

GENERAL NOTE
 DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.



REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21
REV		DRN	CHK	APP	DATE

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		

Client:




WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

BRIDGE LOCATION PLANS
 SHEET 1 OF 5

CONTINUED 31023848-01-400-C0101 LINE JOIN

FOR CONSENT

Date Stamp: **19.08.22**

Scales: 1 : 5000 (A1) 1 : 10000 (A3)

Drawing No.: **310203848-01-400-C0100**

Rev: **D**

NOT FOR CONSTRUCTION

Client:

WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

BRIDGE LOCATION PLANS
 SHEET 1 OF 5

CONTINUED 31023848-01-400-C0101 LINE JOIN

FOR CONSENT

Date Stamp: **19.08.22**

Scales: 1 : 5000 (A1) 1 : 10000 (A3)

Drawing No.: **310203848-01-400-C0100**

Rev: **D**

Last modified: Feb 22 2021 By Jim Hunt



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B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

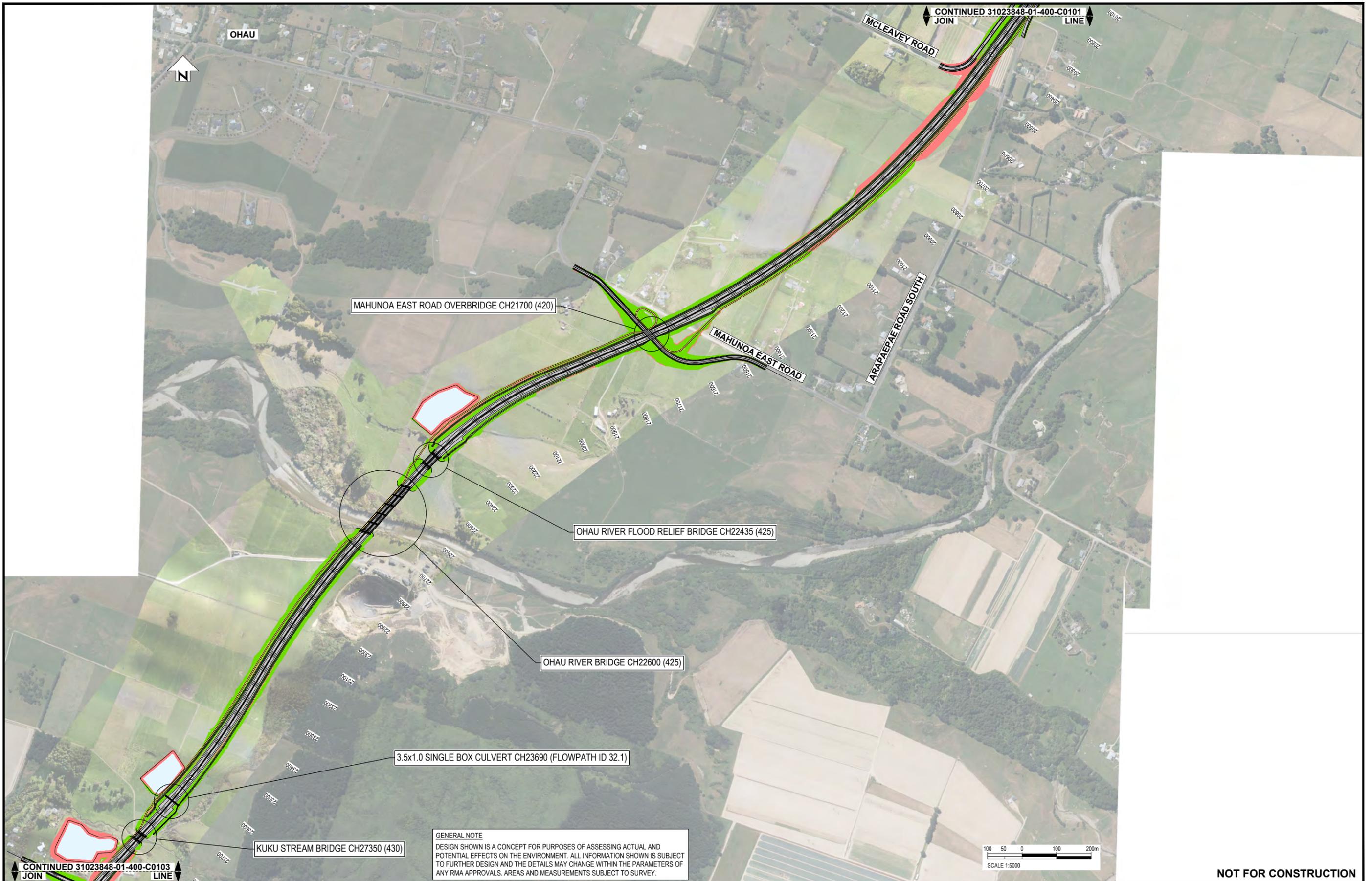
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DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		



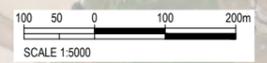
Client: **WAKA KOTAHI**
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 BRIDGE LOCATION PLANS
 SHEET 2 OF 5

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	1 : 5000 (A1) 1 : 10000 (A3)
Drawing No.	310203848-01-400-C0101
Rev.	D

pw:\stntec-ap-pw.bentley.com\stntec-ap-pw-01\Documents\New Zealand Clients\NZTA (New Zealand Transport Agency)\310203848 - Otaki to North of Levin DBC01 - O2NL400 - Structures\310203848-01-400-C0101



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B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
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CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		

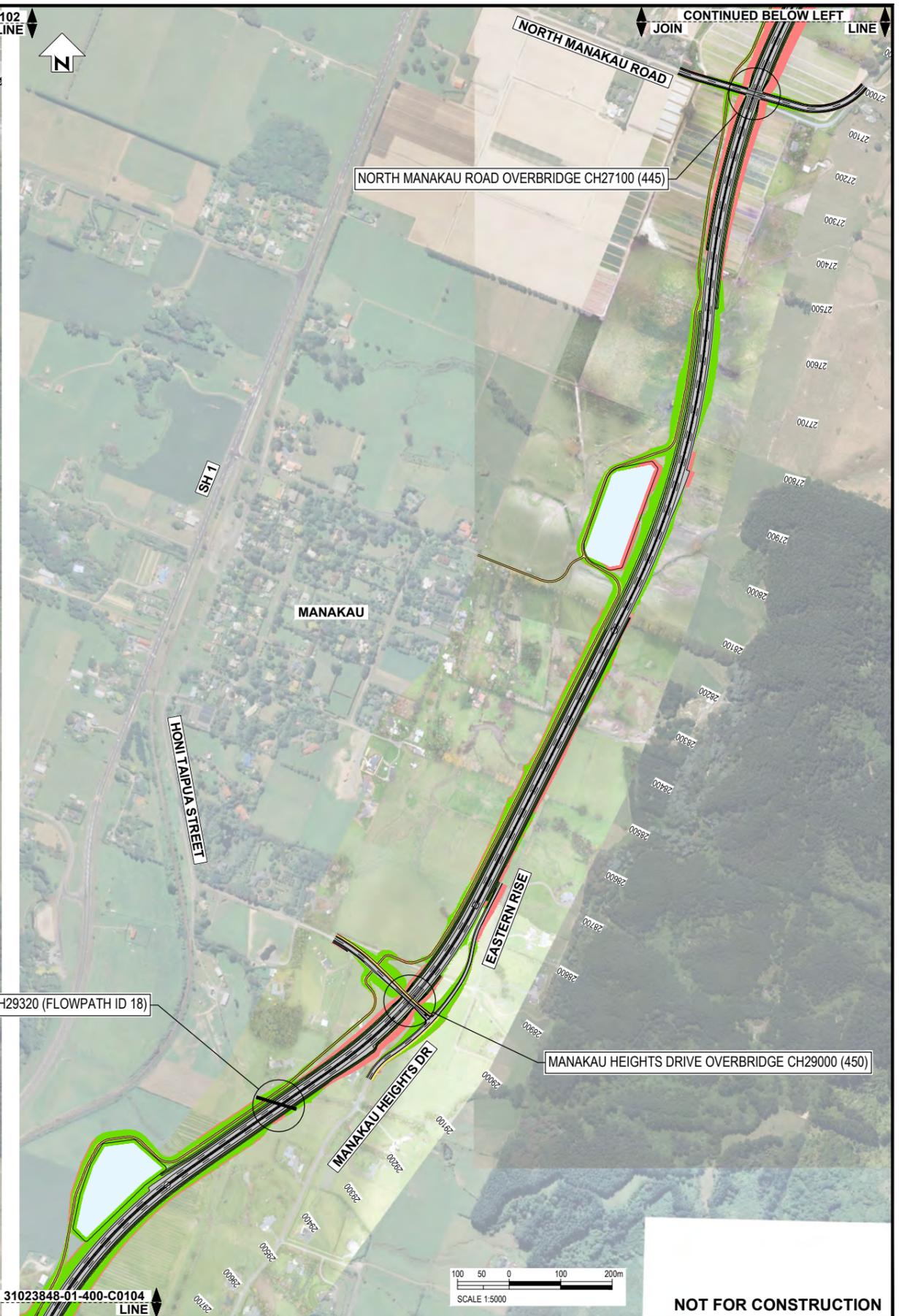


Client: **WAKA KOTAHI**
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

BRIDGE LOCATION PLANS
SHEET 3 OF 5

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	1 : 5000 (A1) 1 : 10000 (A3)
Drawing No.	310203848-01-400-C0102
Rev.	D

Last modified: Feb 22 2021 By Jim Hunt



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NOT FOR CONSTRUCTION

Last modified: Feb 22 2021 By Jim Hunt

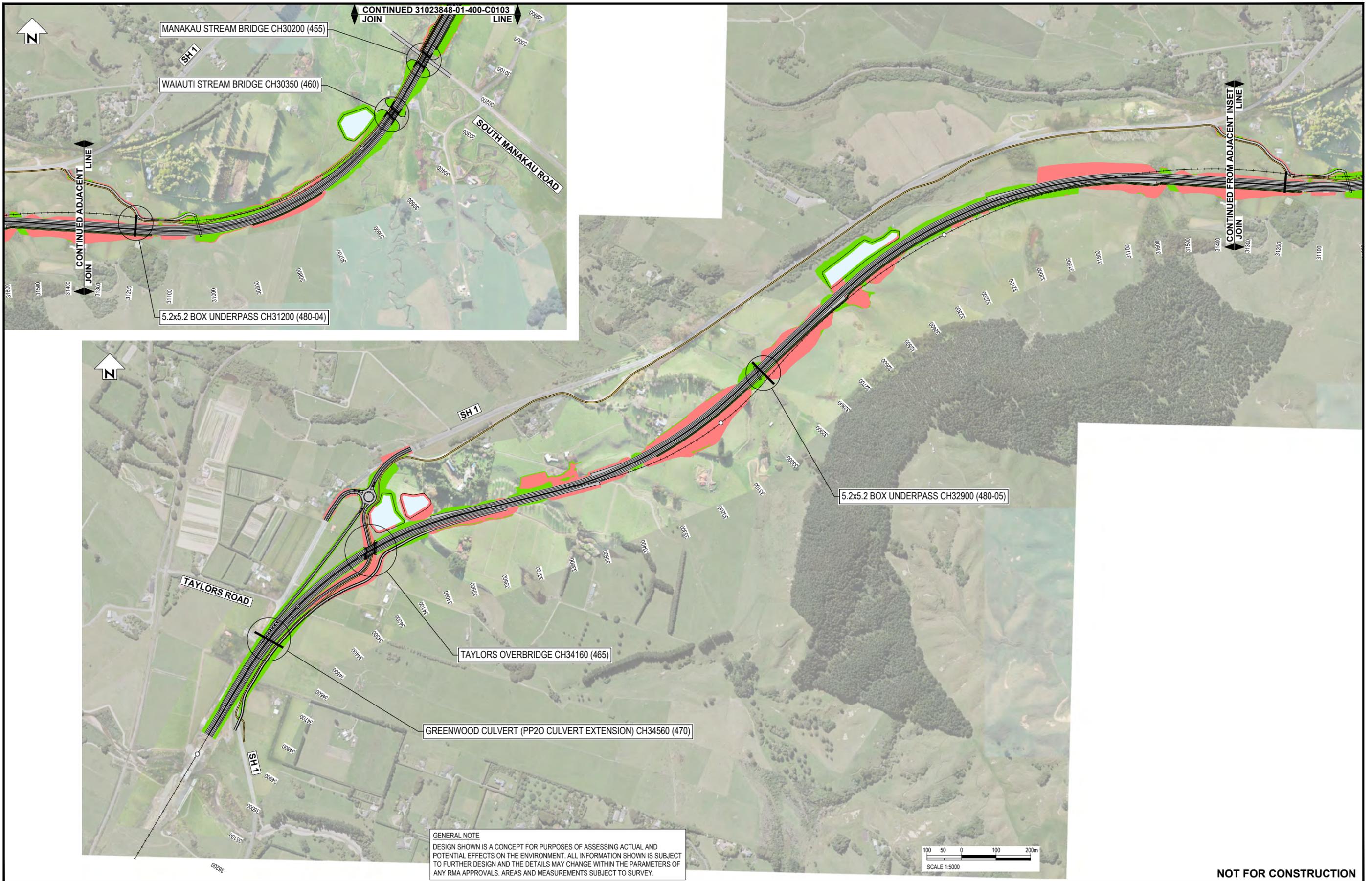
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

DESCRIPTION	NAME	DATE
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client: **WAKA KOTAHI**
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 BRIDGE LOCATION PLANS
 SHEET 4 OF 5

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	1 : 5000 (A1) 1 : 10000 (A3)
Drawing No.	310203848-01-400-C0103
Rev.	D



GENERAL NOTE
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A	ISSUED FOR DBC	JH	JW	JP	18.06.21

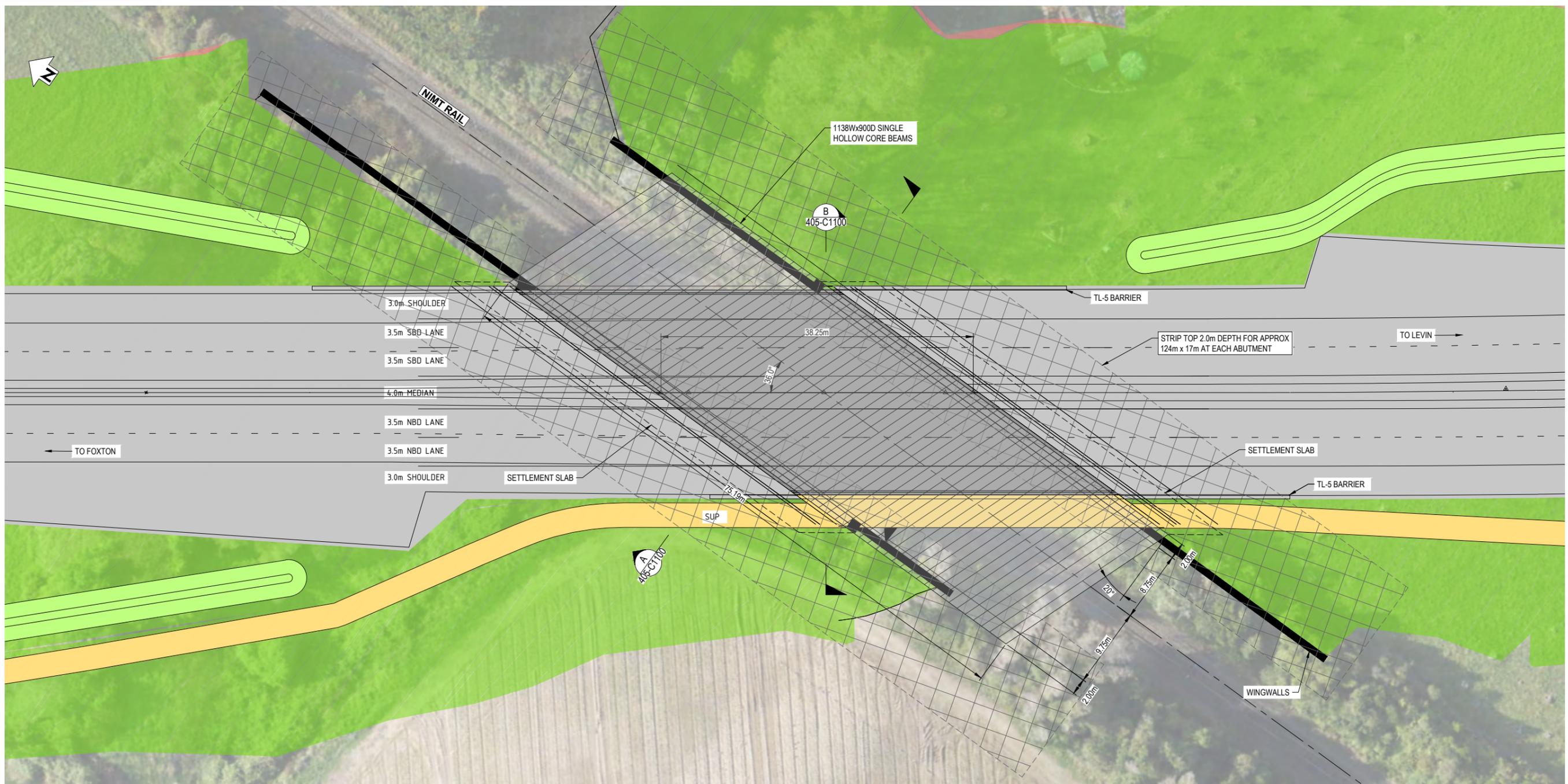
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DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		



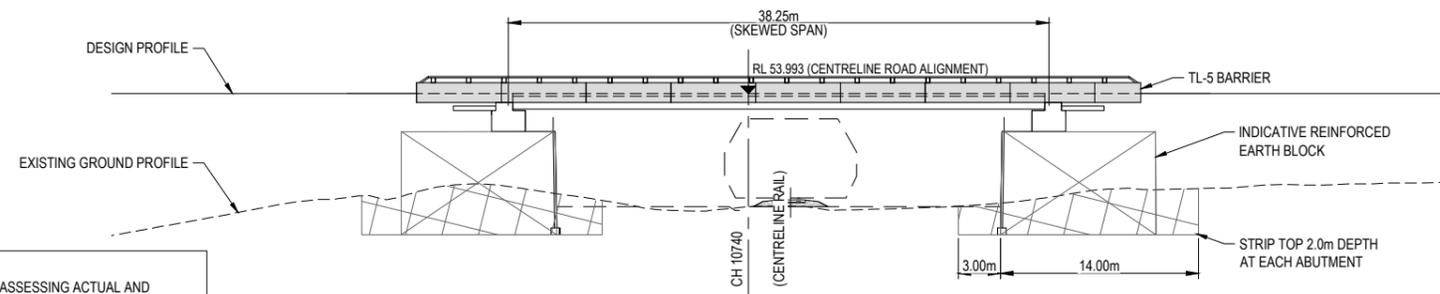
Client: **WAKA KOTAHI**
 OTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 BRIDGE LOCATION PLANS
 SHEET 5 OF 5

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	1 : 5000 (A1) 1 : 10000 (A3)
Drawing No.	310203848-01-400-C0104
Rev.	D

Last modified: Feb 22 2021 By Jim Hunt



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
SCALE 1 : 250 (A1) 1 : 500 (A3)

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B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

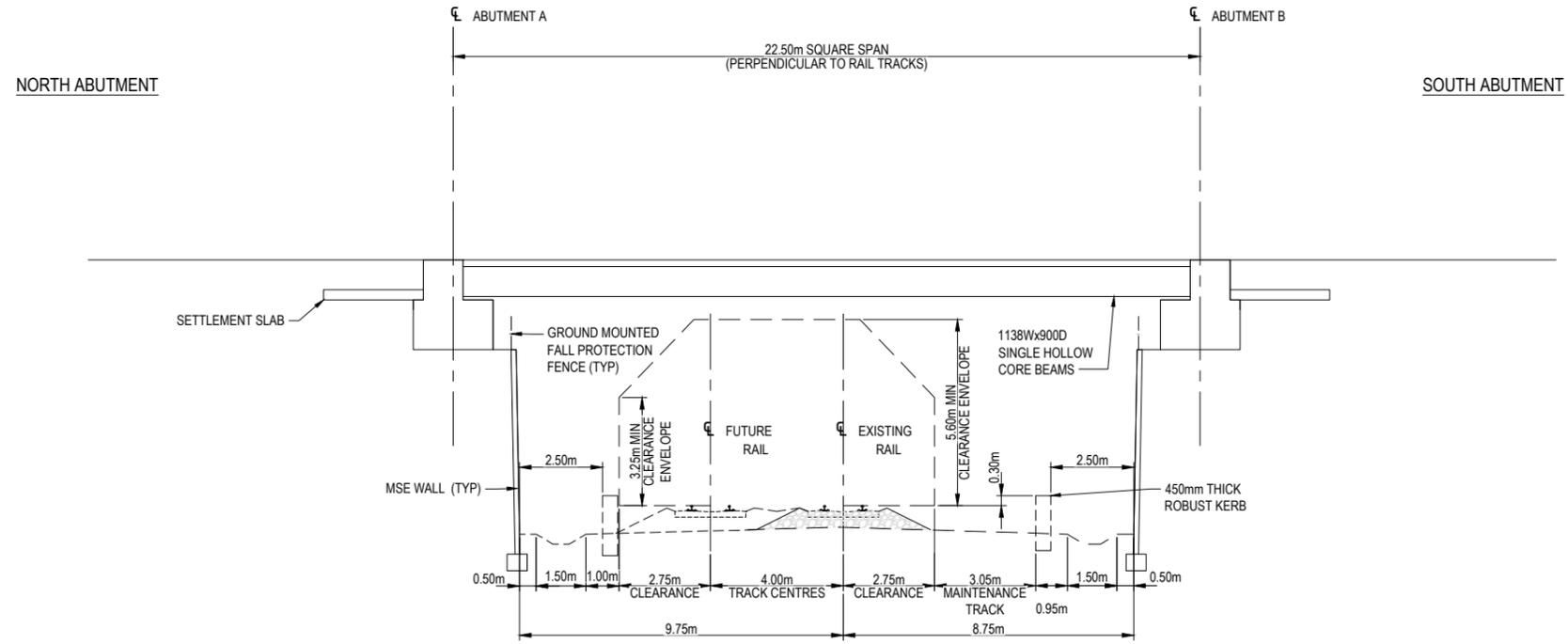
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DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



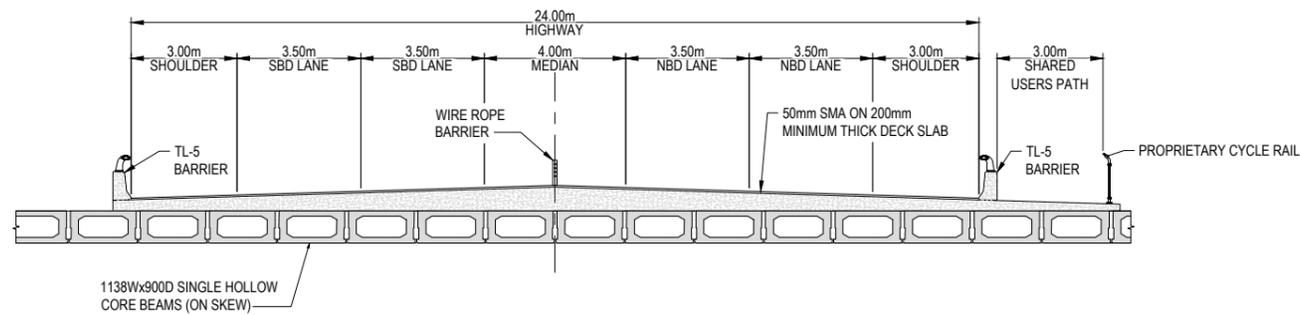
Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
NIMT RAIL OVERBRIDGE (CH10700)
GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-405-C1000
Rev.	D

Last modified: Feb 26 2021, By Jim Hunt



SECTION **A** NIMT RAIL OVERBRIDGE
405-C1000 SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION **B** TYPICAL CROSS SECTION (900 HOLLOWCORE)
405-C1000 SCALE 1 : 100 (A1) 1 : 200 (A3)



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Last modified: Mar 1 2021 By: Jim Hunt

REV	ISSUED FOR	DATE	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	19.08.22	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	19.04.22	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	09.12.21	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	18.06.21	JH	JW	JP	18.06.21
	REVISIONS					

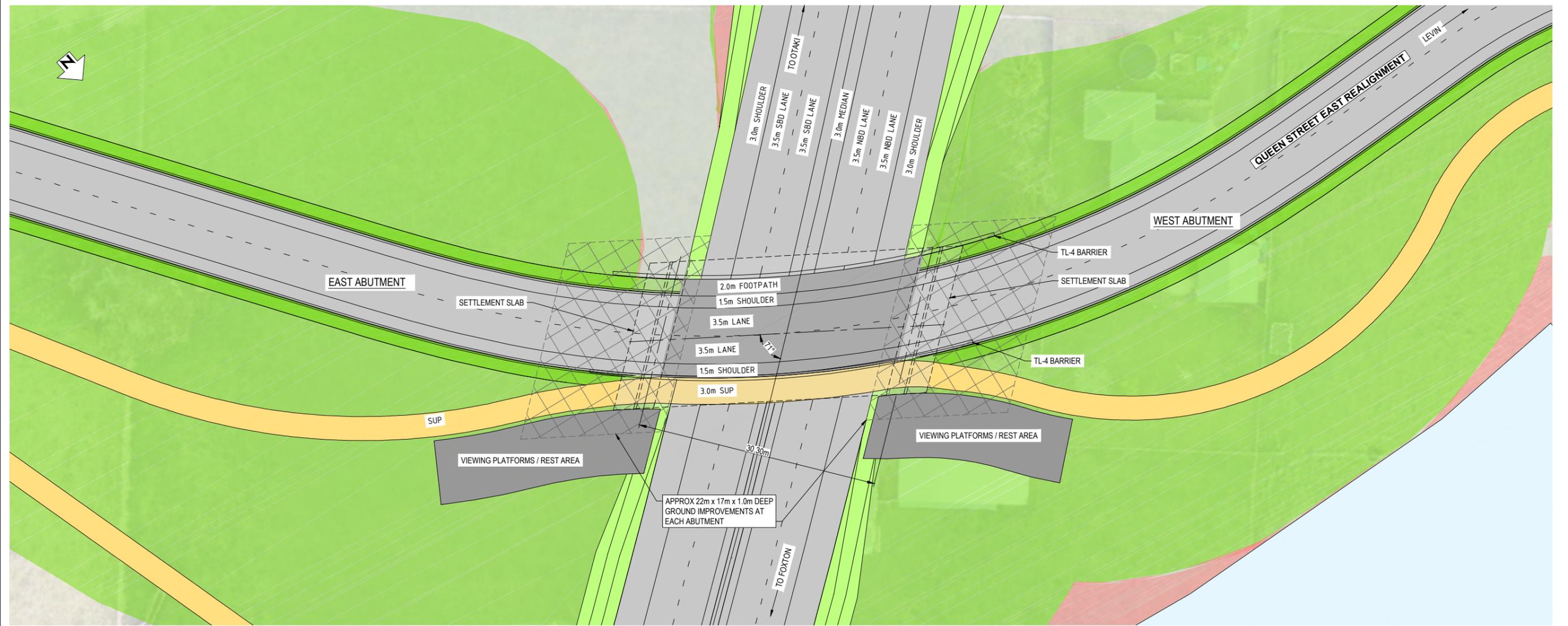
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DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		



Client: WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
NIMT RAIL OVERBRIDGE (CH10700)
ELEVATION AND TYPICAL CROSS SECTION

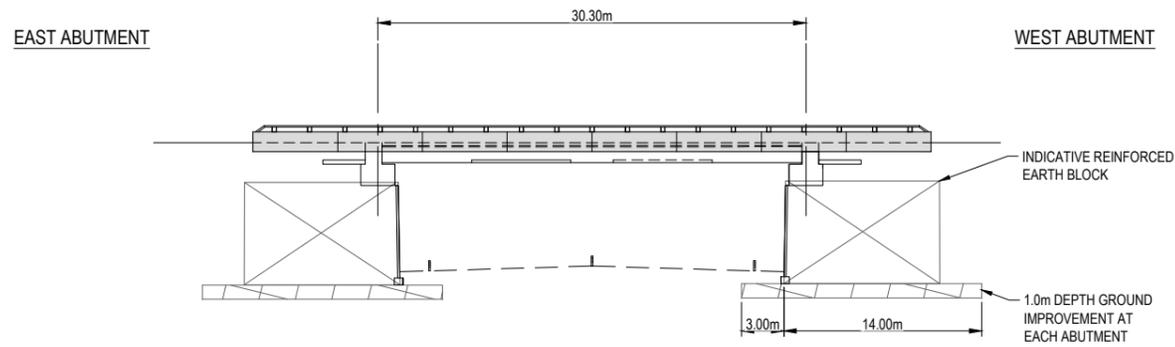
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-405-C1100
Rev.	D

NOT FOR CONSTRUCTION



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)

BRIDGE DESIGN NOTE
 DESIGN CONCEPT IS INDICATIVE.
 SUP MAY BE ON A SEPARATE STRUCTURE TO INCREASE SPACE BETWEEN TRAFFIC AND PEDESTRIANS. SPACE FOR VIEWING PLATFORMS / REST AREAS IS SHOWN AND IS TO BE DEVELOPED



LONG SECTION (CENTRELINE OF BRIDGE)
SCALE 1 : 250 (A1) 1 : 500 (A3)

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A	ISSUED FOR DBC	JH	JW	JP	18.06.21

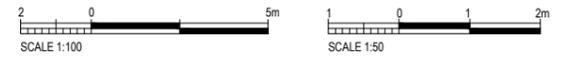
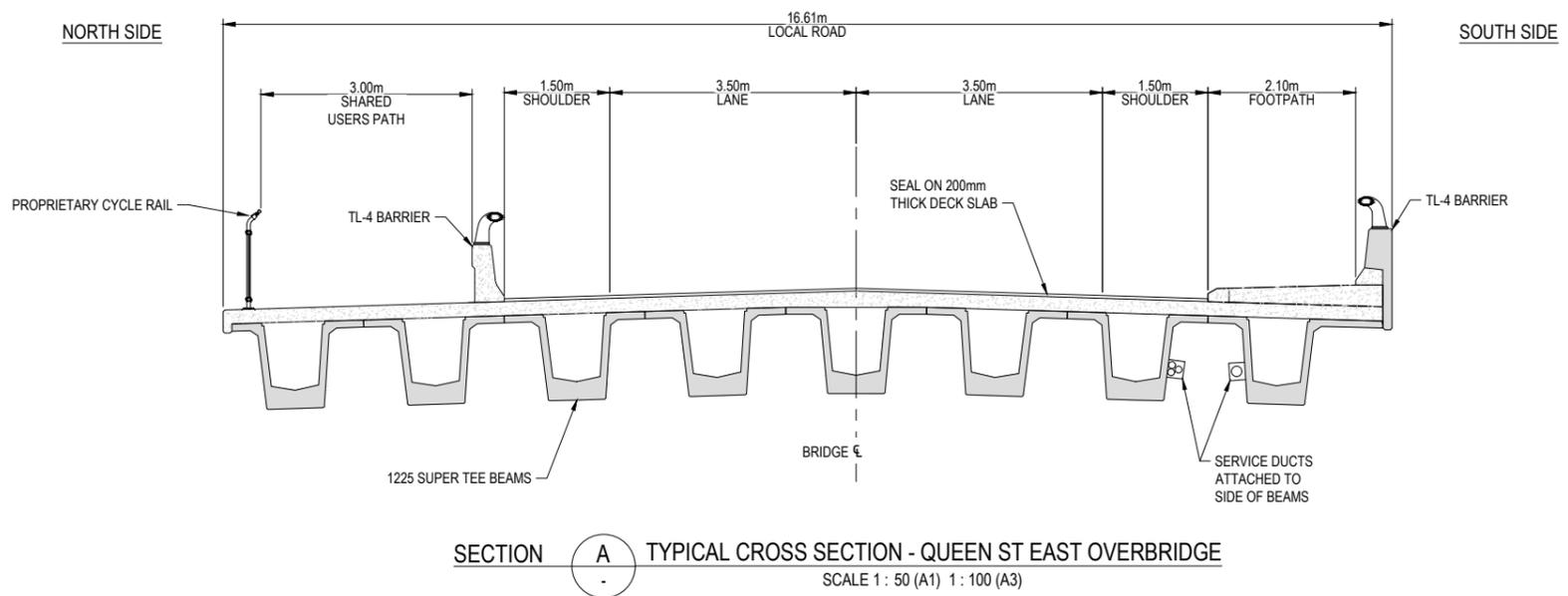
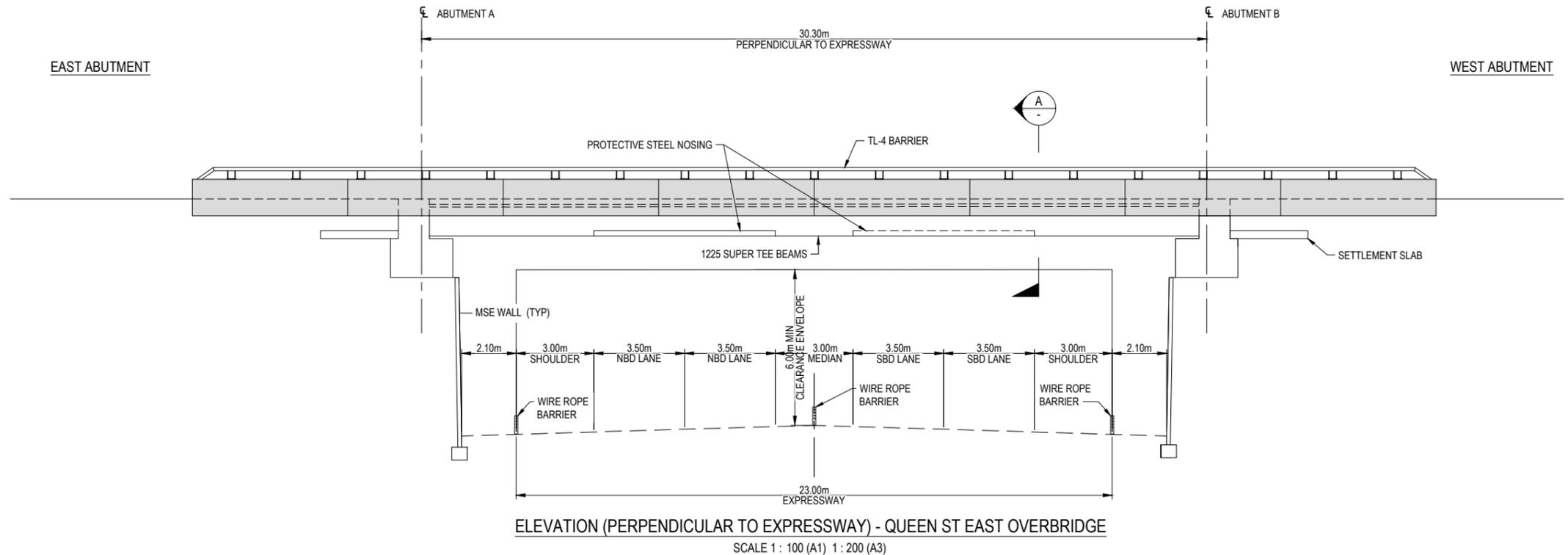
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client:
WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 QUEEN STREET EAST OVERBRIDGE (CH15670)
 GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-410-C1000
Rev.	D

Last modified: Feb 26 2021, By Jim Hunt



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Last modified: Mar 1 2021 By Jim Hunt

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B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

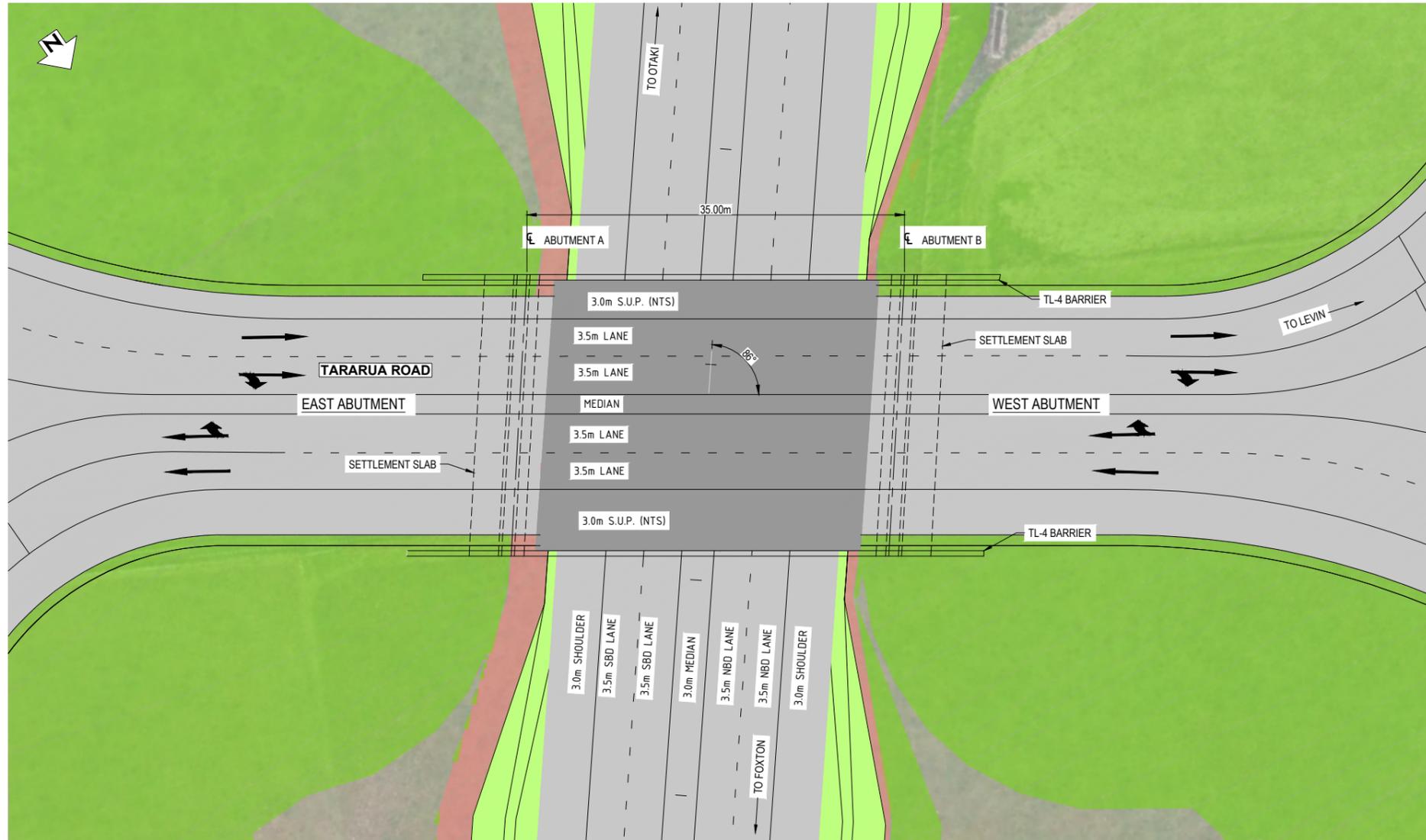
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DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



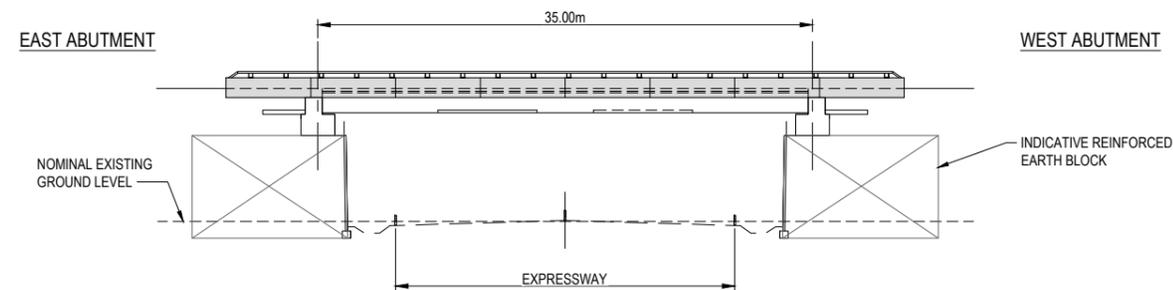
Client: **WAKA KOTAHI**
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
QUEEN STREET EAST OVERBRIDGE (CH15670)
ELEVATION AND TYPICAL CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-410-C1100
Rev.	D

NOT FOR CONSTRUCTION



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
SCALE 1 : 250 (A1) 1 : 500 (A3)



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NOT FOR CONSTRUCTION

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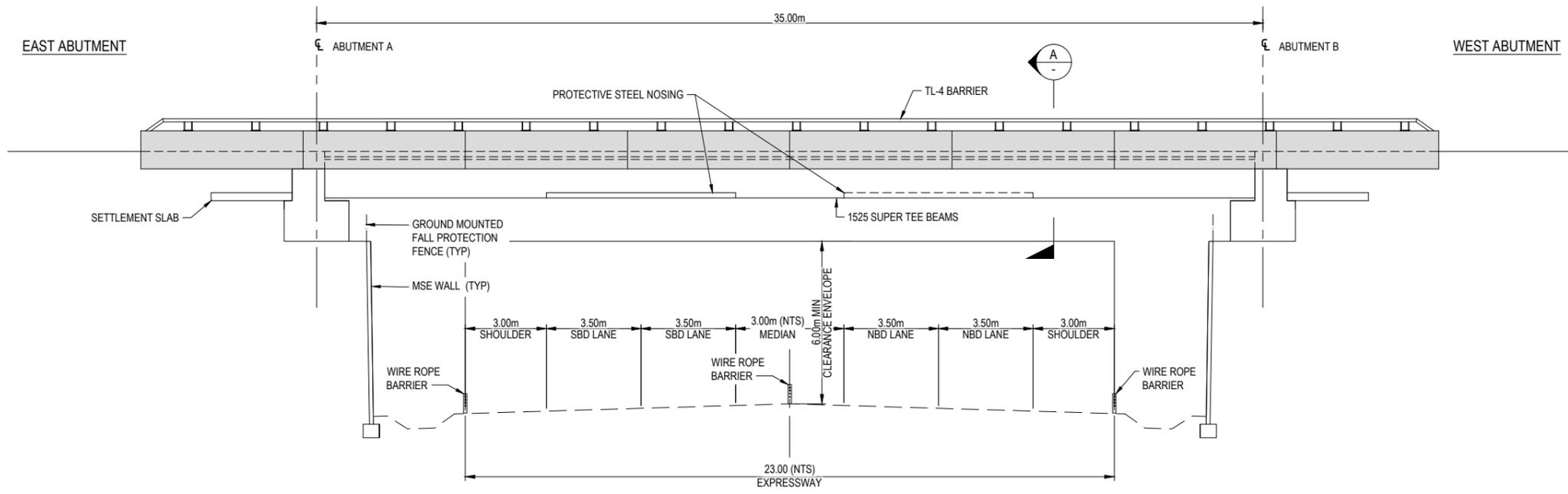
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
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SURVEYED		
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DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

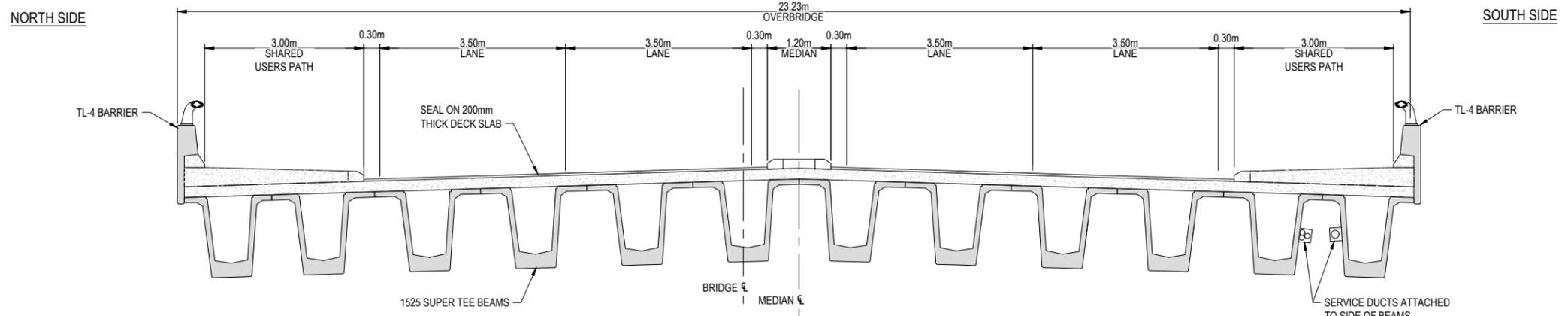


Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
TARARUA ROAD OVERBRIDGE (CH18250)
GA PLAN AND LONG SECTION

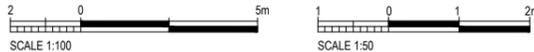
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-415-C1000
Rev.	D



ELEVATION - TARARUA ROAD OVERBRIDGE
SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION A TYPICAL CROSS SECTION - TARARUA RD OVERBRIDGE
SCALE 1 : 100 (A1) 1 : 200 (A3)



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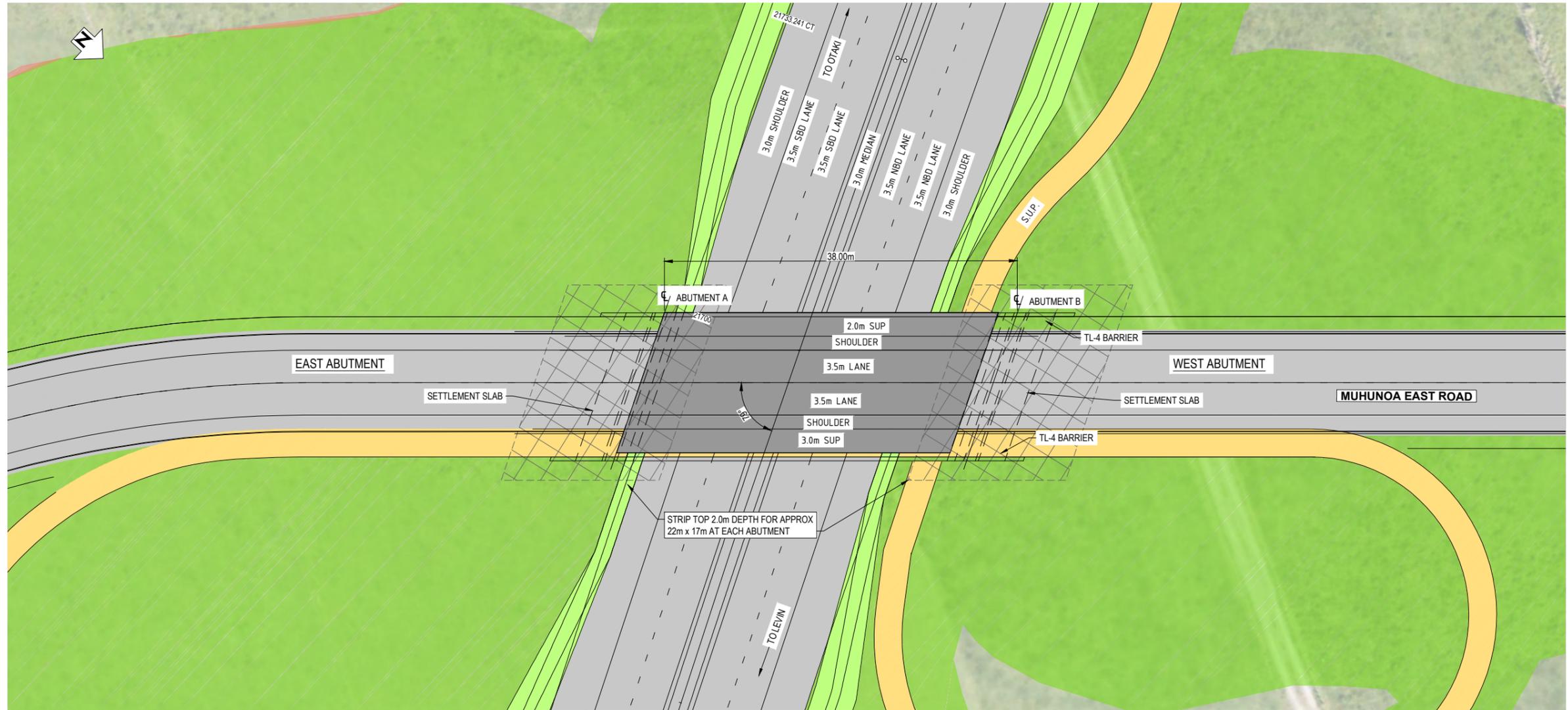
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		



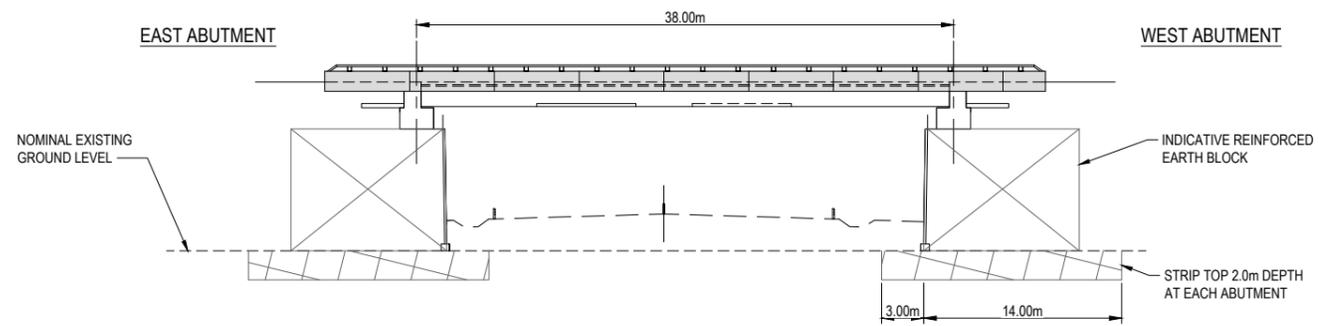
Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

TARARUA ROAD OVERBRIDGE (CH18250)
ELEVATION AND TYPICAL CROSS SECTION

NOT FOR CONSTRUCTION	
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scale	AS SHOWN
Drawing No.	310203848-01-415-C1100
Rev.	D



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
SCALE 1 : 250 (A1) 1 : 500 (A3)



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A	ISSUED FOR DBC	JH	JW	JP	18.06.21

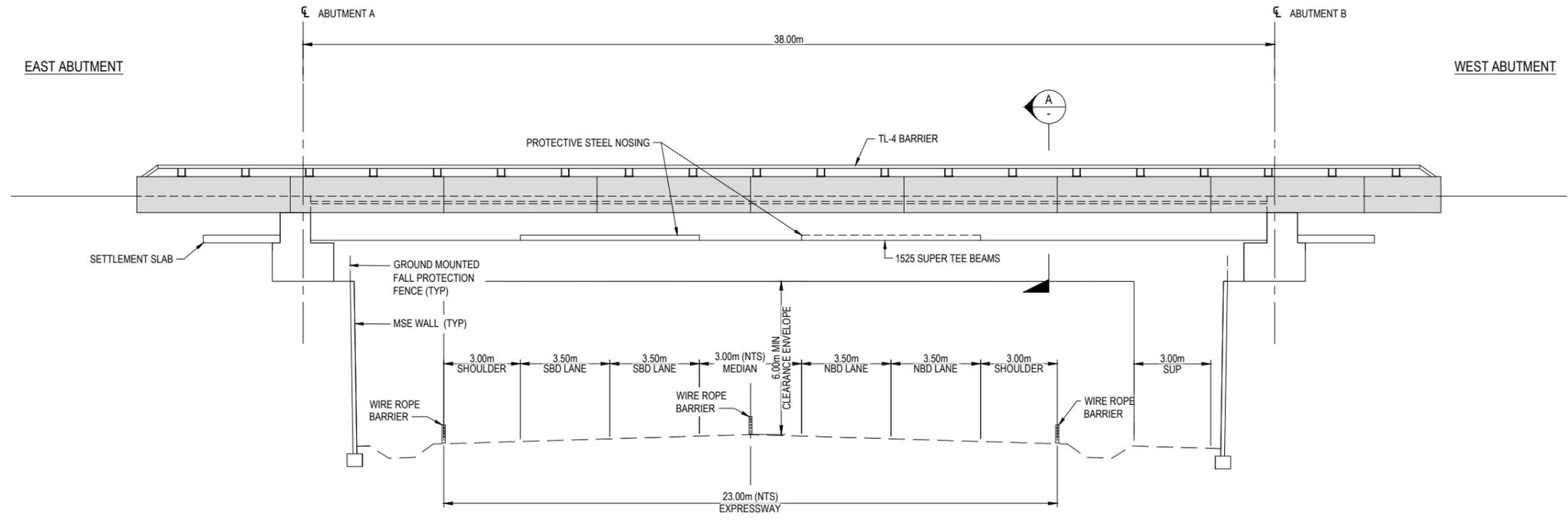
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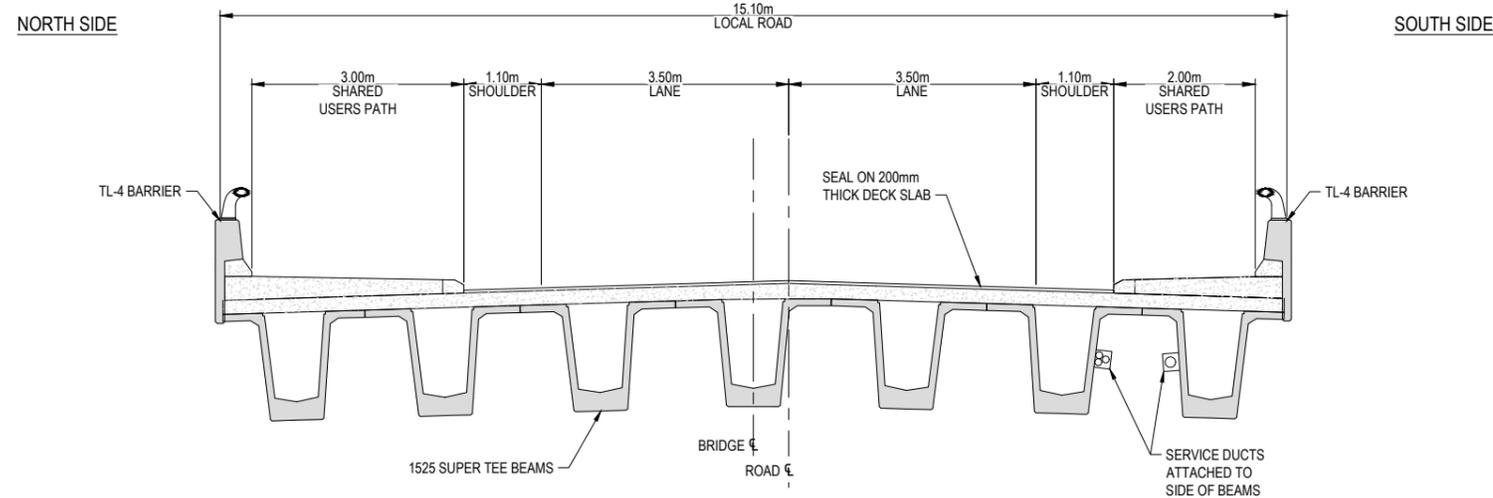
Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
MUHUNUA EAST ROAD OVERBRIDGE (CH21500)
GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-420-C1000
Rev.	D

Last modified: Feb 26 2021, By Jim Hunt



ELEVATION - MUHUNOA EAST ROAD OVERBRIDGE
SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION A TYPICAL CROSS SECTION (SUPER TEE)
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.

Last modified: Mar 1 2021 By: Jim Hunt

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
MUHUNOA EAST ROAD OVERBRIDGE (CH21500)
ELEVATION AND TYPICAL CROSS SECTION

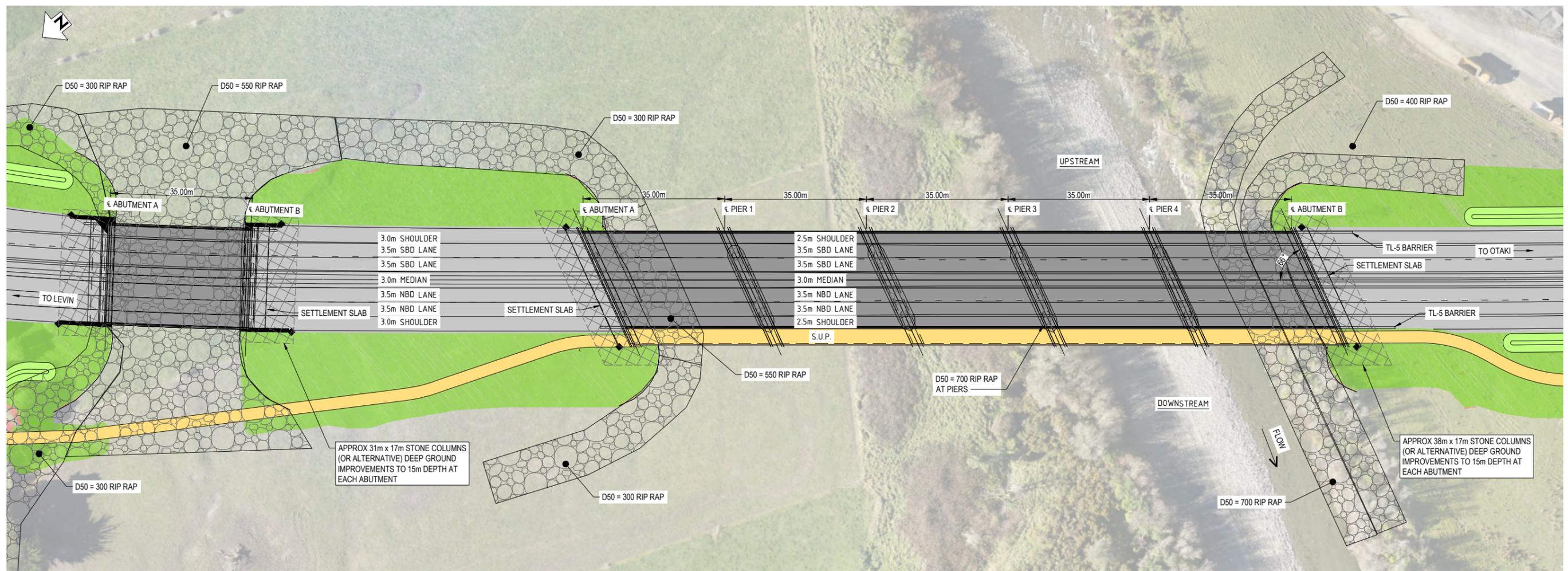
NOT FOR CONSTRUCTION

Status Stamp
FOR CONSENT

Date Stamp
19.08.22

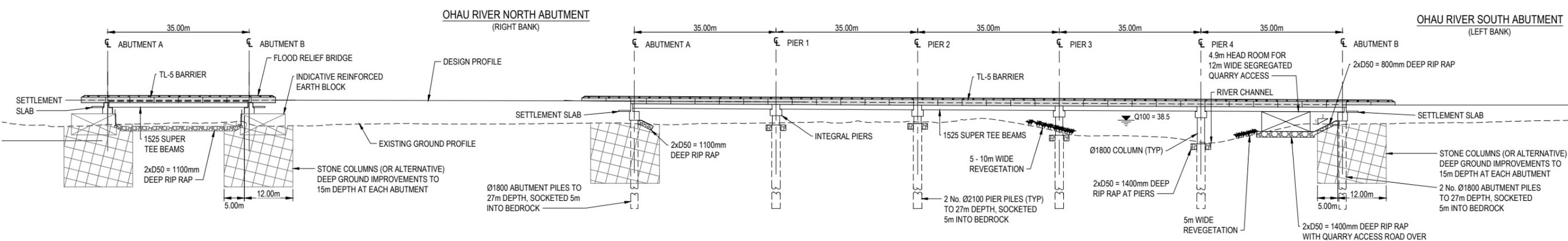
Scales AS SHOWN

Drawing No. 310203848-01-420-C1100
Rev. **D**



RIP RAP NOTE
 DESIGN AND EXTENT OF RIP RAP TO BE CONFIRMED.
 REFER TO DRAINAGE DRAWINGS 310203848-01-300-C1000 SERIES.

PLAN
 SCALE 1 : 500 (A1) 1 : 1000 (A3)



GENERAL NOTE
 DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.

LONG SECTION
 SCALE 1 : 500 (A1) 1 : 1000 (A3)

NOT FOR CONSTRUCTION

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

DESCRIPTION	NAME	DATE
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

Client: **WAKA KOTAHI NZ TRANSPORT AGENCY**

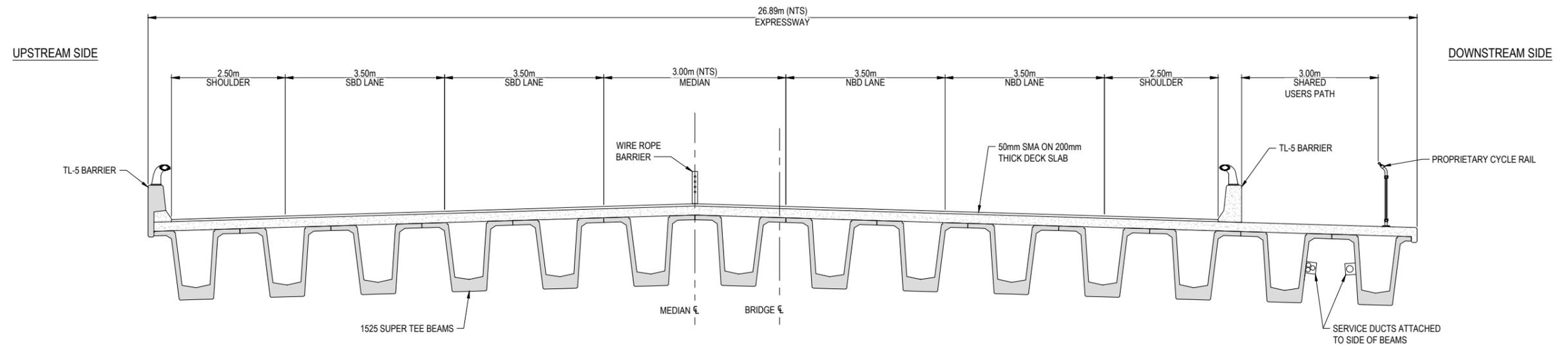
Stantec

WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

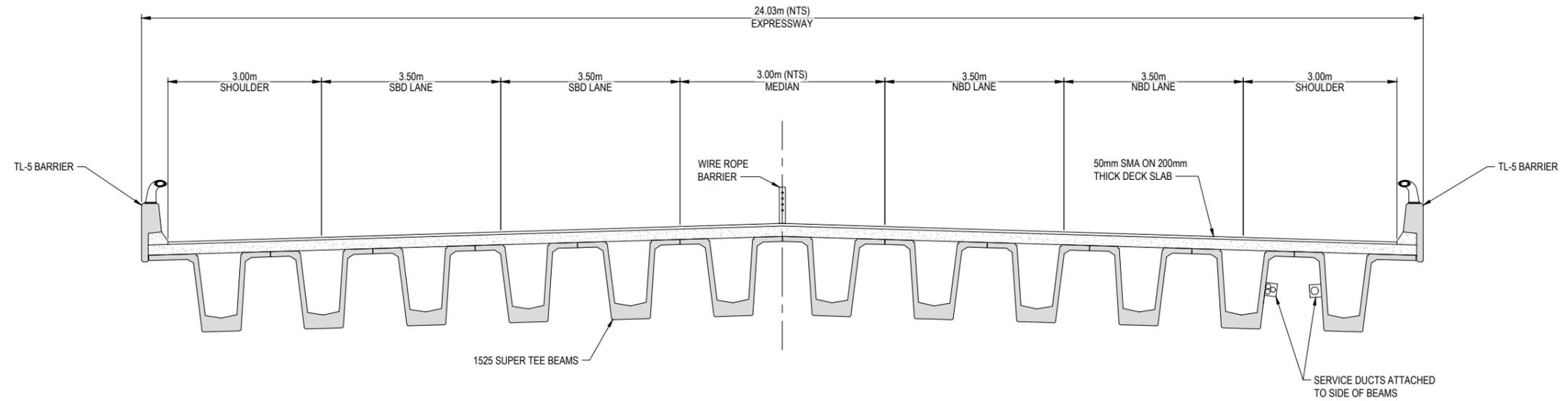
OHAU RIVER BRIDGE (CH22600)
 GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-425-C1000
Rev.	D

Last modified: Feb 26 2021 By Jim Hunt



TYPICAL CROSS SECTION - OHAU RIVER BRIDGE
SCALE 1 : 50 (A1) 1 : 100 (A3)



TYPICAL CROSS SECTION - OHAU RIVER FLOOD RELIEF BRIDGE
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
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Last modified: Feb 26 2021, By Jim Hunt

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
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A	ISSUED FOR DBC	JH	JW	JP	18.06.21

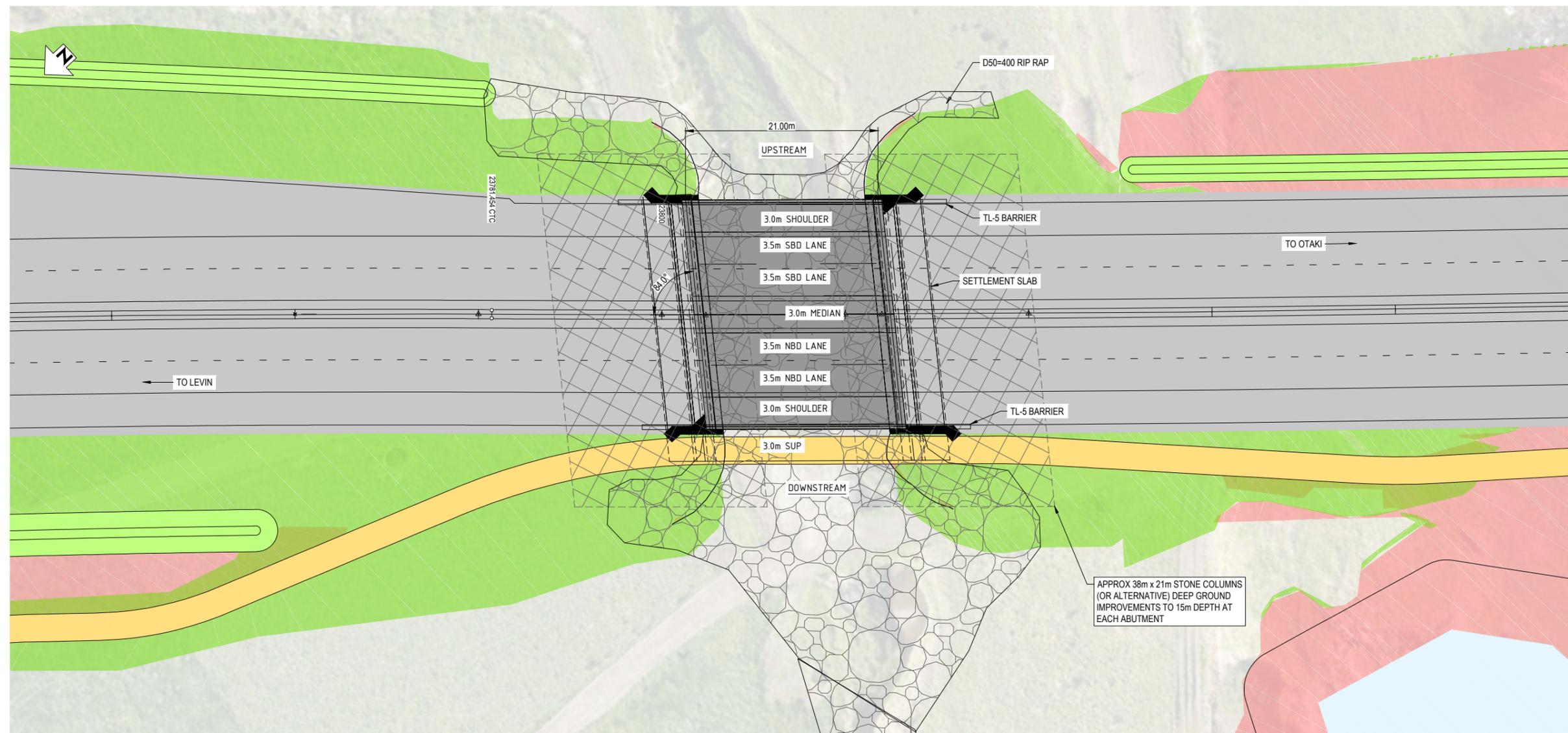
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
OHAU RIVER BRIDGE (CH22600)
TYPICAL CROSS SECTION

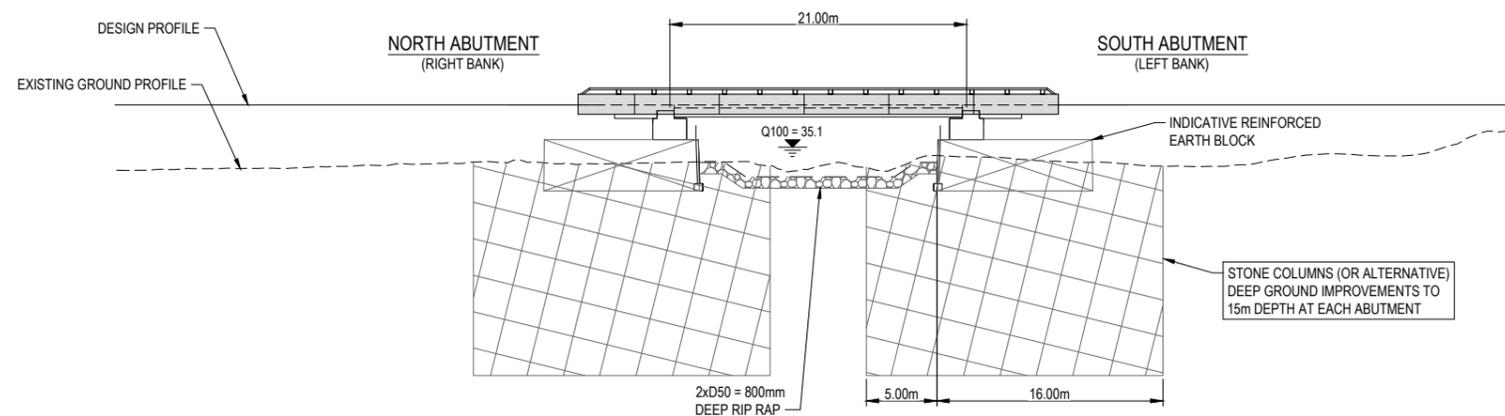
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-425-C1100
Rev.	D

NOT FOR CONSTRUCTION



RIP RAP NOTE
 DESIGN AND EXTENT OF RIP RAP TO BE CONFIRMED.
 REFER TO DRAINAGE DRAWINGS 310203848-01-300-C1000 SERIES.

PLAN
 SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
 SCALE 1 : 250 (A1) 1 : 500 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION

Last modified: Feb 26 2021, By Jim Hunt

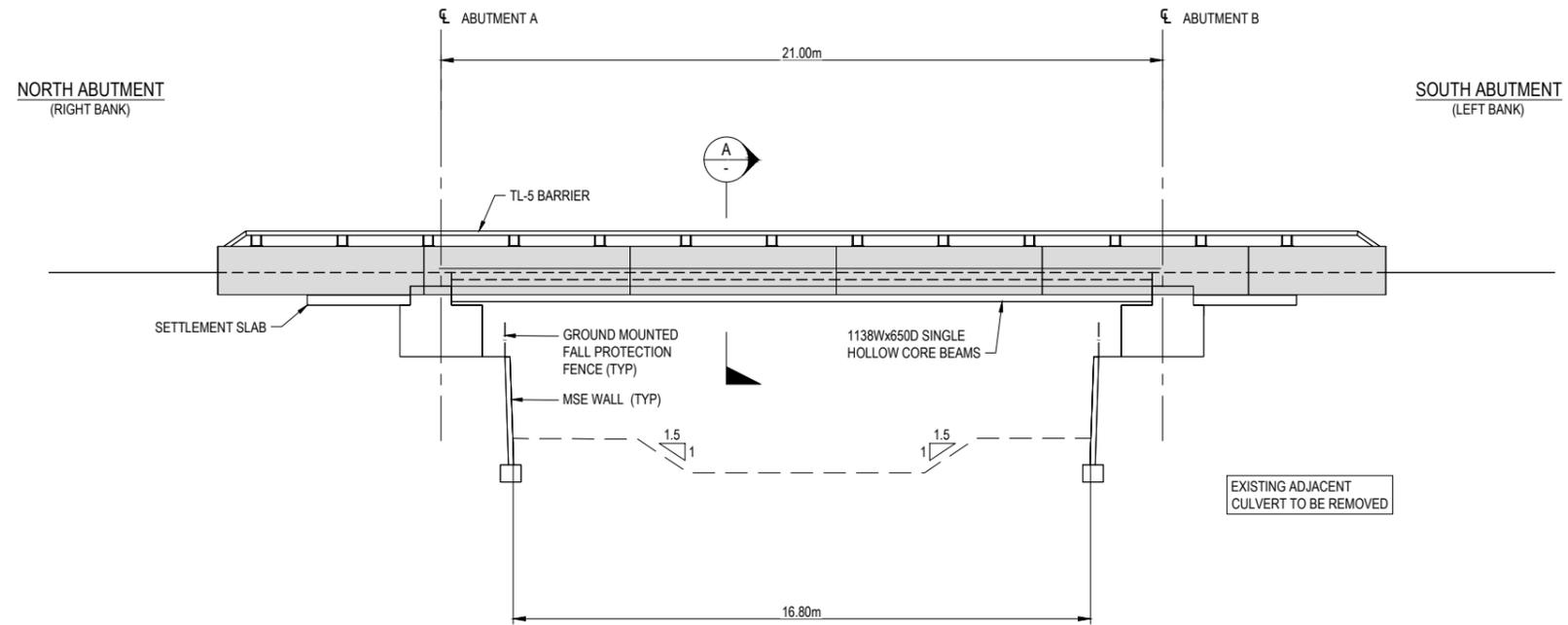
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED	DESIGNED	DRAWN	CAD REVIEW	DESIGN CHECK	DESIGN REVIEW	APPROVED
	Nghia Dinh	Jim Hunt	Gavin Smit	Alec Glover	Jeremy Walters	Jamie Povall

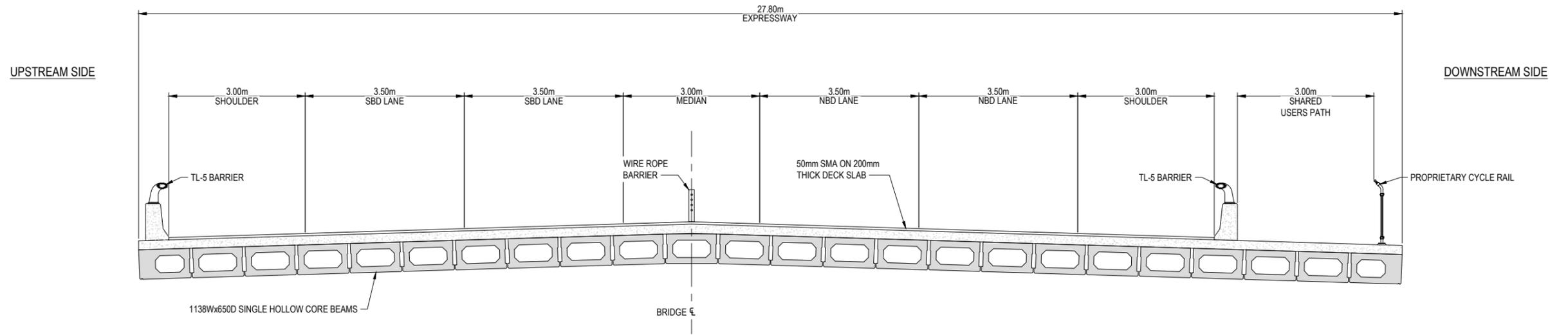


WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 KUKU STREAM BRIDGE (CH23820)
 GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-430-C1000
Rev.	D



ELEVATION - KUKU STREAM BRIDGE
 SCALE 1 : 100 (A1) 1 : 200 (A3)
 (SCOUR PROTECTION NOT SHOWN IN THIS VIEW FOR CLARITY)



SECTION A TYPICAL CROSS SECTION (650 HOLLOWCORE) - KUKU STREAM BRIDGE
 SCALE 1 : 50 (A1) 1 : 100 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION

Last modified: Mar 1 2021 By Jim Hunt

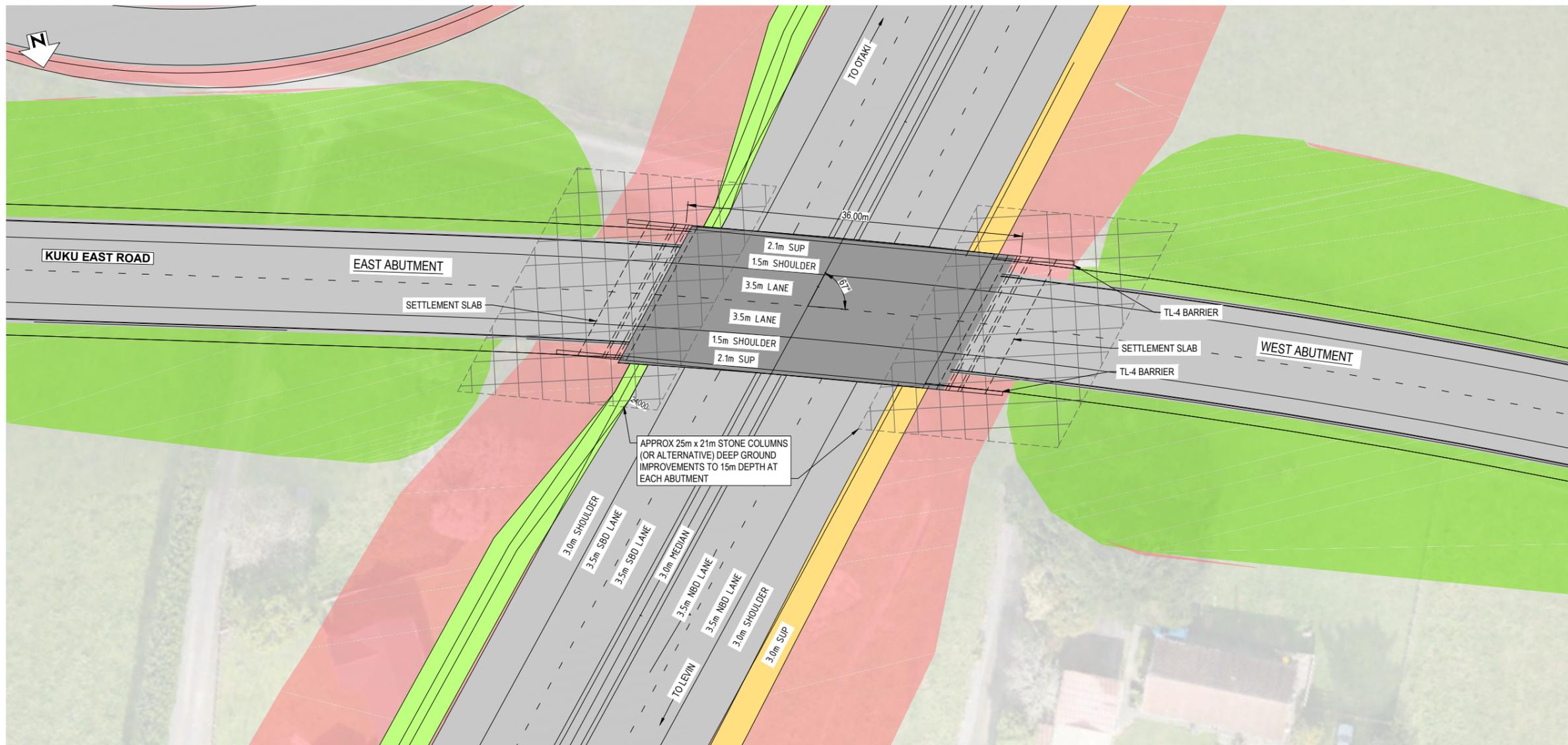
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D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

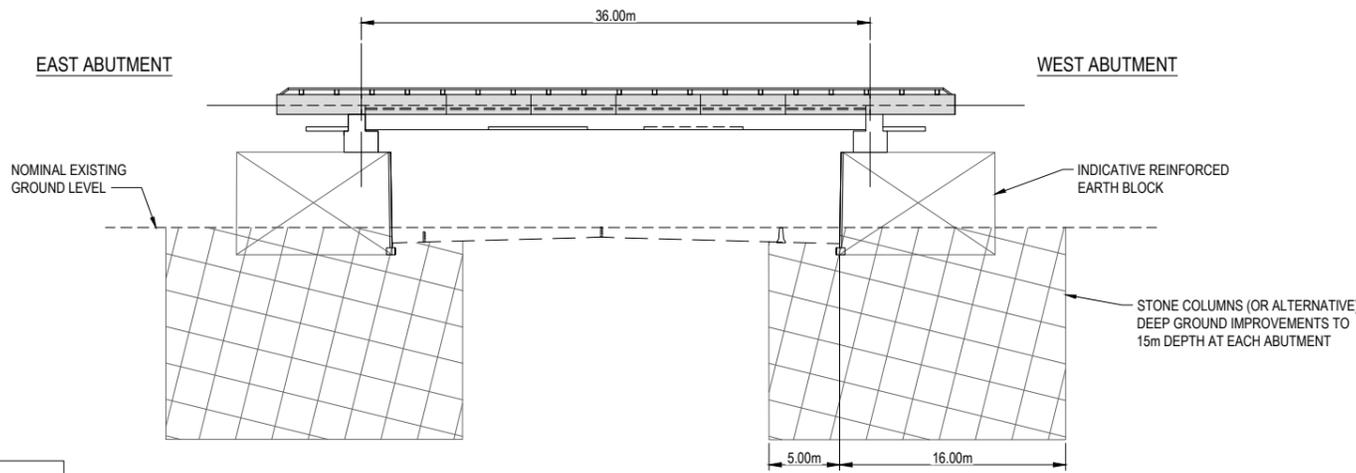


Client: **WAKA KOTAHI**
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 KUKU STREAM BRIDGE (CH23820)
 ELEVATION AND TYPICAL CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-430-C1100
Rev.	D



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION (CENTRELINE OF BRIDGE)
SCALE 1 : 250 (A1) 1 : 500 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION

REV	DESCRIPTION	DRN	CHK	APP	DATE
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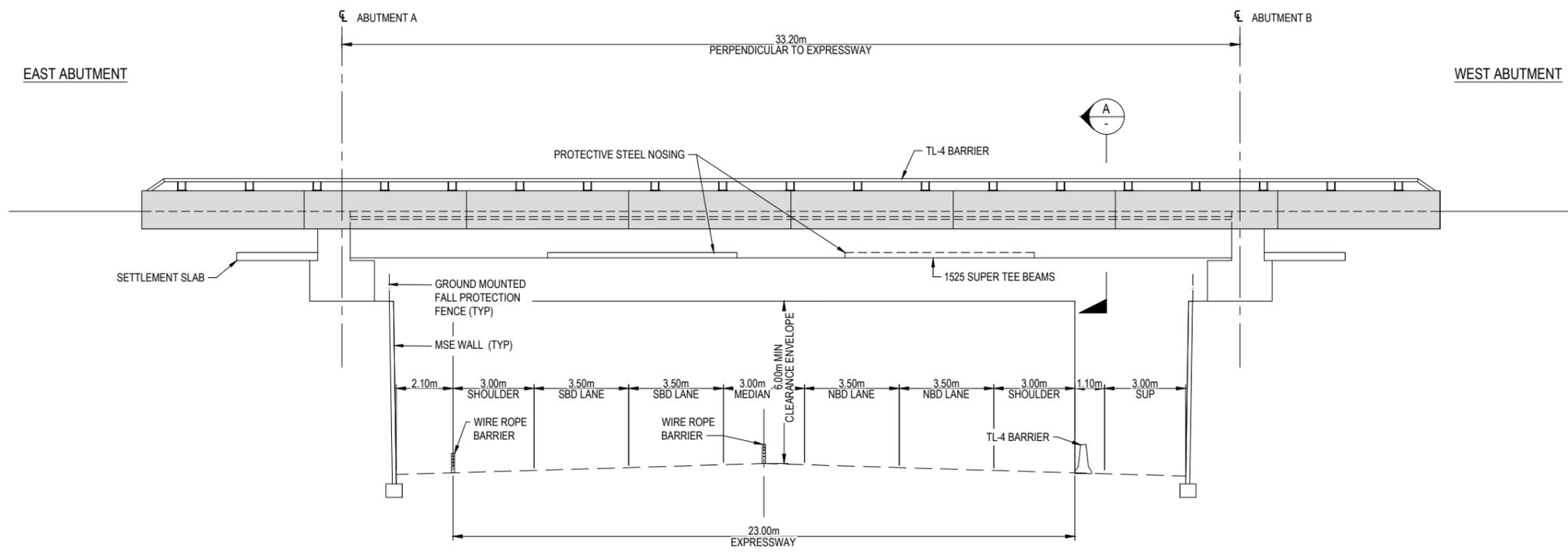
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



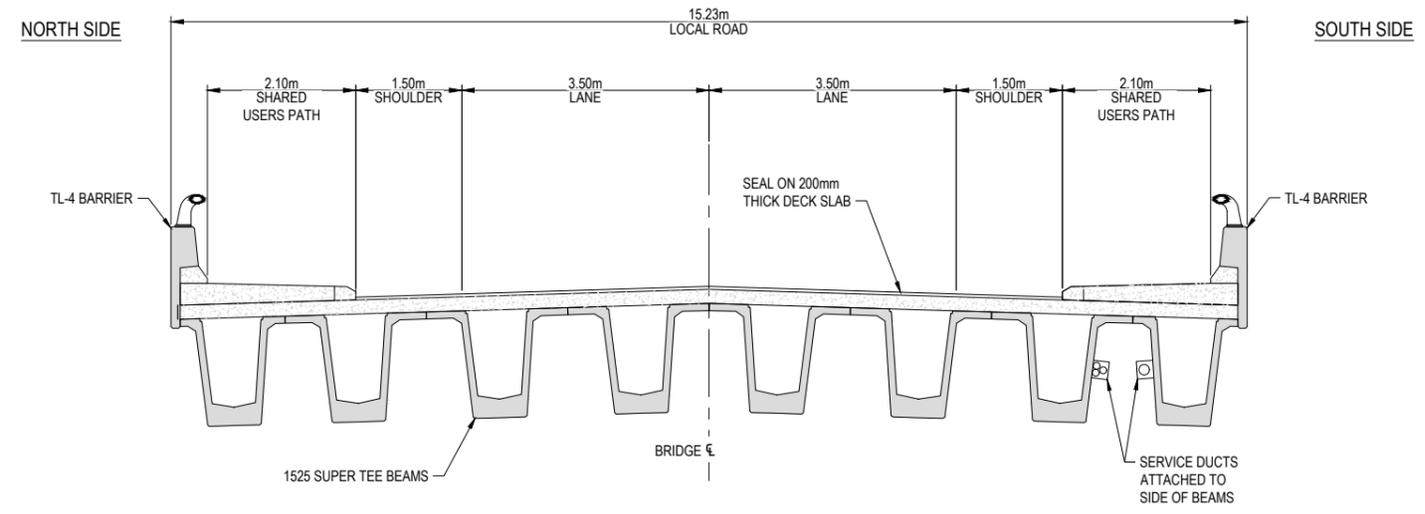
Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
KUKU EAST ROAD OVERBRIDGE (CH24000)
GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-435-C1000
Rev.	D

Last modified: Feb 26 2021, By Jim Hunt

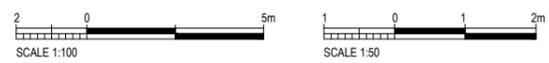


ELEVATION (PERPENDICULAR TO EXPRESSWAY) - KUKU EAST ROAD OVERBRIDGE
SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION A TYPICAL CROSS SECTION (SUPER TEE)
SCALE 1 : 50 (A1) 1 : 100 (A3)

GENERAL NOTE
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Last modified: Mar 1 2021 By: Jim Hunt

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

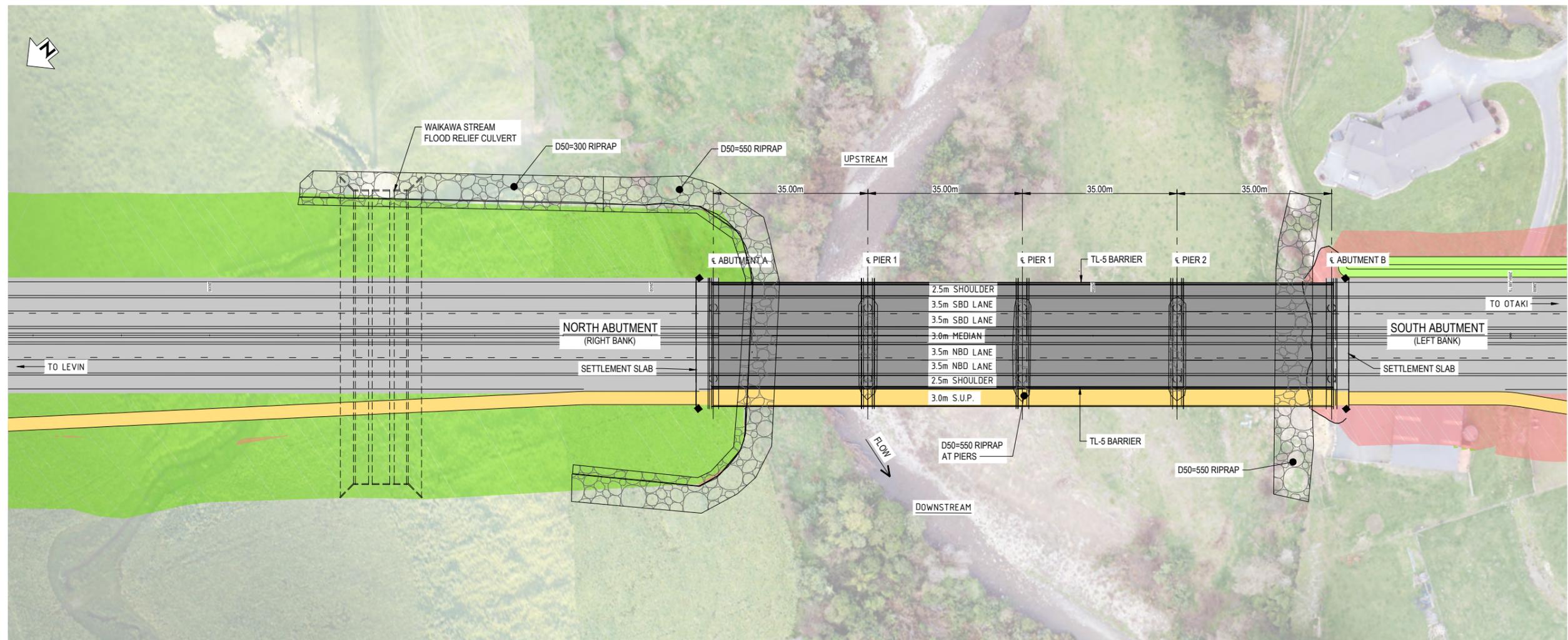
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DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client: WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
KUKU EAST ROAD OVERBRIDGE (CH24000)
ELEVATION AND TYPICAL CROSS SECTION

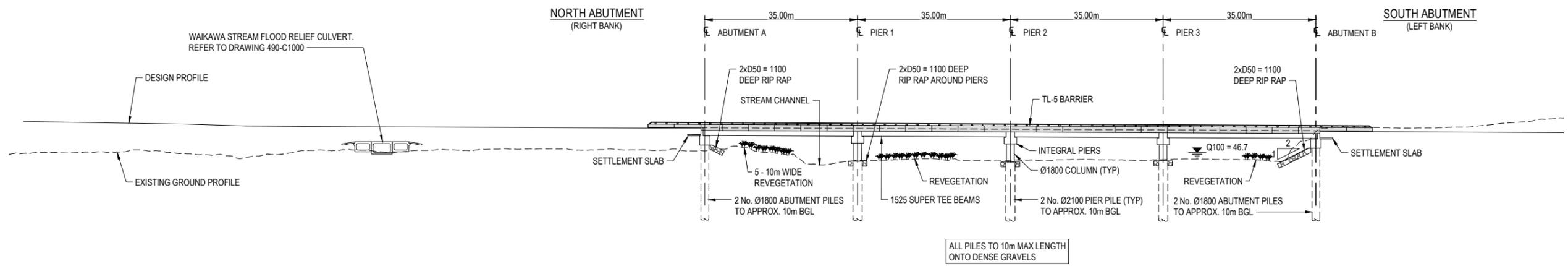
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-435-C1100
Rev.	D

NOT FOR CONSTRUCTION



PLAN
SCALE 1 : 500 (A1) 1 : 1000 (A3)

RIP RAP NOTE
DESIGN AND EXTENT OF RIP RAP TO BE CONFIRMED.
REFER TO DRAINAGE DRAWINGS 310203848-01-300-C1000 SERIES.



LONG SECTION
SCALE 1 : 500 (A1) 1 : 1000 (A3)

GENERAL NOTE
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SCALE 1:500

NOT FOR CONSTRUCTION

Last modified: Feb 26 2021 By Jim Hunt

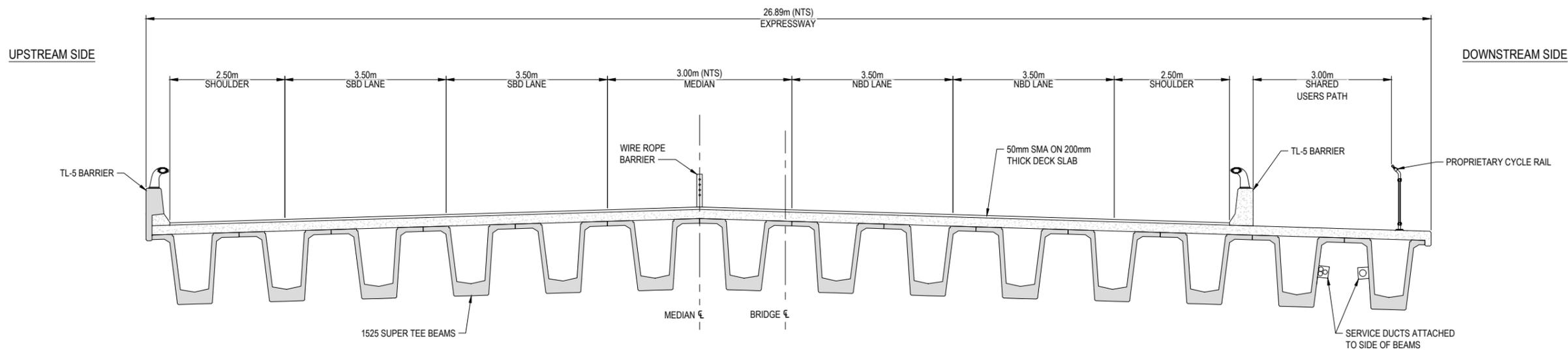
REV	REVISIONS	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED	DESIGNED	DRAWN	CAD REVIEW	DESIGN CHECK	DESIGN REVIEW	APPROVED
	Nghia Dinh	Jim Hunt	Gavin Smit	Alec Glover	Jeremy Walters	Jamie Povall



Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
WAIKAWA STREAM BRIDGE (CH26500)
GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-440-C1000
Rev.	D



TYPICAL CROSS SECTION - WAIKAWA STREAM BRIDGE
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
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Last modified: Feb 26 2021 By Jim Hunt

REV	REVISIONS	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

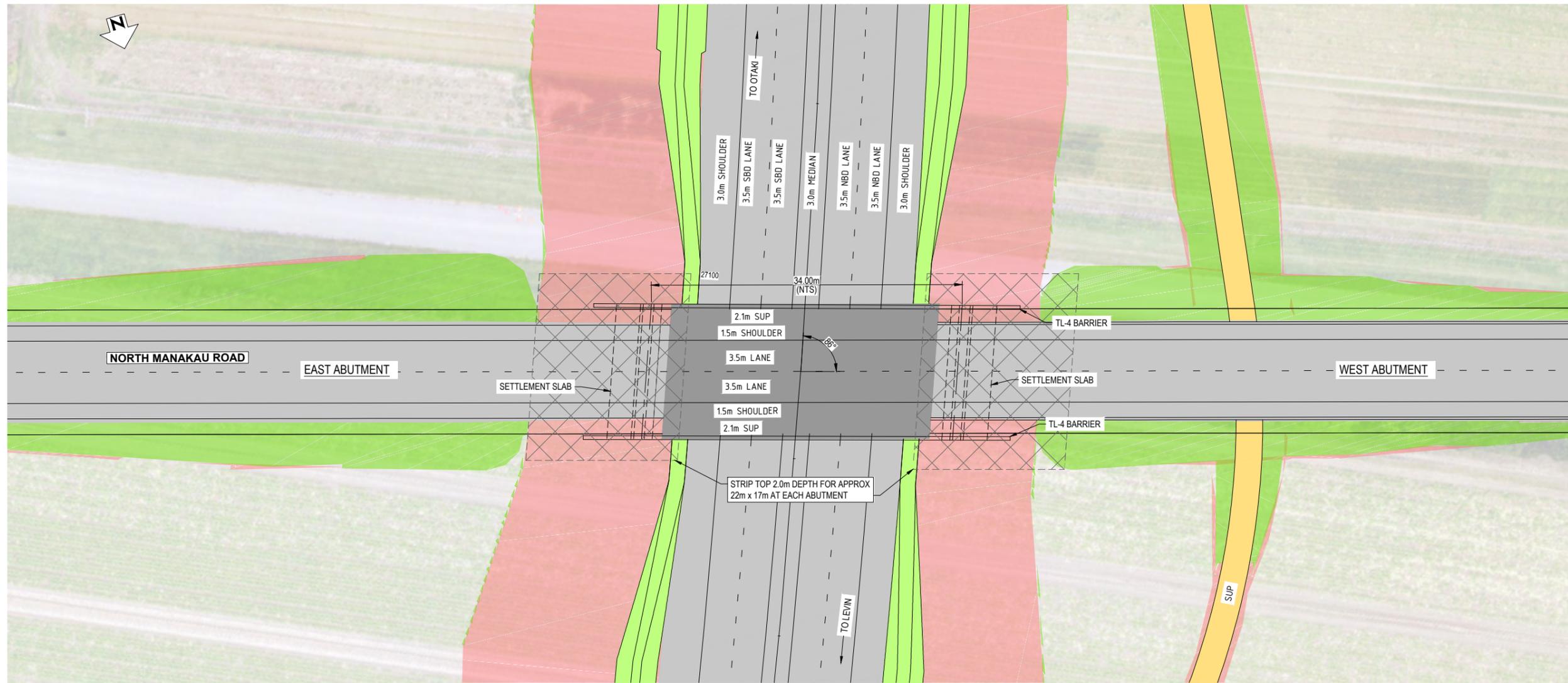


Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

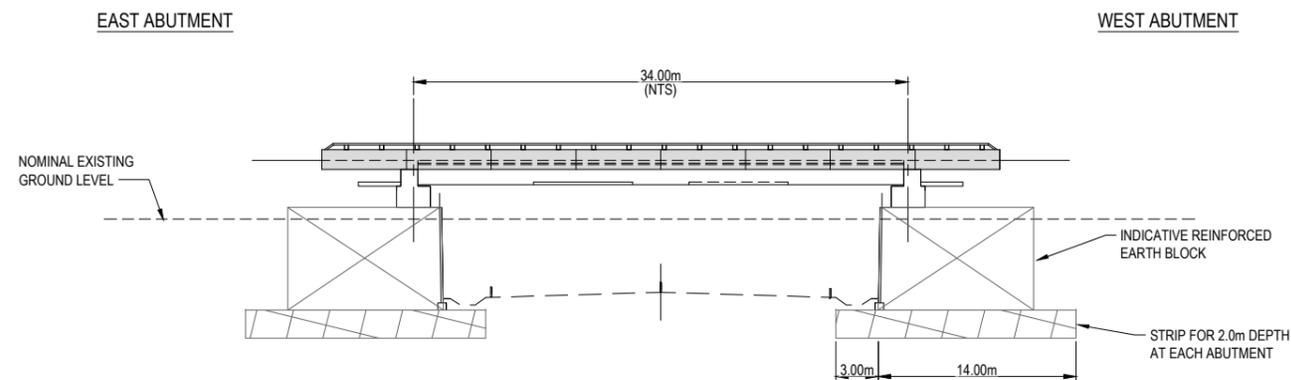
WAIKAWA STREAM BRIDGE (CH26500)
TYPICAL CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-440-C1100
Rev.	D

NOT FOR CONSTRUCTION



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
SCALE 1 : 250 (A1) 1 : 500 (A3)



GENERAL NOTE
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Last modified: Feb 26 2021, By Jim Hunt

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
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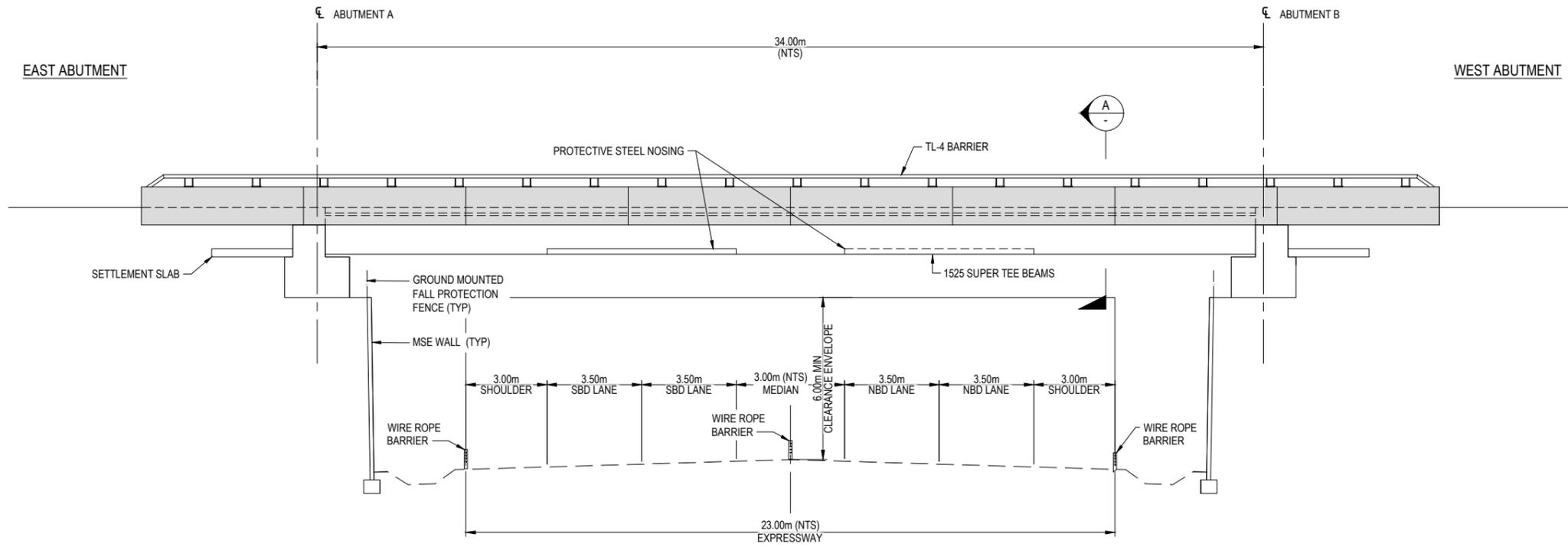
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DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



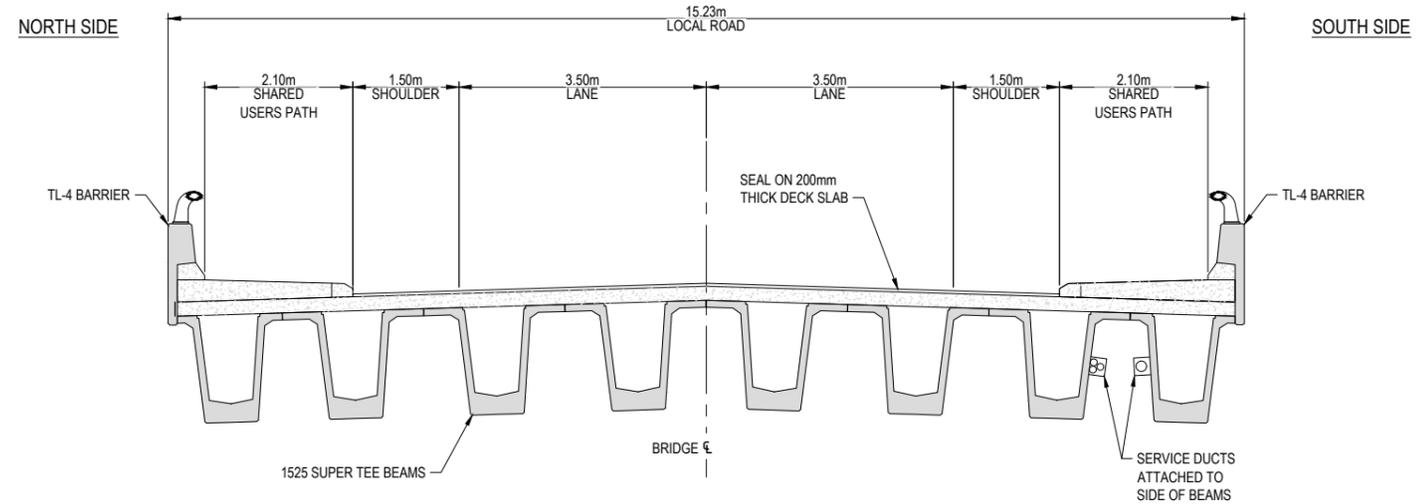
Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
NORTH MANAKAU ROAD OVERBRIDGE (CH27100)
GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-445-C1000
Rev.	D

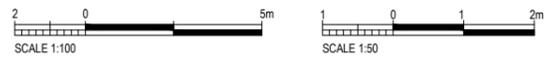
NOT FOR CONSTRUCTION



ELEVATION - NORTH MANAKAU ROAD OVERBRIDGE
SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION A TYPICAL CROSS SECTION (SUPER TEE)
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
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NOT FOR CONSTRUCTION

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
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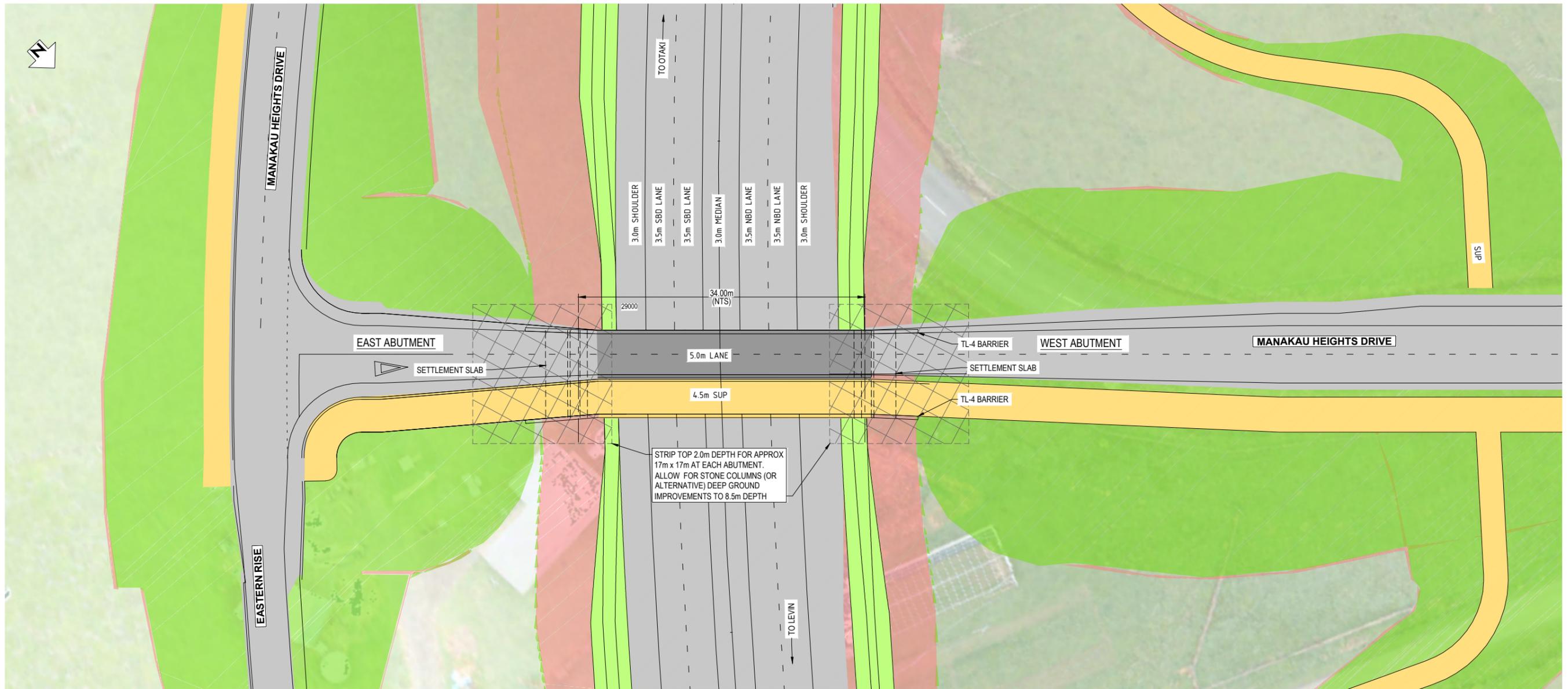
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CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

Client:

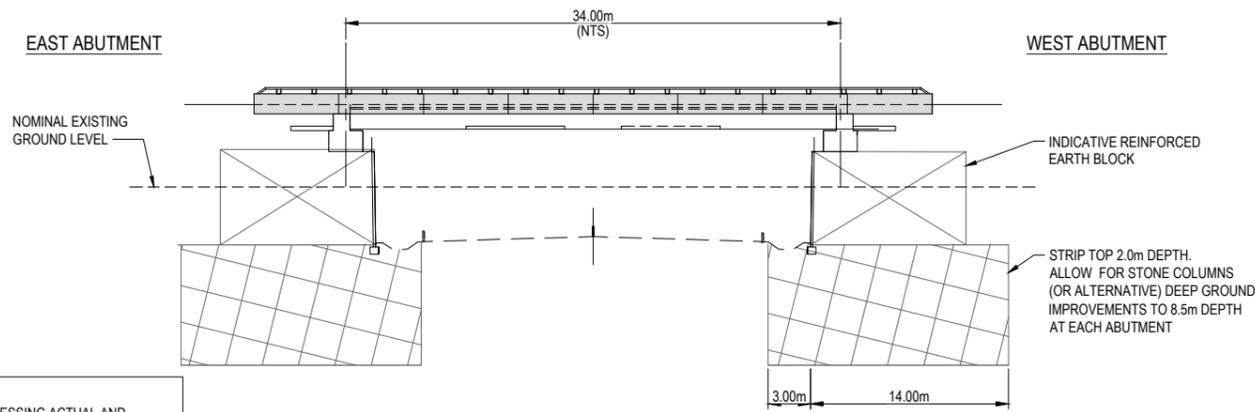



WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
NORTH MANAKAU ROAD OVERBRIDGE (CH27100)
ELEVATION AND TYPICAL CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scale	AS SHOWN
Drawing No.	310203848-01-445-C1100
Rev.	D



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
SCALE 1 : 250 (A1) 1 : 500 (A3)

GENERAL NOTE
DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.



NOT FOR CONSTRUCTION

Last modified: Feb 26 2021, By Jim Hunt

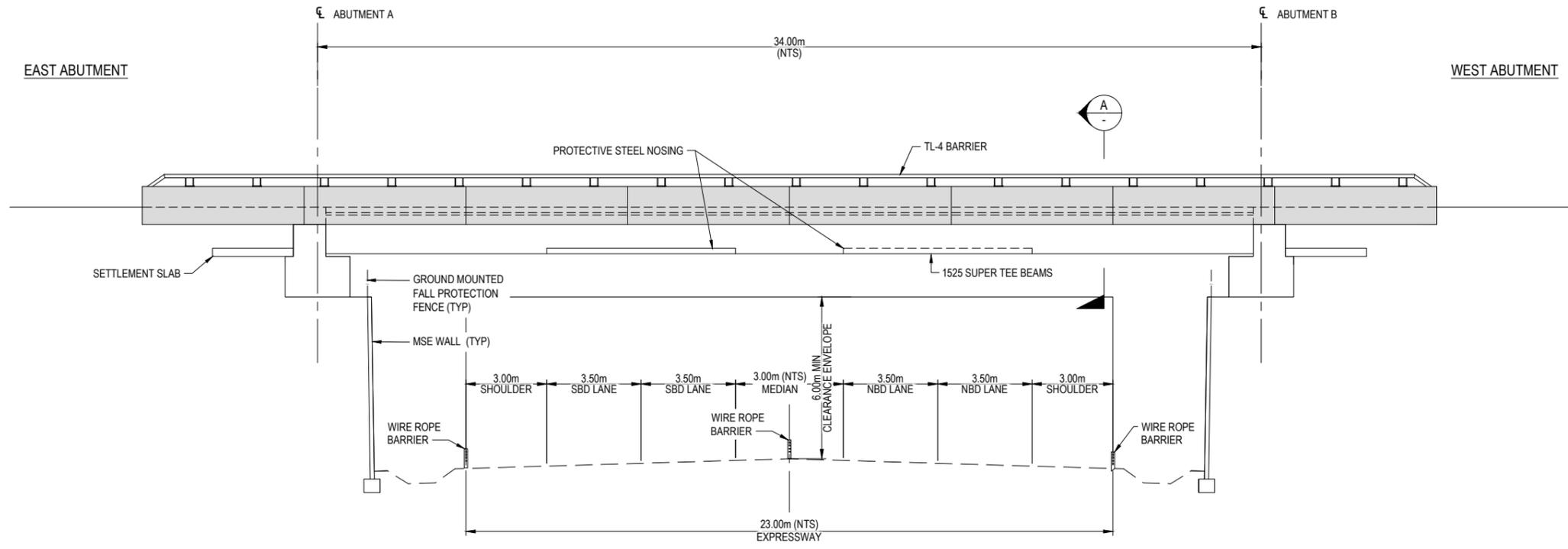
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

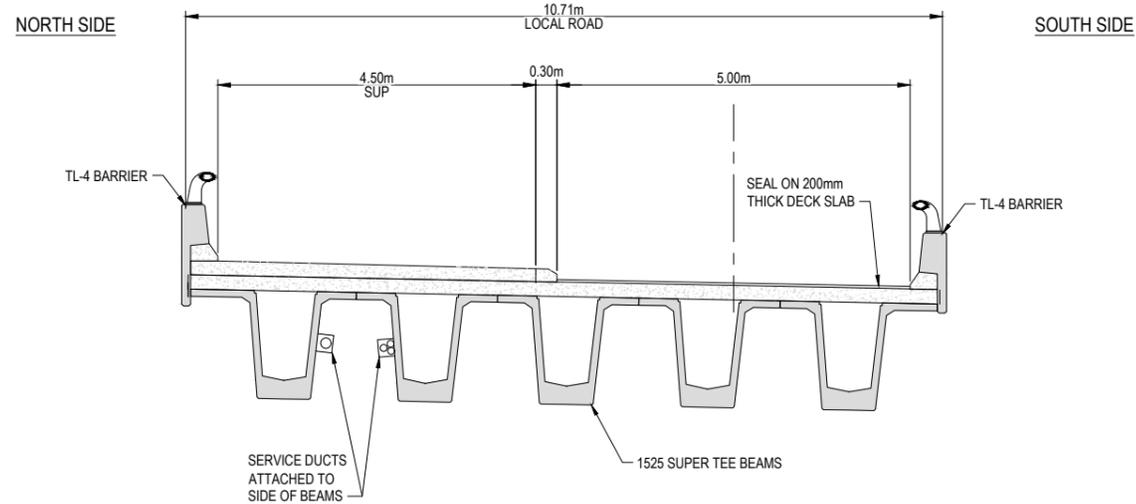


WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
MANAKAU HEIGHTS DRIVE OVERBRIDGE (CH29000)
GA PLAN AND LONG SECTION

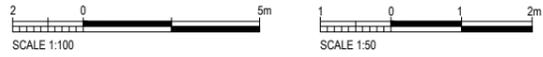
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-450-C1000
Rev.	D



ELEVATION - MANAKAU HEIGHTS DRIVE OVERBRIDGE
SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION A TYPICAL CROSS SECTION (SUPER TEE)
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
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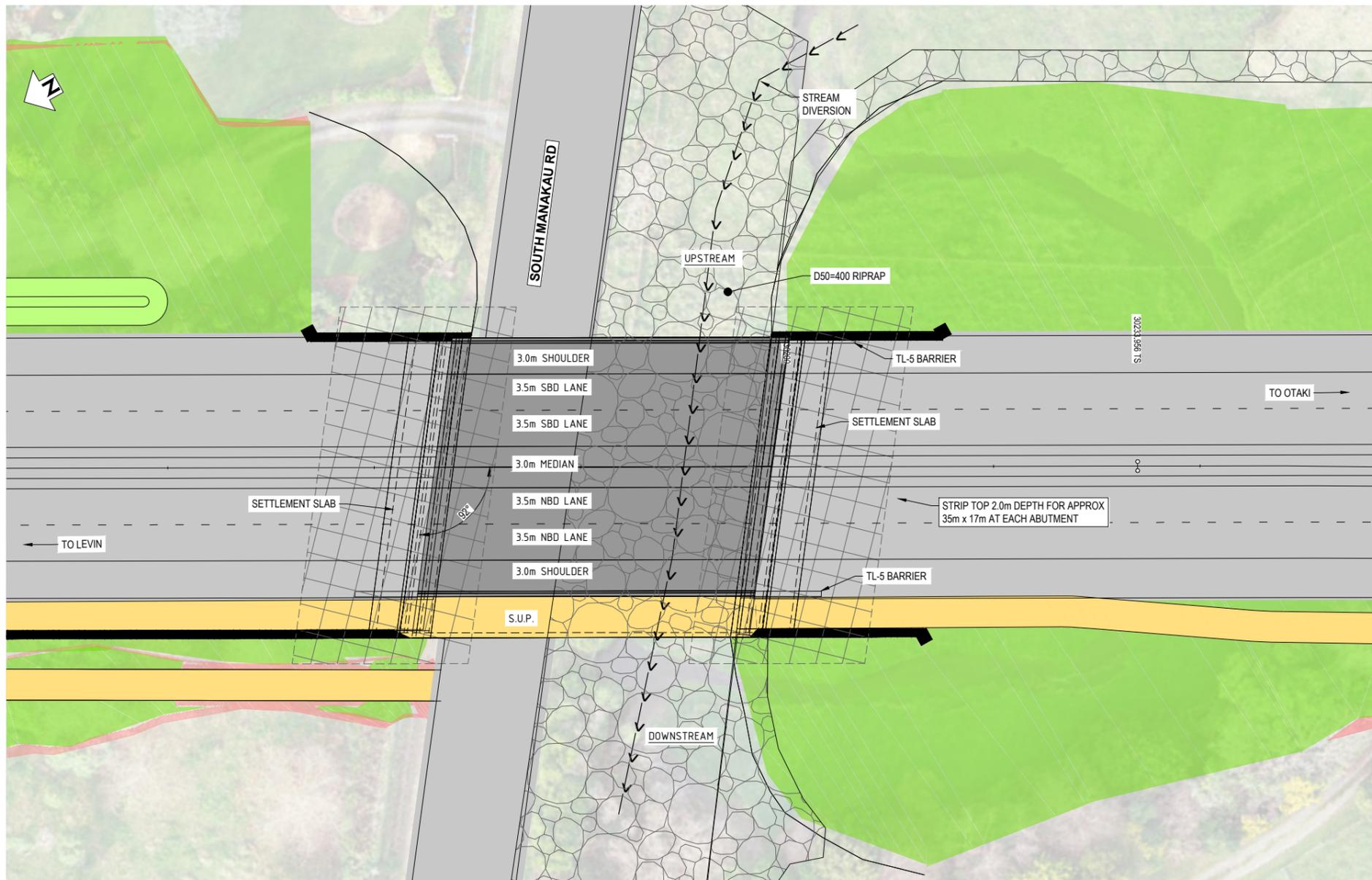
REV	REVISIONS	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED	DESIGNED	DRAWN	CAD REVIEW	DESIGN CHECK	DESIGN REVIEW	APPROVED
	Nghia Dinh	Jim Hunt	Gavin Smit	Alec Glover	Jeremy Walters	Jamie Povall

Client:

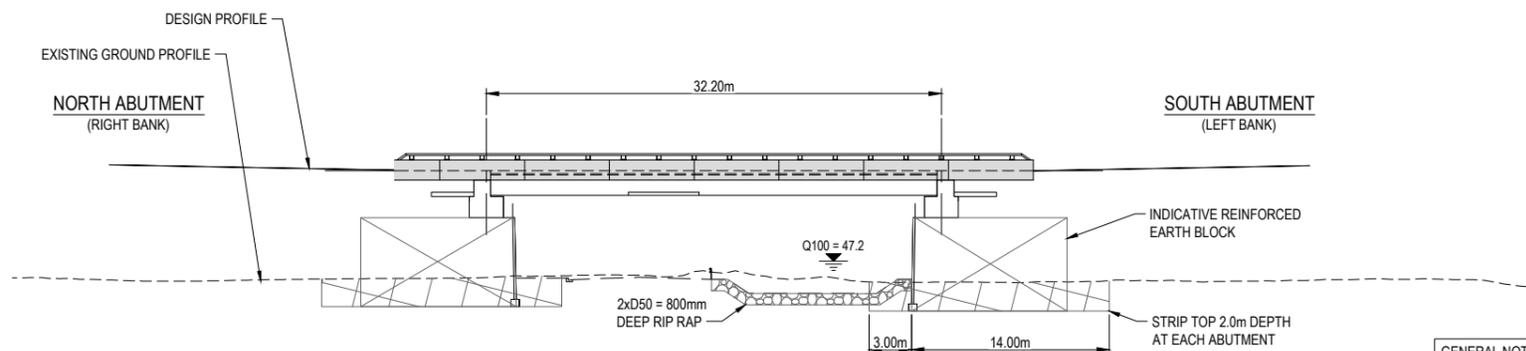
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
MANAKAU HEIGHTS DRIVE OVERBRIDGE (CH29000)
ELEVATION AND TYPICAL CROSS SECTION

NOT FOR CONSTRUCTION	
FOR CONSENT	
Date Stamp	19.08.22
Scale	AS SHOWN
Drawing No.	310203848-01-450-C1100
Rev.	D



RIP RAP NOTE
 DESIGN AND EXTENT OF RIP RAP TO BE CONFIRMED.
 REFER TO DRAINAGE DRAWINGS 310203848-01-300-C1000 SERIES.

PLAN
 SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
 SCALE 1 : 250 (A1) 1 : 500 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION



Last modified: Feb 26 2021, By Jim Hunt

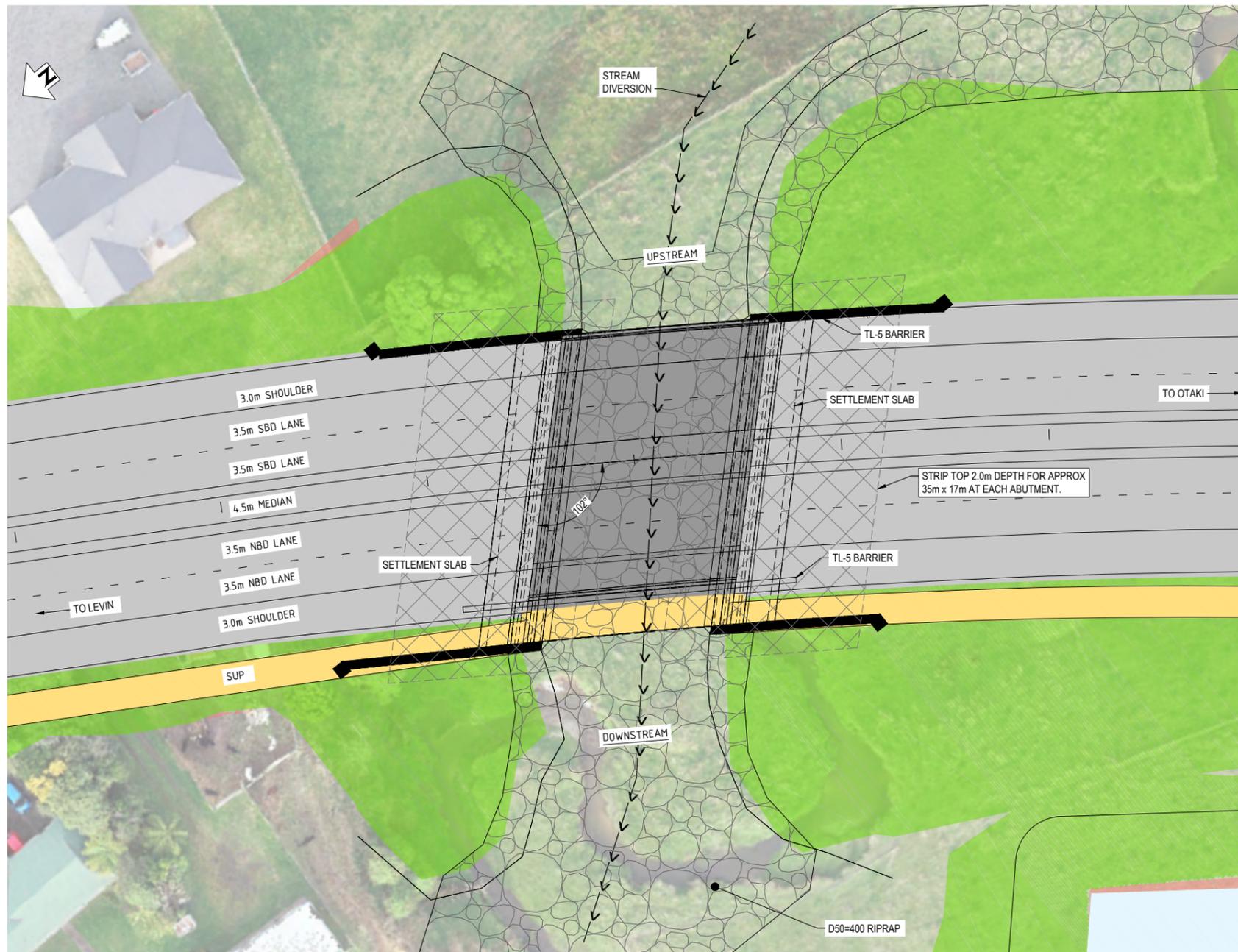
REV	DESCRIPTION	DRN	CHK	APP	DATE
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client:
WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 MANAKAU STREAM BRIDGE (CH30200)
 GA PLAN AND LONG SECTION

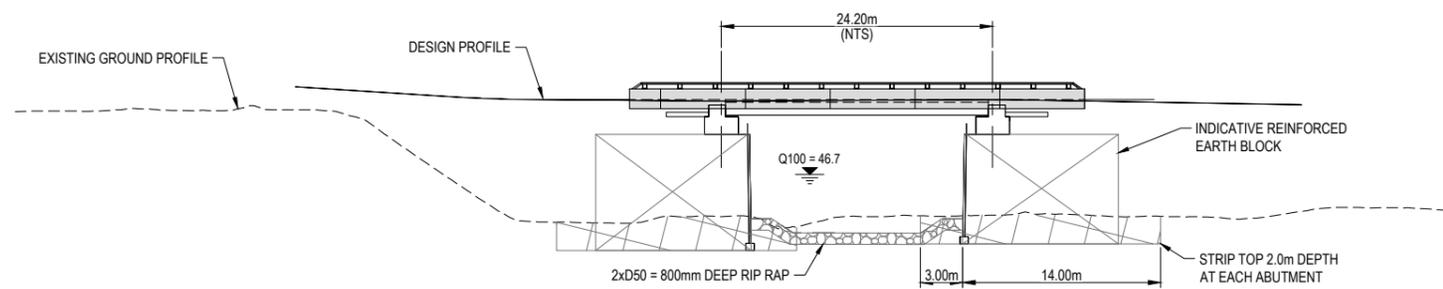
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-455-C1000
Rev.	D



RIP RAP NOTE
 DESIGN AND EXTENT OF RIP RAP TO BE CONFIRMED.
 REFER TO DRAINAGE DRAWINGS 310203848-01-300-C1000 SERIES.

PLAN

SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION

SCALE 1 : 250 (A1) 1 : 500 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION



Last modified: Feb 26 2021, By Jim Hunt

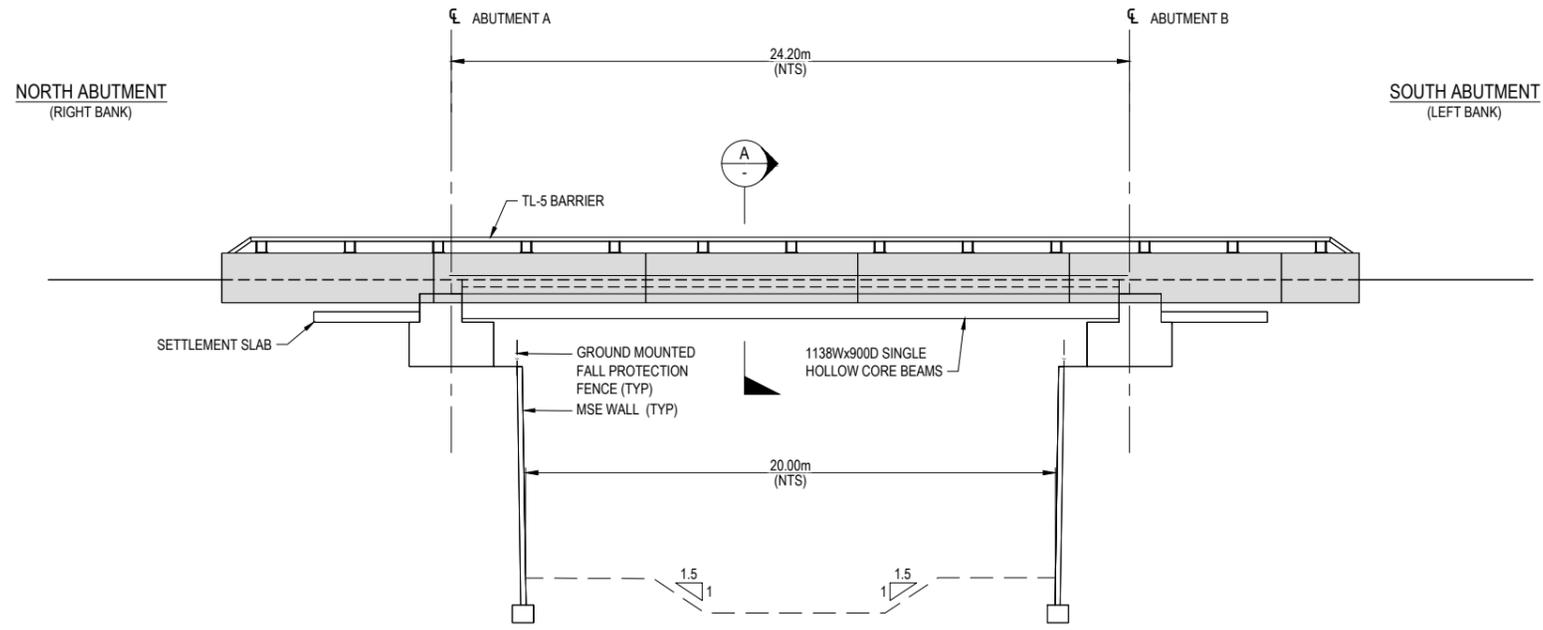
REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED			
DESIGNED	Nghia Dinh		17.06.21
DRAWN	Jim Hunt		17.06.21
CAD REVIEW	Gavin Smit		17.06.21
DESIGN CHECK	Alec Glover		19.04.22
DESIGN REVIEW	Jeremy Walters		19.04.22
APPROVED	Jamie Povall		21.07.22

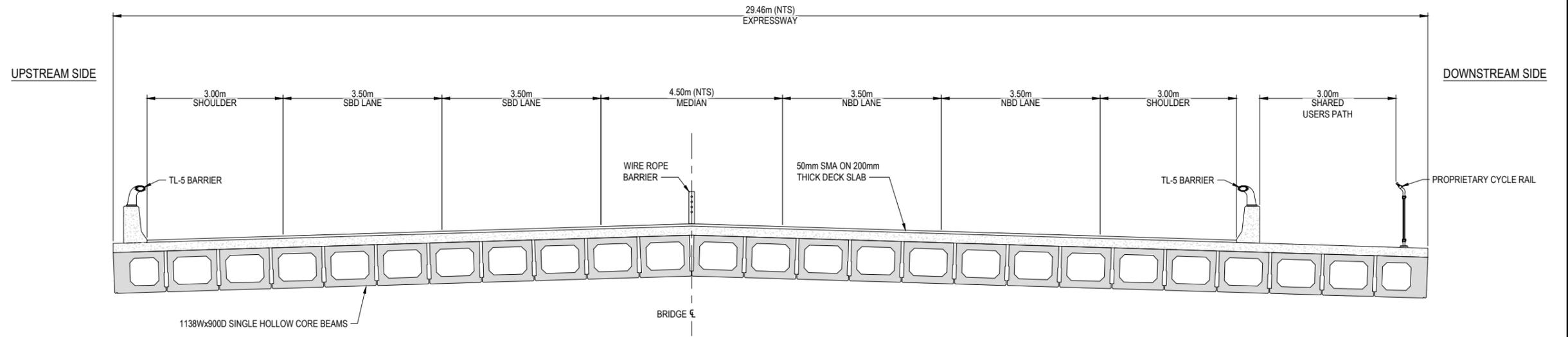


Client:
WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 WAIAUTI STREAM BRIDGE (CH30350)
 GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-460-C1000
Rev.	D



ELEVATION - WAIAUTI STREAM BRIDGE
 SCALE 1 : 100 (A1) 1 : 200 (A3)
 (SCOUR PROTECTION NOT SHOWN IN THIS VIEW FOR CLARITY)



SECTION A TYPICAL CROSS SECTION (650 HOLLOWCORE) - WAIAUTI STREAM BRIDGE
 SCALE 1 : 50 (A1) 1 : 100 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT				
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.08.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
A	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

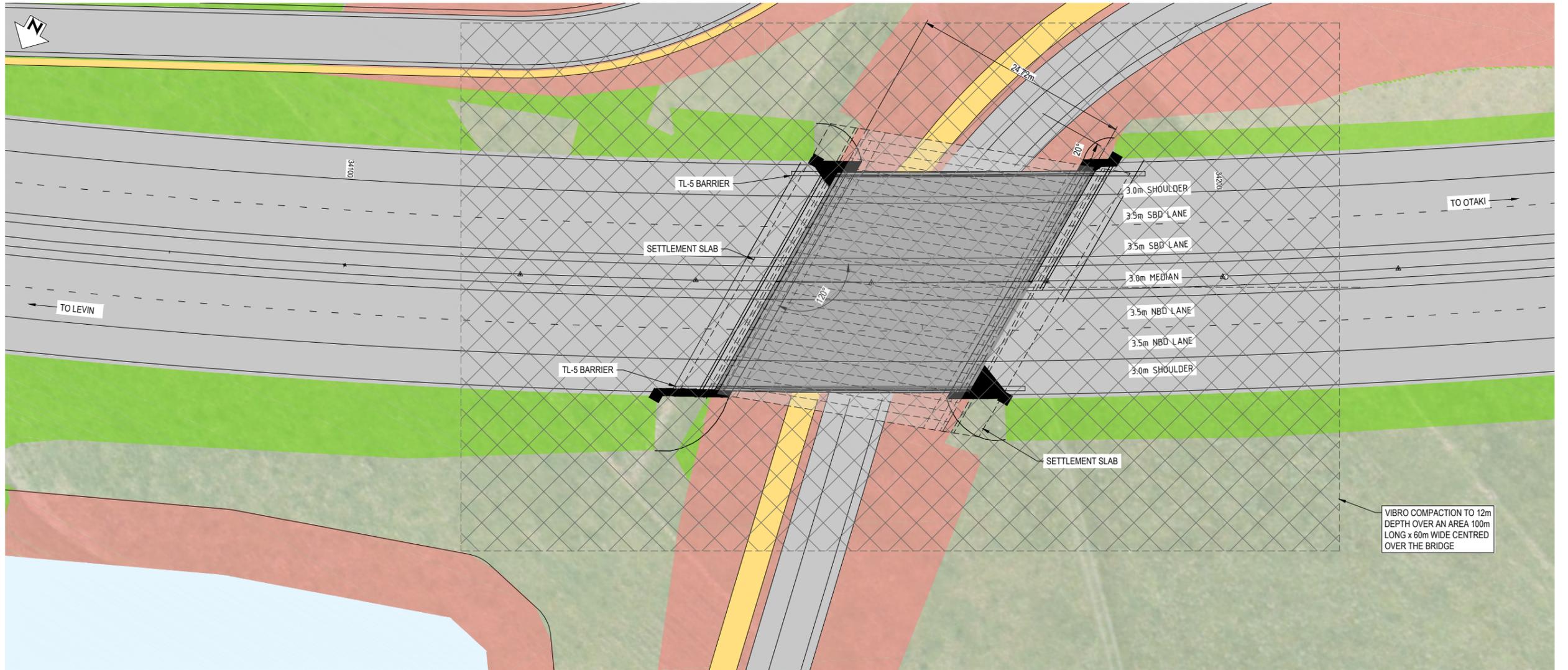
STATUS	NAME	DATE
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

Client:

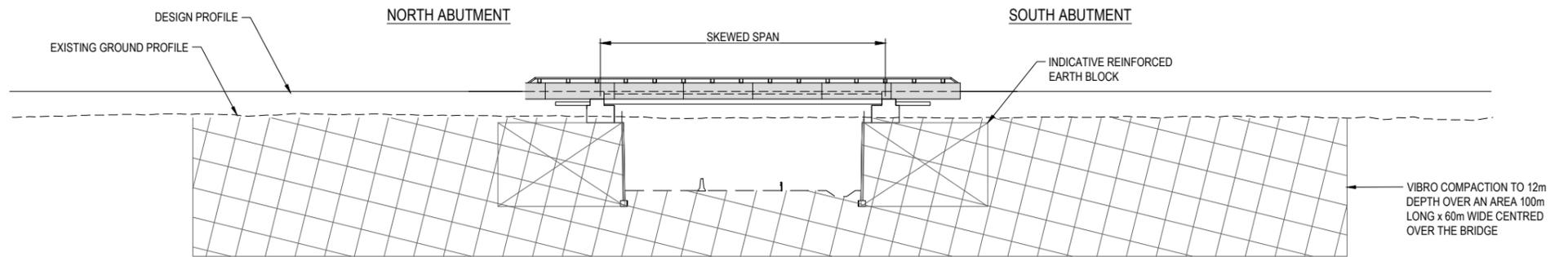
WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

WAIAUTI STREAM BRIDGE (CH30350)
 ELEVATION AND TYPICAL CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scale	AS SHOWN
Drawing No.	310203848-01-460-C1100
Rev.	D



PLAN
SCALE 1 : 250 (A1) 1 : 500 (A3)



LONG SECTION
SCALE 1 : 250 (A1) 1 : 500 (A3)



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Last modified: Feb 26 2021, By Jim Hunt

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
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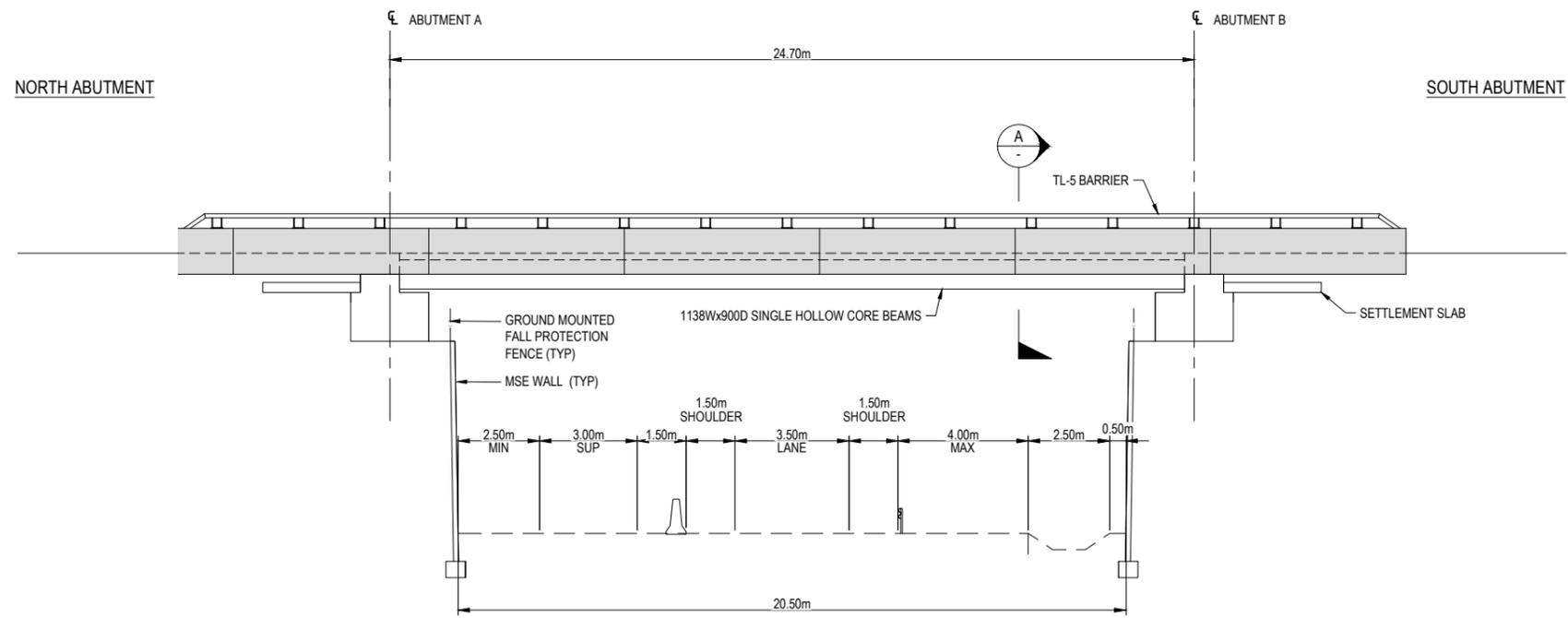
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SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



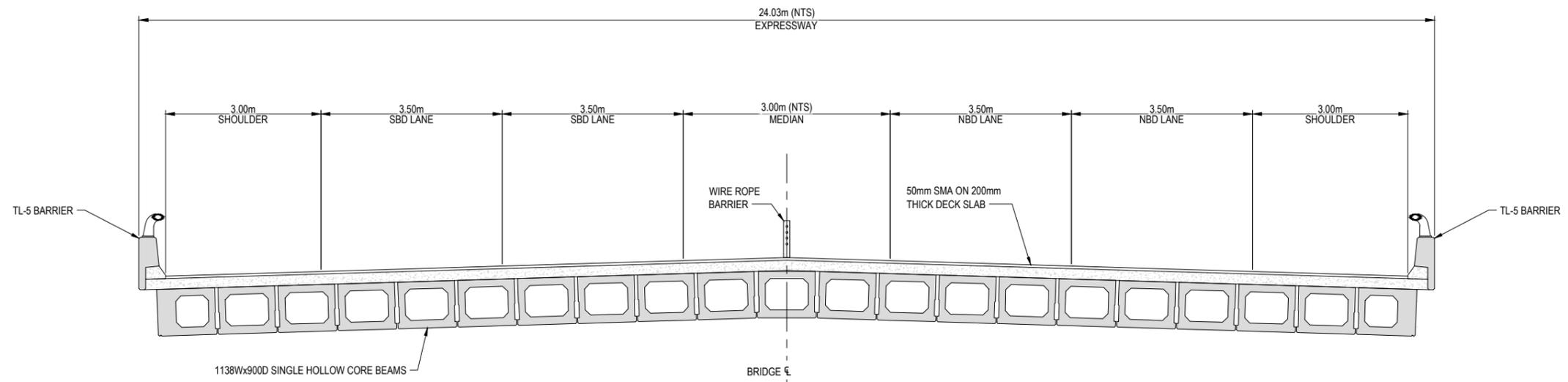
Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
TAYLORS OVERBRIDGE (CH34260)
GA PLAN AND LONG SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Drawing No.	310203848-01-465-C1000
Rev.	D

NOT FOR CONSTRUCTION



ELEVATION - BRIDGE OVER LOCAL ROAD (SH1 CROSSING NEAR TAYLORS)
SCALE 1 : 100 (A1) 1 : 200 (A3)



SECTION A TYPICAL CROSS SECTION (900 HOLLOWCORE) - BRIDGE OVER LOCAL ROAD (SH1 CROSSING NEAR TAYLORS)
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.

NOT FOR CONSTRUCTION

Last modified: Mar 1 2021 By: Jim Hunt

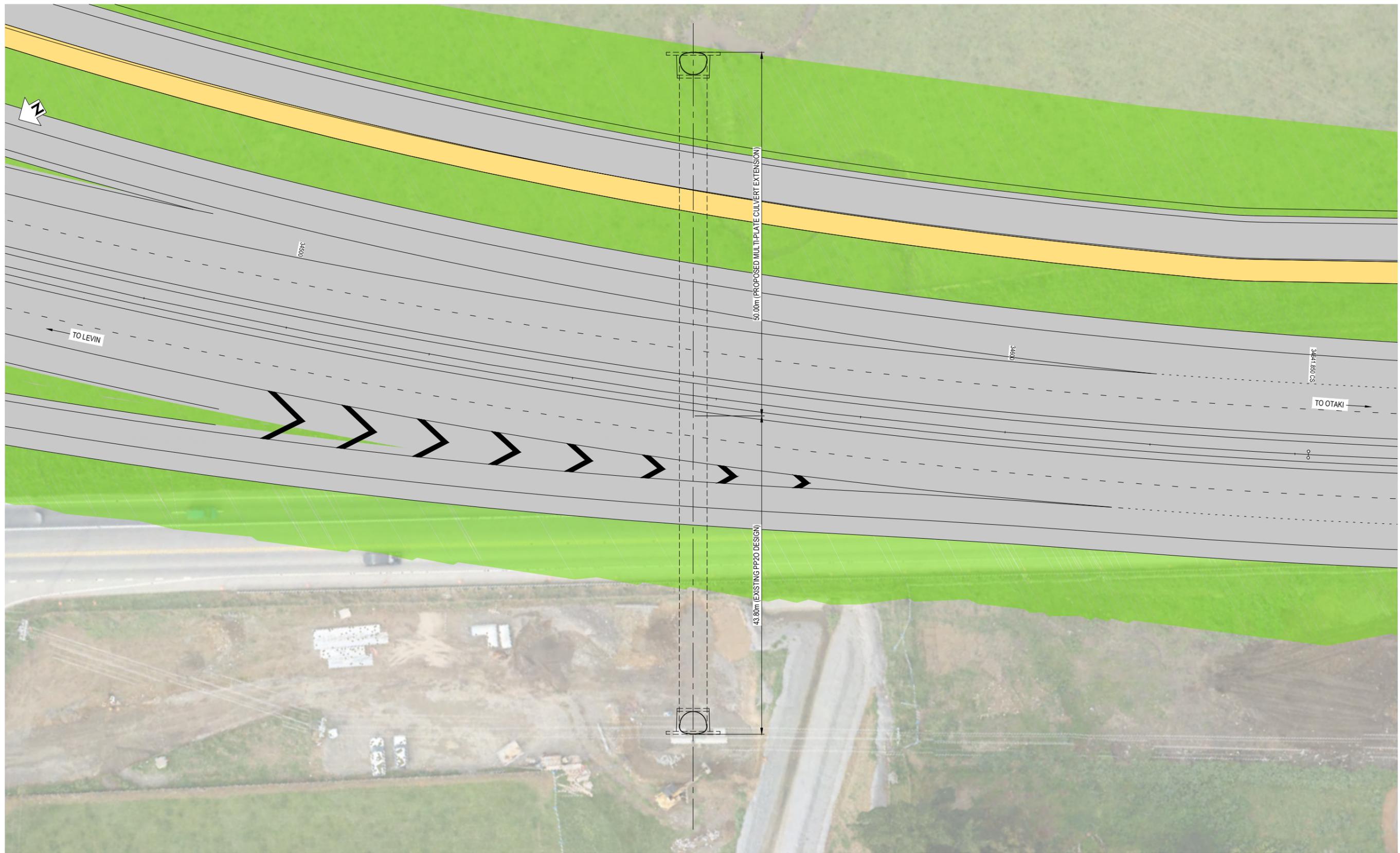
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
TAYLORS OVERBRIDGE (CH34260)
ELEVATION AND TYPICAL CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-465-C1100
Rev.	D



GENERAL NOTE
 DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.

PLAN
 SCALE 1 : 250 (A1) 1 : 500 (A3)

NOT FOR CONSTRUCTION

REV	REVISIONS	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

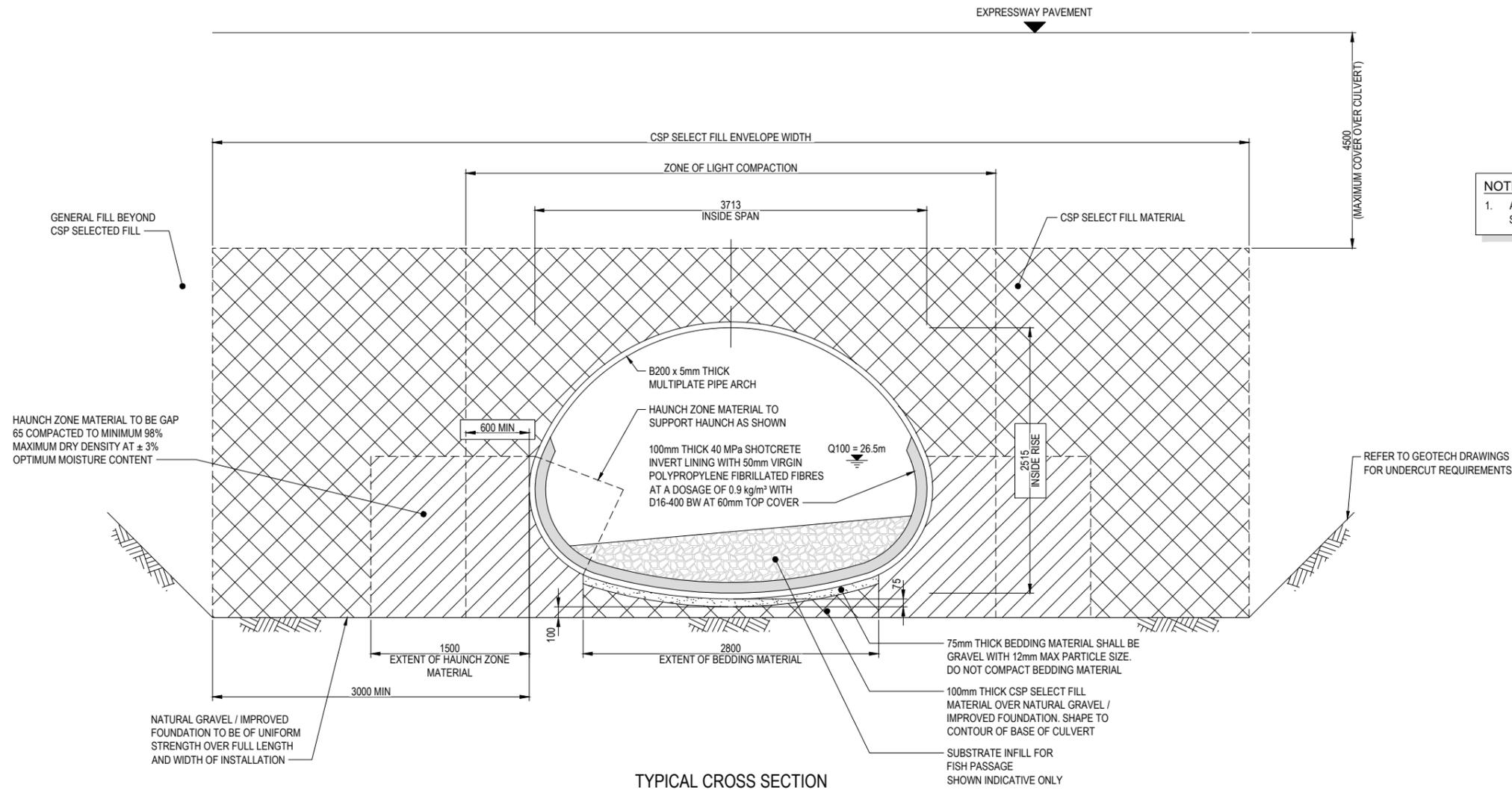
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client:
WAKA KOTAHI
 OTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 GREENWOOD CULVERT (CH34560)
 PP20 CULVERT EXTENSION GA PLAN

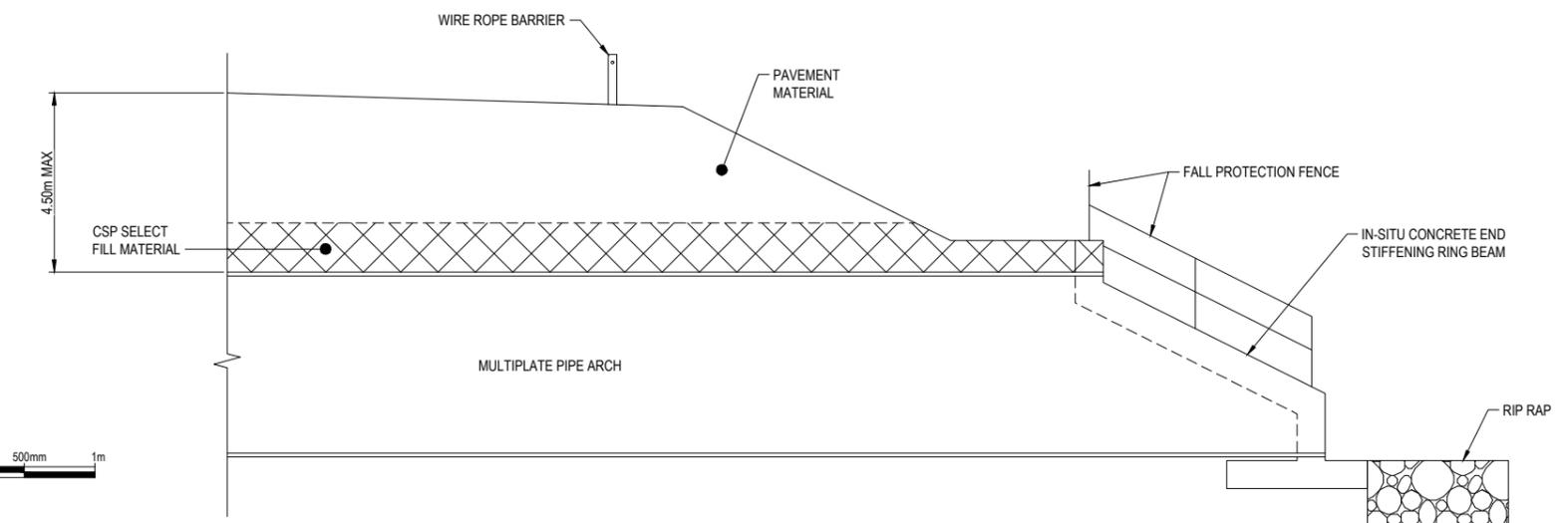
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-470-C1000
Rev.	D

Last modified: Feb 26 2021 By Jim Hunt



NOTE
1. ALL DIMENSIONS SHOWN IN mm UNLESS SHOWN OTHERWISE

TYPICAL CROSS SECTION
SCALE 1 : 25 (A1) 1 : 50 (A3)



CULVERT EXTENSION INLET CROSS SECTION
SCALE 1 : 50 (A1) 1 : 100 (A3)

GENERAL NOTE
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NOT FOR CONSTRUCTION

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED			
DESIGNED	Nghia Dinh		17.06.21
DRAWN	Jim Hunt		17.06.21
CAD REVIEW	Gavin Smit		17.06.21
DESIGN CHECK	Alec Glover		19.04.22
DESIGN REVIEW	Jeremy Walters		19.04.22
APPROVED	Jamie Povall		21.07.22

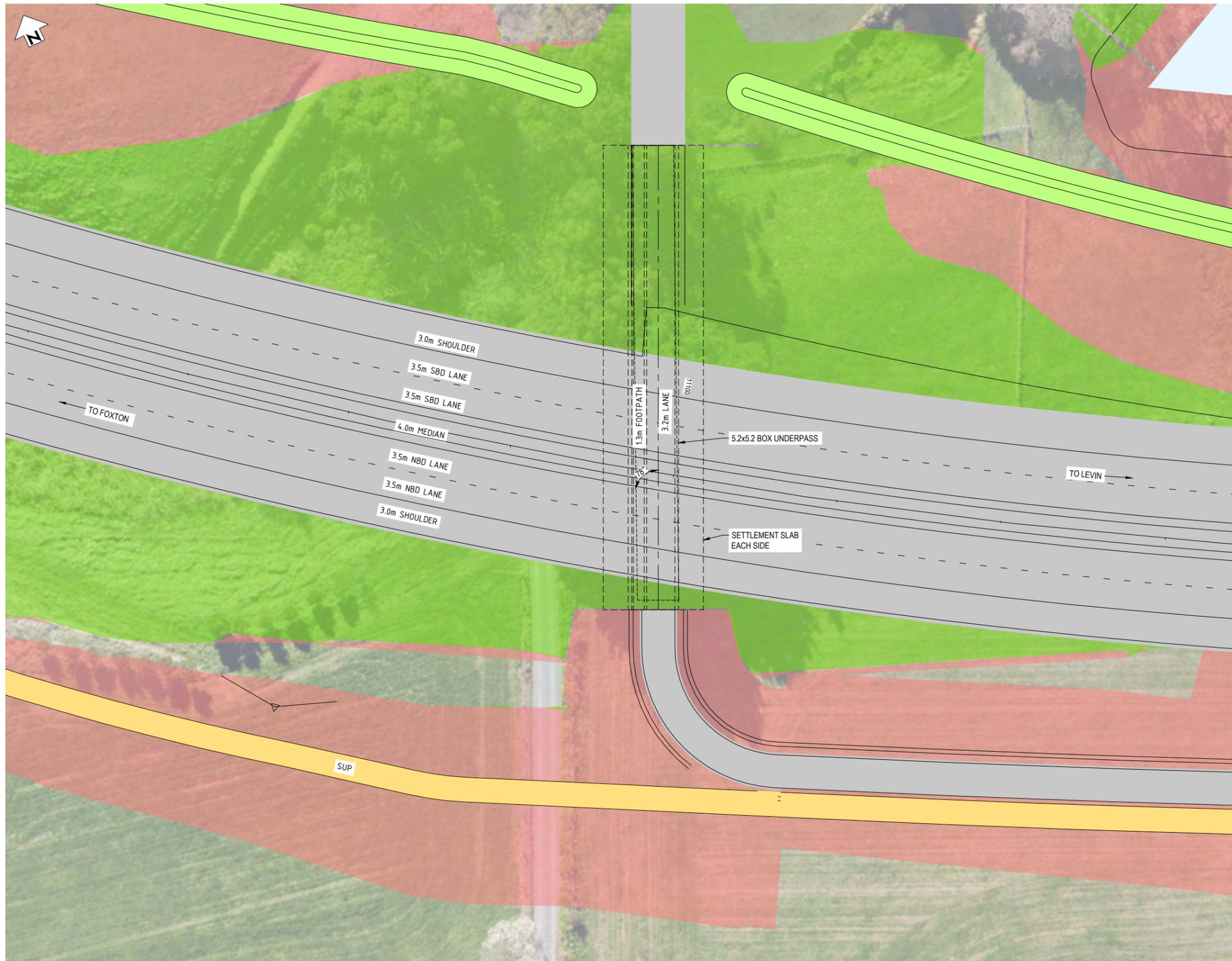
Client:

WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

GREENWOOD CULVERT (CH34560)
PP20 CULVERT EXTENSION CROSS SECTION

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-470-C1100
Rev.	D

Last modified: Nov 30 2020 By Jim Hunt



GENERAL NOTE
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PLAN
 SCALE 1 : 250 (A1) 1 : 500 (A3)



NOT FOR CONSTRUCTION

Last modified: Feb 26 2021, By Jim Hunt

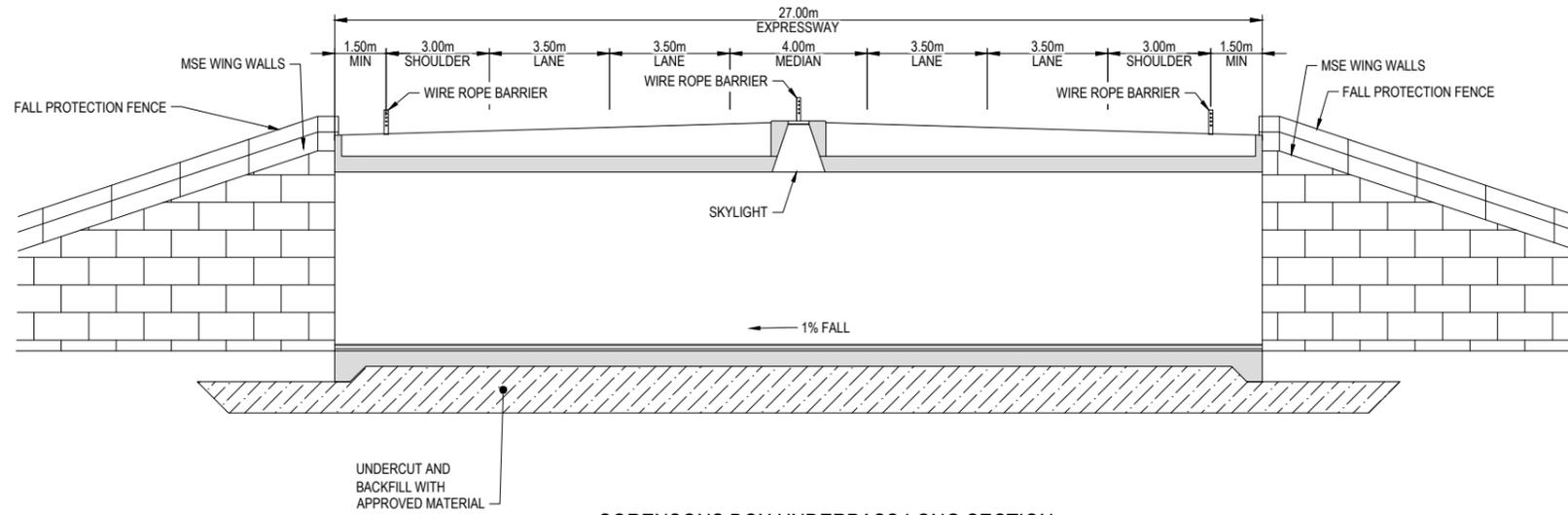
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C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22
PROF REGISTRATION:		

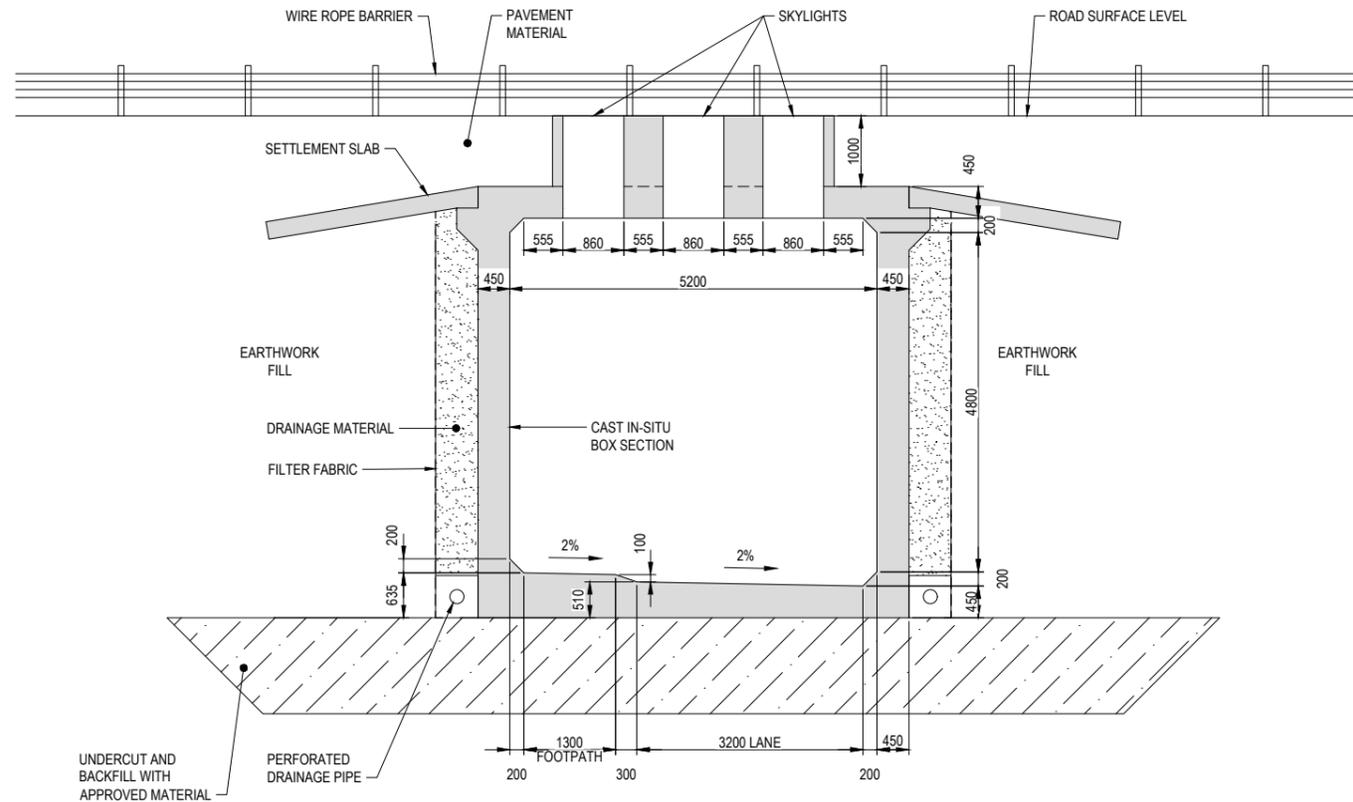


Client:
WAKA KOTAHI
 ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
 SORENSONS ROAD BOX UNDERPASS (CH11080)
 GA PLAN

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-475-C1000
Rev.	D



SORENSONS BOX UNDERPASS LONG SECTION
SCALE 1 : 100 (A1) 1 : 200 (A3)



SORENSONS TYPICAL CROSS SECTION
SCALE 1 : 50 (A1) 1 : 100 (A3)



GENERAL NOTE
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Last modified: Nov 30 2020 By: Jim Hunt

REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

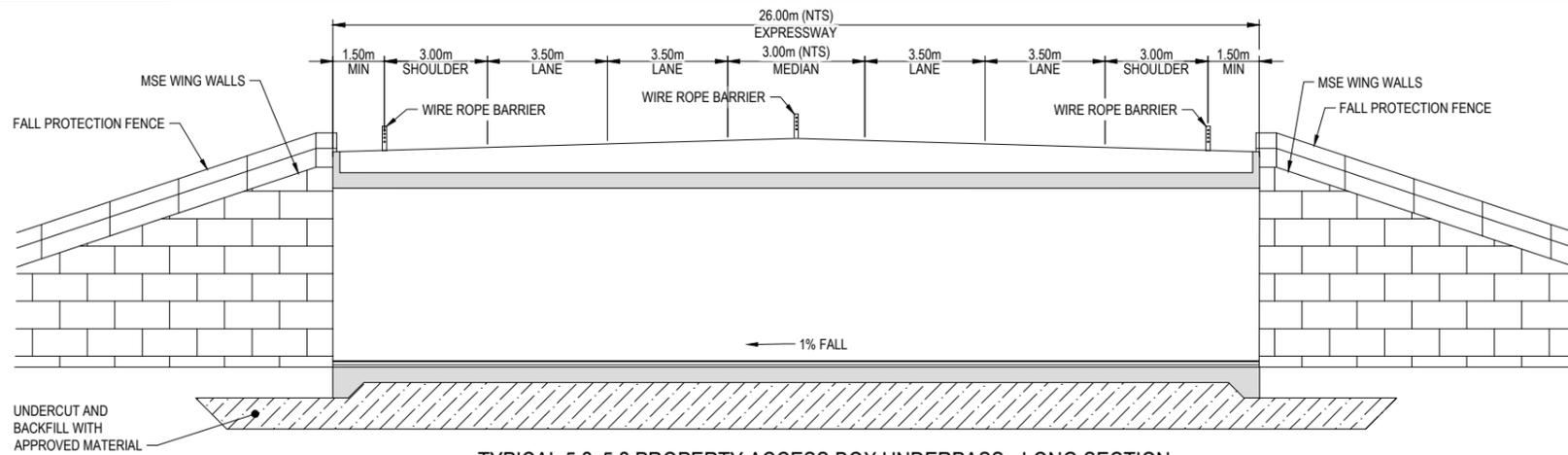
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client:
WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
SORENSONS ROAD BOX UNDERPASS (CH11080)
CROSS SECTIONS

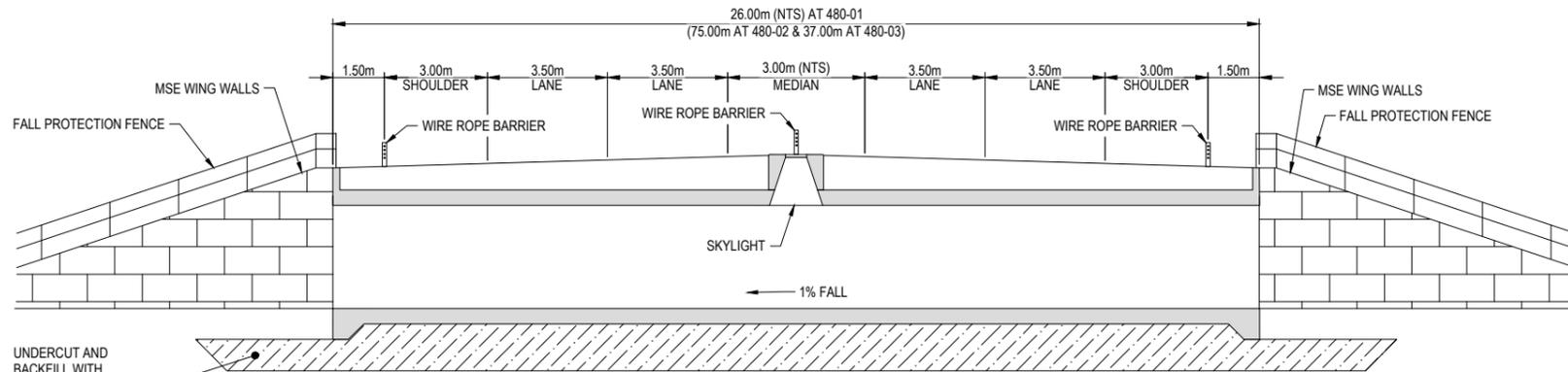
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Scales	
Drawing No.	310203848-01-475-C1100
Rev.	D

NOT FOR CONSTRUCTION



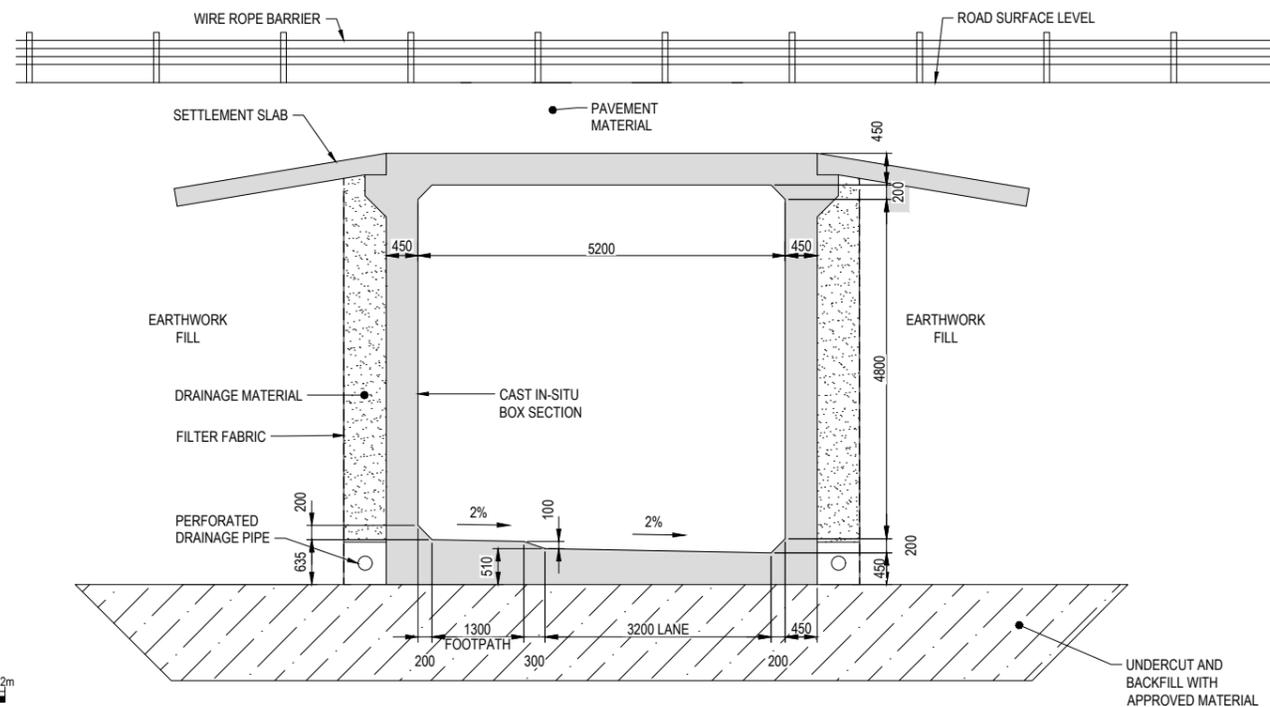
TYPICAL 5.2x5.2 PROPERTY ACCESS BOX UNDERPASS - LONG SECTION

SCALE 1 : 100 (A1) 1 : 200 (A3)



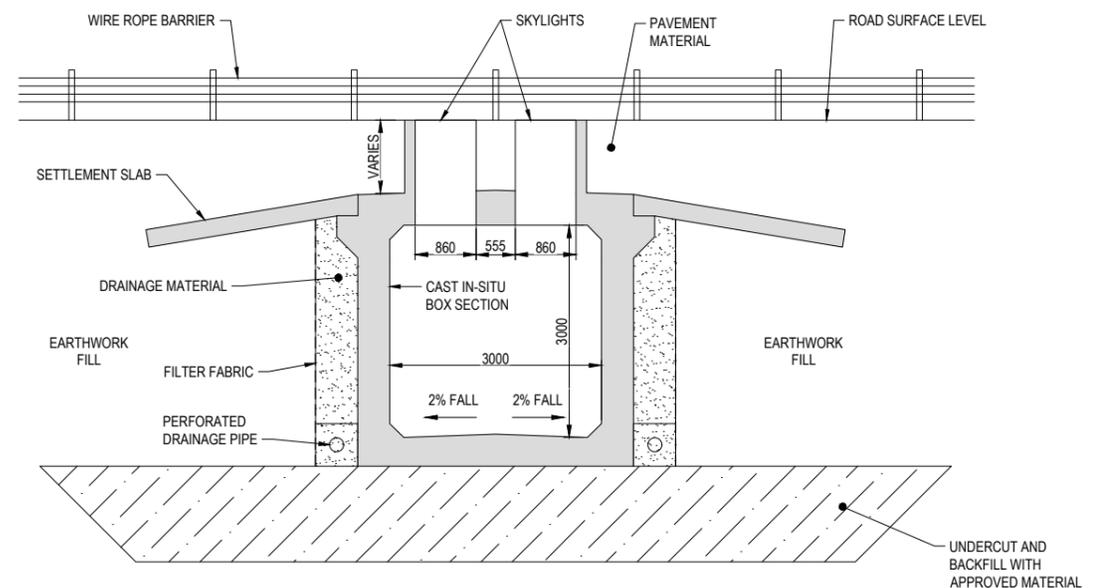
TYPICAL 3x3 SUP BOX UNDERPASS WITH SKYLIGHT - LONG SECTION

SCALE 1 : 100 (A1) 1 : 200 (A3)



TYPICAL 5.2x5.2 PROPERTY ACCESS BOX UNDERPASS - CROSS SECTION

SCALE 1 : 50 (A1) 1 : 100 (A3)

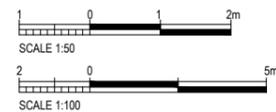


TYPICAL 3x3 SUP BOX UNDERPASS WITH SKYLIGHT - CROSS SECTION

SCALE 1 : 50 (A1) 1 : 100 (A3)

GENERAL NOTE
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PROPOSED BOX UNDERPASS DATA					
UNDERPASS No.	CHAINAGE	SIZE	LENGTH	PURPOSE	SKYLIGHT
480-01	10370	3x3	APPROX. 26m	SUP	YES
480-02	13070	3x3	APPROX. 75m	SUP	YES
480-03	18200	3x3	APPROX. 37m	SUP	YES
480-04	31200	5.2x5.2	APPROX. 26m	PROPERTY ACCESS	NO
480-05	32900	5.2x5.2	APPROX. 26m	PROPERTY ACCESS	NO



NOT FOR CONSTRUCTION

Last modified: Nov 30 2020 By Jim Hunt

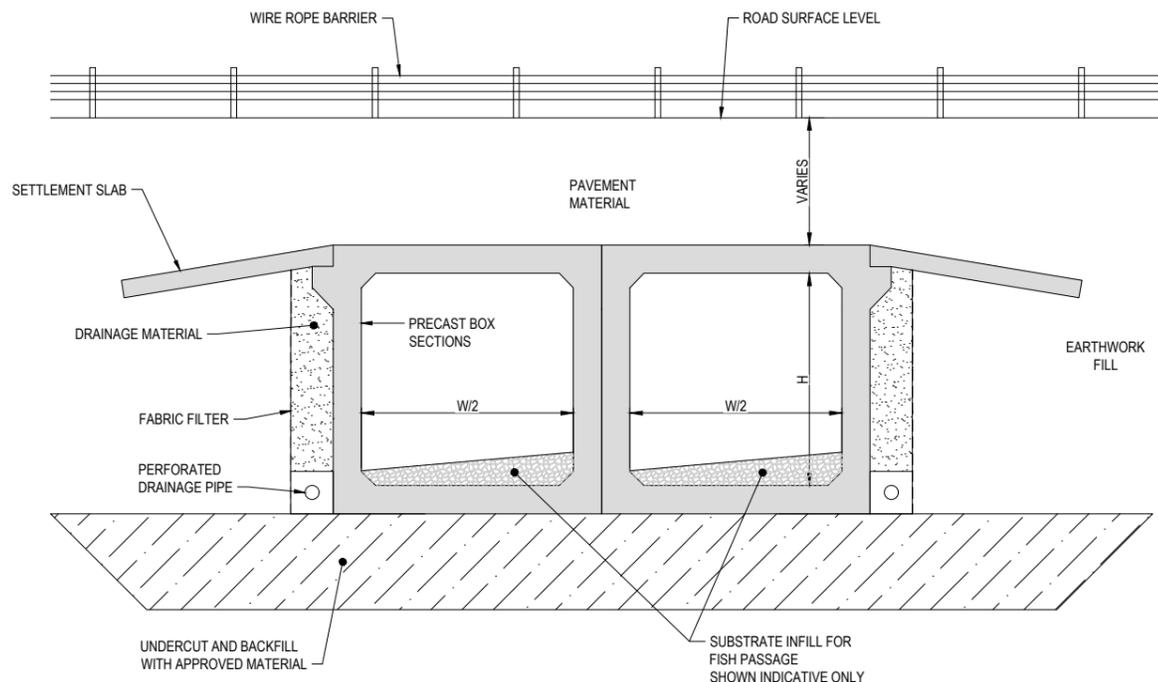
REV	DESCRIPTION	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

STATUS	NAME	DATE
SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22

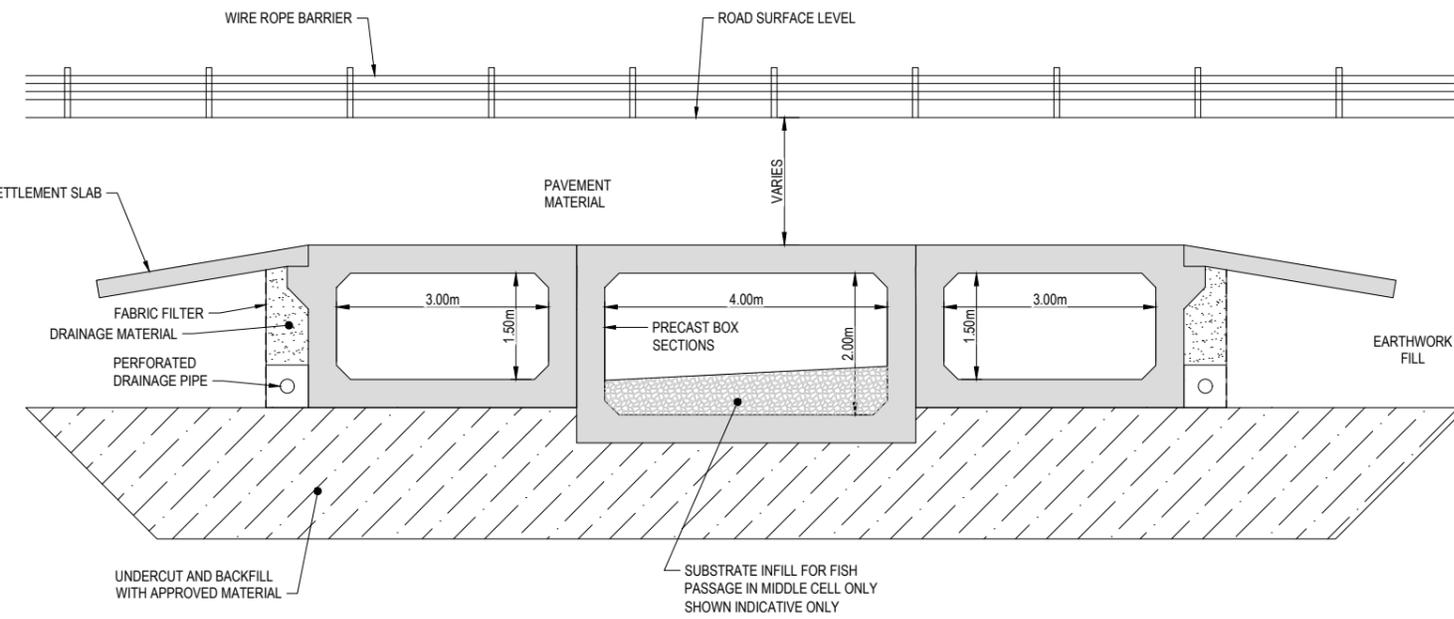


WAKA KOTAHI
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT
TYPICAL BOX UNDERPASS (480-01 TO 480-05)
CROSS SECTIONS

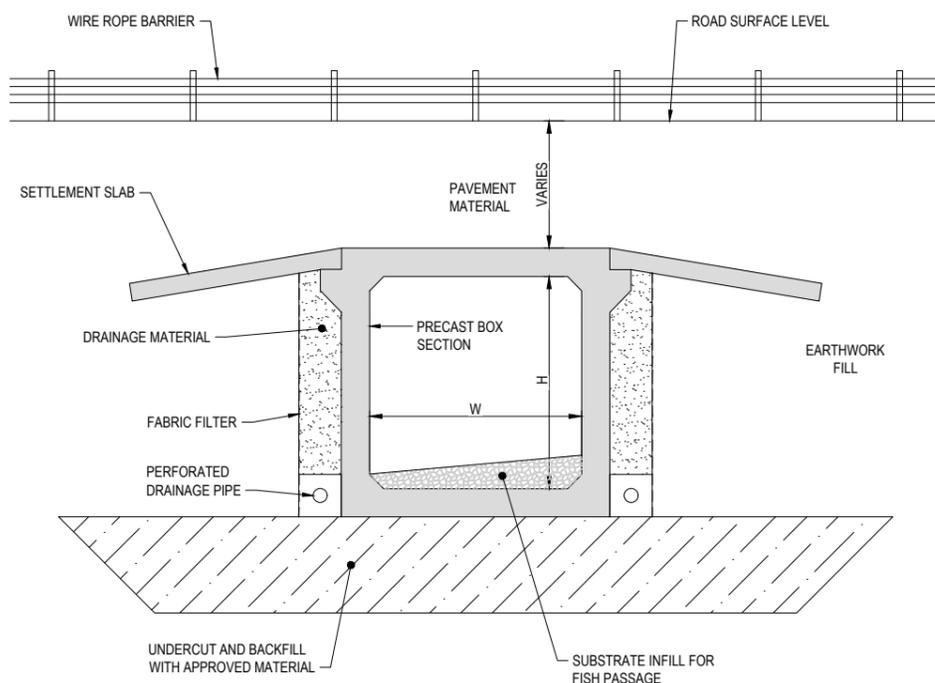
Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-480-C1000
Rev.	D



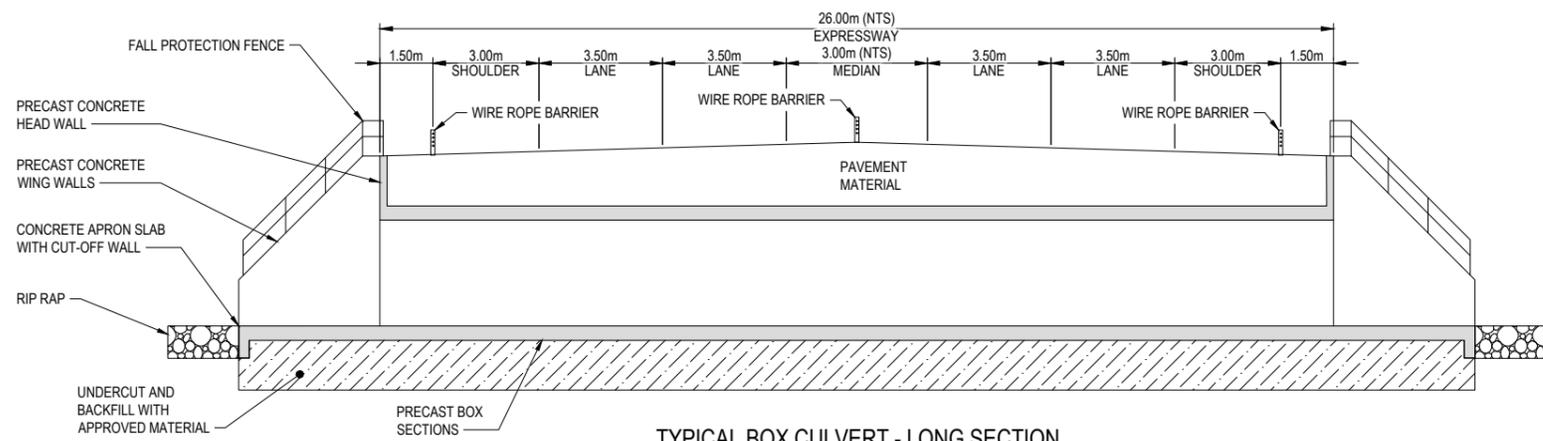
TYPICAL DOUBLE BOX CULVERT CROSS SECTION
SCALE 1 : 50 (A1) 1 : 100 (A3)



TYPICAL TRIPLE BOX CULVERT CROSS SECTION
SCALE 1 : 50 (A1) 1 : 100 (A3)



TYPICAL SINGLE BOX CULVERT CROSS SECTION
SCALE 1 : 50 (A1) 1 : 100 (A3)



TYPICAL BOX CULVERT - LONG SECTION
SCALE 1 : 100 (A1) 1 : 200 (A3)

PROPOSED BOX CULVERT DATA - CONCEPT DESIGN								
STREAM ID No.	CHAINAGE	STREAM NAME	CULVERT TYPE	W	H	OPEN BORE AREA	100cc SCHEME WL	1500cc SCHEME WL
18	29320	MINOR STREAM	SINGLE BOX	4	1.5	4.5	43.3	43.8
27.1	26289	WAIKAWA FLOOD RELIEF	TRIPLE BOX	AS SHOWN	AS SHOWN	15.0	47.4	48.0
29	25408	MINOR STREAM	DOUBLE BOX	8	1.5	9.0	52.2	52.8
31	24280	MINOR STREAM	SINGLE BOX	4	1.5	4.5	39.1	39.5
32.1	23690	OVERLAND FLOW PATH	SINGLE BOX	3.5	1.0	5.5	33.5	35.5
36.6	16150	OVERLAND FLOW PATH	DOUBLE BOX	6	1.0	6.0	51.4	51.6
39	12880	TRIB TO KOPUTAROA	DOUBLE BOX	6	1.5	9.0	24.7	24.9
40	12690	TRIB TO KOPUTAROA	SINGLE BOX	4	1.5	4.5	24.9	25.1

FOR PLAN VIEWS REFER TO 310203848-300-C1000 SERIES

GENERAL NOTE
DESIGN SHOWN IS A CONCEPT FOR PURPOSES OF ASSESSING ACTUAL AND POTENTIAL EFFECTS ON THE ENVIRONMENT. ALL INFORMATION SHOWN IS SUBJECT TO FURTHER DESIGN AND THE DETAILS MAY CHANGE WITHIN THE PARAMETERS OF ANY RMA APPROVALS. AREAS AND MEASUREMENTS SUBJECT TO SURVEY.



NOT FOR CONSTRUCTION

Last modified: Nov 30 2020 By Jim Hunt

REV	REVISIONS	DRN	CHK	APP	DATE
D	ISSUED FOR RMA CONSENT	JH	JW	JP	19.08.22
C	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	19.04.22
B	ISSUED FOR CONSENT - DRAFT	JH	JW	JP	09.12.21
A	ISSUED FOR DBC	JH	JW	JP	18.06.21

SURVEYED		
DESIGNED	Nghia Dinh	17.06.21
DRAWN	Jim Hunt	17.06.21
CAD REVIEW	Gavin Smit	17.06.21
DESIGN CHECK	Alec Glover	19.04.22
DESIGN REVIEW	Jeremy Walters	19.04.22
APPROVED	Jamie Povall	21.07.22



Client: **WAKA KOTAHI**
ŌTAKI TO NORTH OF LEVIN HIGHWAY PROJECT

TYPICAL BOX CULVERTS
CROSS SECTIONS

Status Stamp	FOR CONSENT
Date Stamp	19.08.22
Scales	AS SHOWN
Drawing No.	310203848-01-490-C1000
Rev.	D