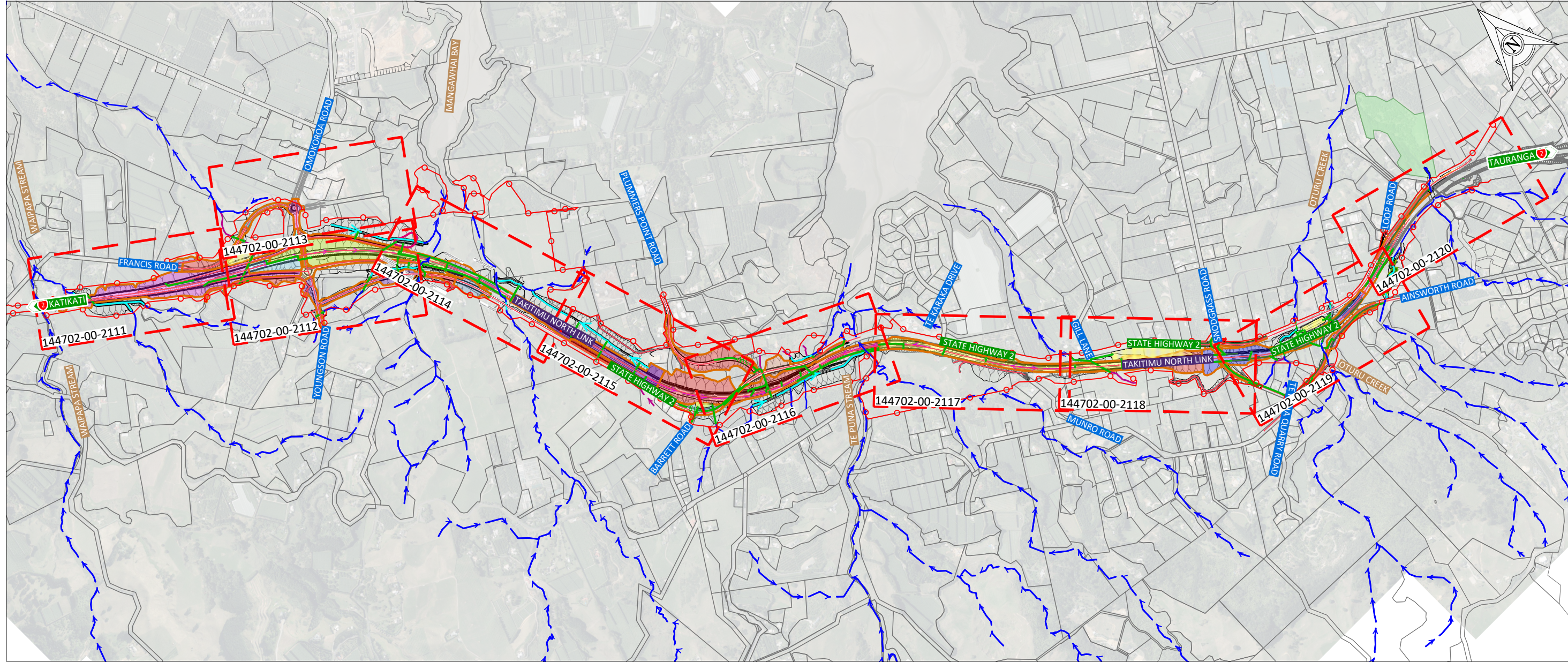


100mm

SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

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KEY: STREAM REALIGNMENT

DESIGN CUT BATTER

DESIGN FILL BATTER

BERM

EXISTING STREAMS

EXISTING CULVERTS

DRAINAGE WAYS

STREAM REALIGNMENT

PROPOSED CULVERTS

PROPOSED BRIDGE

PROPOSED OPEN DRAIN/SWALES

PROPOSED TREATMENT WETLAND

PROPOSED ATTENUATION DEVICE

PROPOSED ATTENUATION AND TREATMENT WETLAND

G	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	PK	EV
F	24.02.2025	UPDATE AFTER TNL-1 WESTERN TIE-IN RE-DESIGN	GK	EV	EV		
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	SP	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV	SB	mx model version:	
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		

NZ TRANSPORT AGENCY
WAKA KOTAHİ

CLIENT
TAKITIMU NORTH LINK STAGE 2

DRAWING
STORMWATER MANAGEMENT OVERVIEW PLAN

STATUS
PRELIMINARY

DATE
03.03.2021

DRAWING NUMBER
144702-00-2110

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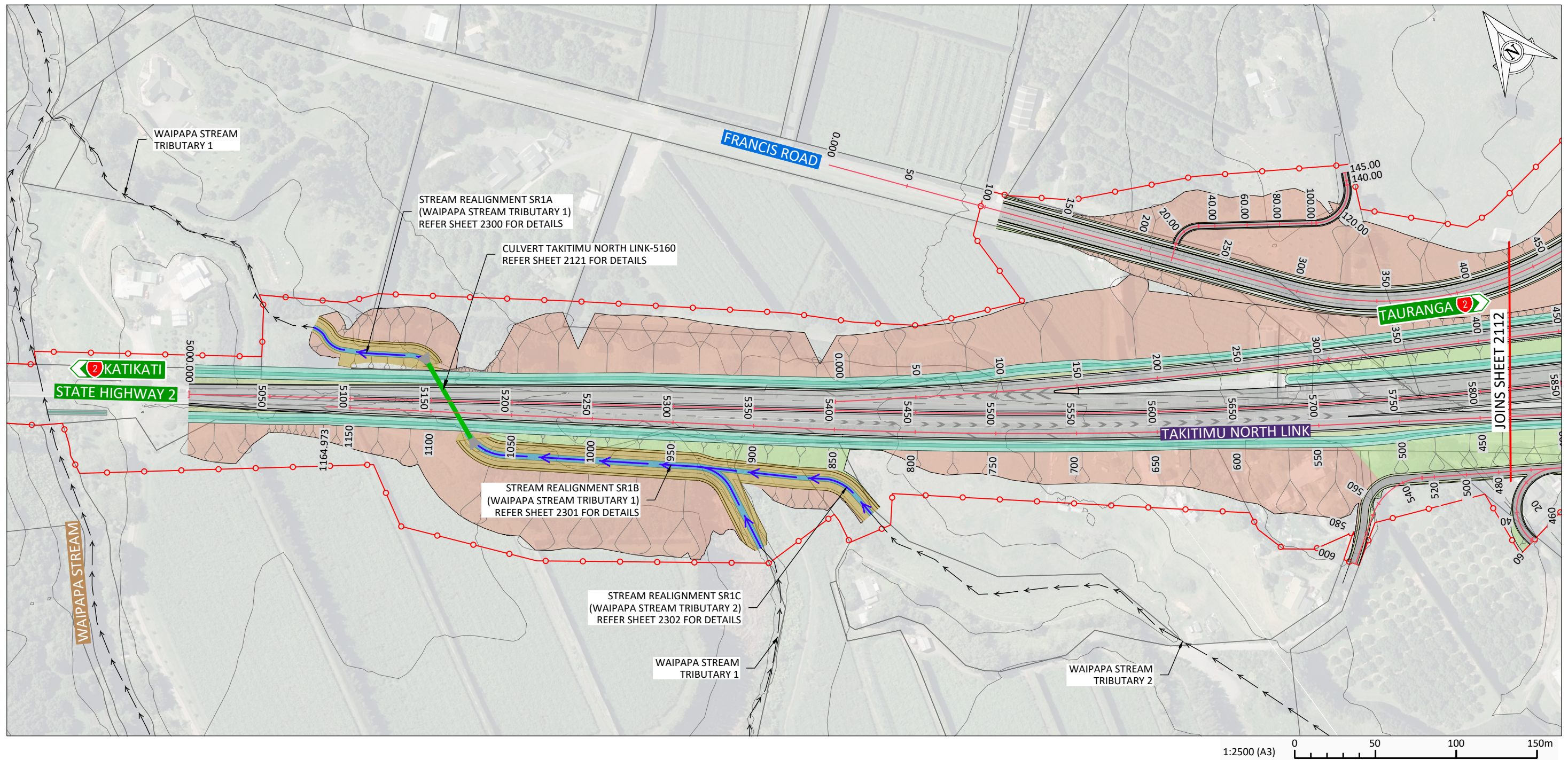
REVISION
G

100mm

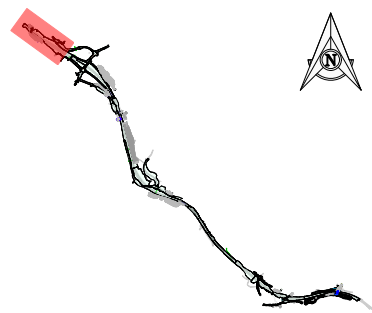
SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

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SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	JL/GK	EV
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV		
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV		
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	SP/PK	APPROVED EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV			
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		

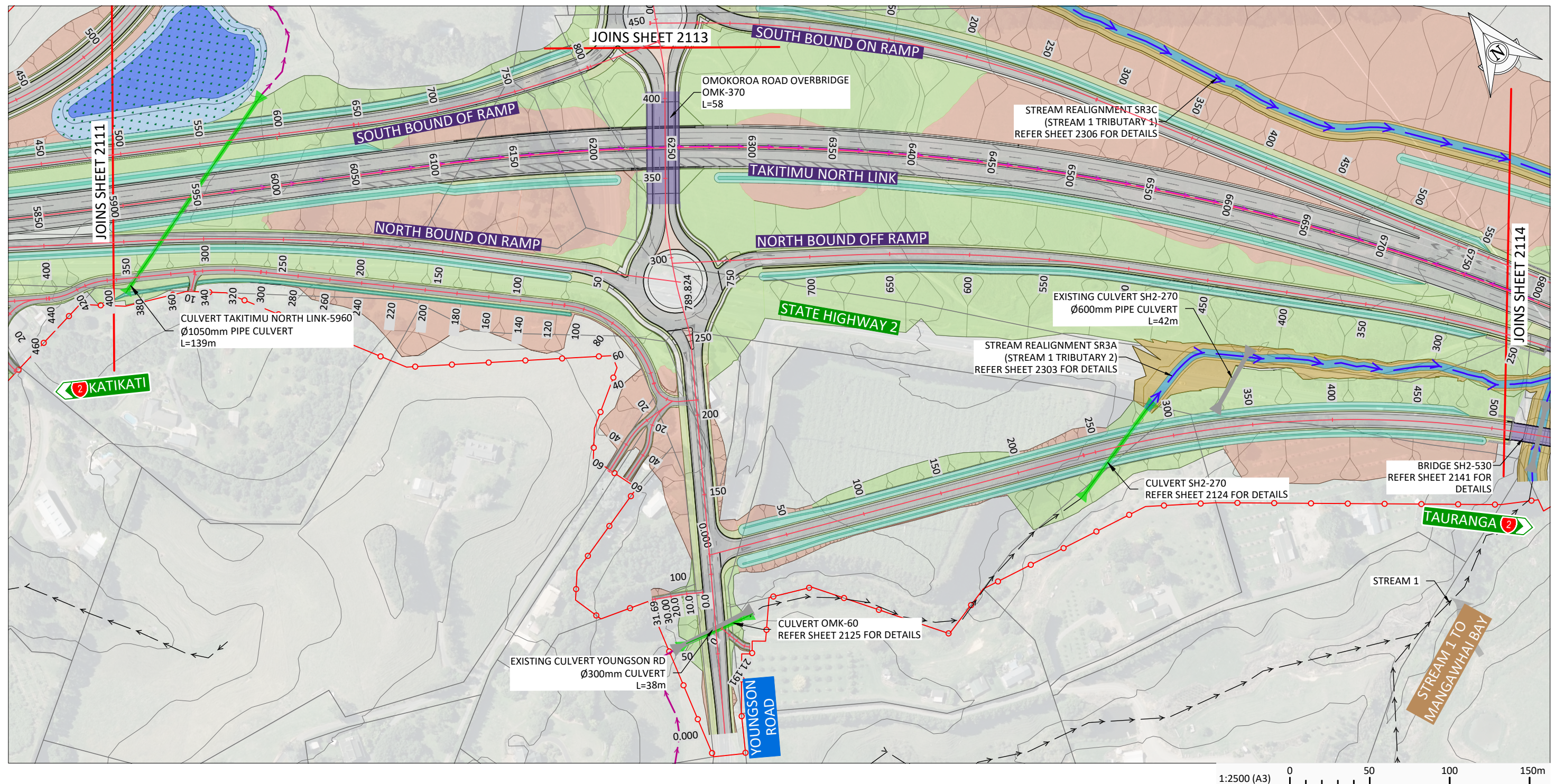
DESIGNED	CHECKED
JL/GK	EV
SP/PK	APPROVED EV
mx model version:	



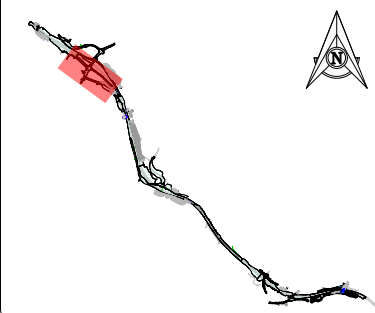
PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 1 OF 10

STATUS PRELIMINARY	
DATE 03.02.2022	SCALE (ORIGINAL SIZE A3) AS SHOWN
DRAWING NUMBER 144702-00-2111	REVISION F



SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	PK/SP	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV		mx model version:	
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		

PROJECT
TAKITIMU NORTH LINK STAGE 2DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 2 OF 10

STATUS
PRELIMINARY

DATE
03.02.2022

DRAWING NUMBER
144702-00-2112

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AS SHOWN

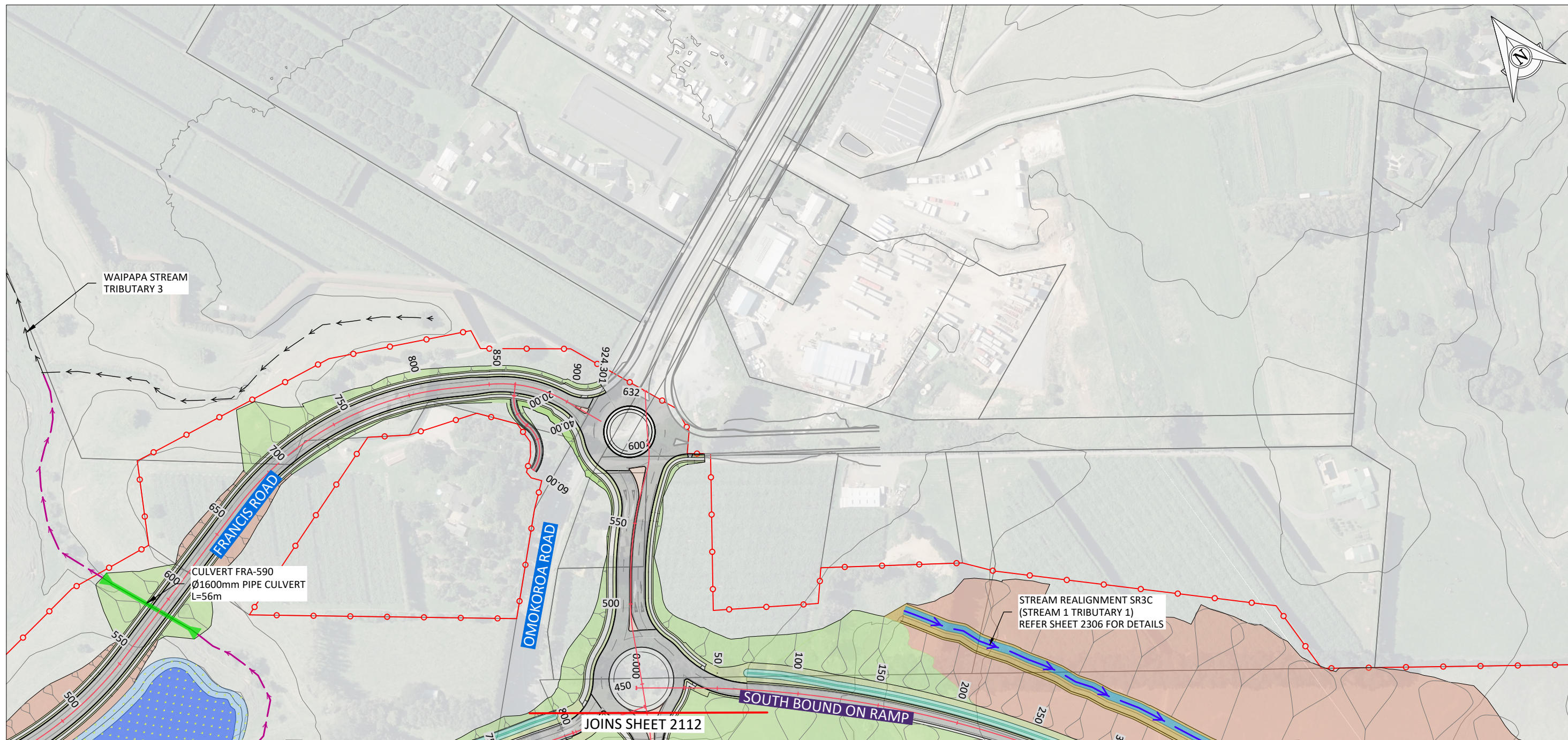
REVISION
F

100mm

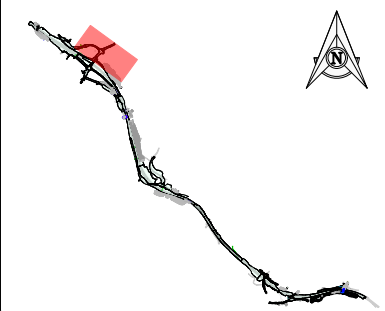
SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

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Version 4.0 - March 2020



SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	PK/SP	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV		EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV		mx model version:	
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		



PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 3 OF 10

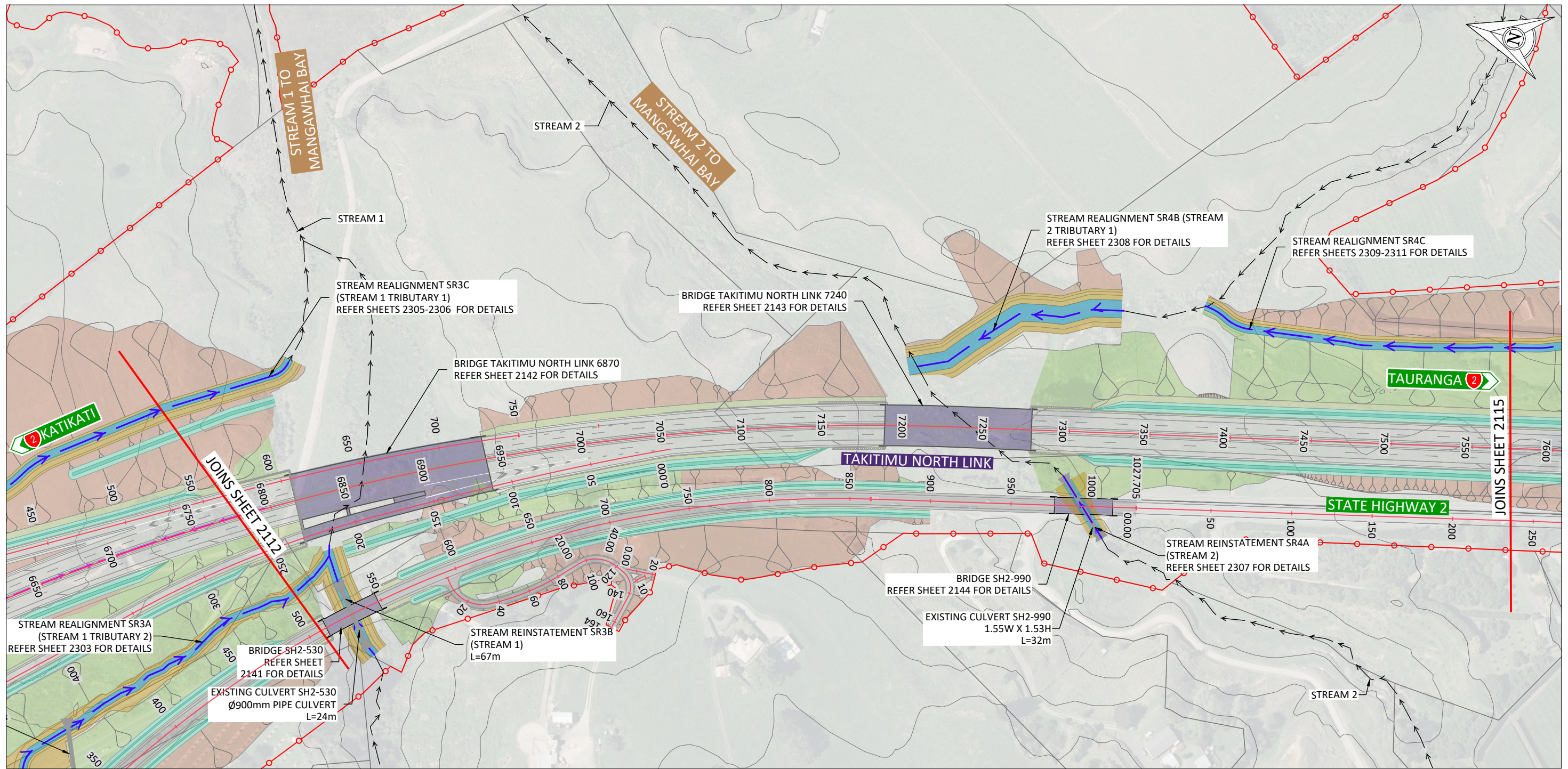
STATUS PRELIMINARY	
DATE 03.02.2022	SCALE (ORIGINAL SIZE A3) AS SHOWN
DRAWING NUMBER 144702-00-2113	REVISION F

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SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

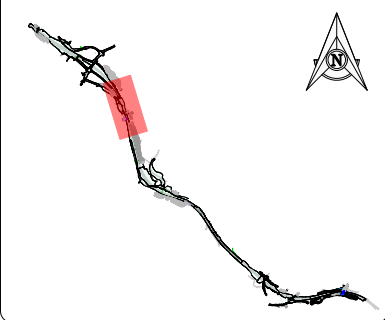
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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	JL/GK	EV
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	DRAWN	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	PK/SP	EV
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV		
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV			
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		

DESIGNED	CHECKED
JL/GK	EV
DRAWN	APPROVED
PK/SP	EV
mx model version:	



PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 4 OF 10

STATUS PRELIMINARY	
DATE 03.02.2022	SCALE (ORIGINAL SIZE A3) AS SHOWN
DRAWING NUMBER 144702-00-2114	REVISION F

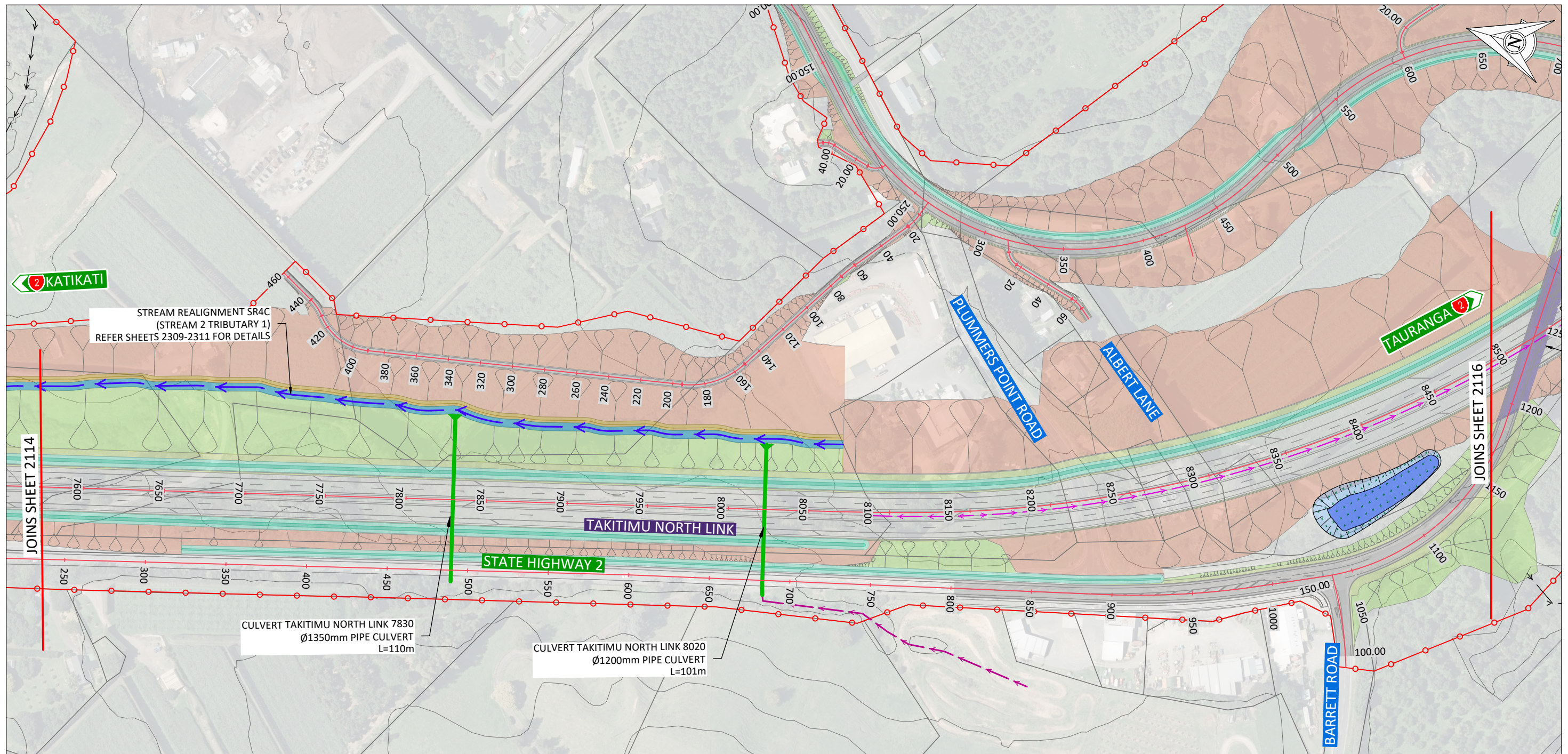
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100mm

SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

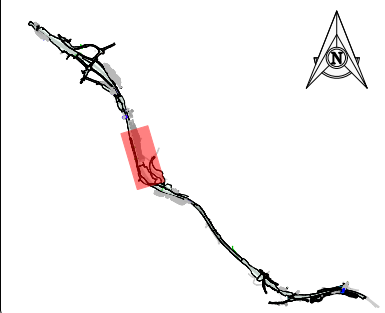
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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	PK/SP	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV		mx model version:	
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		



PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 5 OF 10

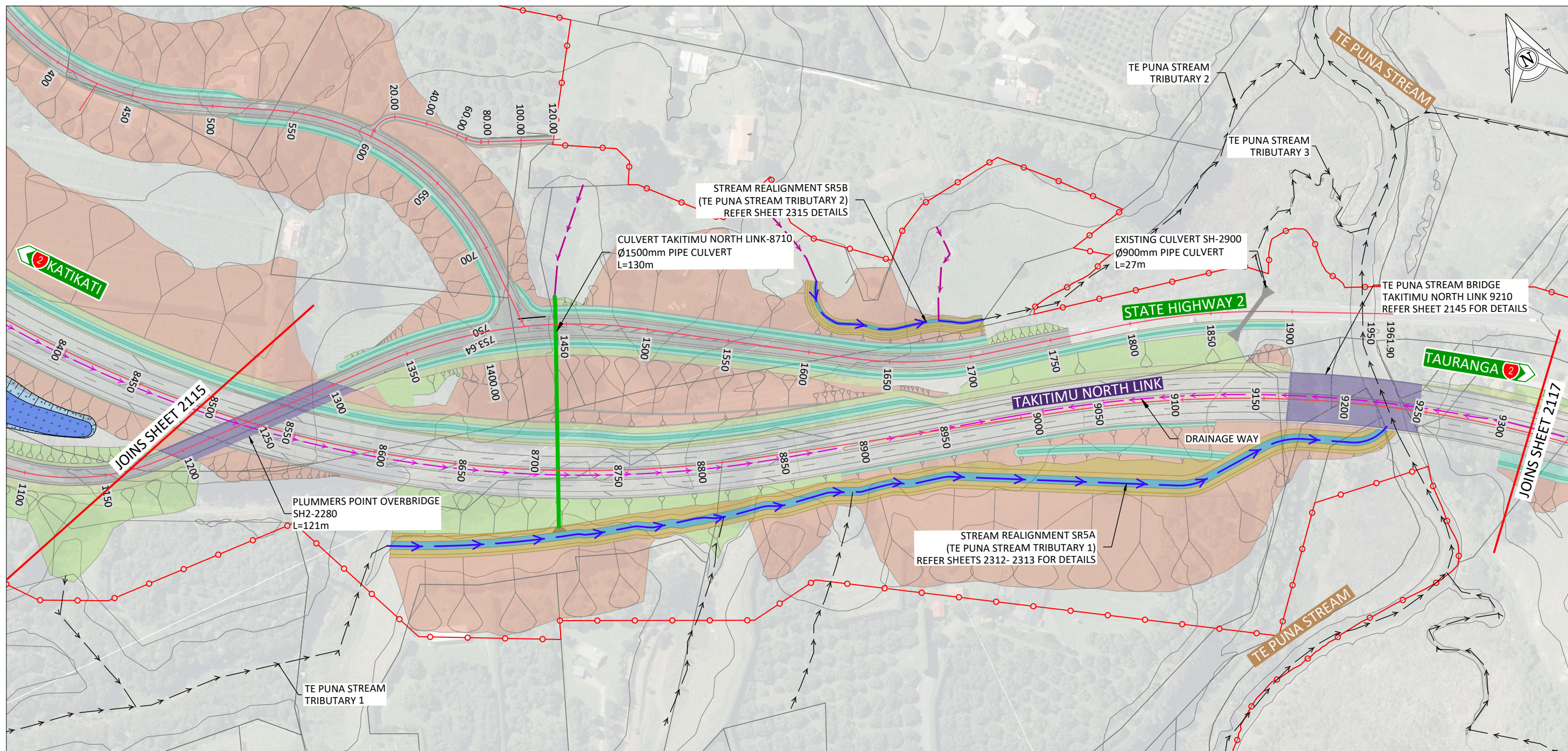
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DRAWING NUMBER 144702-00-2115	REVISION F

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SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

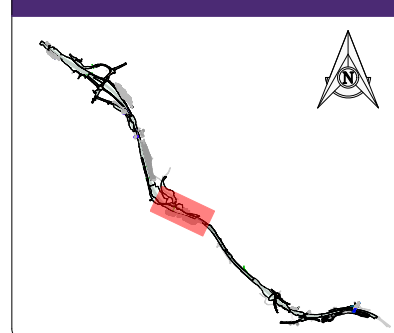
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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	PK	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV		mx model version:	
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		

DESIGNED	CHECKED
JL/GK	EV
DRAWN	APPROVED
PK	EV



PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 6 OF 10

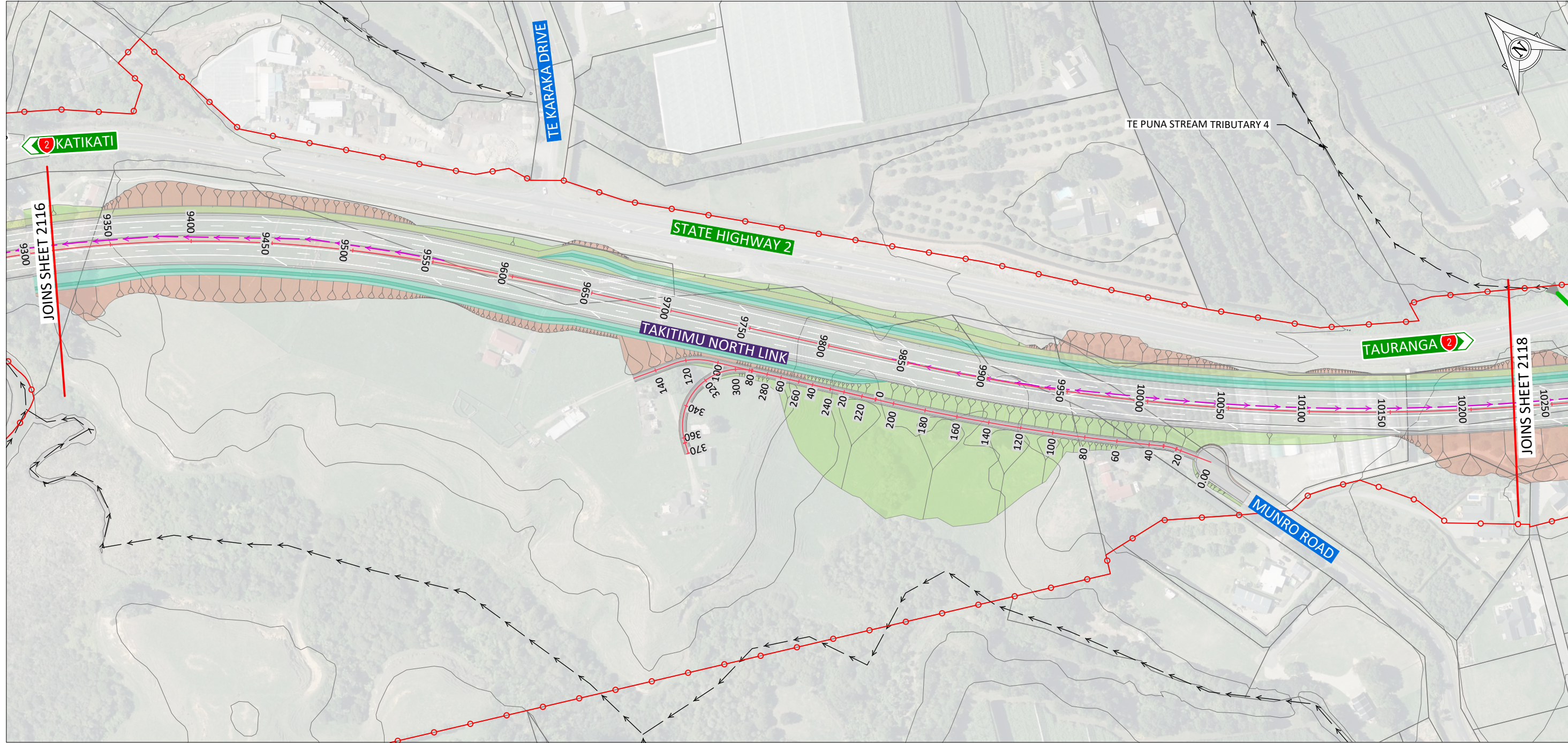
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DATE 03.02.2022	SCALE (ORIGINAL SIZE A3) AS SHOWN
DRAWING NUMBER 144702-00-2116	REVISION F

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SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

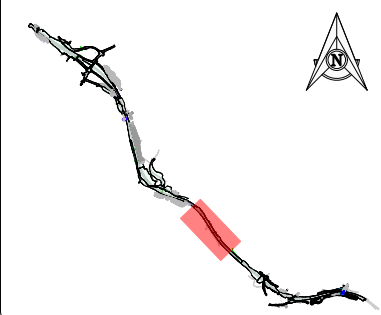
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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	PK	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV		mx model version:	
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		



TAKITIMU NORTH LINK STAGE 2

BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 7 OF 10

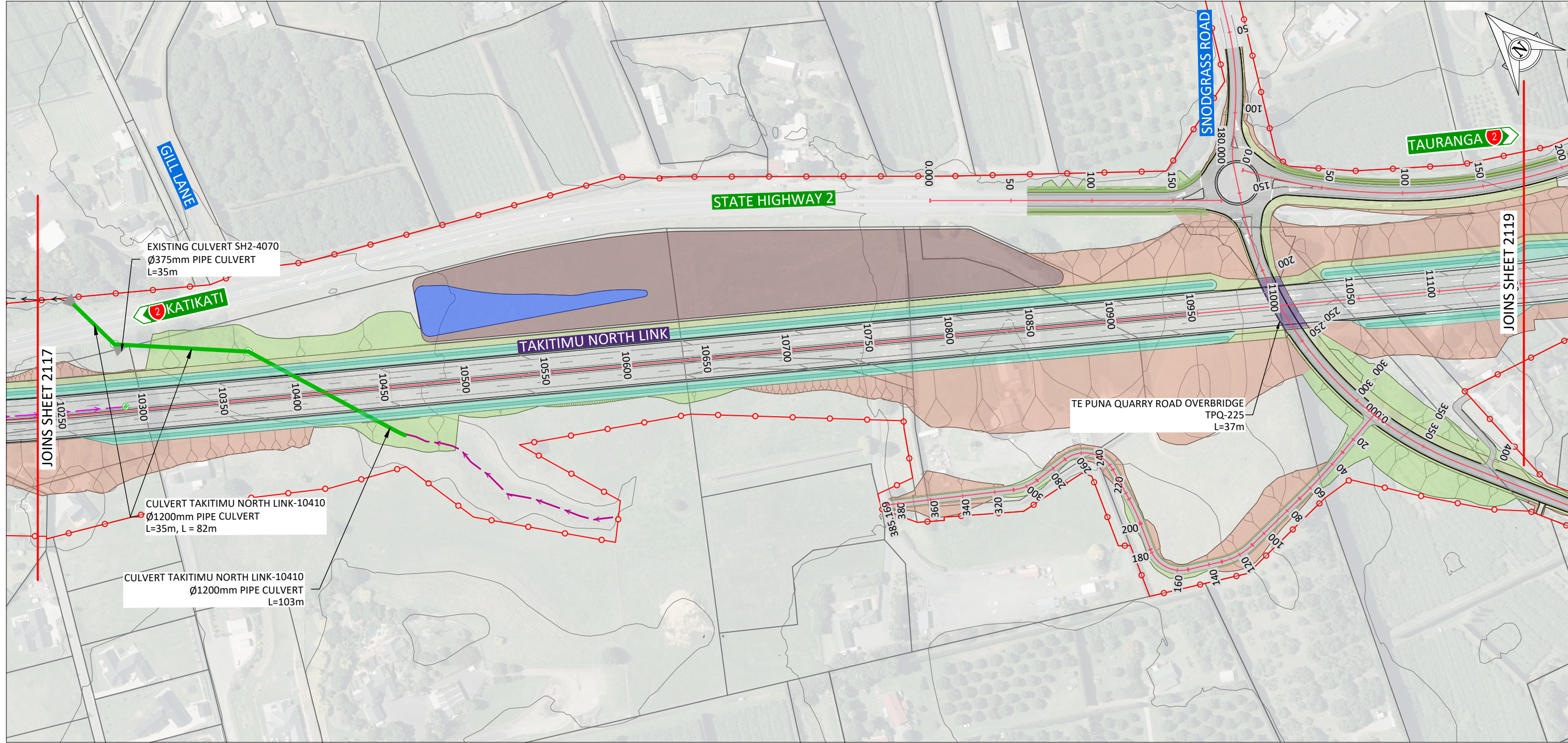
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DATE	03.02.2022	SCALE (ORIGINAL SIZE A3)	AS SHOWN
DRAWING NUMBER	144702-00-2117	REVISION	F

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SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

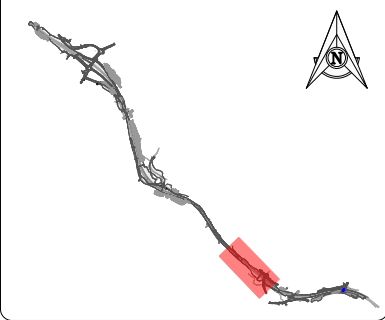
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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

F	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	PK	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV			
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR	mx model version:	



PROJECT
TAKITIMU NORTH LINK STAGE 2

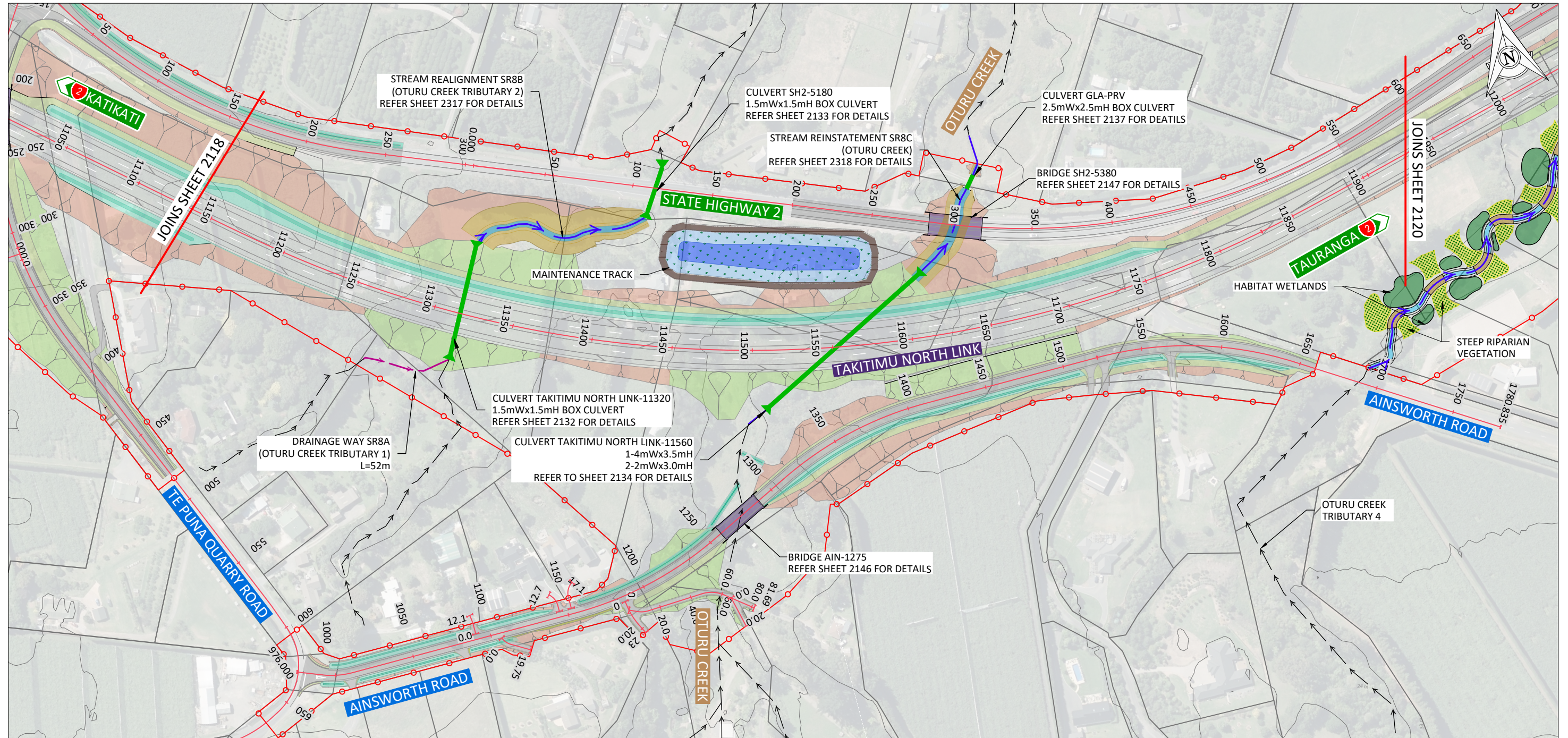
DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 8 OF 10

STATUS PRELIMINARY	
DATE 03.02.2022	SCALE (ORIGINAL SIZE A3) AS SHOWN
DRAWING NUMBER 144702-00-2118	REVISION F

100mm

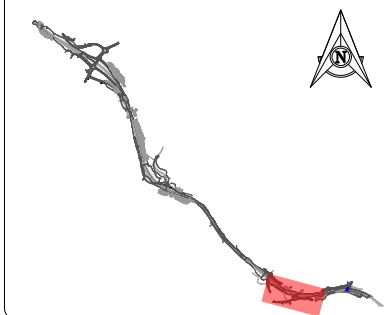
SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

G	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
E	24.02.2025	UPDATE AFTER TNL-1 WESTERN TIE-IN RE-DESIGN	GK	EV	EV		
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	DRAWN	APPROVED
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV	PK	EV
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV			
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR		



PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 9 OF 10

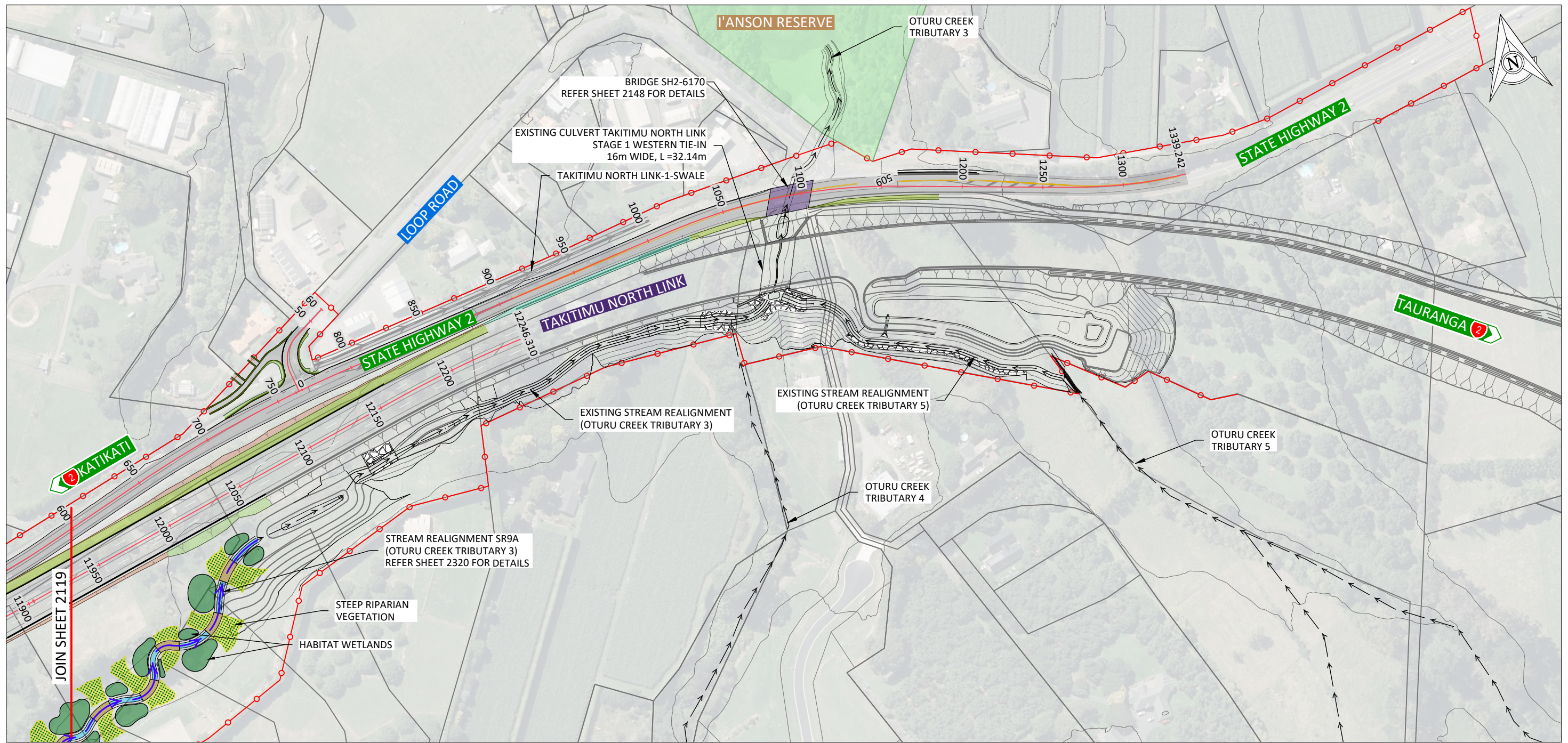
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DRAWING NUMBER	144702-00-2119
REVISION	G

100mm

SCALE FOR VALIDATING SIZE OF A3 PLOT ONLY

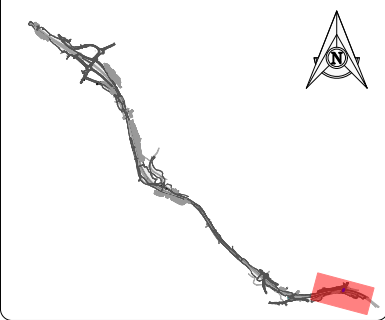
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1:2500 (A3) 0 50 100 150m

SHEET LOCALITY PLAN



KEY: BOUNDARIES

- LEGAL BOUNDARIES
- PROPOSED DESIGNATION BOUNDARY

KEY: STREAM REALIGNMENT

- DESIGN CUT BATTER
- DESIGN FILL BATTER
- BERM
- EXISTING STREAMS
- EXISTING CULVERTS
- DRAINAGE WAYS
- STREAM REALIGNMENT
- PROPOSED CULVERTS
- PROPOSED BRIDGE
- PROPOSED OPEN DRAIN/SWALES
- PROPOSED TREATMENT WETLAND
- PROPOSED ATTENUATION DEVICE
- PROPOSED ATTENUATION AND TREATMENT WETLAND

G	30.07.2025	FTAA APPLICATION	SAP	EV	EV	DESIGNED	CHECKED
F	01.07.2025	FTAA APPLICATION - DRAFT	SAP	EV	EV	JL/GK	EV
F	24.02.2025	UPDATE AFTER TNL-1 WEATERN TIE-IN RE-DESIGN	GK	EV	EV	DRAWN	APPROVED
D	08.11.2024	CONSENT APPLICATION UPDATE ISSUE	SAP	EV	EV	PK	EV
C	29.04.2024	CONSENT APPLICATION ISSUE	JRL	EV	EV		
B	15.08.2023	FINAL DRAFT SPECIMEN DESIGN	WT	EV	SGB		
A	01.06.2023	DRAFT SPECIMEN DESIGN ISSUE	WT	EV			
	DATE	ISSUE/REVISION DETAIL	BY	CHK	APPR	mx model version:	



PROJECT
TAKITIMU NORTH LINK STAGE 2

DRAWING
BRIDGES, CULVERTS AND
STREAM REALIGNMENTS
LAYOUT PLAN
SHEET 10 OF 10

STATUS PRELIMINARY	
DATE 03.02.2022	SCALE (ORIGINAL SIZE A3) AS SHOWN
DRAWING NUMBER 144702-00-2120	REVISION G