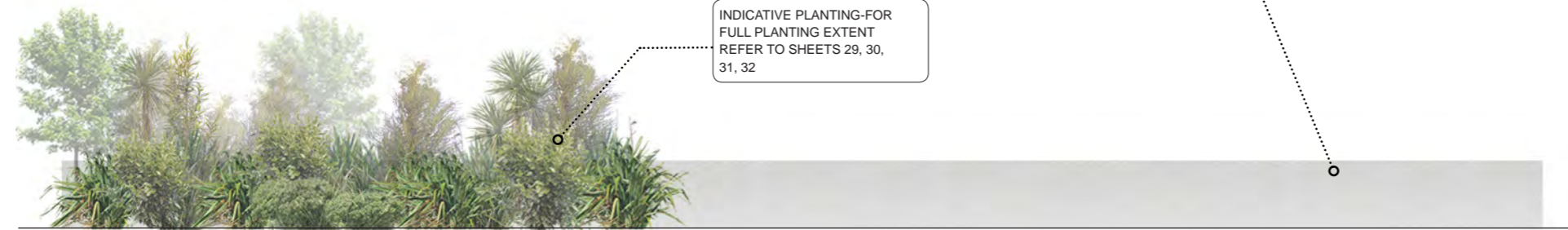


TL4 FAIR FACED CONCRETE EXPRESSWAY BARRIER

ELEVATION 2 - NOISE WALL NB1 (TL4)- RESIDENTIAL SIDE

TL4 FAIR FACED CONCRETE EXPRESSWAY BARRIER

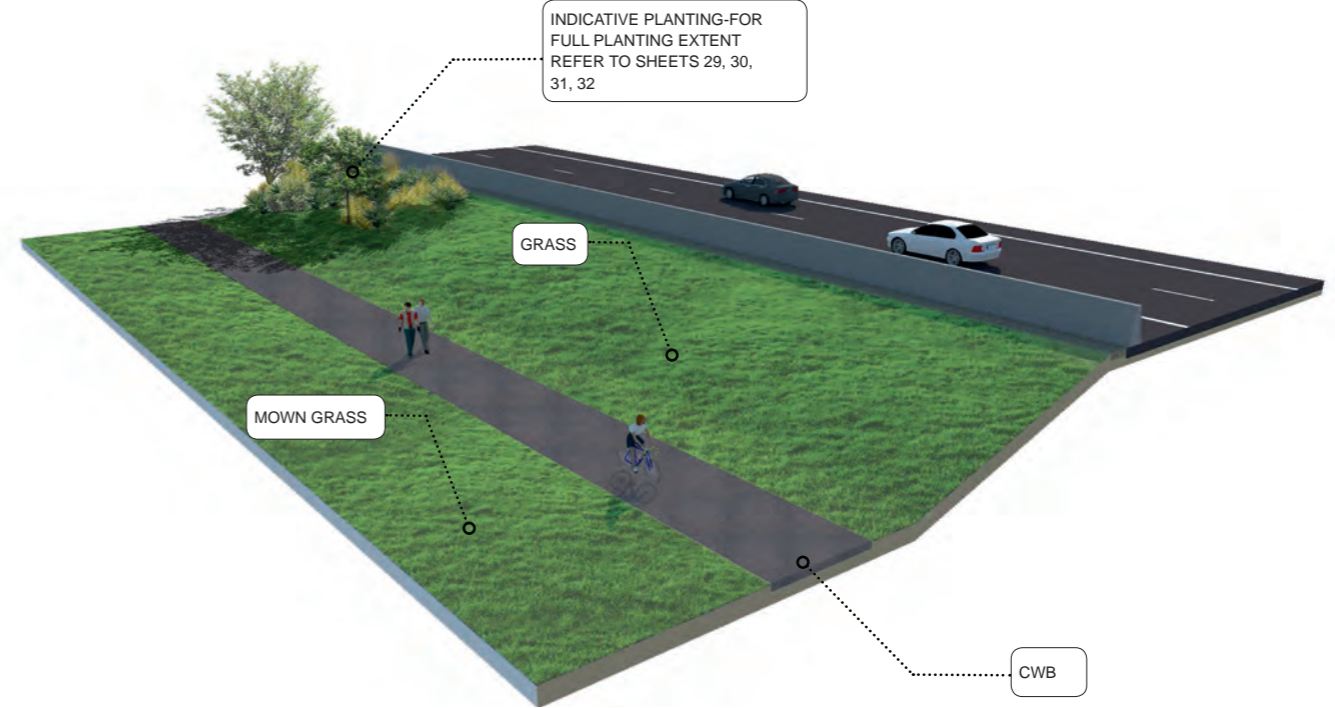
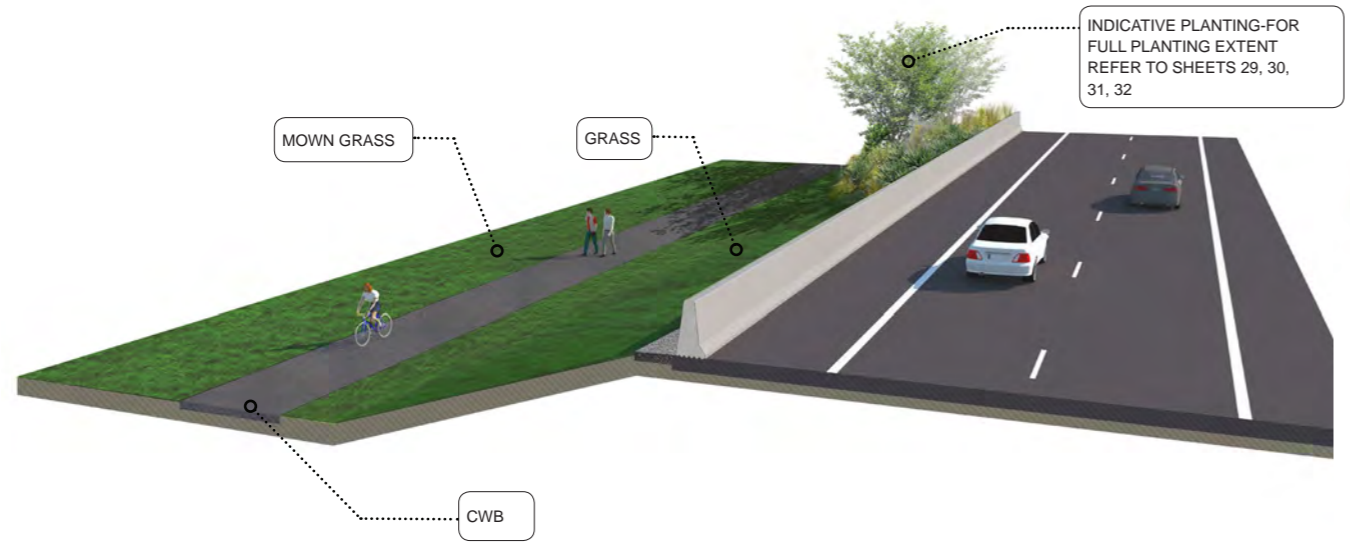
INDICATIVE PLANTING-FOR FULL PLANTING EXTENT REFER TO SHEETS 29, 30, 31, 32



VISUALISATION EXPRESSWAY SIDE

VISUALISATION RESIDENTIAL SIDE

INDICATIVE PLANTING-FOR FULL PLANTING EXTENT REFER TO SHEETS 29, 30, 31, 32



A1 REPRODUCTION SCALE
0mm
20
40
60
80
100

A3 REPRODUCTION SCALE
0mm
10
20
30
40
50

| | | | | | | |
|-----|-------------------|----|-----|-------|------|----------|
| No. | Revision | By | Chk | Chk.V | Appd | Date |
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| | | | |
|---------------------|-----------------|---------|----------------------------|
| Original Scale (A1) | Design | Drawn | Approved For Construction? |
| Reduced Scale (A3) | Design Verifier | Checked | Date |
| | Design Check | | |

* Refer to Revision 1 for Original Signature



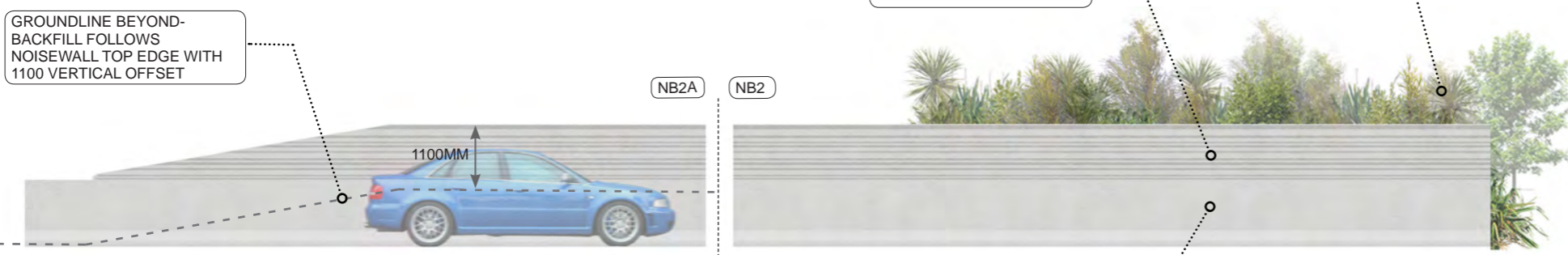
Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: SSMP 5 & 6 - SHEET 15 NOISE WALL NB1

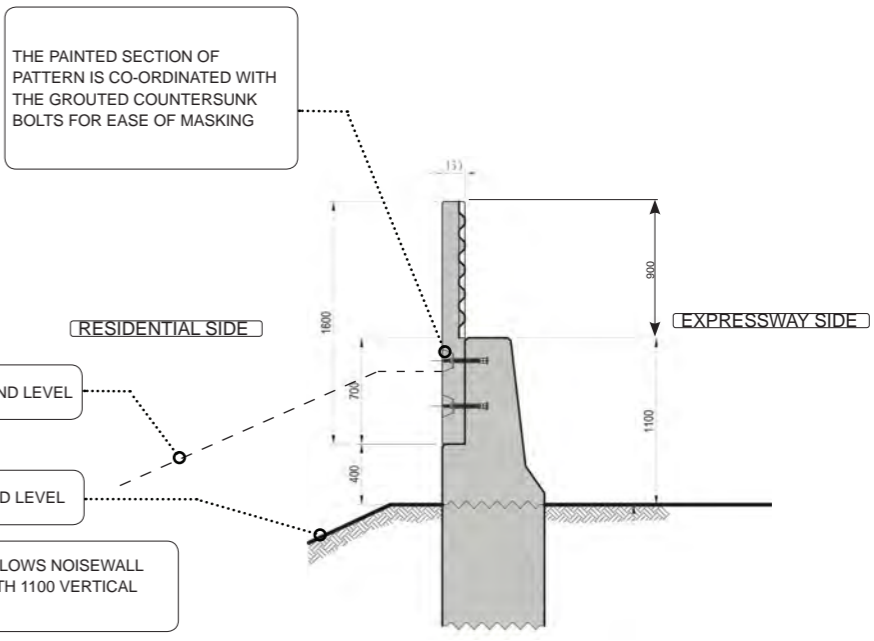
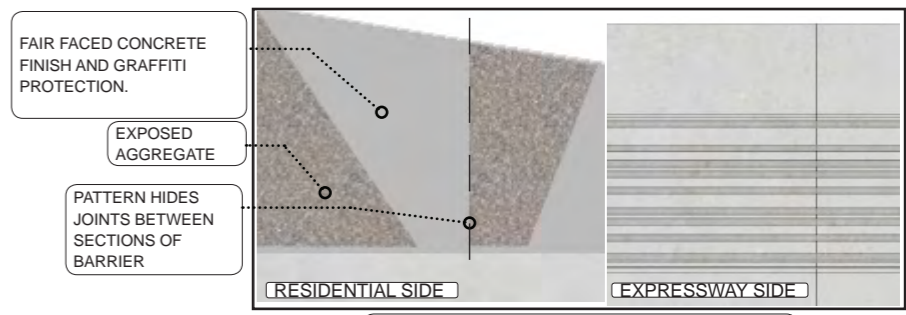
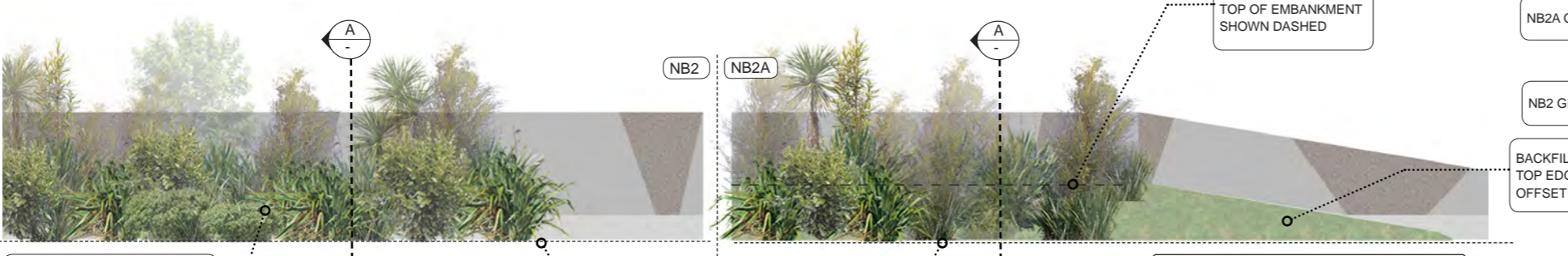
Drawing No: M2PP-121-D-GPH-8606

Rev. B

ELEVATION 1 - NOISE WALL NB2 & NB2A - EXPRESSWAY SIDE



ELEVATION 2 - NOISE WALL NB2 & NB2A - RESIDENTIAL SIDE



VISUALISATION-EXPRESSWAY SIDE (NB2 ONLY)

VISUALISATION-RESIDENTIAL SIDE



A1 REPRODUCTION SCALE
0mm
20
40
60
80
100
A3 REPRODUCTION SCALE
0mm
10
20
30
40
50

| | | | | | | |
|-----|-------------------|----|-----|-------|------|----------|
| No. | Revision | By | Chk | Chk.V | Appd | Date |
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| | | | |
|---------------------|-----------------|---|----------------------------|
| Original Scale (A1) | Design | - | Approved For Construction? |
| Reduced Scale (A3) | Drawn | - | Date |
| | Design Verifier | - | |
| | Design Check | - | |

* Refer to Revision 1 for Original Signature

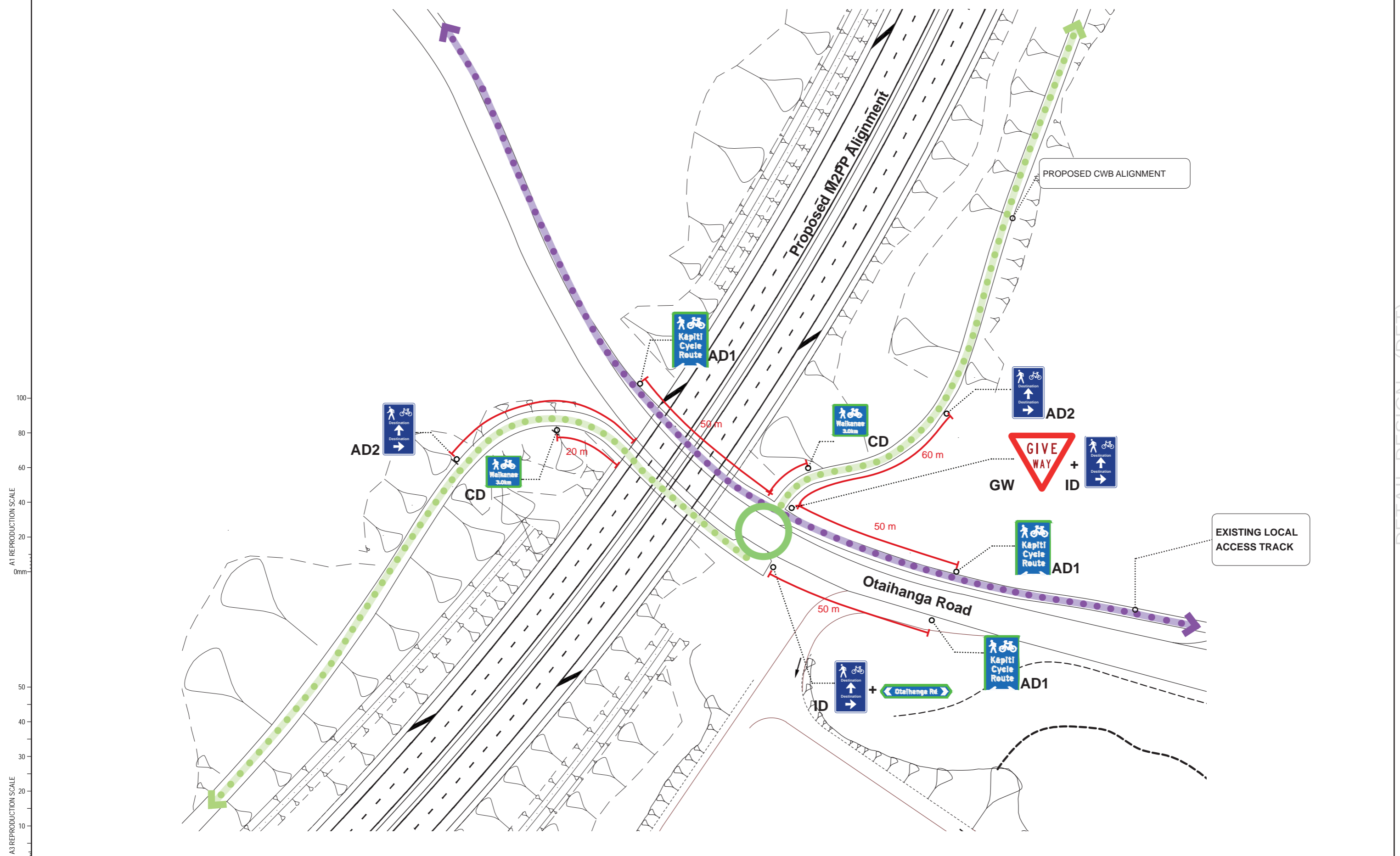
Project: SH1 MACKAYS TO PEKA PEKA EXPRESSWAY
RP 1012/0.00 TO 1023/5.00

Title: SSMP 5 & 6 - SHEET 16
NOISE WALL NB2 & NB2A - 2M

Drawing No: M2PP-121-D-GPH-8607

Rev. B

INTERSECTION TYPE C - LOCAL ROAD CROSSING - OTAIHANGA ROAD



A1 REPRODUCTION SCALE
0mm 10 20 30 40 50 60 80 100

A3 REPRODUCTION SCALE
0mm 10 20 30 40 50

| | | | | | | |
|-----|-------------------|----|-----|-------|------|----------|
| No. | Revision | By | Chk | Chk.V | Appd | Date |
| B | FOR CERTIFICATION | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | 19.09.13 |

| | | |
|---------------------|-----------------|---------------------------|
| Original Scale (A1) | Design | Approved For Construction |
| 1:500 | Drawn | Date |
| Reduced Scale (A3) | Design Verifier | |
| 1:1000 | Design Check | |

* Refer to Revision 1 for Original Signature

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

Title: SSMP 5 & 6 - SHEET 17
CWB SIGNAGE PLAN

Drawing No: M2PP-121-D-GPH-8902

Rev: B

DETAIL DESIGN (DET)

Document No.

TYPICAL SIGN TYPES:

AI - ADVANCED INFO SIGNS

AT START OF ROUTE.
INCLUDES:

- MAP & INFO
- LENGTH & DURATION OF RIDE / WALK

AI - Advance Information Signs are not an essential requirement for public access tracks or cycle routes, nor are they standardised in terms of their design and layout. These signs may, if desired and appropriate, be installed at or near the start point of the route to provide detailed information, such as a map and information about the length and duration to ride etc. These signs should be clearly visible from the road, allowing cyclists and pedestrians a safe place to stop clear of the roadway or cycleway to read the information.

BE - BEGINNING AND ENDING SIGNS



BE - Begins/Ends Signs are used to indicate the start and/or end point of a cycle route. They will include route specific information. Route Begins Signs should be installed on the left hand side of the CWB immediately beyond or adjacent to any advance information sign or at a logical starting point for the cycle route.

ID - INTERSECTION DIRECTION



ID - The Intersection Direction Sign is located at or as near as possible to the actual intersection. Should include both Information about the destination and the distance.

Multiple signs and destinations to be on one post

AD01 - ADVANCED DIRECTION SIGN - ON LOCAL ROAD APPROACHING CWB



AD - The purpose of the Advance Direction Sign is to give cyclists prior warning, to enable them to make decisions and, if necessary, place themselves in the best position to make any change in direction required before they reach the intersection. These signs should be used in any situation where the cyclist could easily miss making a required turn at an approaching intersection.

To occur 40-60m in advance of an intersection and should only include information about the destination, not the distance.

CD - CONFIRMATION DIRECTION



CD - The Confirmation Direction Sign is used to confirm the direction/destination of travel after an intersection it is intended to provide assurance to cyclists. The CD sign features a straight ahead arrow and should include both Information about the destination and the distance.

As a general rule of thumb, these signs should be installed; between 20-50m beyond an intersection where an Advance Direction Sign has been used and should generally be visible from that intersection;

Cyclists should see a CD sign at least every 15-30 minutes of typical cyclist travel, or every 5-10 km.

AD - ADVANCED DIRECTION - ON CWB



AD - The purpose of the Advance Direction Sign is to give cyclists prior warning, to enable them to make decisions and, if necessary, place themselves in the best position to make any change in direction required before they reach the intersection. These signs should be used in any situation where the cyclist could easily miss making a required turn at an approaching intersection.

To occur 40-60m in advance of an intersection and should only include information about the destination, not the distance.

LOCAL ROAD INTERSECTION SIGNS



LR + GW - Local road (LR) and Giveaway (GW) signs should be used where the CWB crosses a local road. These are to be located at or as near as possible to the actual intersection. Where possible the LR should be kept to one per intersection and be able to be read by people on either side of the intersection. Both the LR and GW should share the same post and or be incorporated onto an existing post.

A1 REPRODUCTION SCALE
0mm
20
40
60
80
100
A3 REPRODUCTION SCALE
0mm
10
20
30
40
50

| | | | | | | | | | |
|-----|-------------------|----|-----|-------|------|------|-----|--|----------|
| | | | | | | | | | |
| B | FOR CERTIFICATION | | | | | | | | 20.12.13 |
| A | PRELIMINARY ISSUE | | | | | | | | 19.09.13 |
| No. | Revision | By | Chk | Chk.V | Appd | Date | N/S | | |

| | | | |
|---------------------|--|---|----------------------------|
| Original Scale (A1) | Design | - | Approved For Construction? |
| Drawn | - | - | Date |
| Reduced Scale (A3) | Design Verifier | - | |
| Drawn | Design Check | - | |
| | * Refer to Revision 1 for Original Signature | | |



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

| | |
|-------|-----------------------|
| Title | SSMP 5 & 6 - SHEET 18 |
| | CWB SIGN TYPE SUMMARY |

| | |
|-------------|---------------------|
| Drawing No. | M2PP-121-D-GPH-8901 |
| Rev. | B |