



Waiuku Trail Walkway Sandspit Reserve

Prepared for Auckland Council



November 2025



Level 1, 24 York Street,
Parnell, Auckland 1052

PO Box 105105
Auckland City 1143



(09) 638 7221



office@frame.co.nz

frame.co.nz



Job Details

Auckland Council
Waiuku Trail Walkway Sandspit Reserve
Frame Group Job Number: 23/111

Drawings Index

Drawing Number	Drawing Title	Latest Revision
23/111-00	Overall plan	A
23/111-01	Plan and profile	C
23/111-02	Plan and profile	A
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23/111-04	Plan and profile	A
23/111-05	Plan and profile	C
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23/111-08	Cross sections	A
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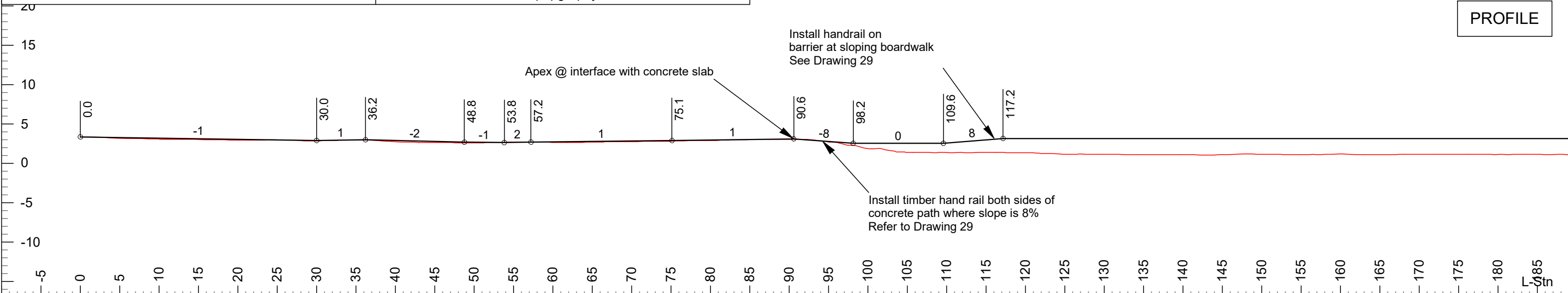
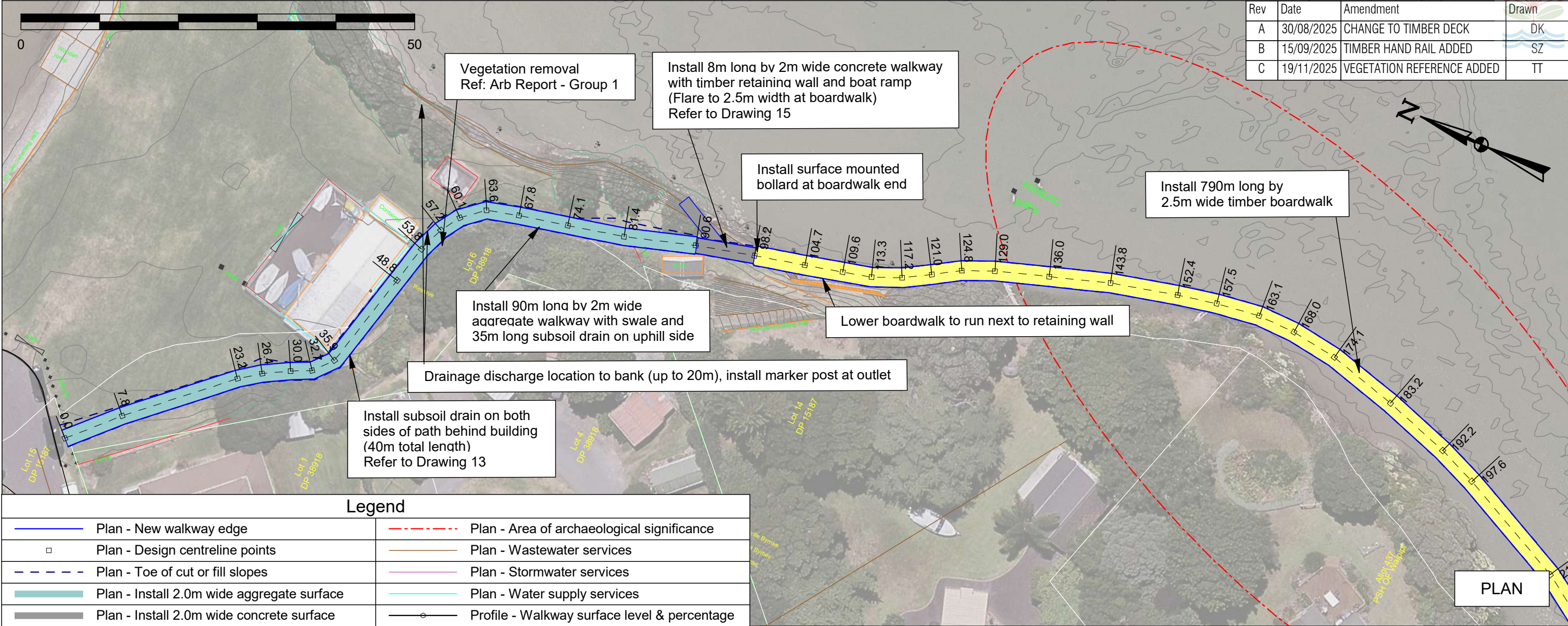
Drawing Version Control

Drawing Package Version	Date	Revision Details / Status	Initials and Signature			
			Prepared by	Checked by	Reviewed by	Approved by
1. Draft / For Consultation	10/07/2024	Concept design: Draft	SM	BS	-	-
1. Draft / For Consultation	15/07/2024	Concept design: Draft	SM	BS	-	-
1. Draft / For Consultation	09/07/2024	Concept design: Draft	SM	BS	-	-
1. Draft / For Consultation	01/10/2024	Draft for Resource Consent	SM	BS	-	-
2. For Issue / Consent	02/05/2025	Detailed design	SM / JR	BS	GW	DK
2. For Issue / Consent	28/07/2025	Update: to timber decking Removal: connector boardwalk	JR	BS	GW	DK
2. For Issue / Consent	01/09/2025	Update: FRP replaced with timber decking	EQ	MT	GW	DK
2. For Issue / Consent	15/09/2025	Update: Handrails extended & timber planks specified	SZ	MT	GW	DK
2. For Issue / Consent	17/09/2025	Update: Handrail notes amended	SZ	MT	GW	DK
2. For Issue / Consent	19/11/2025	Update: Pole foundations amended, annotations added to plans	TT/SZ	MT	GW	DK
3. For tender						
4. Consented / For Construction						
5. As Built						



Key

Initials	Name	Title
SM	Samuel Macrae	Design and Fieldwork Technician
JR	Jenna Richards	Senior Draughtsperson / Technician
BS	Brian Seston	Senior Engineer / Project Manager
GW	Geoff Wigley	Senior Engineer / Project Manager
DK	Drew Kenny	General Manager, Senior Designer / Project Manager
EQ	Erick Quinto	Senior Draughtsperson / Technician
MT	Michael Teixeira	Senior Engineer / Project Manager
SZ	Simone Zoellner	Engineering Technician
TT	Tomson Tang	Engineering Technician

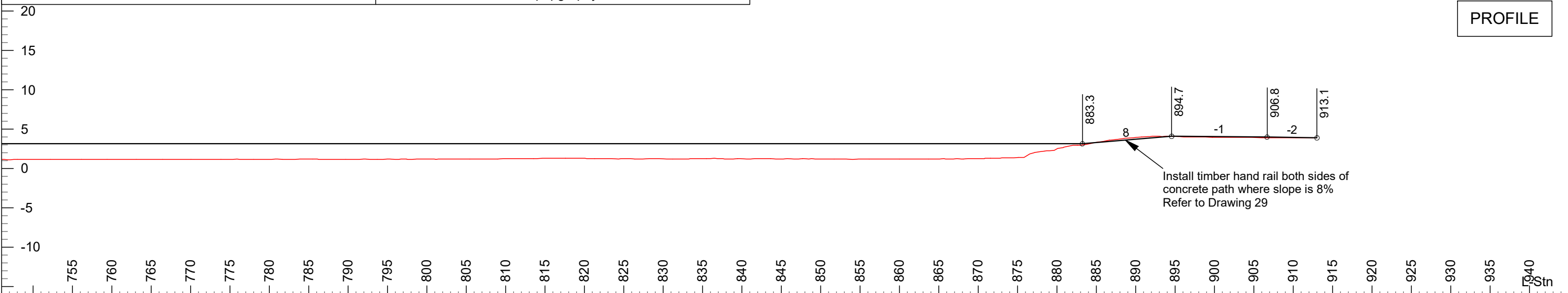
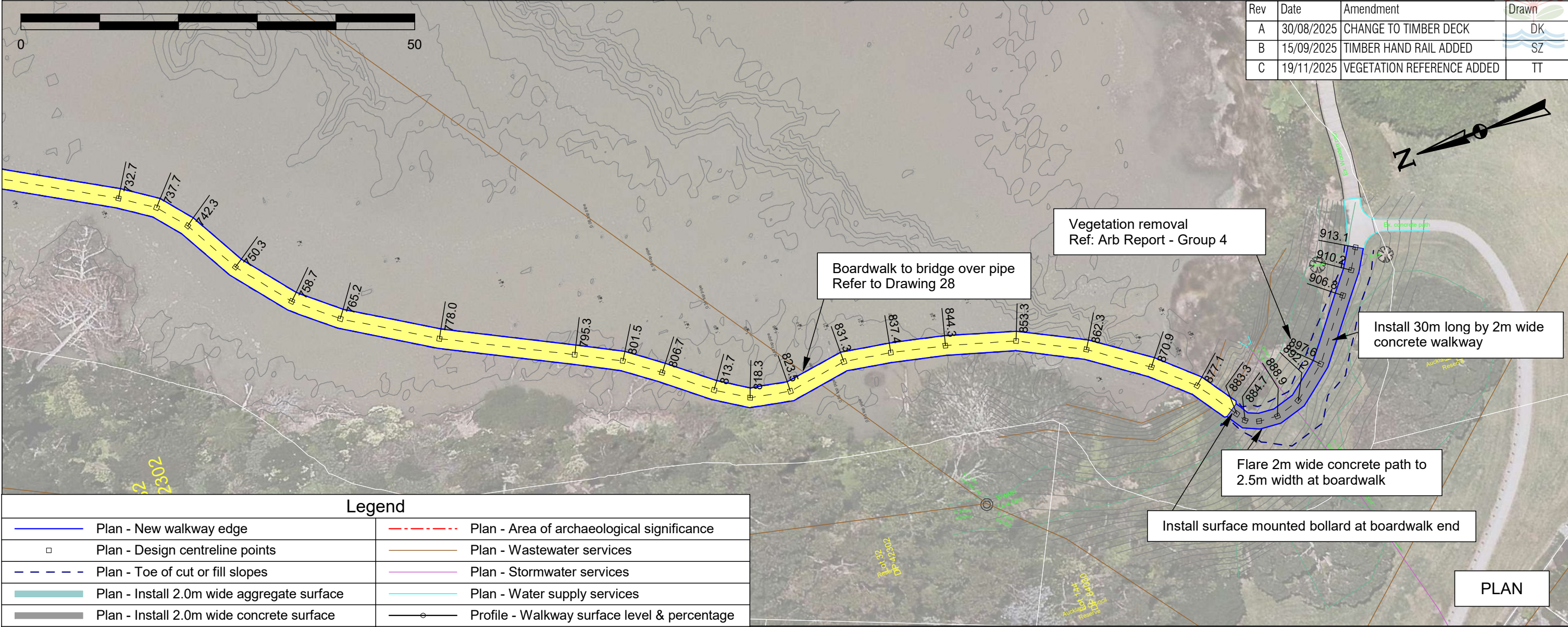


 Ph: (09) 638-7221 www.frame.co.nz	PREPARED FOR	PROJECT	TITLE	SCALE: Plan Scale 1:500 Profile Vert Scale 1:500 @ A3 Profile Horz Scale 1:500	DATE: NOVEMBER 2025		
	 Te Kaunihera o Tāmaki Makaurau	WAIUKU TRAIL WALKWAY SANDSPIT RESERVE	PLAN AND PROFILE	DRAWN	DESIGNED	APPROVED	FGL JOB
				JR	BS	DK	23/111
				DRAWING PACKAGE VERSION		DRAWING	REV
2. FOR ISSUE / CONSENT		23/111-01		C			

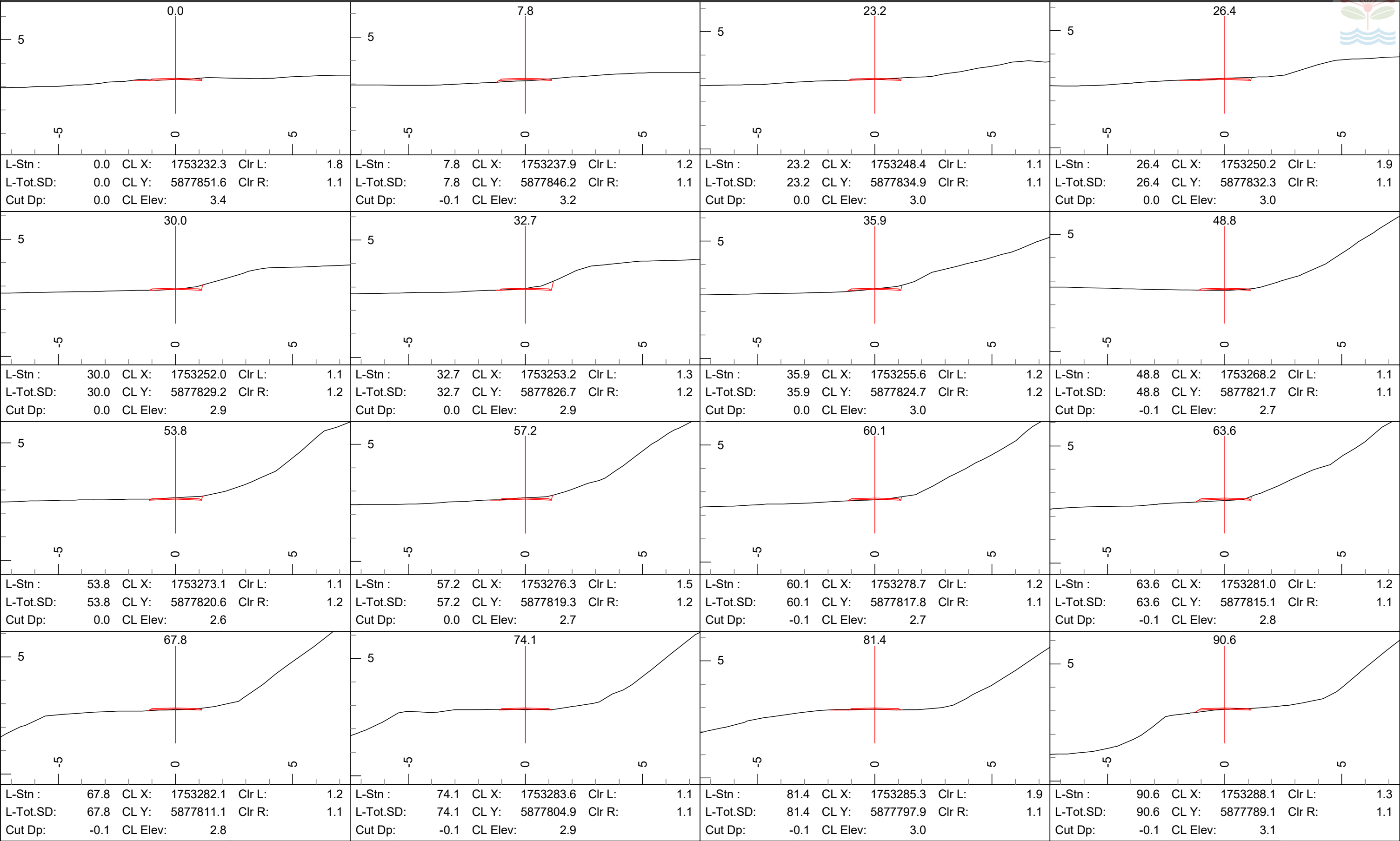
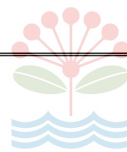








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	Auckland Council Te Kaunihera o Tāmaki Makaurau	WAIUKU TRAIL WALKWAY SANDSPIT RESERVE	PLAN AND PROFILE	Plan Scale 1:500 Profile Vert Scale 1:500 @ A3 Profile Horz Scale 1:500	NOVEMBER 2025		
				DRAWN JR	DESIGNED BS	APPROVED DK	FGL JOB 23/111
				DRAWING PACKAGE VERSION 2. FOR ISSUE / CONSENT		DRAWING 23/111-05	REV C



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PROJECT

WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

TITLE

CROSS SECTIONS

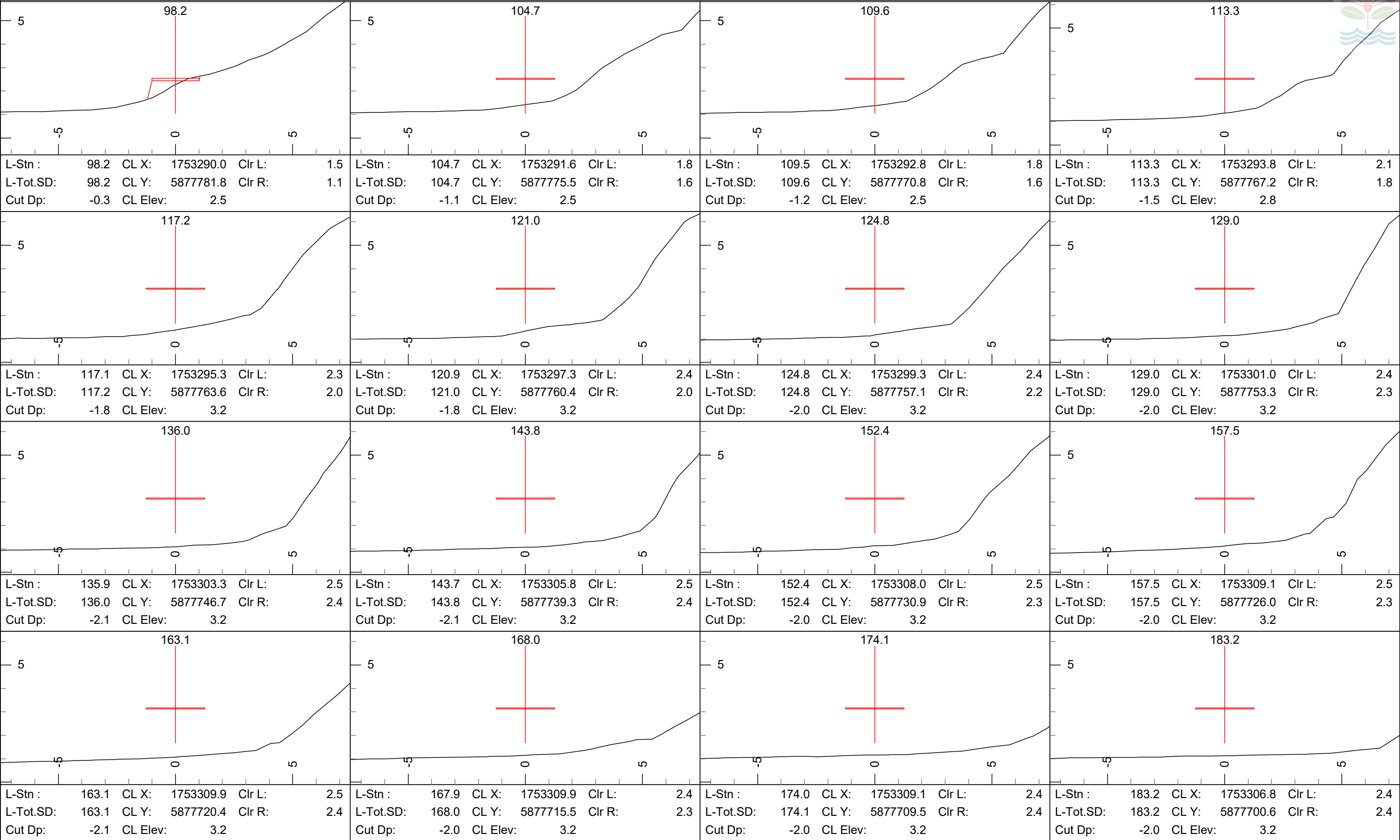
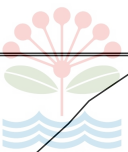
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Section Scale 1:150 @ A3

DRAWN	DESIGNED	APPROVED	FGL JOB
JR	BS	DK	23/111
DRAWING PACKAGE VERSION			REV
2. FOR ISSUE / CONSENT			A

DATE:

AUGUST 2025





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PREPARED FOR



PROJECT

WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

TITLE

CROSS SECTIONS

SCALE

Section Scale 1:150 @ A3

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JR	BS	DK	23/111

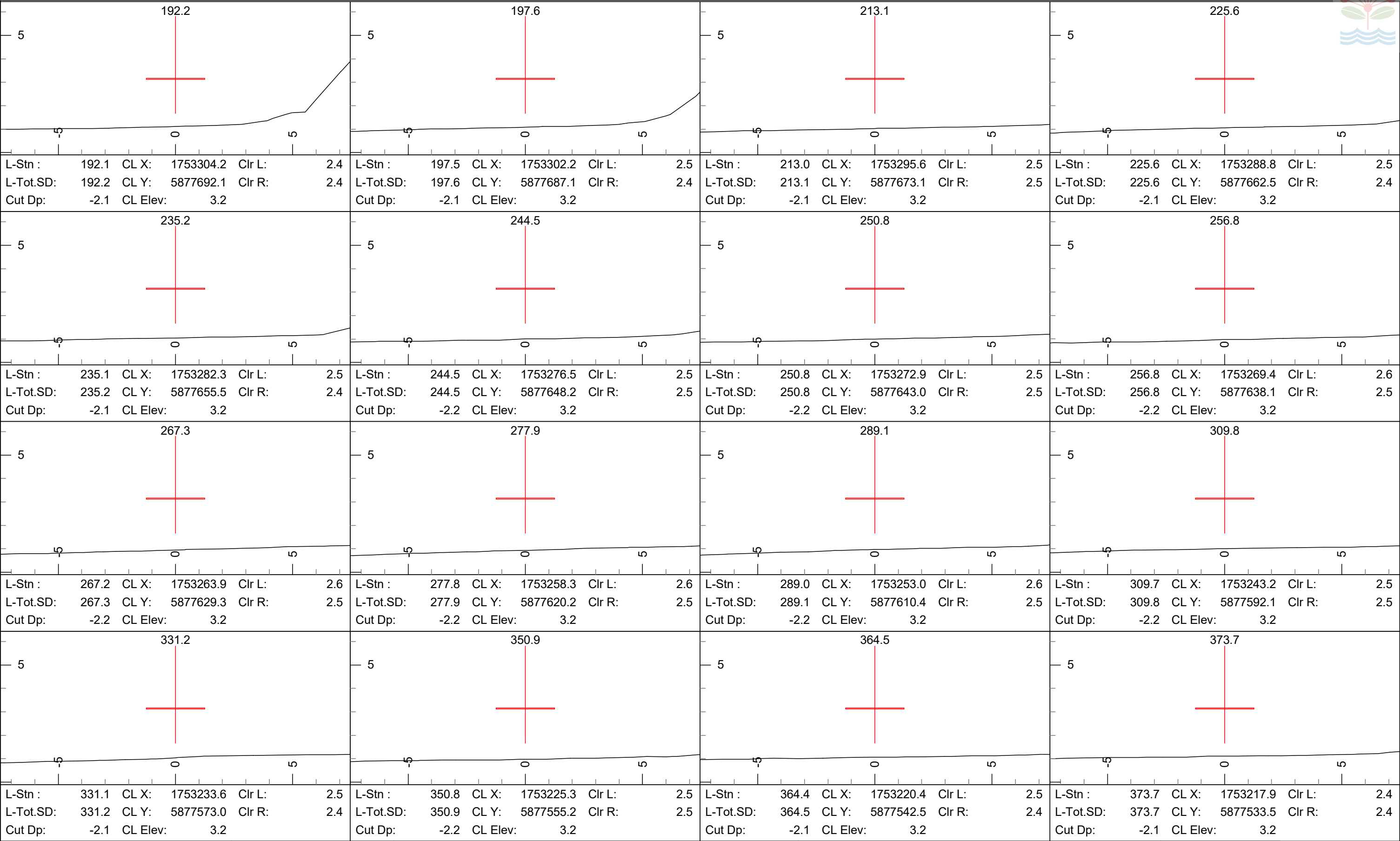
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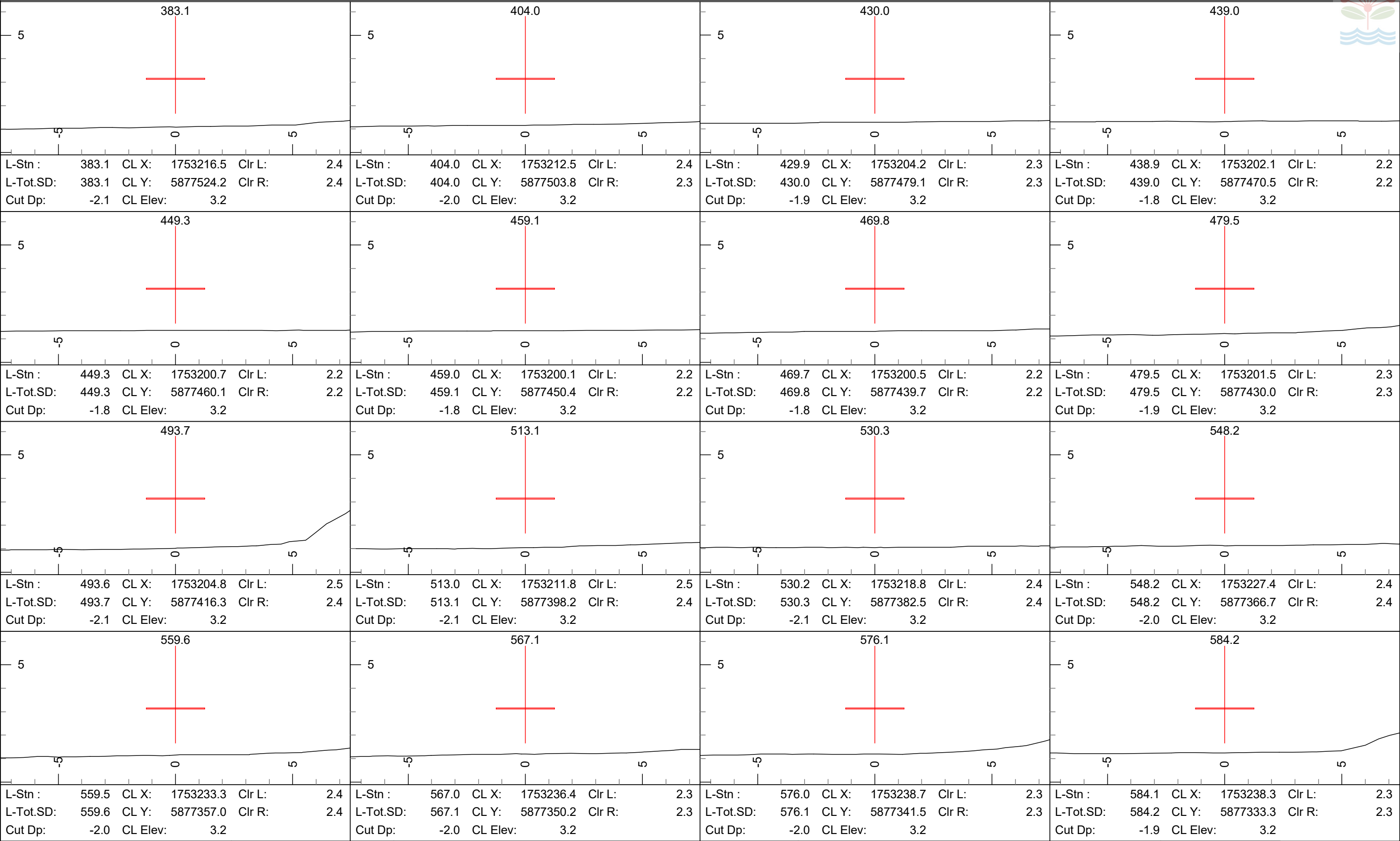
DATE:

AUGUST 2025

DRAWING	REV
23/111-07	A



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	 Te Kaunihera o Tāmaki Makaurau	WAIUKU TRAIL WALKWAY SANDSPIT RESERVE	CROSS SECTIONS	Section Scale 1:150 @ A3	AUGUST 2025
				DRAWN JR	DESIGNED BS
				DRAWING PACKAGE VERSION 2. FOR ISSUE / CONSENT	DRAWING 23/111-08
					REV A



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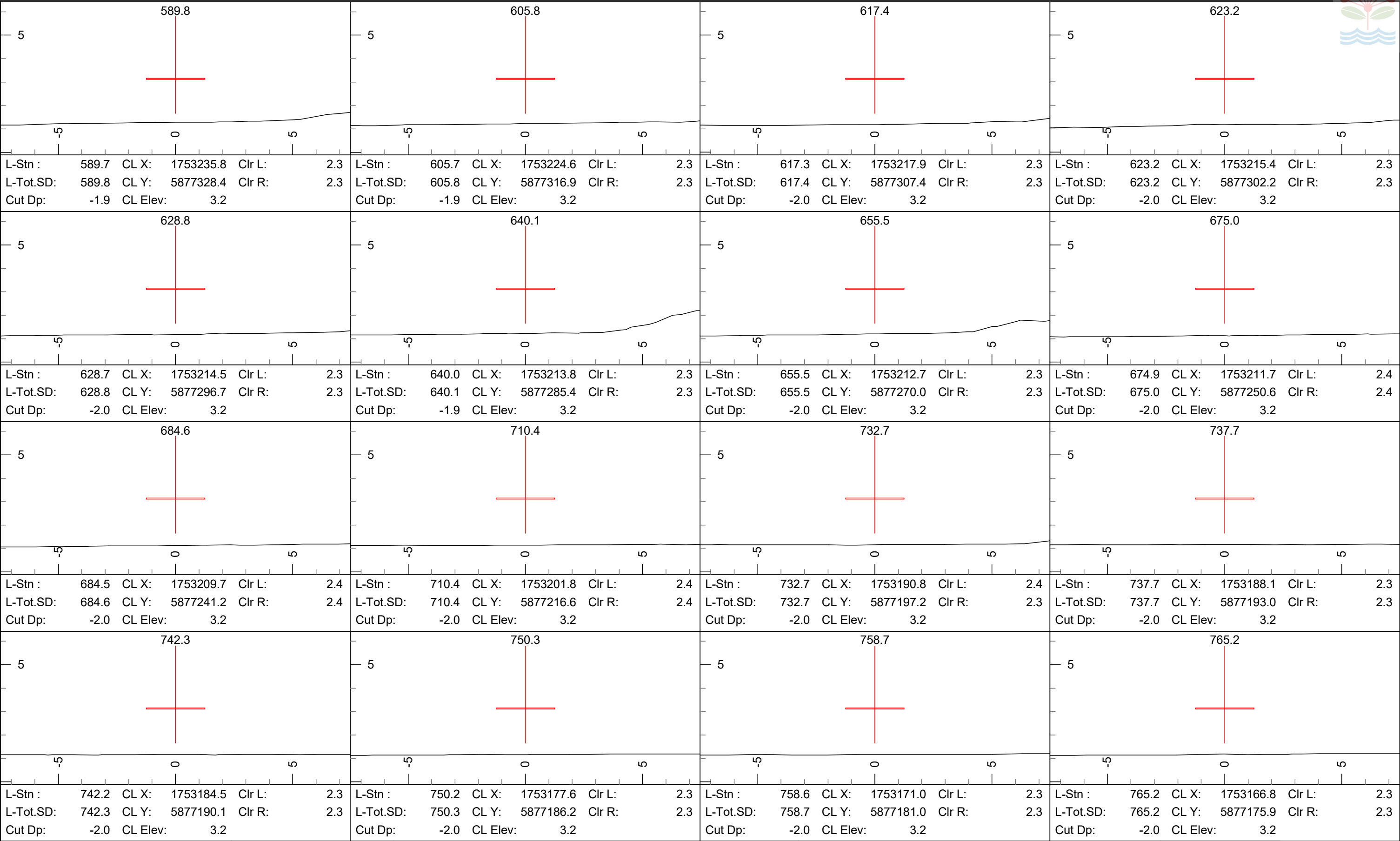
PROJECT

WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

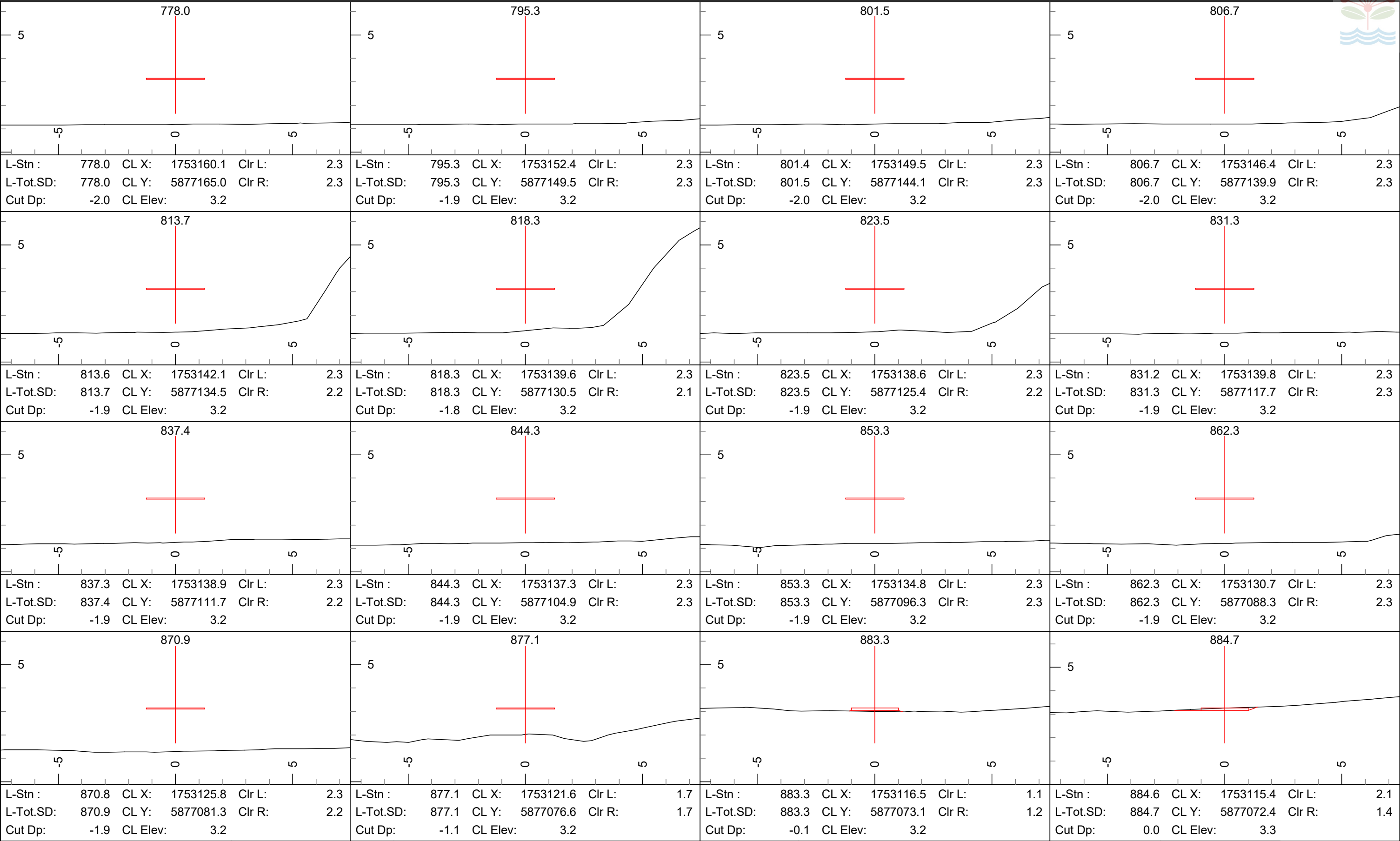
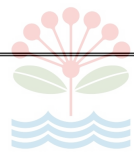
TITLE

CROSS SECTIONS

SCALE Section Scale 1:150 @ A3			DATE: AUGUST 2025	
DRAWN JR	DESIGNED BS	APPROVED DK	FGL JOB 23/111	
DRAWING PACKAGE VERSION 2. FOR ISSUE / CONSENT			DRAWING 23/111-09	REV A



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	 Te Kaunihera o Tāmaki Makaurau	WAIUKU TRAIL WALKWAY SANDSPIT RESERVE	CROSS SECTIONS	Section Scale 1:150 @ A3	AUGUST 2025	
				DRAWN JR	DESIGNED BS	APPROVED DK
				DRAWING PACKAGE VERSION 2. FOR ISSUE / CONSENT	DRAWING 23/111-10	REV A





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Auckland Council
Te Kaunihera o Tāmaki Makaurau

PROJECT

WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

TITLE

CROSS SECTIONS

SCALE
Section Scale 1:150 @ A3

DRAWN
JR

DESIGNED
BS

APPROVED
DK

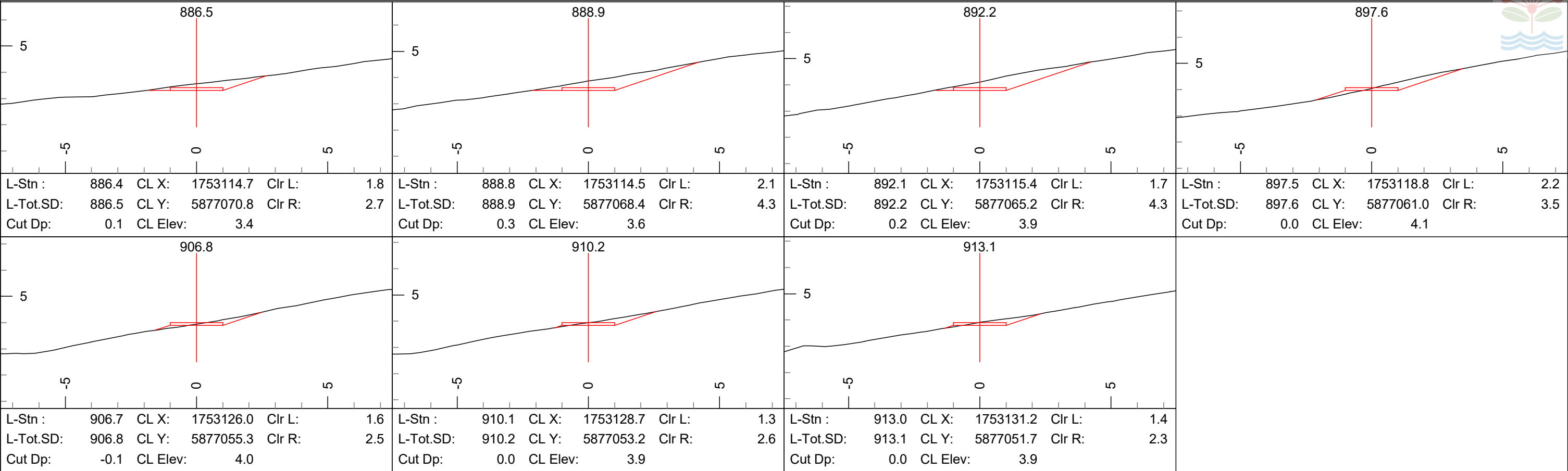
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2. FOR ISSUE / CONSENT

DATE:
AUGUST 2025

FGL JOB
23/111

DRAWING
23/111-11

REV
A

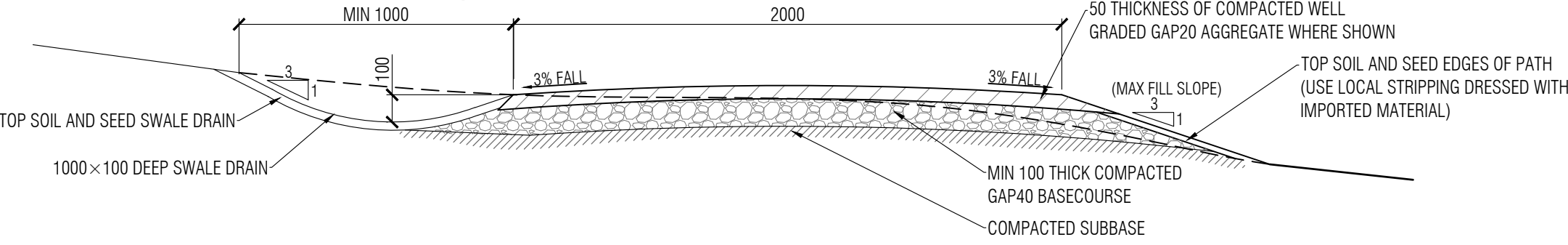


 Ph: (09) 638-7221 www.frame.co.nz	PREPARED FOR 	PROJECT WAIUKU TRAIL WALKWAY SANDSPIT RESERVE	TITLE CROSS SECTIONS	SCALE Section Scale 1:150 @ A3		DATE: AUGUST 2025	
				DRAWN JR	DESIGNED BS	APPROVED DK	FGL JOB 23/111
				DRAWING PACKAGE VERSION 2. FOR ISSUE / CONSENT		DRAWING 23/111-12	REV A

Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ

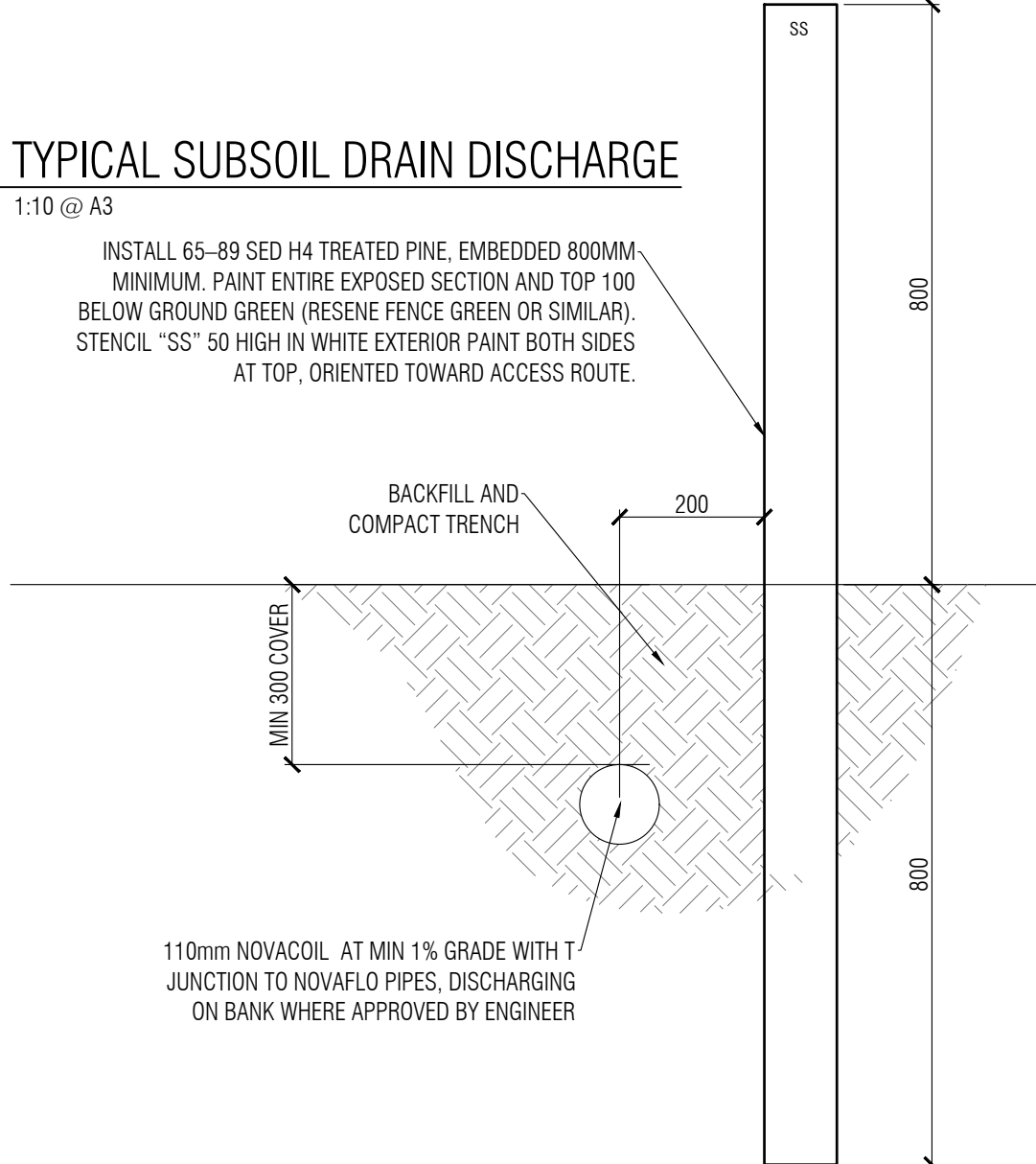


01 TYPICAL CROWNED AGGREGATE WALKWAY
DWG - 1:20 @ A3

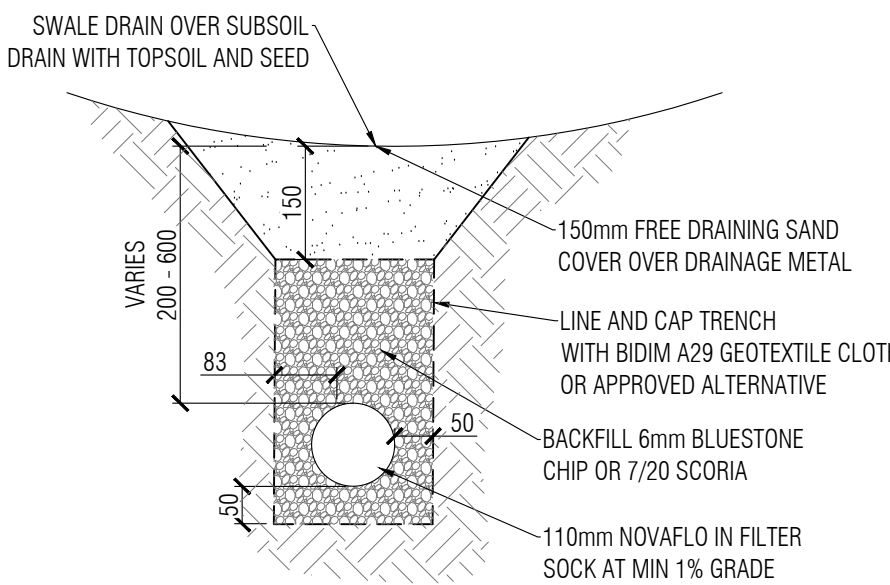


02 TYPICAL SUBSOIL DRAIN DISCHARGE
DWG - 1:10 @ A3

INSTALL 65-89 SED H4 TREATED PINE, EMBEDDED 800MM MINIMUM. PAINT ENTIRE EXPOSED SECTION AND TOP 100 BELOW GROUND GREEN (RESENE FENCE GREEN OR SIMILAR). STENCIL "SS" 50 HIGH IN WHITE EXTERIOR PAINT BOTH SIDES AT TOP, ORIENTED TOWARD ACCESS ROUTE.

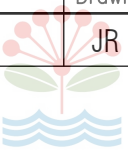


03 TYPICAL SUBSOIL DRAIN
DWG - 1:10 @ A3

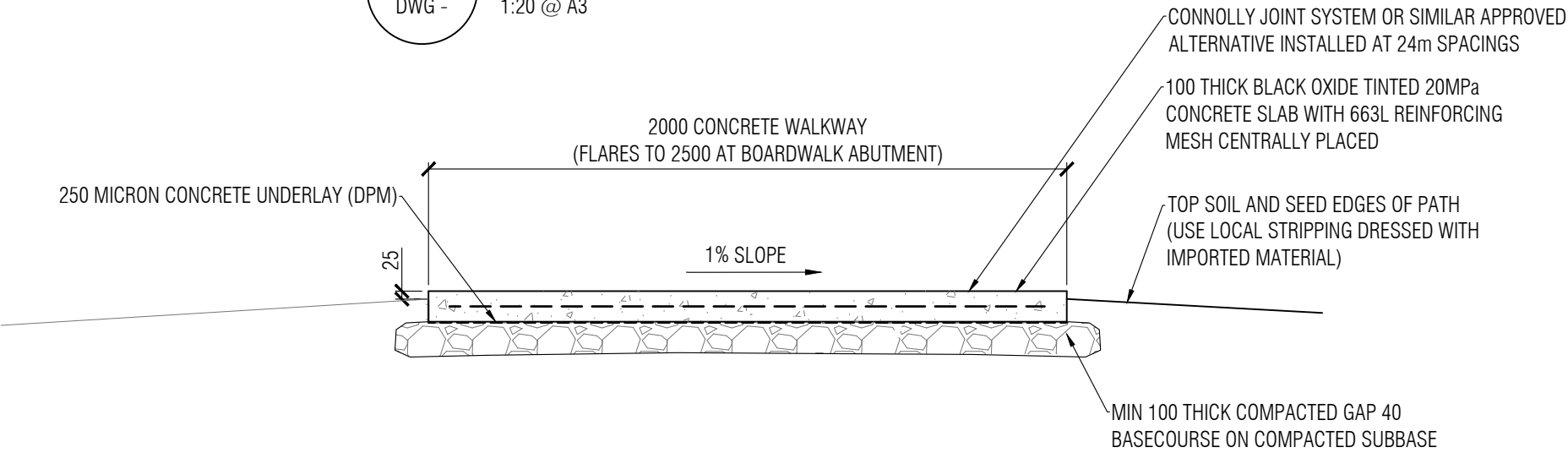


DO NOT SCALE

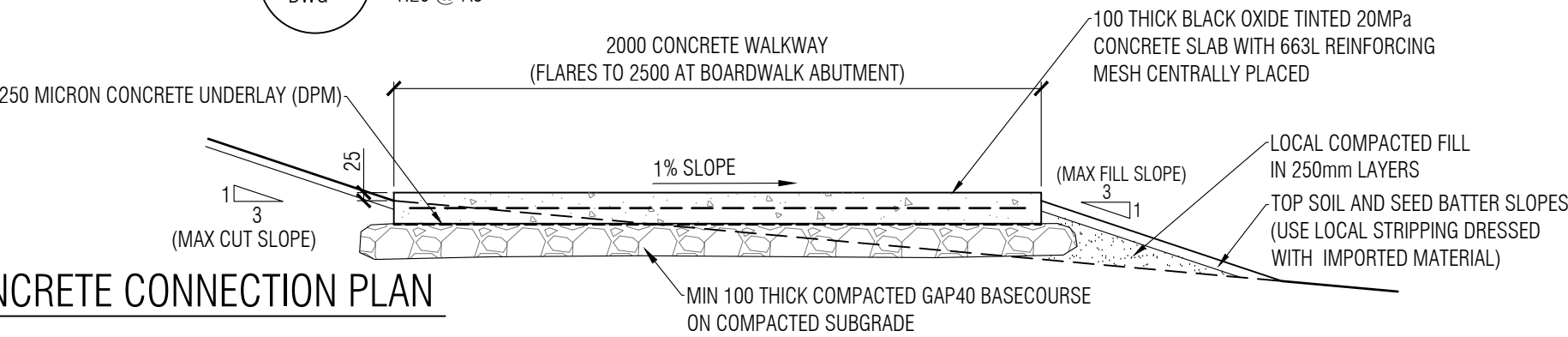
Rev	Date	Amendment	Drawn
A	28/07/25	PACKAGE UPDATE	JR



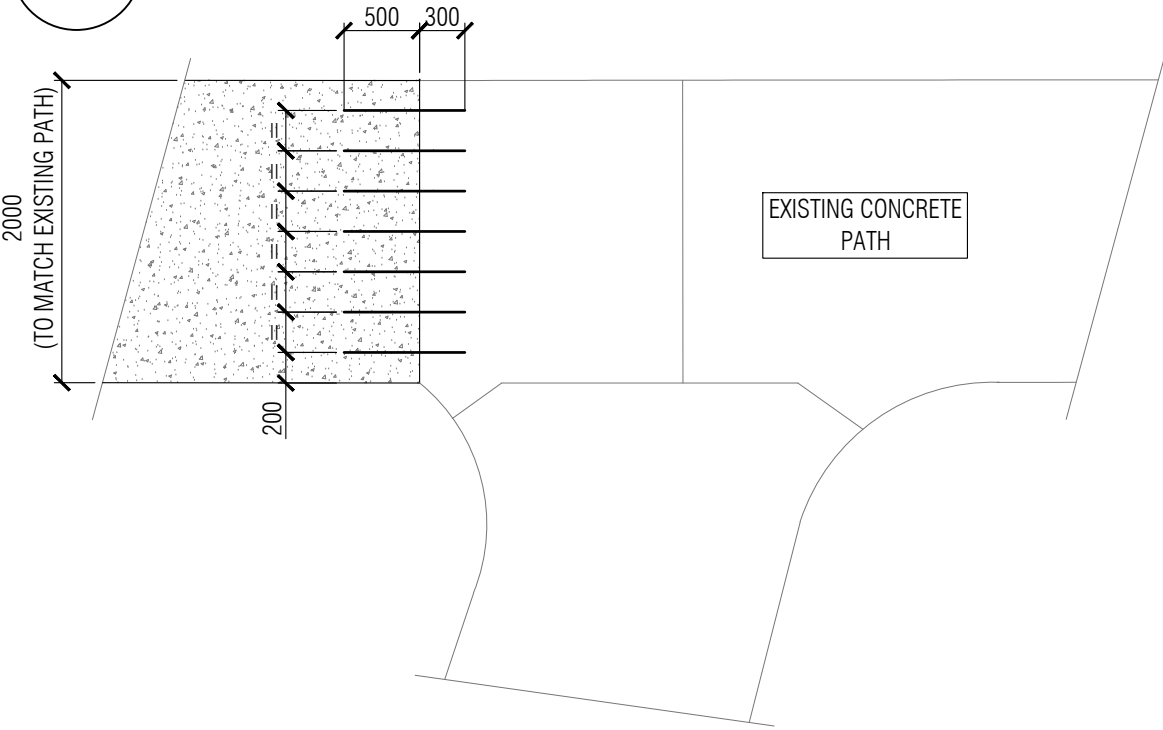
04 TYPICAL CONCRETE WALKWAY FORMATION
DWG - 1:20 @ A3



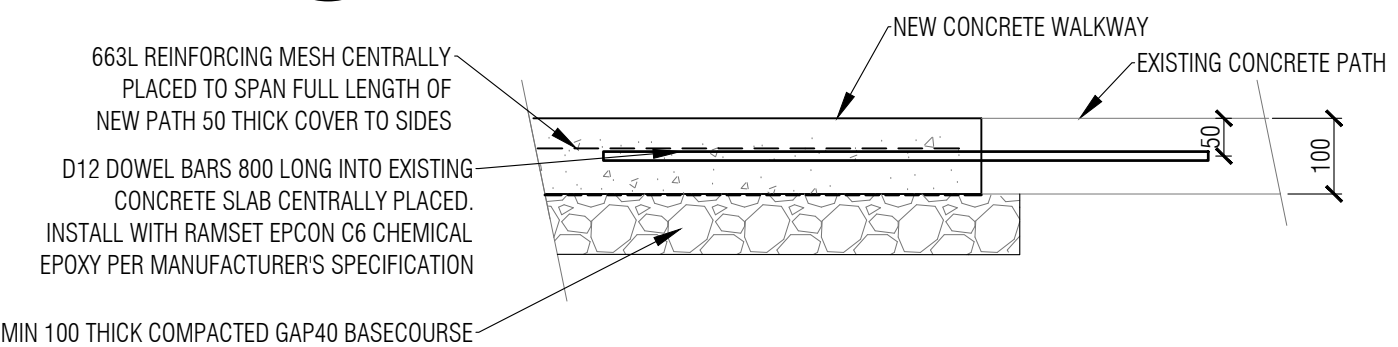
05 BENCHED CONCRETE WALKWAY FORMATION
DWG - 1:20 @ A3



06 EXISTING CONCRETE CONNECTION PLAN
DWG - 1:50 @ A3



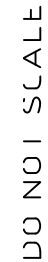
07 CONNECTION TO EXISTING CONCRETE DETAIL
DWG - 1:10 @ A3



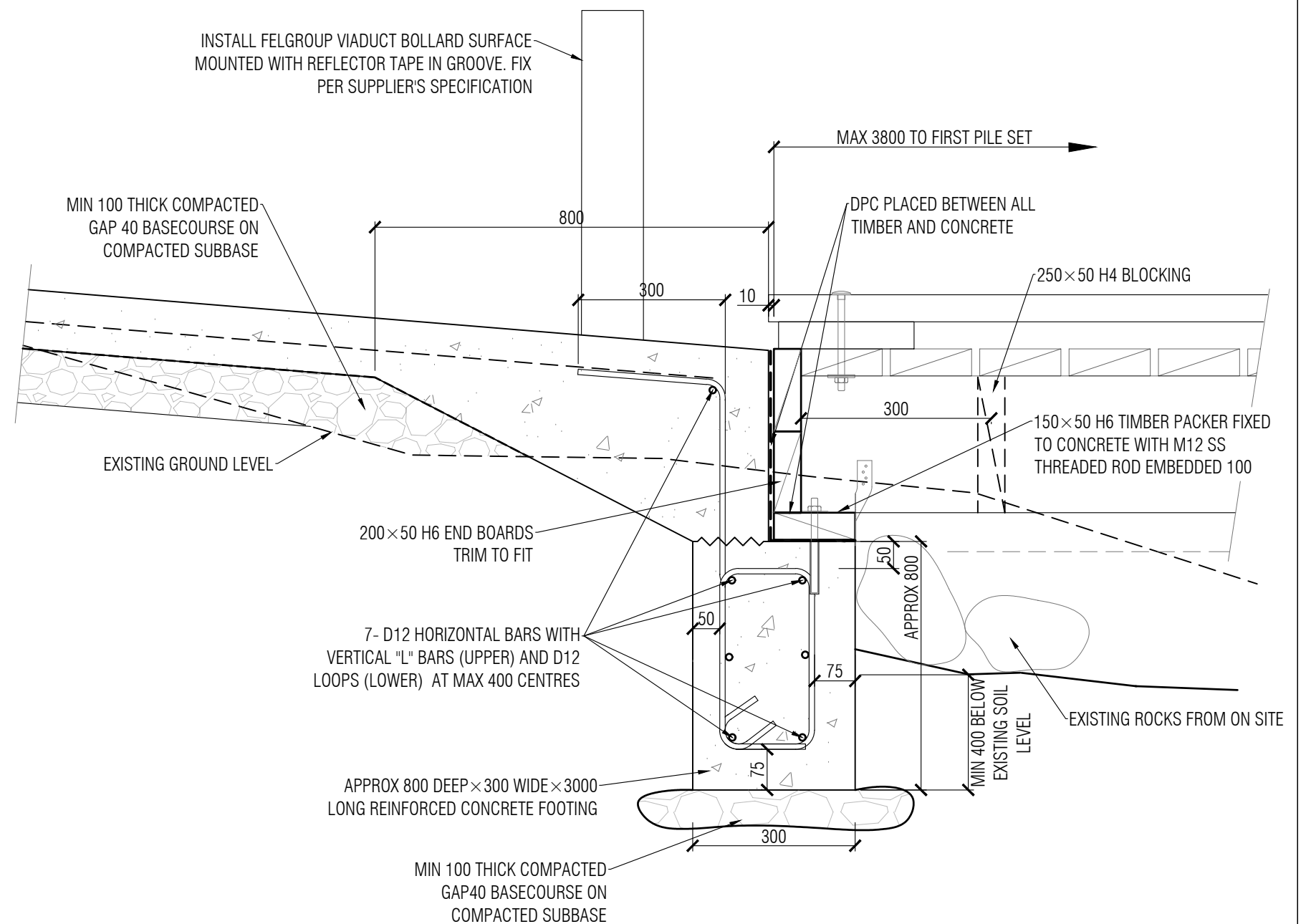
WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

CONCRETE WALKWAY
CONSTRUCTION DETAILS

SCALE			AS SHOWN		DATE		AUGUST 2025	
DRAWN		DESIGNED		APPROVED		FGL JOB		
SM		BS		DK		23/111		
DRAWING PACKAGE VERSION					DRAWING No.			REV
2. FOR ISSUE / CONSENT					23/111-14			A

EQ

DWG - 1:10 @ A3



Auckland Council
Te Kaunihera o Tāmaki Makaurau

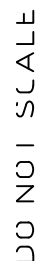
WAIUKU TRAIL WALKWAY SANDSPIT RESERVE

NORTH END ABUTMENT PLAN

FGL JOB	23/111
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DRAWING No.	REV
23/111-15	B

	EQ
	SZ



PROJECT

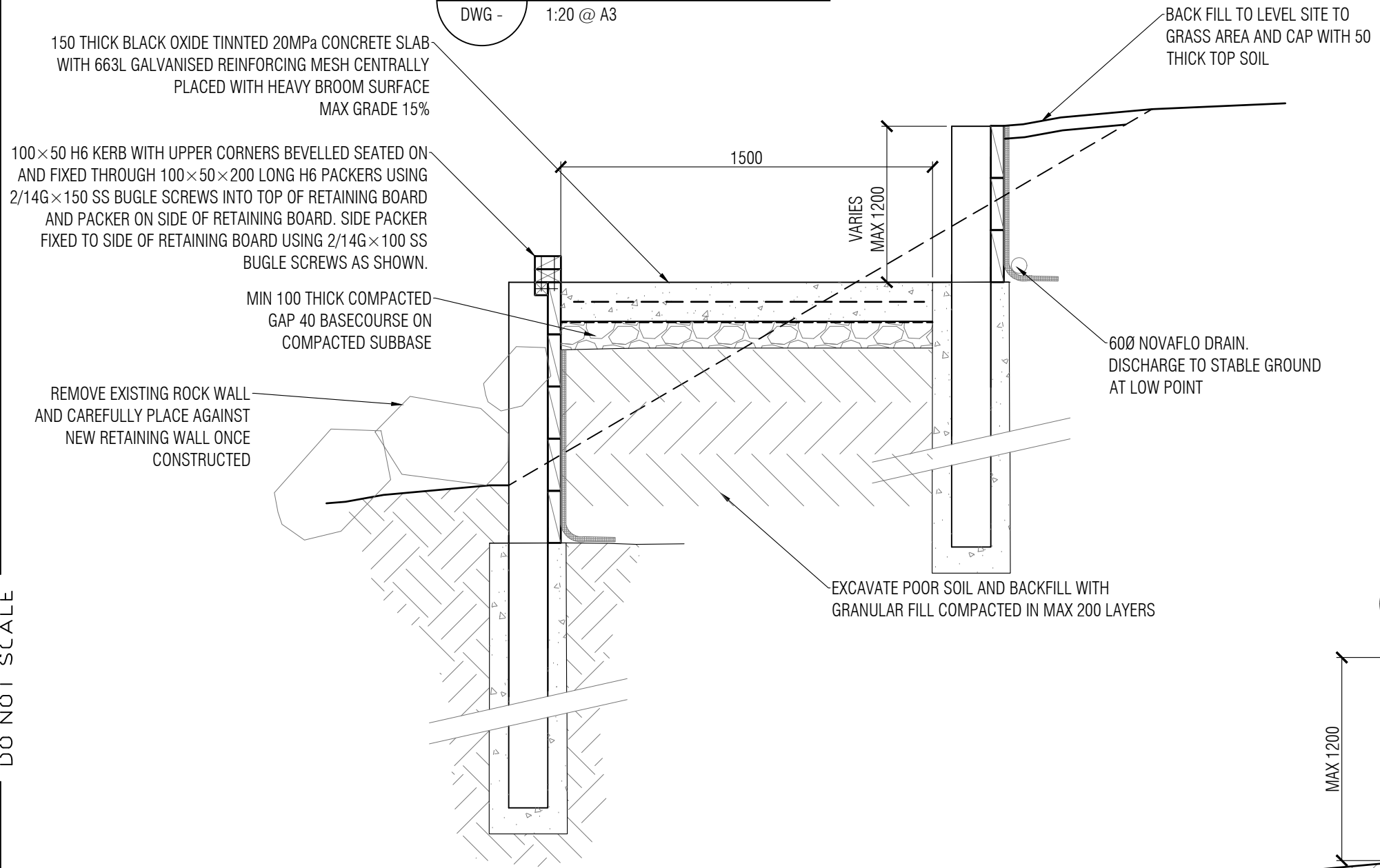
	TITLE
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SCALE			DATE		
AS SHOWN			AUGUST 2025		
DRAWN	DESIGNED	APPROVED	FGL JOB		
SM	BS	DK	23/111		
DRAWING PACKAGE VERSION			DRAWING No.		REV
2 FOR ISSUE / CONSENT			23/111-16		0

Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ



10 TYPICAL KAYAK RAMP
DWG - 1:20 @ A3



11 TYPICAL RETAINING WALL DETAIL
DWG - 1:20 @ A3

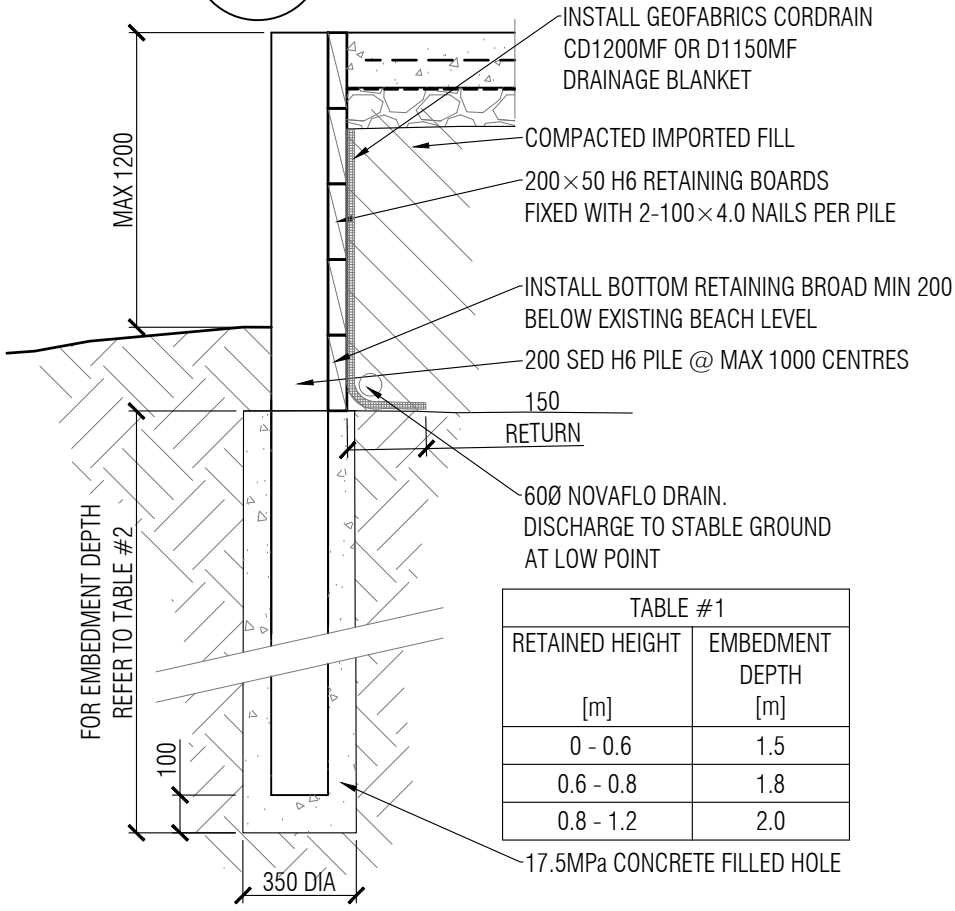
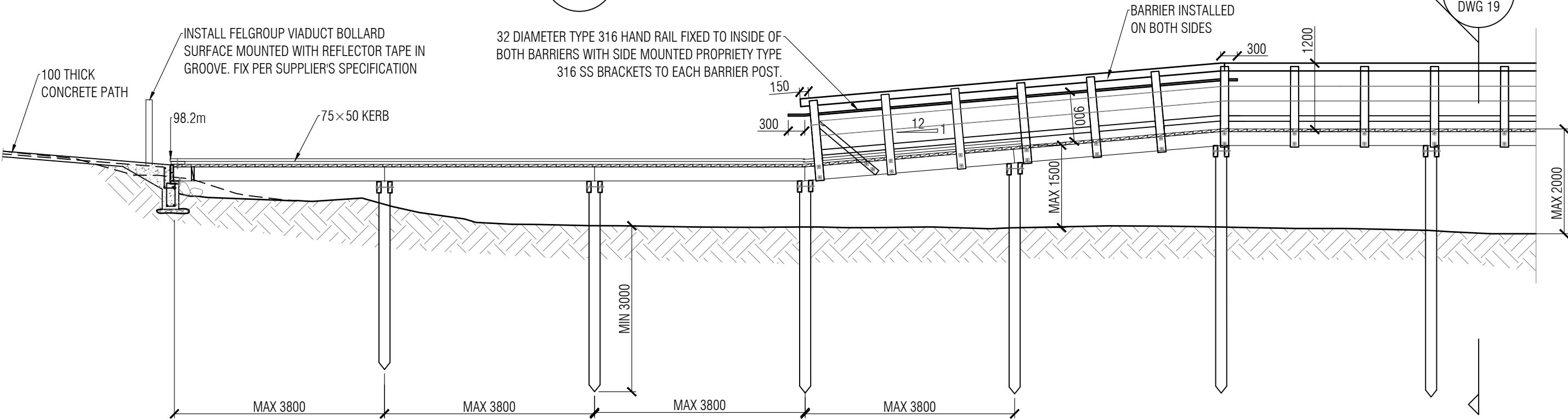


TABLE #1	
RETAINED HEIGHT [m]	EMBEDMENT DEPTH [m]
0 - 0.6	1.5
0.6 - 0.8	1.8
0.8 - 1.2	2.0

Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ
C	15/09/25	HAND RAIL EXTENDED	SZ
D	17/09/25	HAND RAIL NOTE AMENDED	SZ

CONTRACTOR TO CHECK AND CONFIRM
ALL LEVELS AND DIMENSIONS ON SITE

12 NORTH END BOARDWALK ELEVATION
DWG - 1:75 @ A3



- PILE DRIVING NOTES:
1. REFER TO 'SECTION 7. PILE DRIVING' IN THE TECHNICAL SPECIFICATIONS FOR MORE REQUIREMENTS.
 2. CONTRACTOR TO PROVIDE ENGINEER WITH PILE DRIVING METHODOLOGY BEFORE INSTALLATION INCLUDING HAMMER TYPE, HAMMER WEIGHT, MACHINE SPECIFICATION AND DROP HEIGHT.
 3. FOUNDATION REQUIREMENTS TO BE CONFIRMED BY ENGINEER IF FINAL SET ON DRIVEN PILES IS NOT ACHIEVED. CONTRACTOR TO NOTIFY ENGINEER.
 4. ENGINEER TO OBSERVE INITIAL PILES BEING DRIVEN AND AN AGREED SAMPLE OF SUBSEQUENT PILES TO CONFIRM THAT FINAL ULTIMATE BEARING CAPACITY IS ACHIEVED.
 5. MINIMUM PILE DEPTH MAY BE REVISED BY ENGINEER FOLLOWING INITIAL PILE DRIVING OBSERVATION TO ENSURE SUBSEQUENT PILES WILL ACHIEVE ADEQUATE FINAL LOAD CAPACITY.
 6. ENGINEER TO ADVISE ON MAXIMUM ALLOWABLE FINAL SET/BLOW PER PILE FOLLOWING INITIAL INSPECTION.
 7. EXPECTED GROUND CONDITIONS ARE AS PER 'GEOTECHNICAL REPORT - LTA23174 - WAIUKU WALKWAY - GIR - 30-11-23 - REV B'

THIS STRUCTURE IS DESIGNED IN ACCORDANCE
WITH SNZ HB 8630:2004
"TRACKS AND OUTDOOR VISITOR STRUCTURES"

DESIGN DETAILS	
SITE USER GROUP	URBAN RESIDENT
BARRIER DESIGN LOAD	0.75N/m
DECK DESIGN LOAD	3.2kPa
BARRIER TYPE	B
EFFECTIVE FALL HEIGHT	1.5m
FALL SURFACE	BENIGN



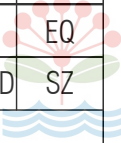
WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

BOARDWALK ELEVATION

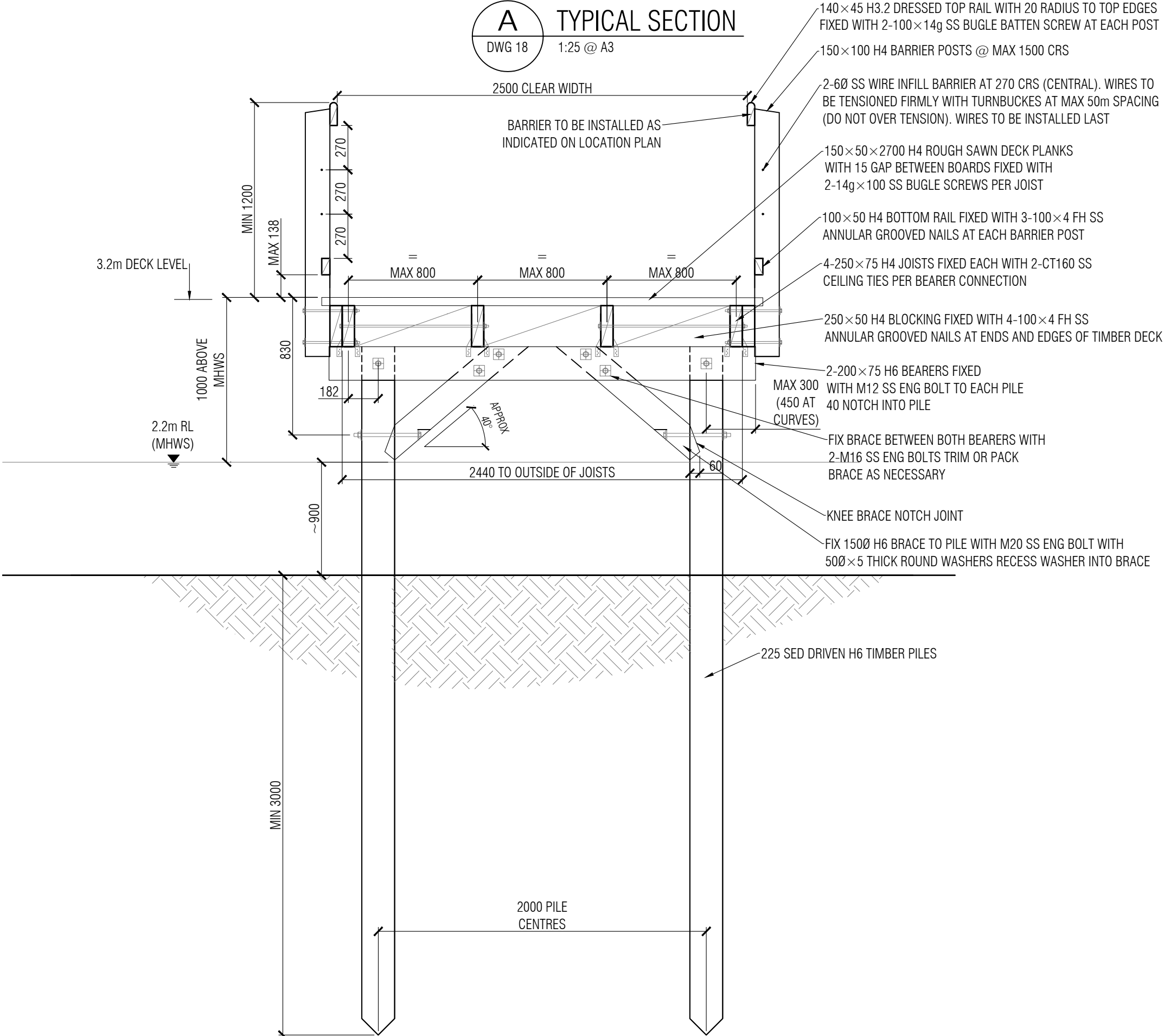
SCALE			DATE
AS SHOWN			AUGUST 2025
DRAWN	DESIGNED	APPROVED	FGL JOB
SM	BS	DK	23/111
DRAWING PACKAGE VERSION			DRAWING No.
2. FOR ISSUE / CONSENT			23/111-18
			REV
			D

A TYPICAL SECTION
DWG 18 1:25 @ A3

Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ
C	15/09/25	TIMBER PLANKS SPECIFIED	SZ



DO NOT SCALE



PROJECT

WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

TITLE

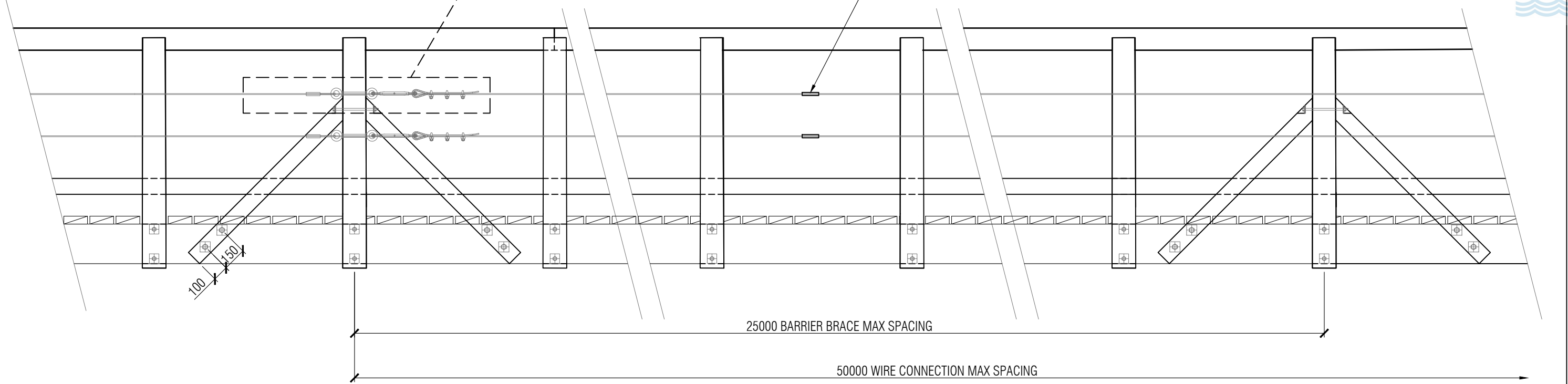
BOARDWALK SECTION

SCALE	AS SHOWN	DATE	AUGUST 2025
DRAWN	DESIGNED	APPROVED	FGL JOB
SM	BS	DK	23/111
DRAWING PACKAGE VERSION	DRAWING No.	REV	
2. FOR ISSUE / CONSENT	23/111-19	C	

15 BARRIER ELEVATION
DWG - 1:25 @ A3

18
DWG -

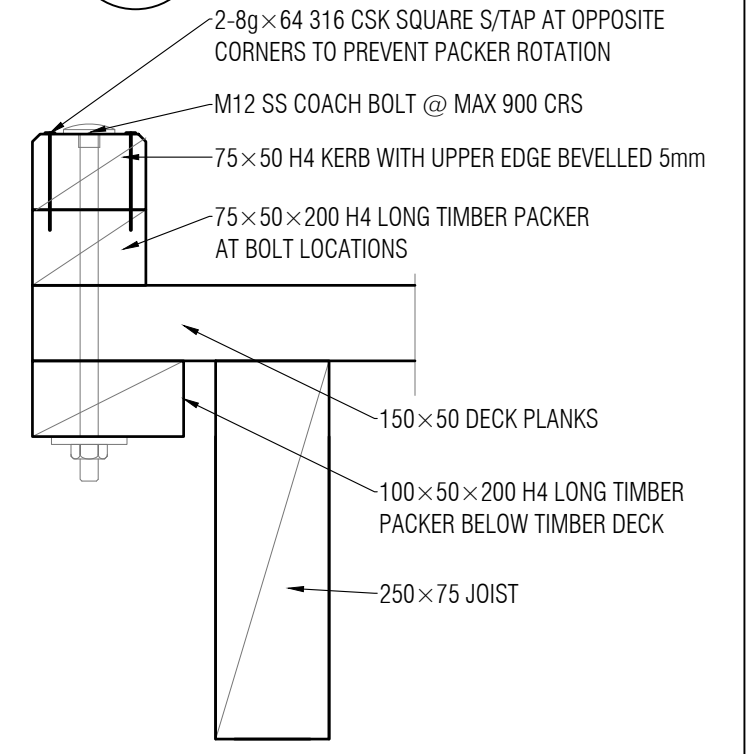
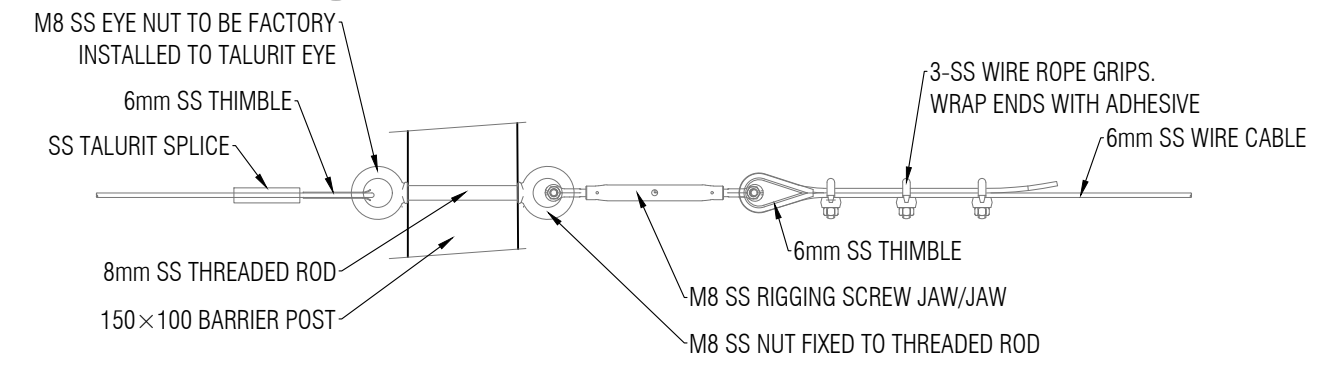
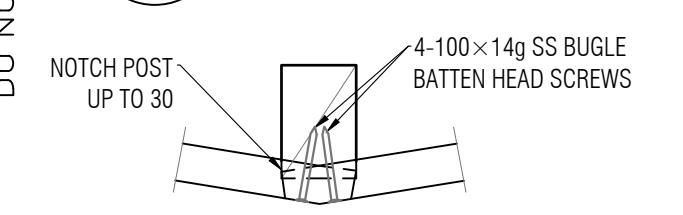
Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ



16 TOP RAIL SPLICE PLAN
DWG - 1:10 @ A3

18 WIRE ROPE CONNECTION AND TENSION DETAIL
DWG - 1:10 @ A3

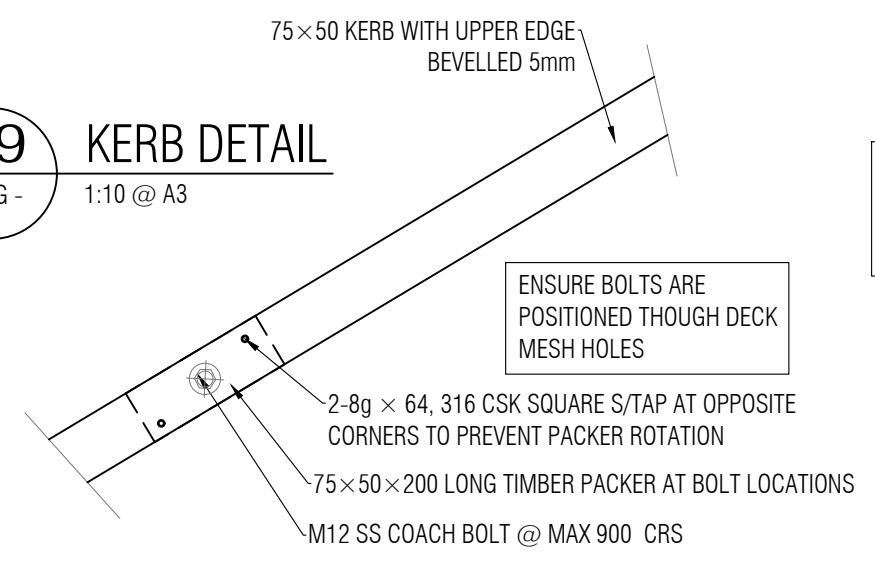
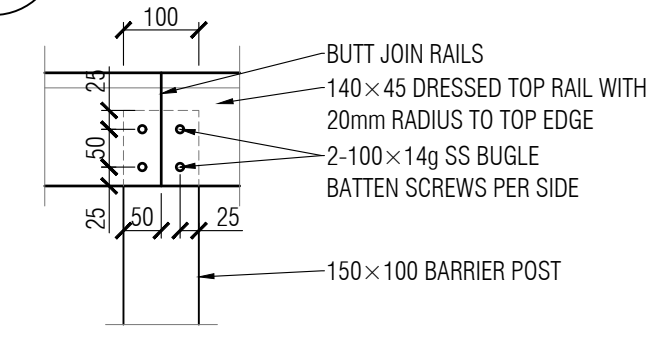
20 KERB SECTION
DWG - 1:5 @ A3



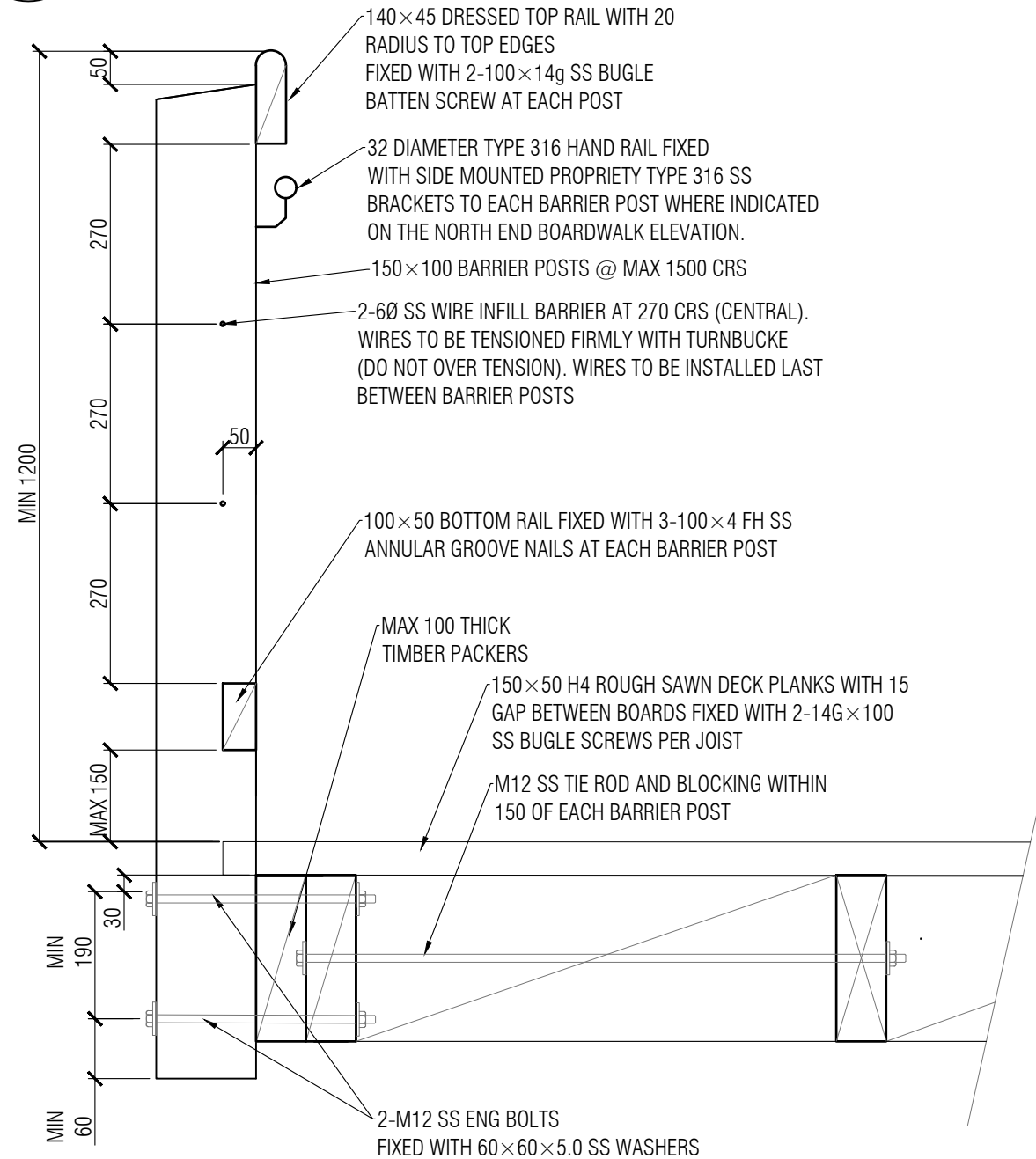
17 TOP RAIL SPLICE ELEVATION
DWG - 1:10 @ A3

19 KERB DETAIL
DWG - 1:10 @ A3

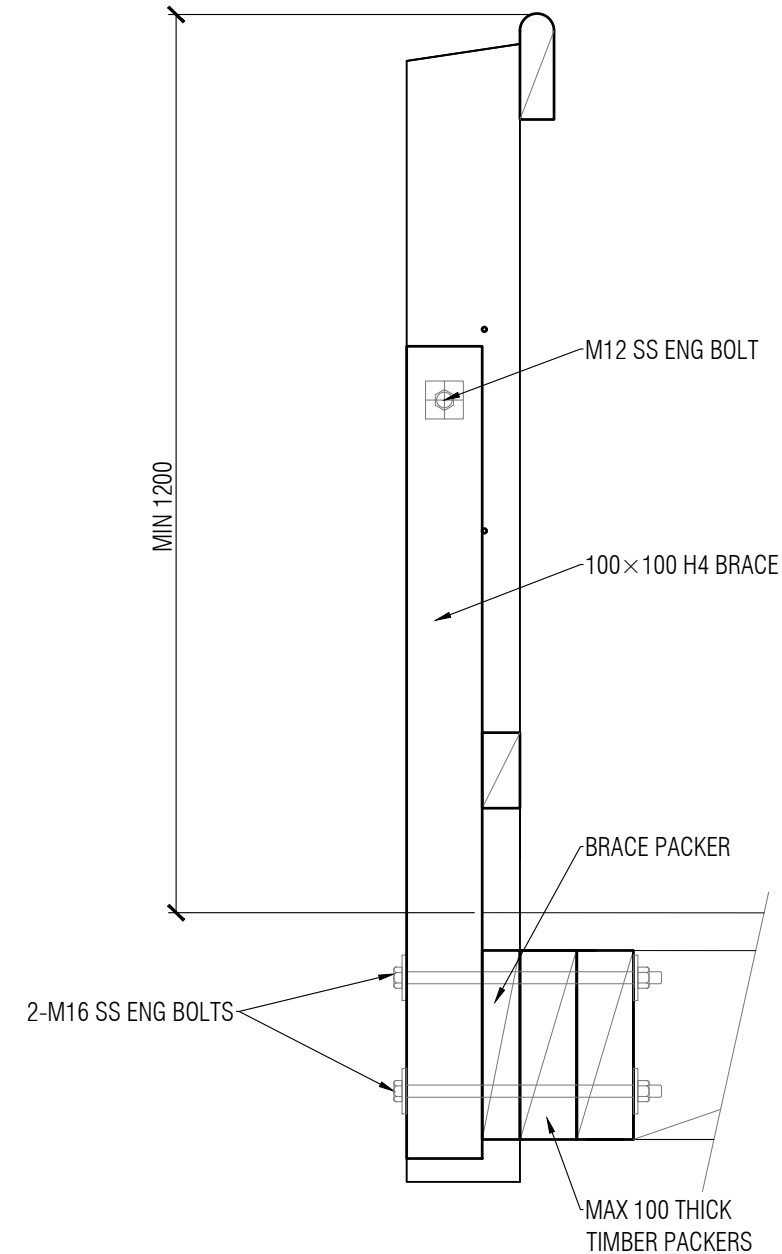
NOTE:
KERB TO BE USED WHERE
NO BARRIER REQUIRED AS
INSTRUCTED BY ENGINEER



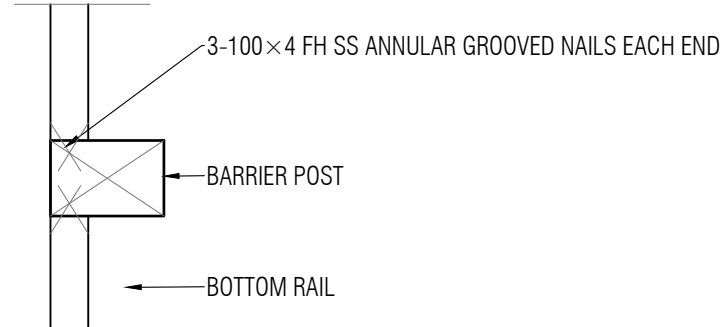
B TYPICAL SECTION
DWG - 1:25 @ A3



C BARRIER SECTION AT BRACE
DWG - 1:25 @ A3



D RAIL FIXING PLAN
DWG - 1:25 @ A3

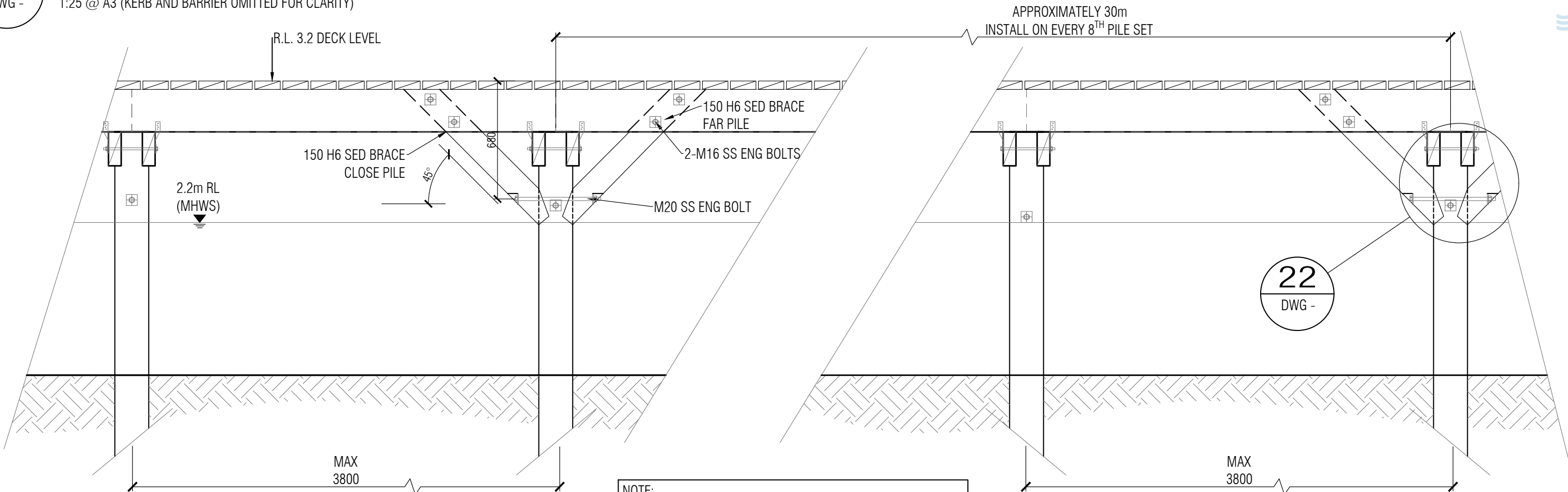


Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ
C	15/09/25	HAND RAIL ADDED	SZ
D	17/09/25	HAND RAIL NOTE AMENDED	SZ

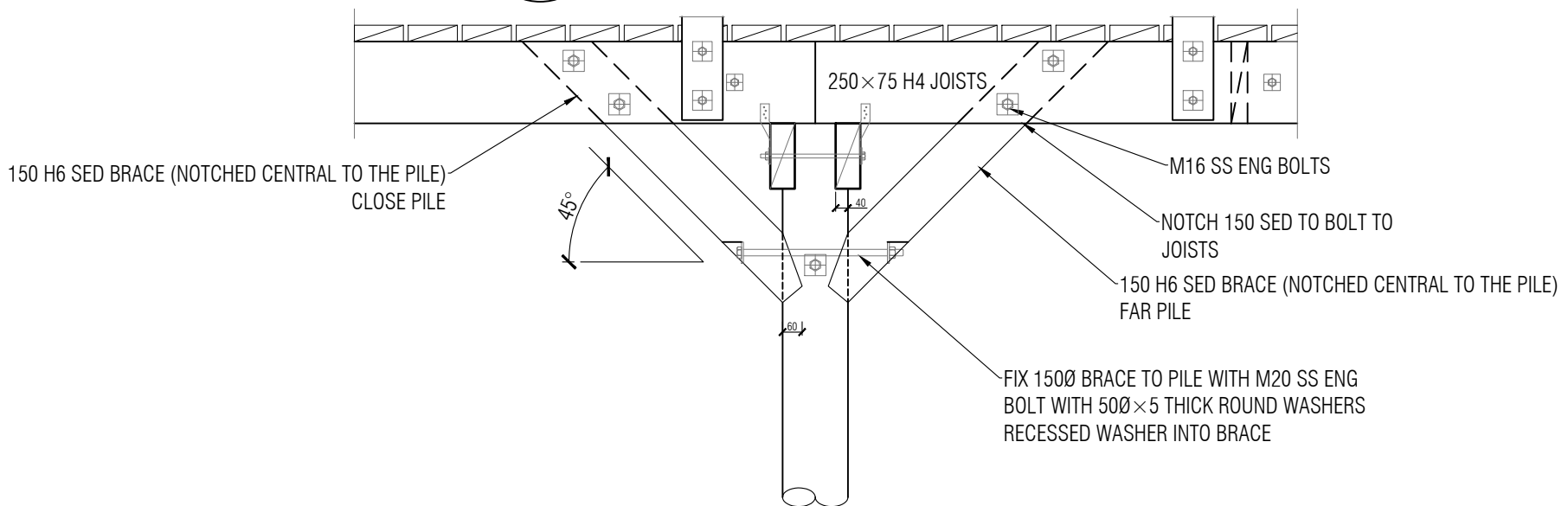
DO NOT SCALE

21 LONGITUDINAL BRACING ELEVATION
DWG - 1:25 @ A3 (KERB AND BARRIER OMITTED FOR CLARITY)

Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ



22 LONGITUDINAL BRACING DETAIL
DWG - 1:20 @ A3



WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

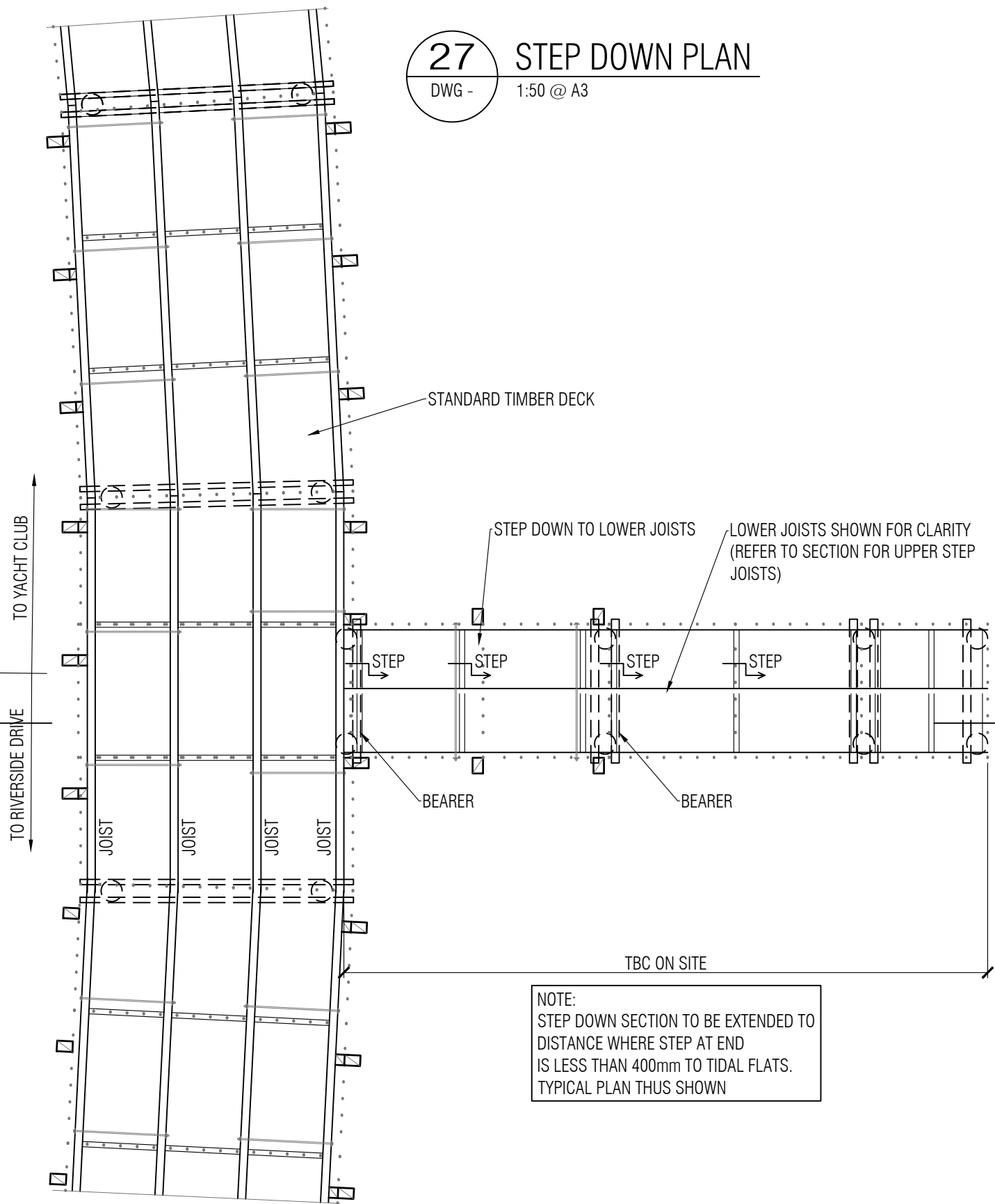
LONGITUDINAL BRACING
ELEVATION

SCALE	AS SHOWN	DATE	AUGUST 2025
DRAWN	DESIGNED	APPROVED	FGL JOB
SM	BS	DK	23/111
DRAWING PACKAGE VERSION			DRAWING No.
2. FOR ISSUE / CONSENT			23/111-23
			REV
			B

Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ



27 STEP DOWN PLAN
DWG - 1:50 @ A3



NOTE:
STEP DOWN SECTION TO BE EXTENDED TO
DISTANCE WHERE STEP AT END
IS LESS THAN 400mm TO TIDAL FLATS.
TYPICAL PLAN THUS SHOWN

DO NOT SCALE

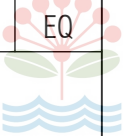


WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

STEP DOWN PLAN

SCALE	AS SHOWN	DATE	AUGUST 2025
DRAWN	DESIGNED	APPROVED	FGL JOB
SM	BS	DK	23/111
DRAWING PACKAGE VERSION			DRAWING No.
2. FOR ISSUE / CONSENT			23/111-26
			REV
			B

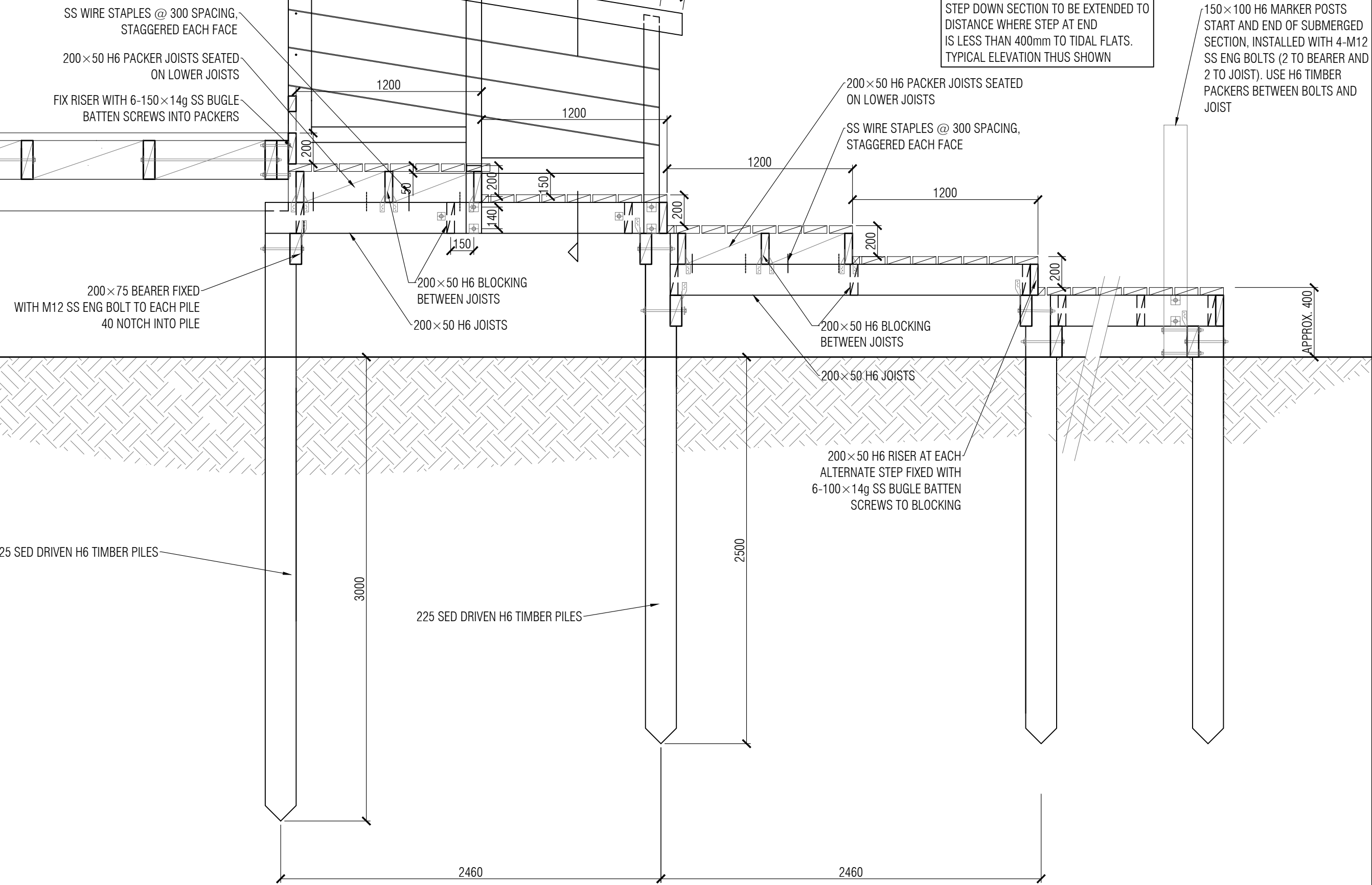
Rev	Date	Amendment	Drawn
B	26/08/25	PACKAGE UPDATE	EQ



28 STEP DOWN ELEVATION
DWG -- 1:25 @ A3



DO NOT SCALE



	EQ
D	SZ
	SZ

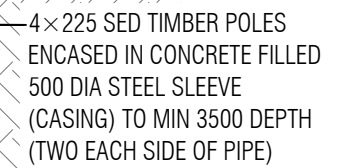
SECTION AT STEPS

DWG -

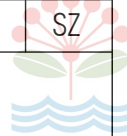


SECTION AT WASTE WATER PIPE

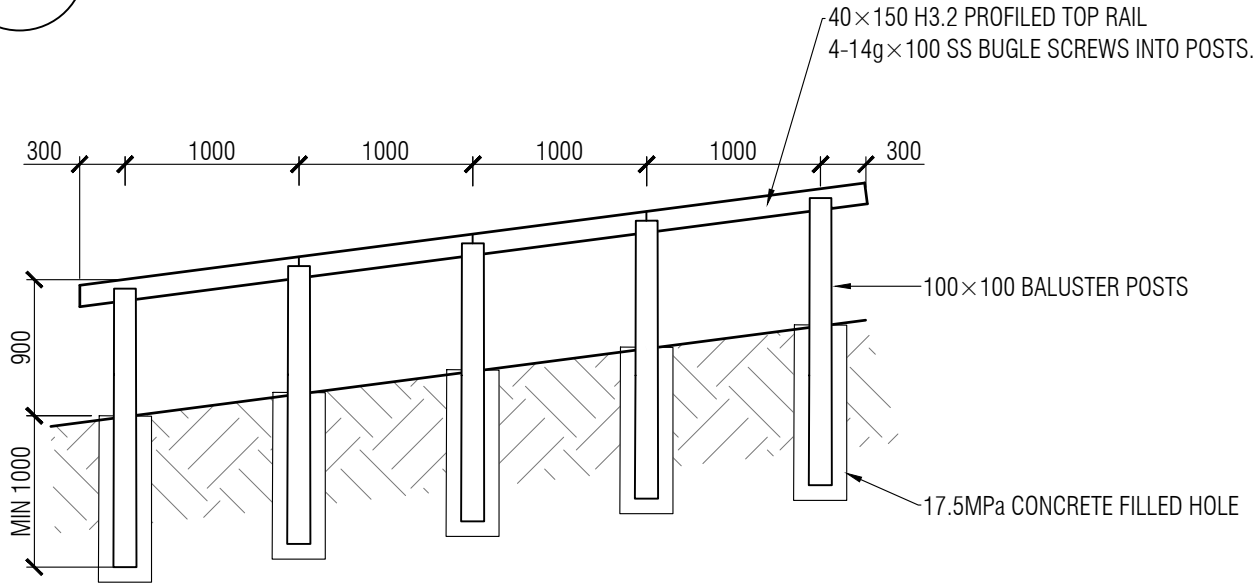
NOTE:
REFER TO SHEET 00
FOR PIPE LOCATION



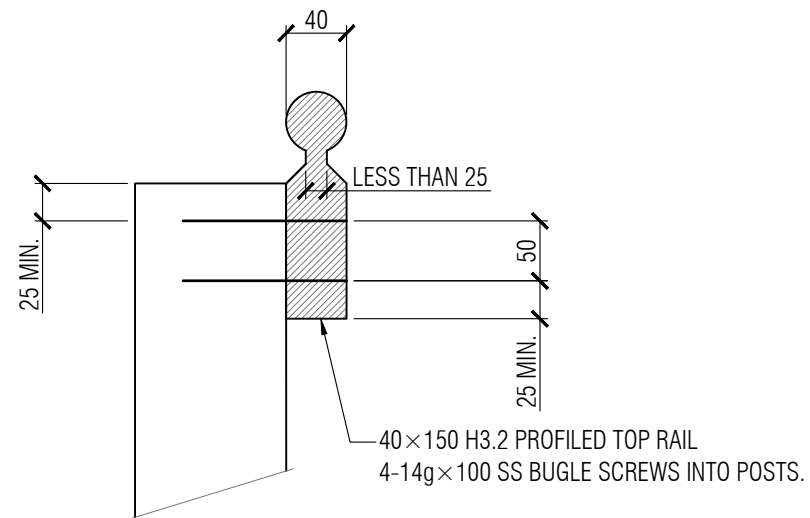
Rev	Date	Amendment	Drawn
A	15/09/25	HAND RAIL EXTENDED	SZ



30 HANDRAIL ELEVATION
DWG -- 1:50 @ A3



31 TOP RAIL SECTION
DWG -- 1:5 @ A3



DO NOT SCALE



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PREPARED FOR



PROJECT

WAIUKU TRAIL WALKWAY
SANDSPIT RESERVE

TITLE

TIMBER HANDRAIL WITH POST

SCALE AS SHOWN			DATE AUGUST 2025	
DRAWN EQ	DESIGNED BS	APPROVED DK	FGL JOB 23/111	
DRAWING PACKAGE VERSION 2. FOR ISSUE / CONSENT			DRAWING No. 23/111-29	REV A