

SHEET 3001-DR

SHEET 3002-DR

SHEET 3003-DR

TEMPORARY WASTEWATER
TREATMENT PLANT

STAGE 10

STAGE 11

STAGE 12

STAGE 13

STAGE 4C

SUMMERSET
RETIREMENT
VILLAGE

MILLDALE PARK

MILLDALE
SCHOOL

LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE (SUBJECT TO ECOLOGY)	
EXISTING SWALE	
DESIGN CONTOURS (1m INTERVAL)	
PROPOSED RETAINING WALL	
PROPOSED STORMWATER	
EXISTING STORMWATER	
SINGLE CATCHPIT	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	

NOTES

- STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
- ALL WORKS AND MATERIALS TO COMPLY WITH AUCKLAND COUNCIL STANDARDS. ANY AMBIGUITY BETWEEN DRAWINGS AND COUNCIL STANDARDS TO BE REPORTED TO THE ENGINEER FOR CLARIFICATION.
- FOR PIPE BEDDING DETAILS REFER TO AUCKLAND COUNCIL STANDARD DETAIL SHEETS UNLESS OTHERWISE NOTED ON THE DRAINAGE LONG SECTIONS IN WHICH CASE SUCH NOTES TAKE PRECEDENCE.
- ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
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- THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
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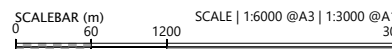
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2	ISSUED FOR CONSENT	JW	JUL 2025

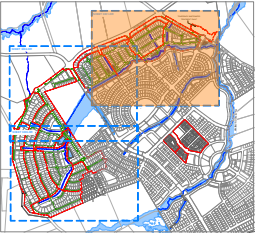
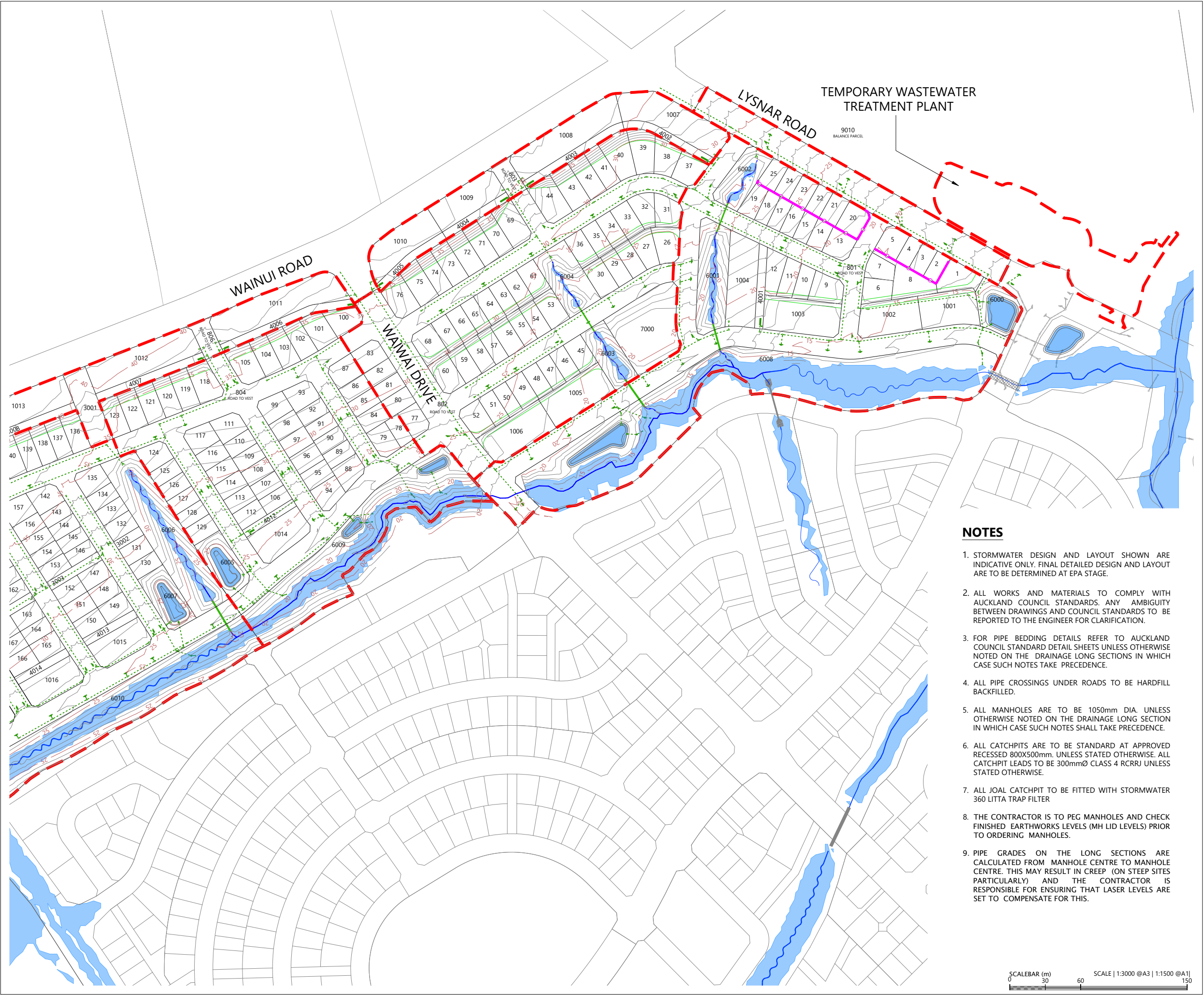
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

--	--

MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER DRAINAGE LAYOUT OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3000-DR	





LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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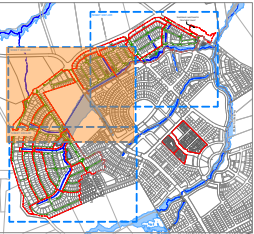
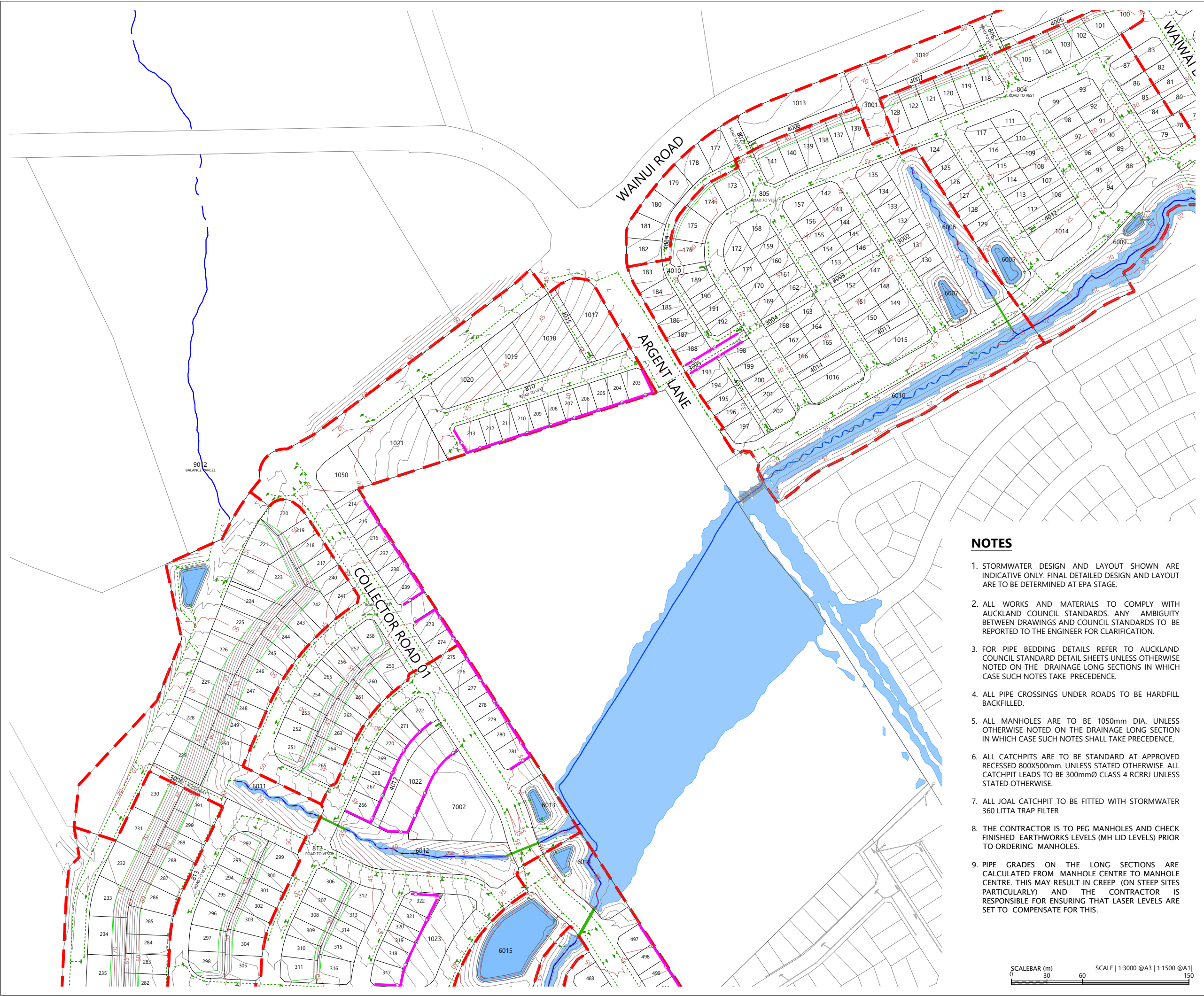
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	WOODS.CO.NZ
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRAINAGE
LAYOUT PLAN
SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3001-DR	





LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

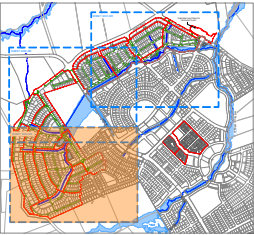
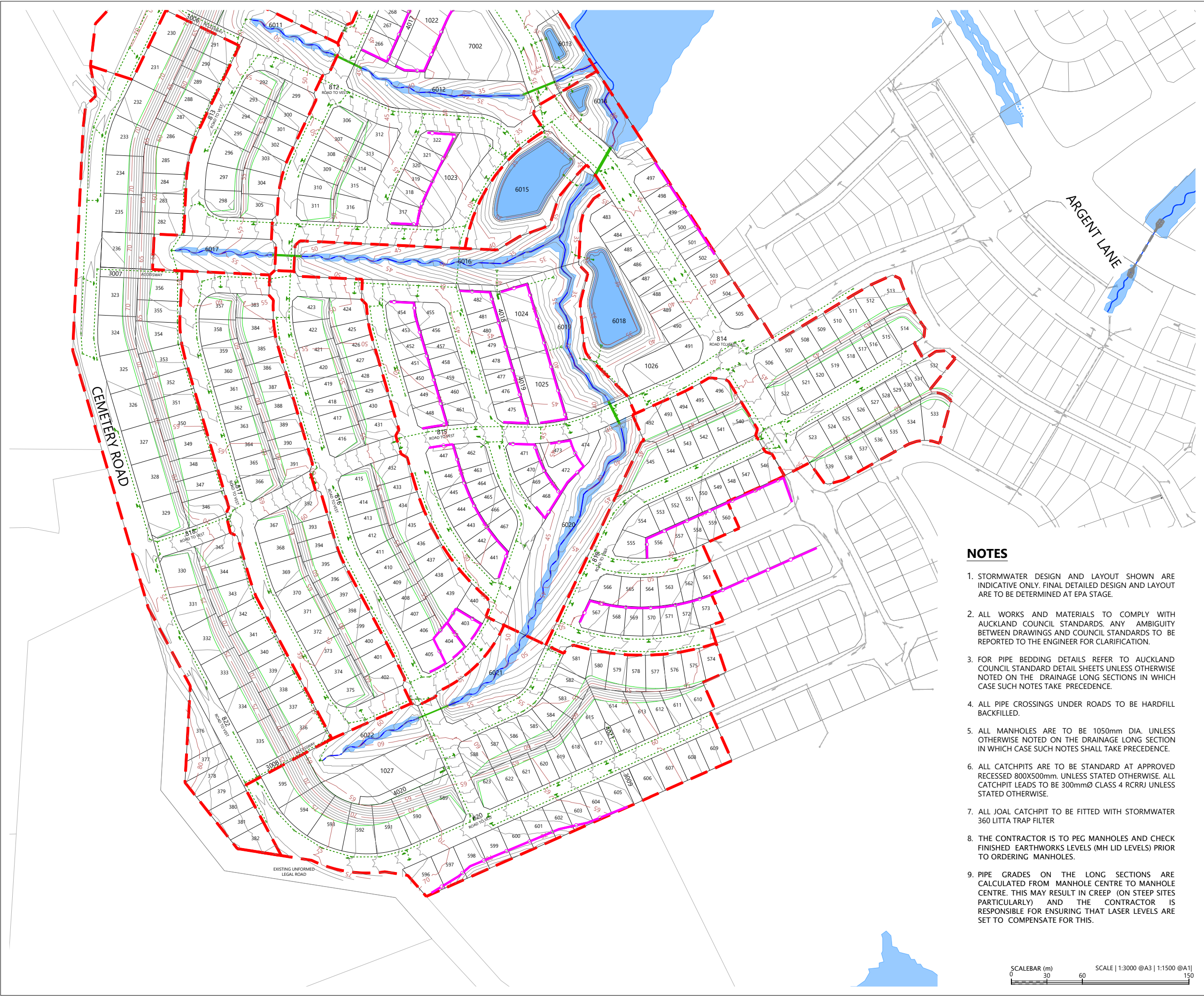
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SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRAINAGE
LAYOUT PLAN
SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3002-DR	



LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

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DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRAINAGE
LAYOUT PLAN
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3003-DR	

SHEET 3011-DR

SHEET 3012-DR

SHEET 3013-DR

TEMPORARY WASTEWATER
TREATMENT PLANT

STAGE 10

STAGE 11

SUMMERSET
RETIREMENT
VILLAGE

MILLDALE PARK

STAGE 4C

STAGE 13

STAGE 12

- BASIN 3 CATCHMENT
(CONSENTED IN STAGE 8)
- BASIN A CATCHMENT
- BASIN B CATCHMENT
- STREAM 43 CATCHMENT
- STREAM 42 CATCHMENT
- BASIN C CATCHMENT
- BASIN D CATCHMENT
- BASIN E CATCHMENT
- BASIN F CATCHMENT
- STREAM 35 CATCHMENT
- S10/11 STREAM 21
CATCHMENT
- BASIN G CATCHMENT
- BASIN H CATCHMENT
- BASIN I CATCHMENT
- BASIN J CATCHMENT
- STREAM 26 CATCHMENT
- STREAM 20 CATCHMENT
- STREAM 2 CATCHMENT
- BASIN K CATCHMENT
- S12/13 STREAM 21
CATCHMENT



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

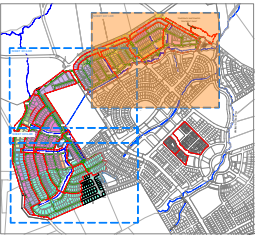
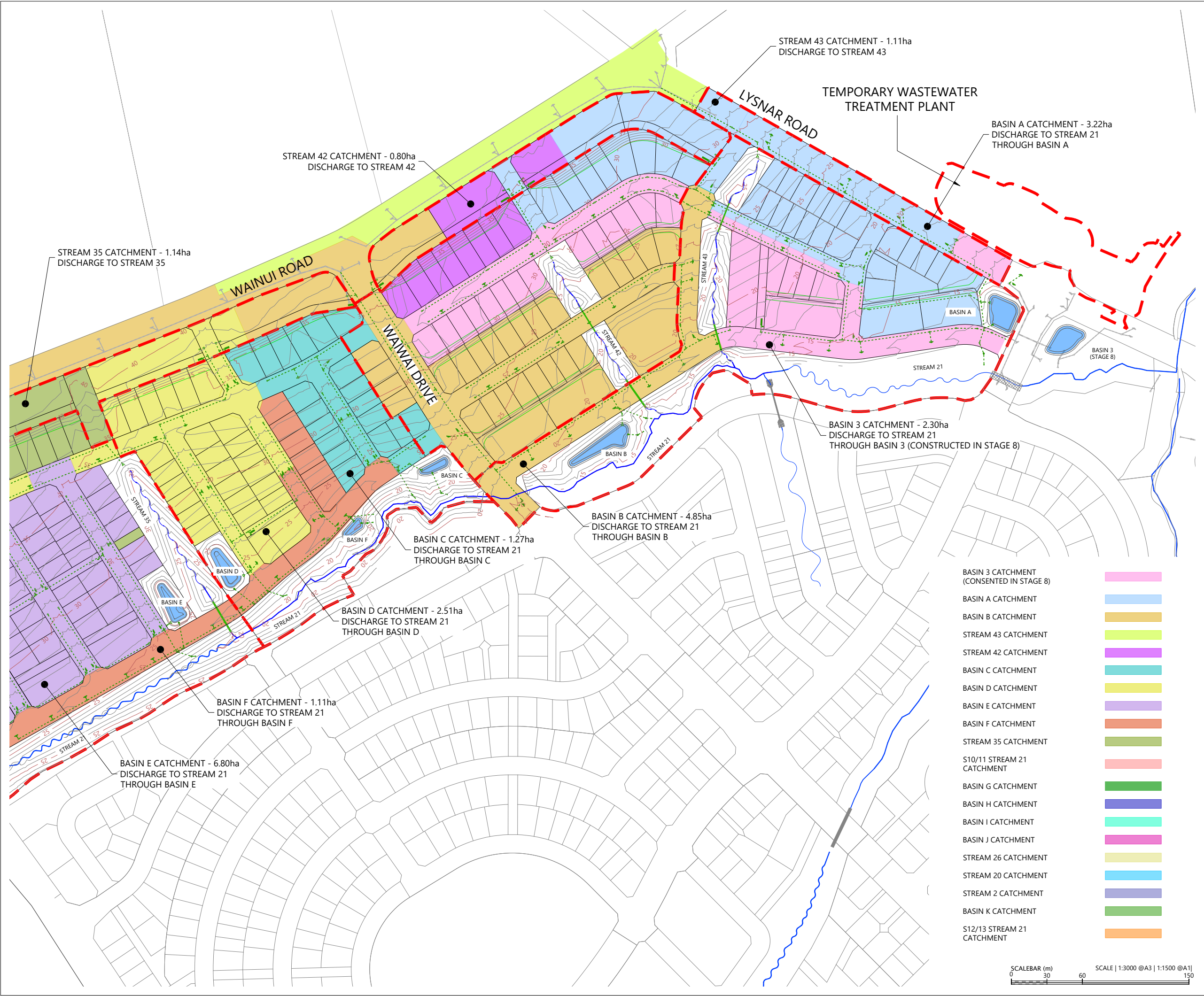
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REVISION DETAILS		BY	DATE
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2	ISSUED FOR CONSENT	JW	JULY 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER CATCHMENT
OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3010-DR	



LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
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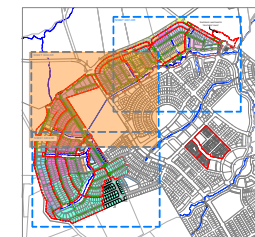
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER CATCHMENT PLAN
SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3011-DR	

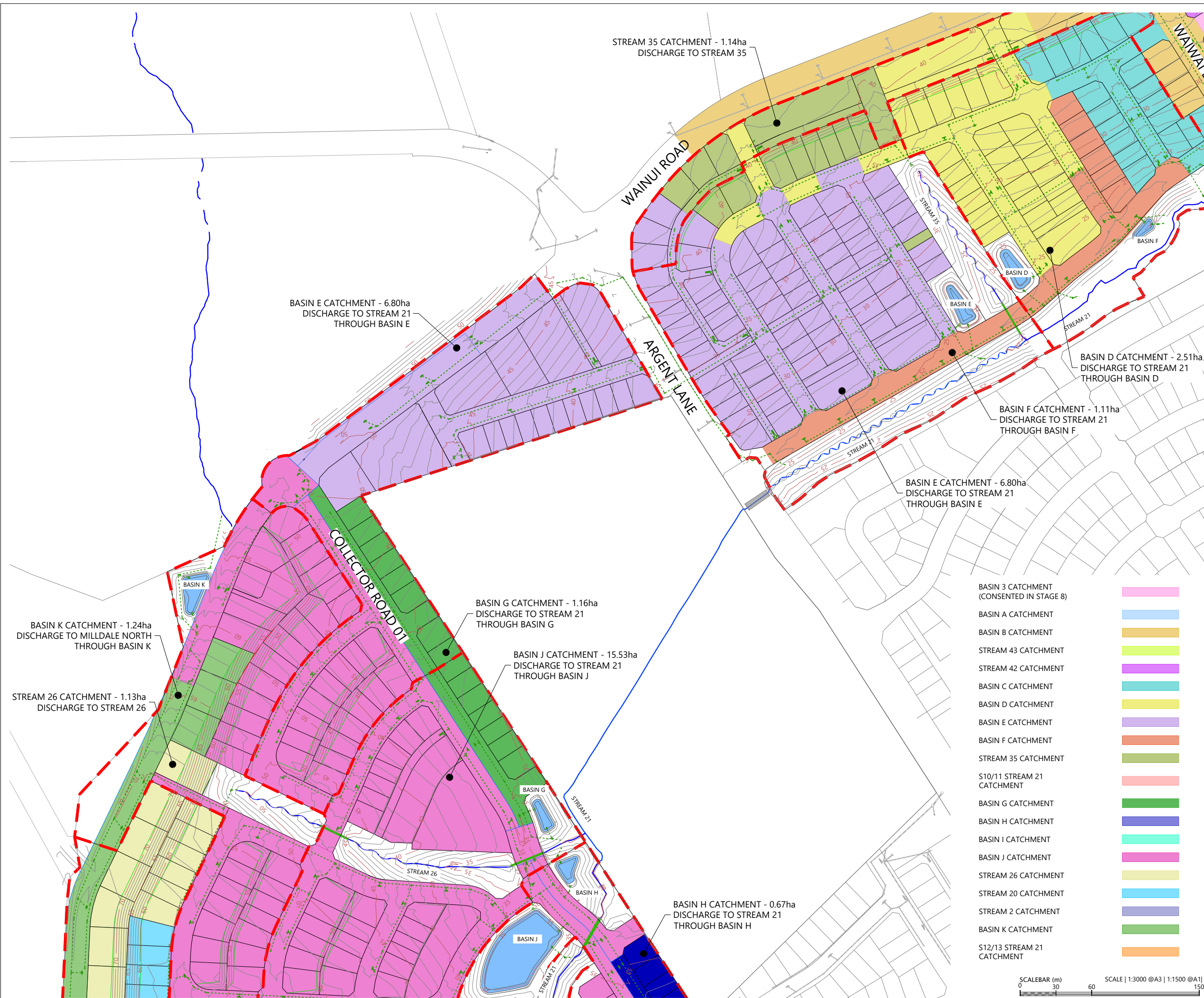
- BASIN 3 CATCHMENT (CONSENTED IN STAGE 8)
- BASIN A CATCHMENT
- BASIN B CATCHMENT
- STREAM 43 CATCHMENT
- STREAM 42 CATCHMENT
- BASIN C CATCHMENT
- BASIN D CATCHMENT
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- BASIN F CATCHMENT
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- S10/11 STREAM 21 CATCHMENT
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- BASIN J CATCHMENT
- STREAM 26 CATCHMENT
- STREAM 20 CATCHMENT
- STREAM 2 CATCHMENT
- BASIN K CATCHMENT
- S12/13 STREAM 21 CATCHMENT














Plot Date: 9:45:51 am,24 July 2025, MATTHEWWA

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LEGEND

- | | |
|-----------------------------------|---|
| EXTENTS OF FAST TRACK APPLICATION |  |
| BOUNDARIES |  |
| WATERCOURSE (SUBJECT TO ECOLOGY) |  |
| DESIGN CONTOURS (1m INTERVAL) |  |
| PROPOSED STORMWATER |  |
| EXISTING STORMWATER |  |
| OUTLET |  |
| 100 YEAR FLOOD EXTENTS |  |
| PROPOSED STORMWATER DRY BASIN |  |

NOTES

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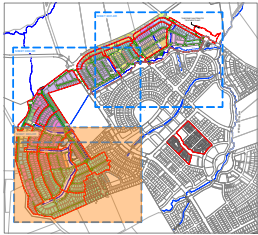
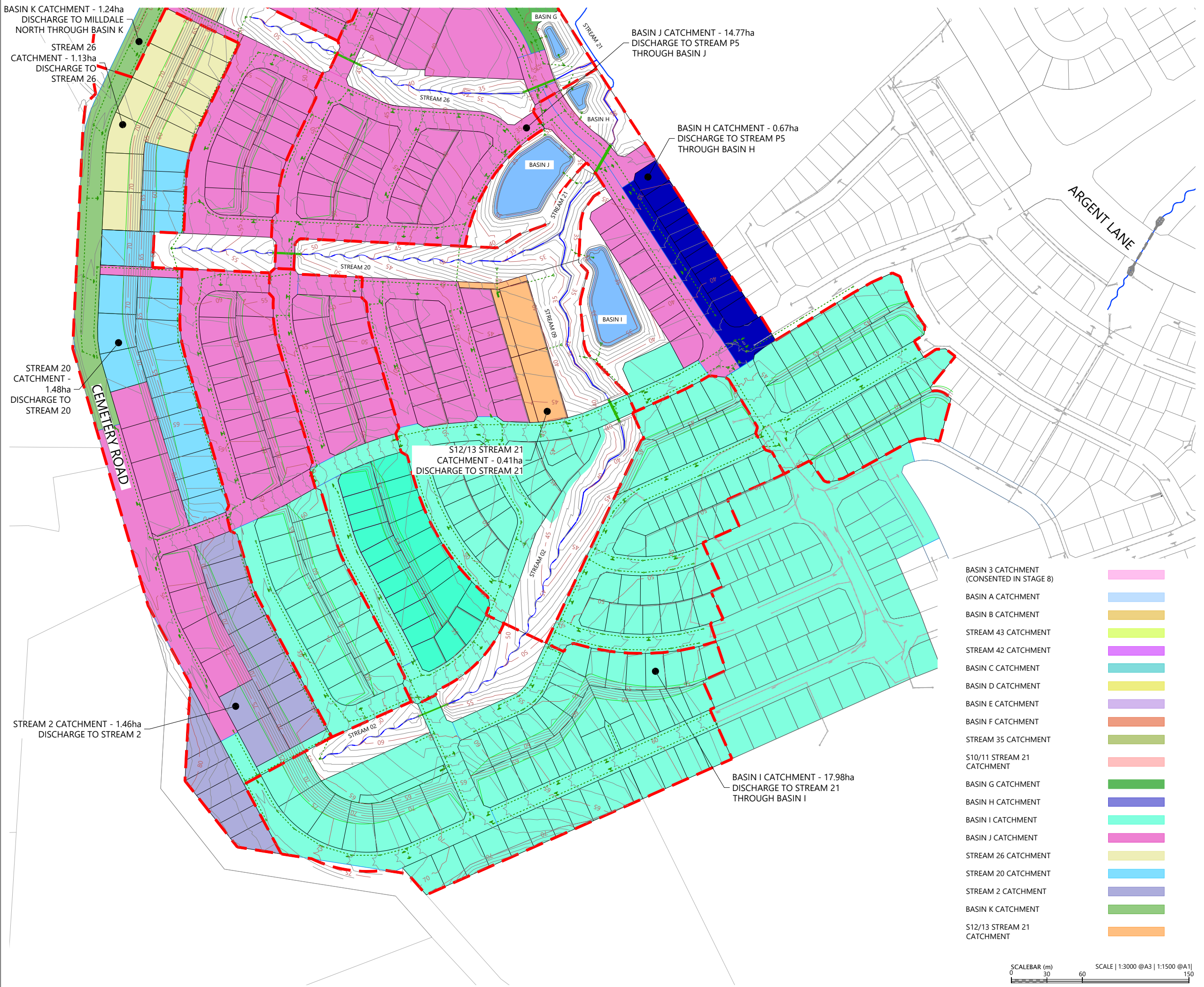
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JULY 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	



MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER CATCHMENT PLAN
SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3012-DR	



LOCALITY PLAN
N.T.S



LEGEND

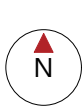
- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

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DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER CATCHMENT PLAN
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3013-DR	

- BASIN 3 CATCHMENT (CONSENTED IN STAGE 8)
- BASIN A CATCHMENT
- BASIN B CATCHMENT
- STREAM 43 CATCHMENT
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LEGEND

- EXTENTS OF FAST TRACK APPLICATION ———
- BOUNDARIES ———
- WATERCOURSE (SUBJECT TO ECOLOGY) ———
- DESIGN CONTOURS (1m INTERVAL) — 55.0 —
- LOT OVERLAND FLOW ———→
- ROAD OVERLAND FLOW ———→
- ROAD CROSS FALL FLOW ———→
- OVERLAND FLOW SPILL POINT ———→
- 100 YEAR FLOOD EXTENTS ———
- PROPOSED STORMWATER DRY BASIN ———

NOTES

1. STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
2. CATCHMENT FLOWS BASED ON C=0.8 FOR DEVELOPED AREAS & ROADS. RAINFALL INTENSITY 290mm (Q100) (INCLUDING CLIMATE CHANGE).
3. CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	



N

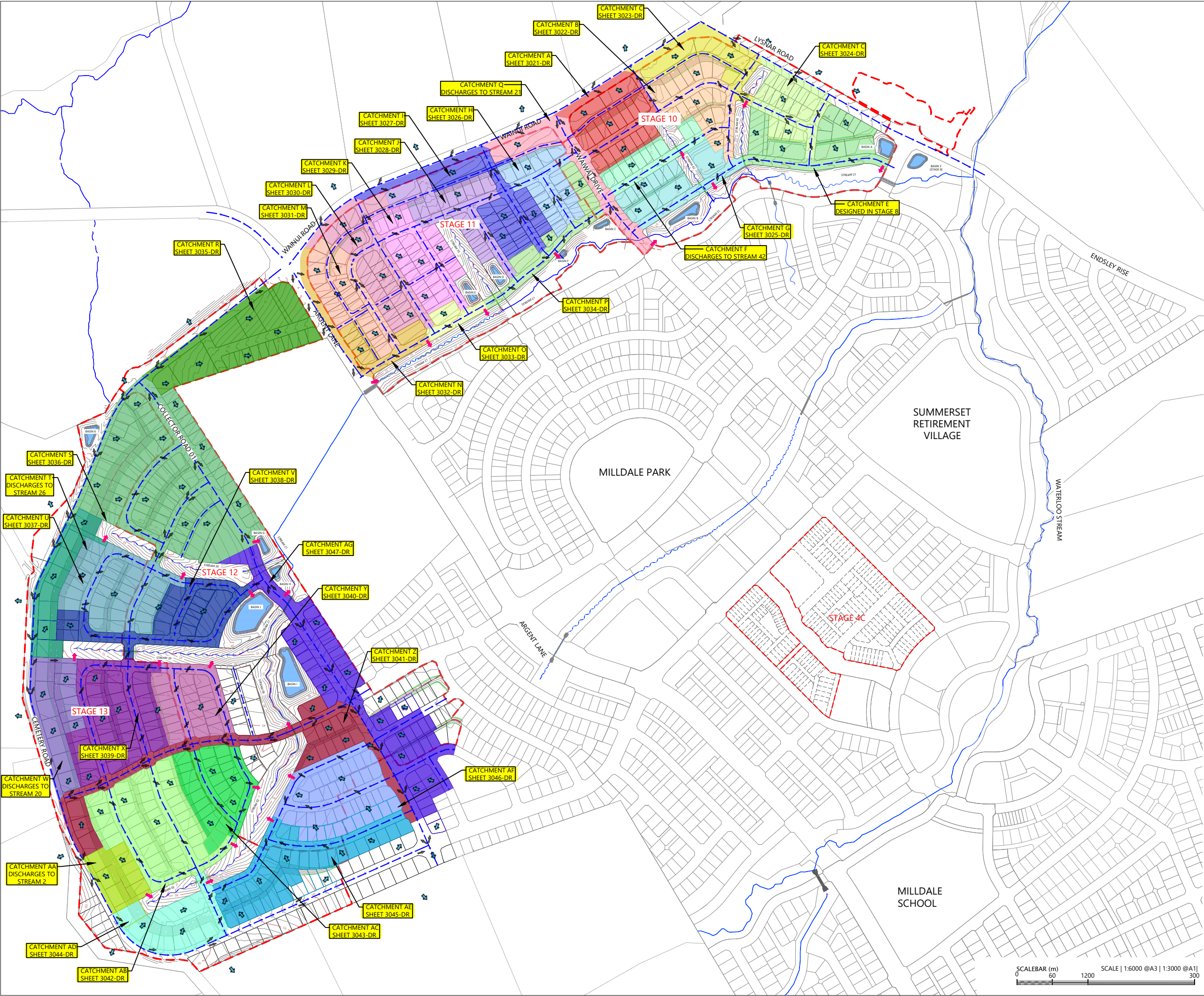


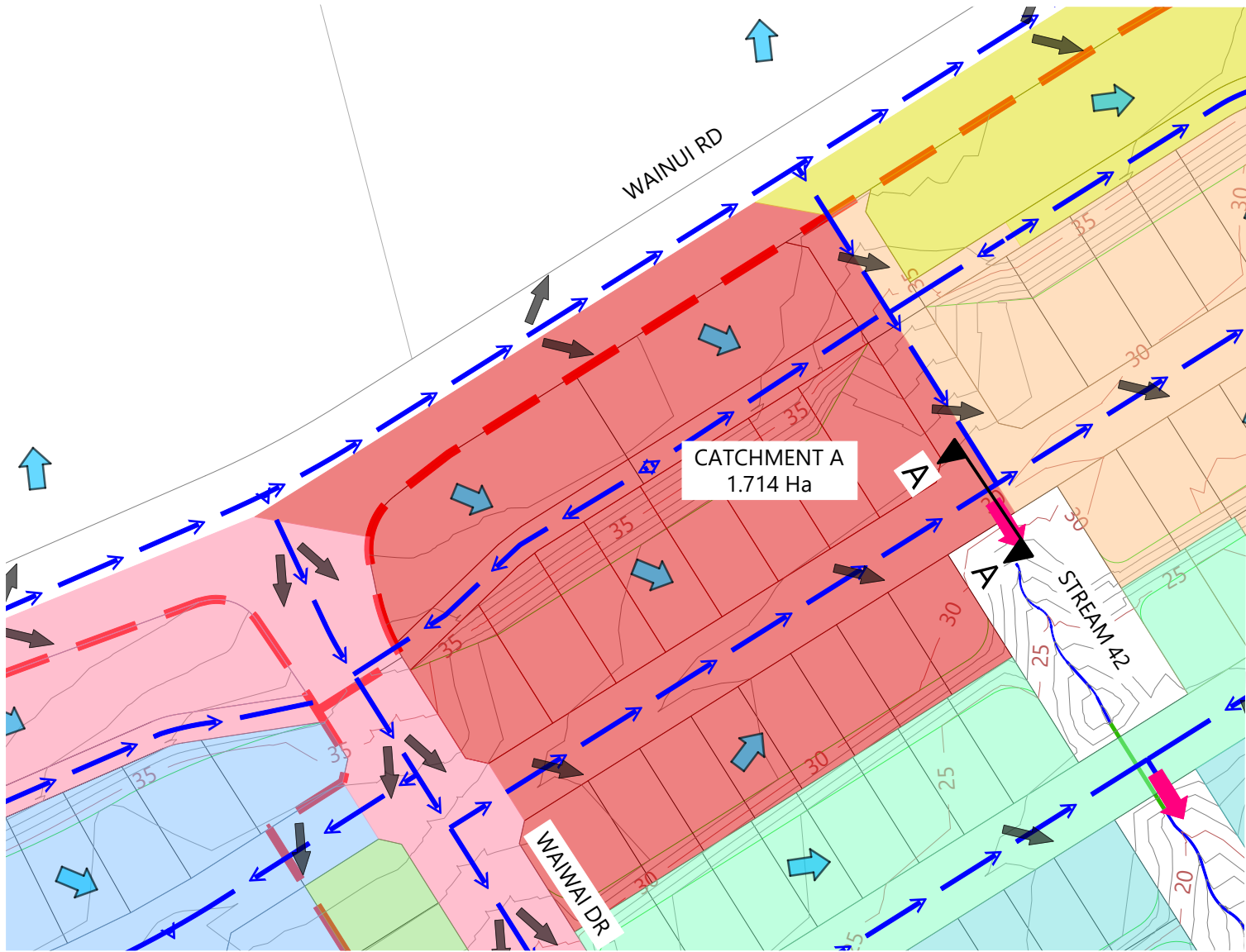
MILLDALE
Connecting Lifespaces

MILLDALE
FAST TRACK
STAGES 10 - 13

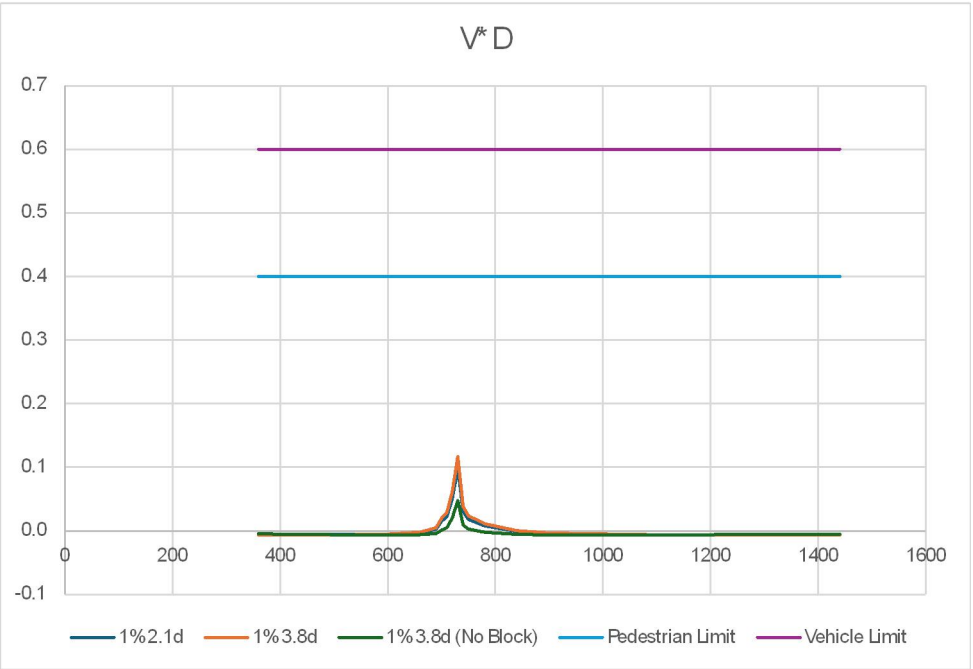
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3020-DR	

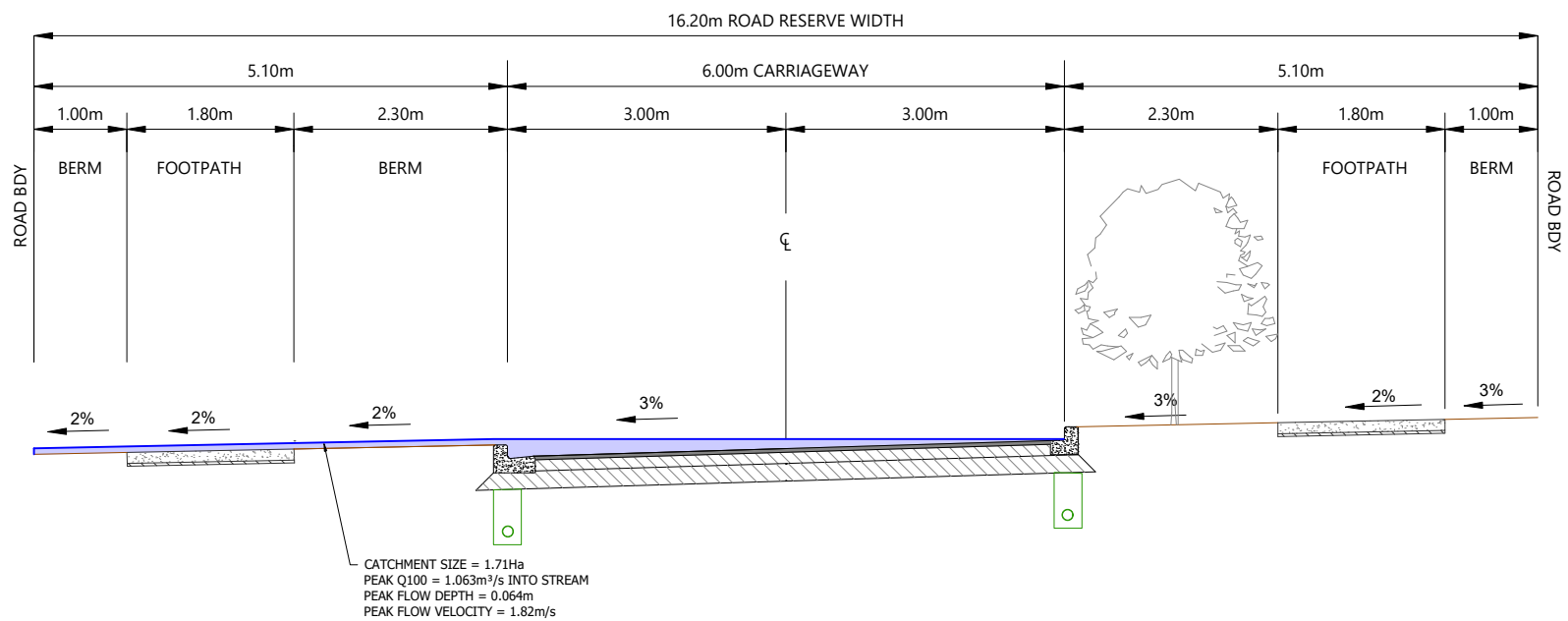




CATCHMENT A PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION A-A VxD GRAPH



ROAD-SECTION A-A
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
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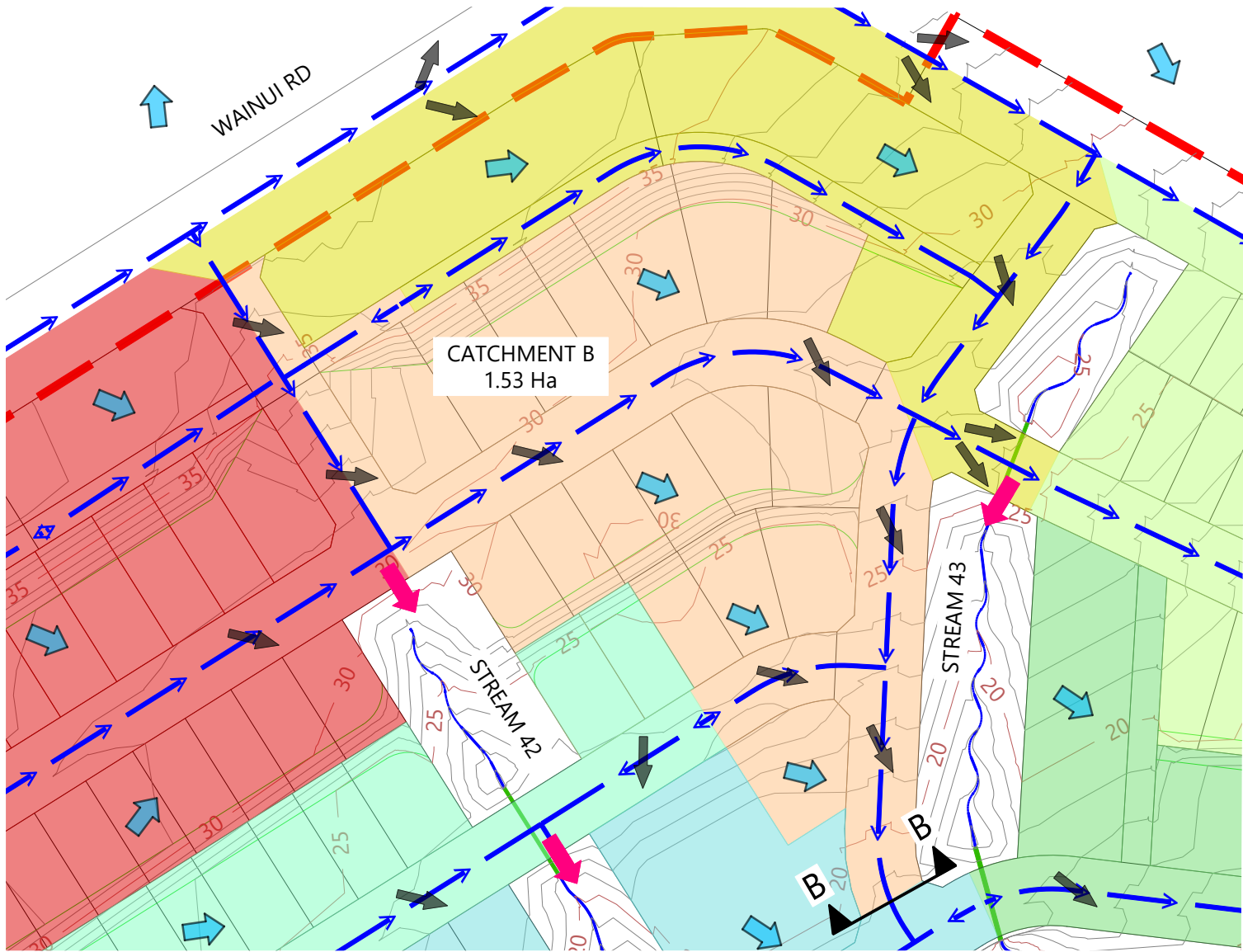
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CHECKED	JW	
APPROVED	JW	

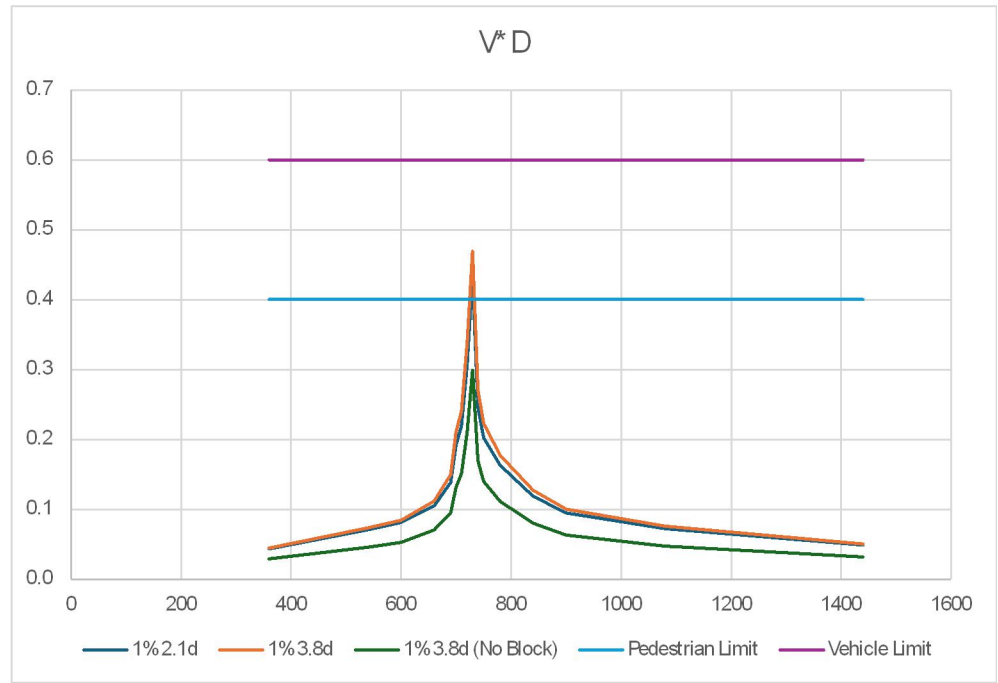
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MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3021-DR	



CATCHMENT B PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION B-B VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

- STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
- CATCHMENT FLOWS BASED ON C=0.8 FOR DEVELOPED AREAS & ROADS. RAINFALL INTENSITY 290mm (Q100) (INCLUDING CLIMATE CHANGE).
- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

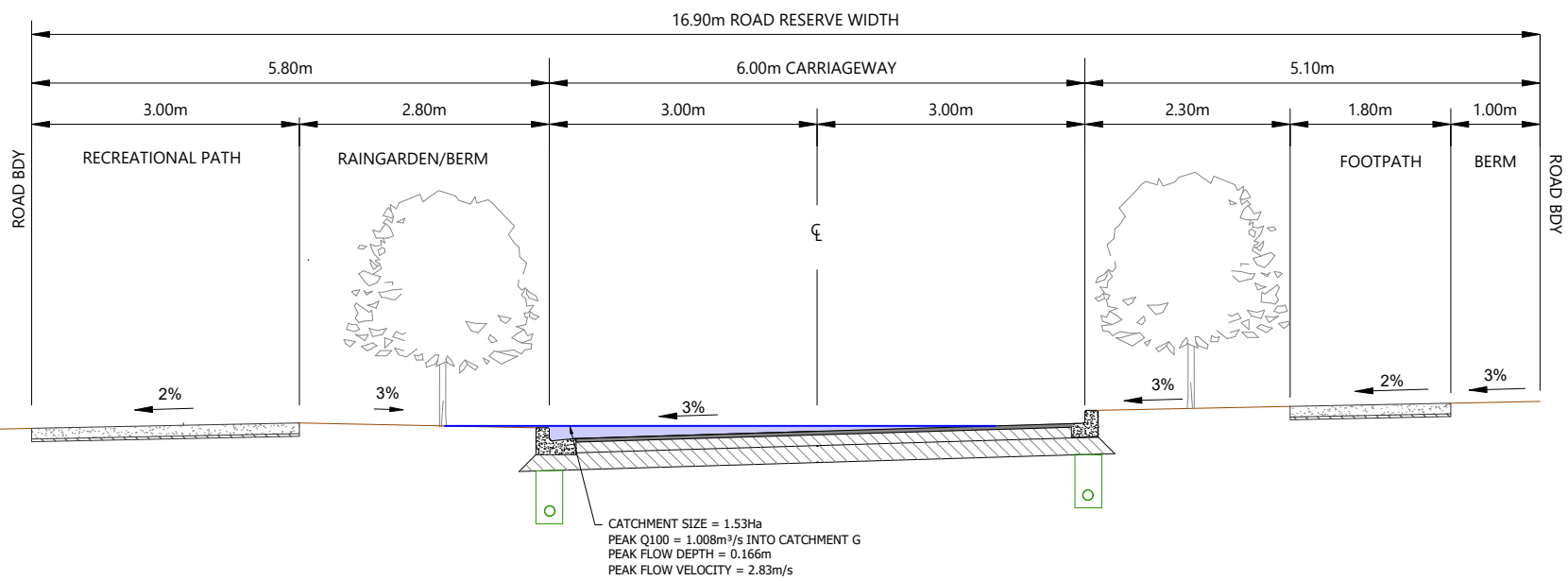
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1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

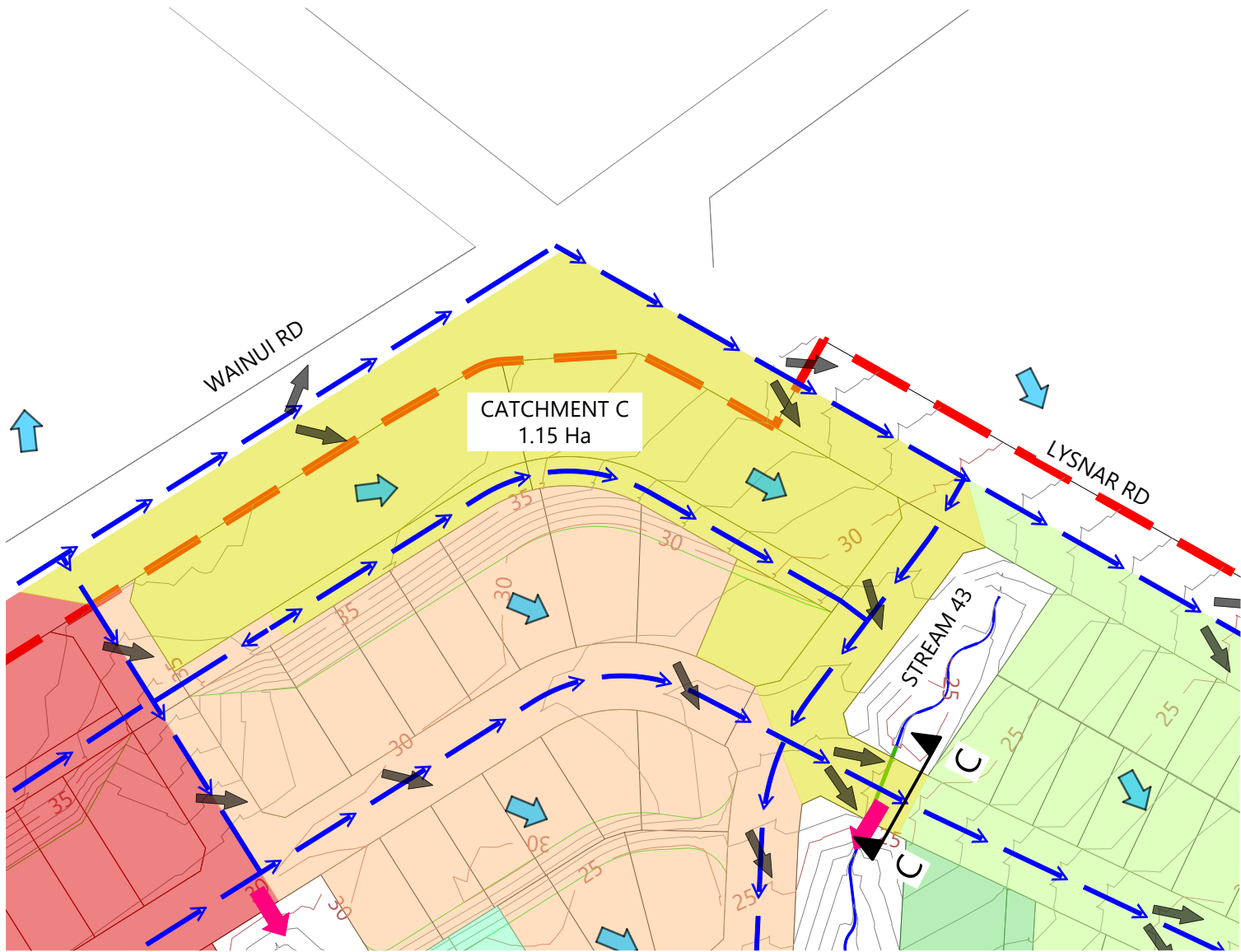
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MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 2

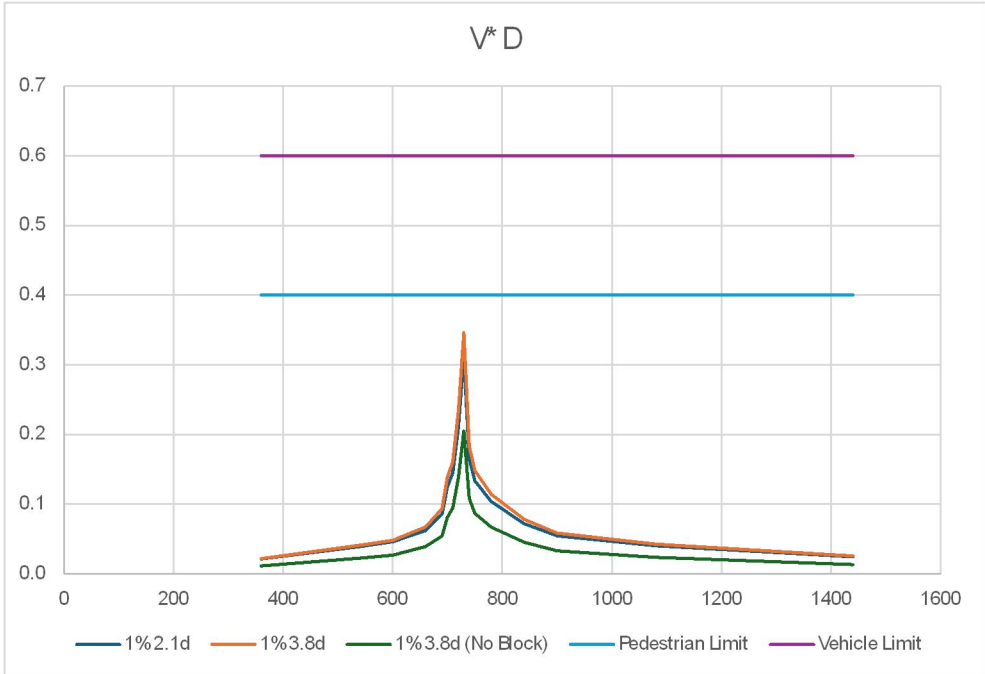
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SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3022-DR	



ROAD-SECTION B-B
Scale: 1:160@A1 - 1:80@A3



CATCHMENT C PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION C-C VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

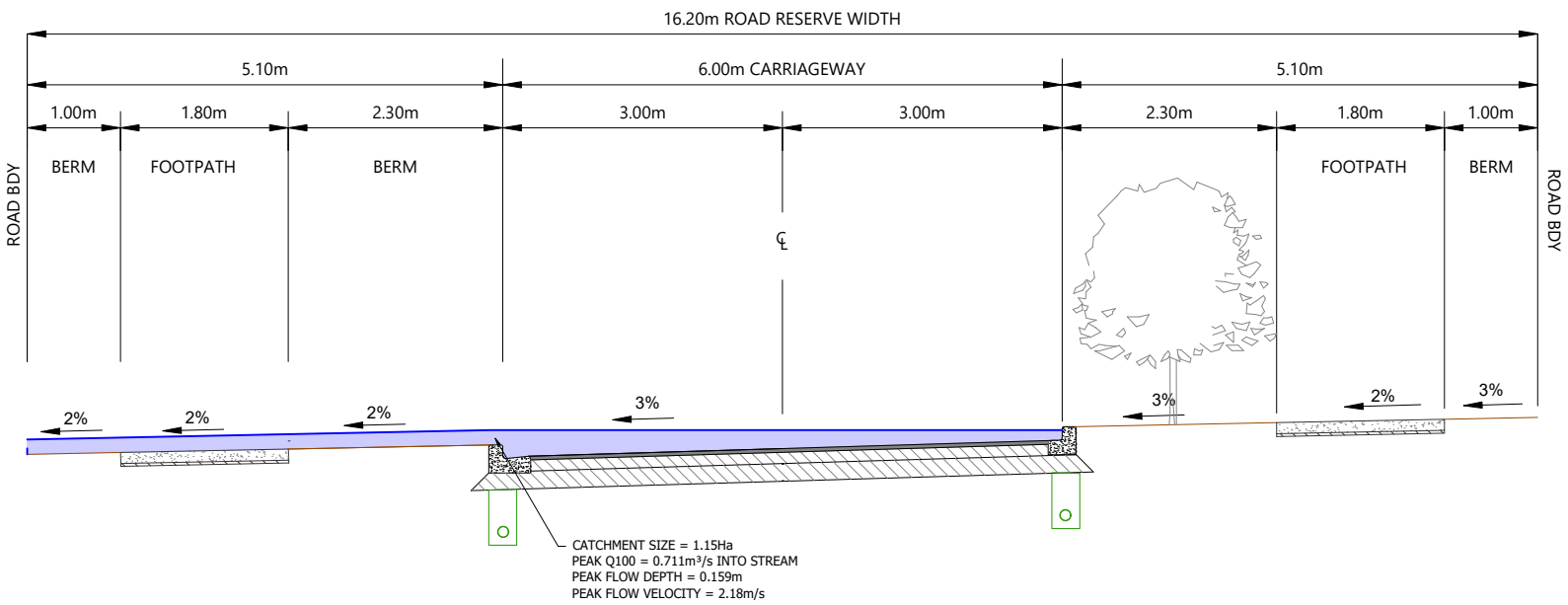
- STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

REVISION DETAILS		BY	DATE
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2	ISSUED FOR CONSENT	MW	JUL 2025

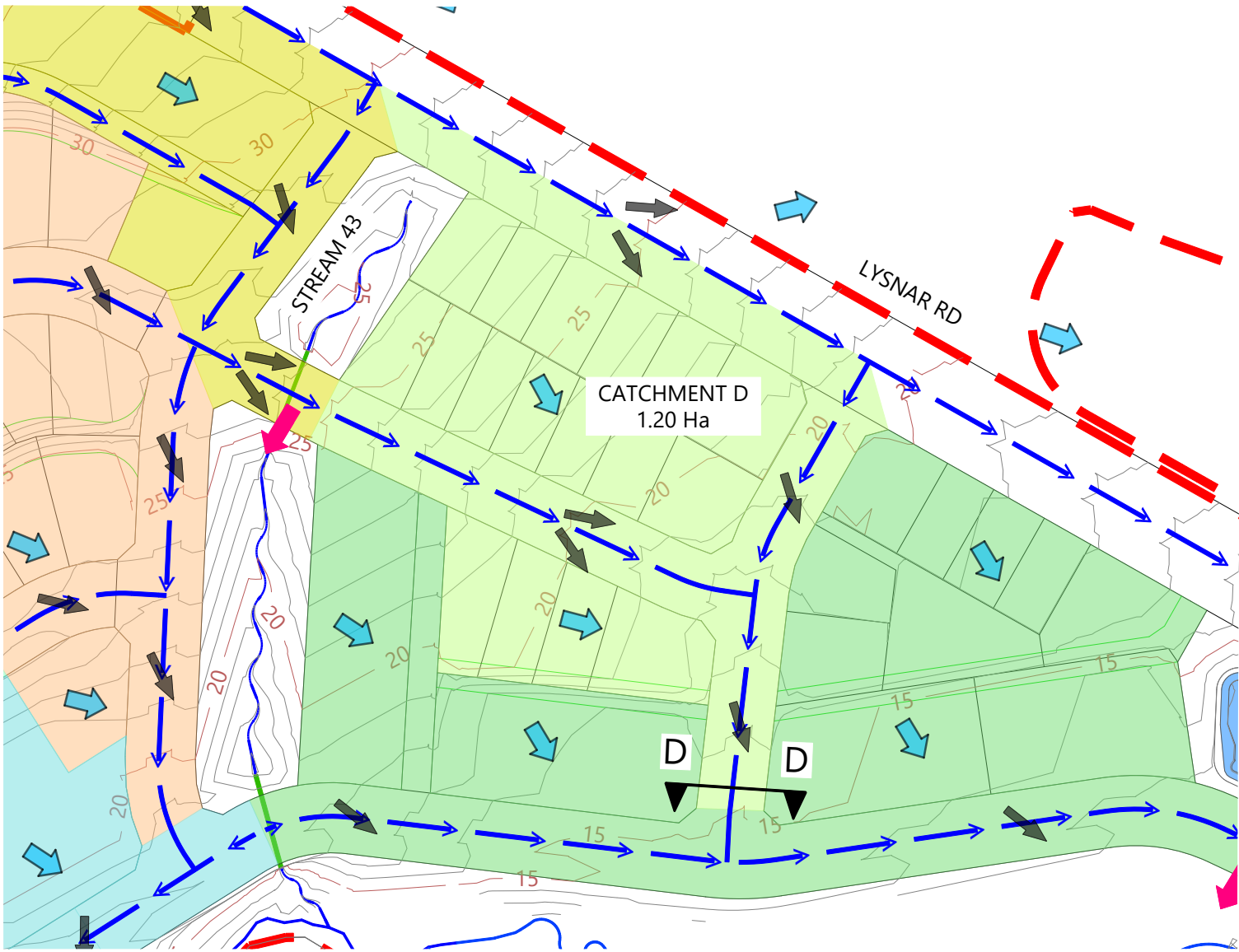
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DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 3

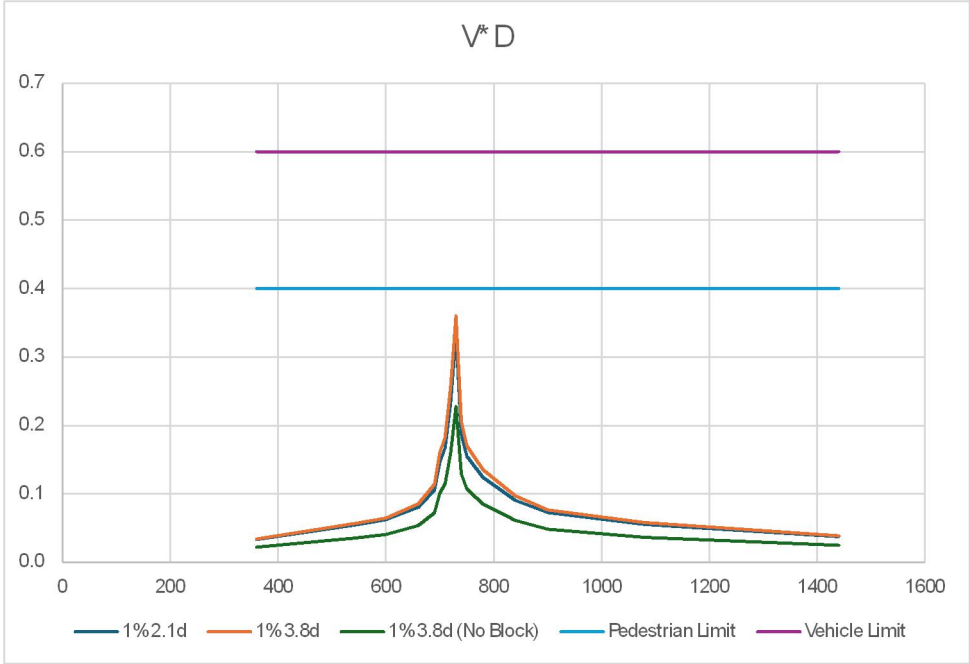
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DWG NO	P24-128-00-3023-DR	



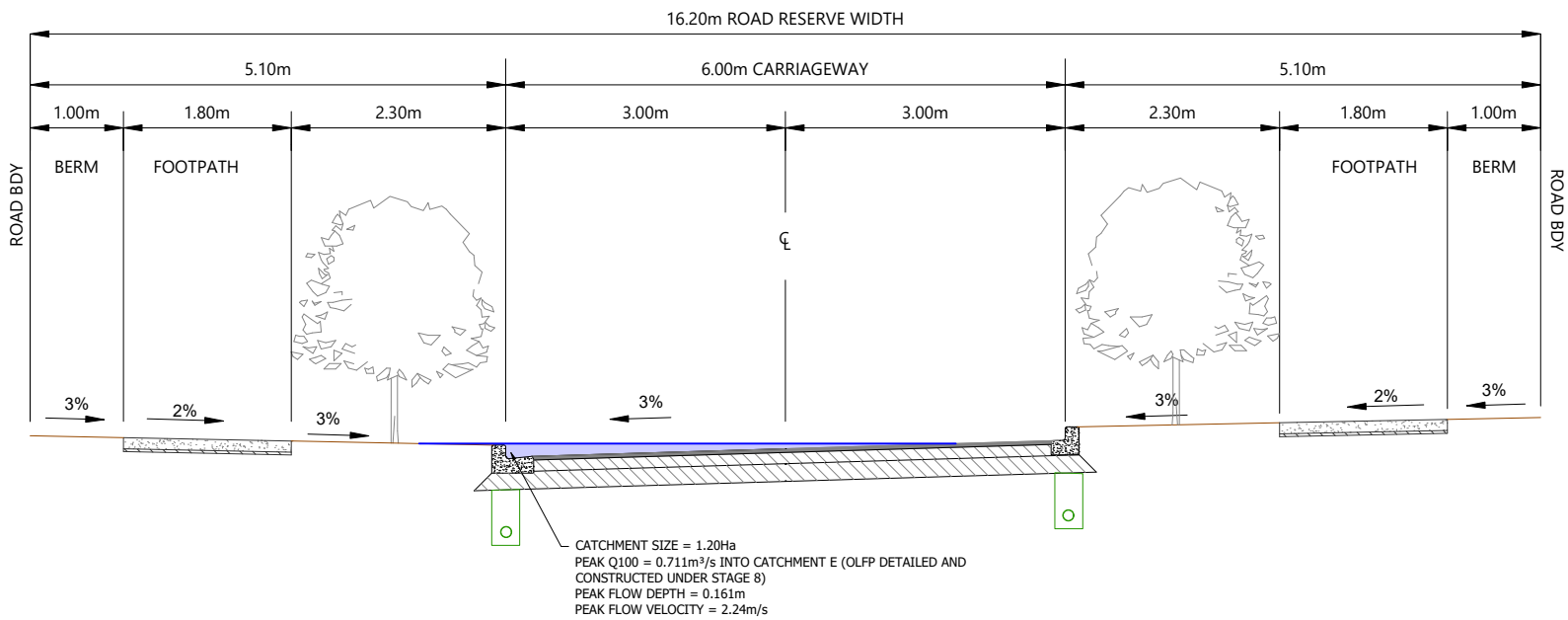
ROAD-SECTION C-C
Scale: 1:160@A1 - 1:80@A3



CATCHMENT D PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION D-D VxD GRAPH



ROAD-SECTION D-D
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

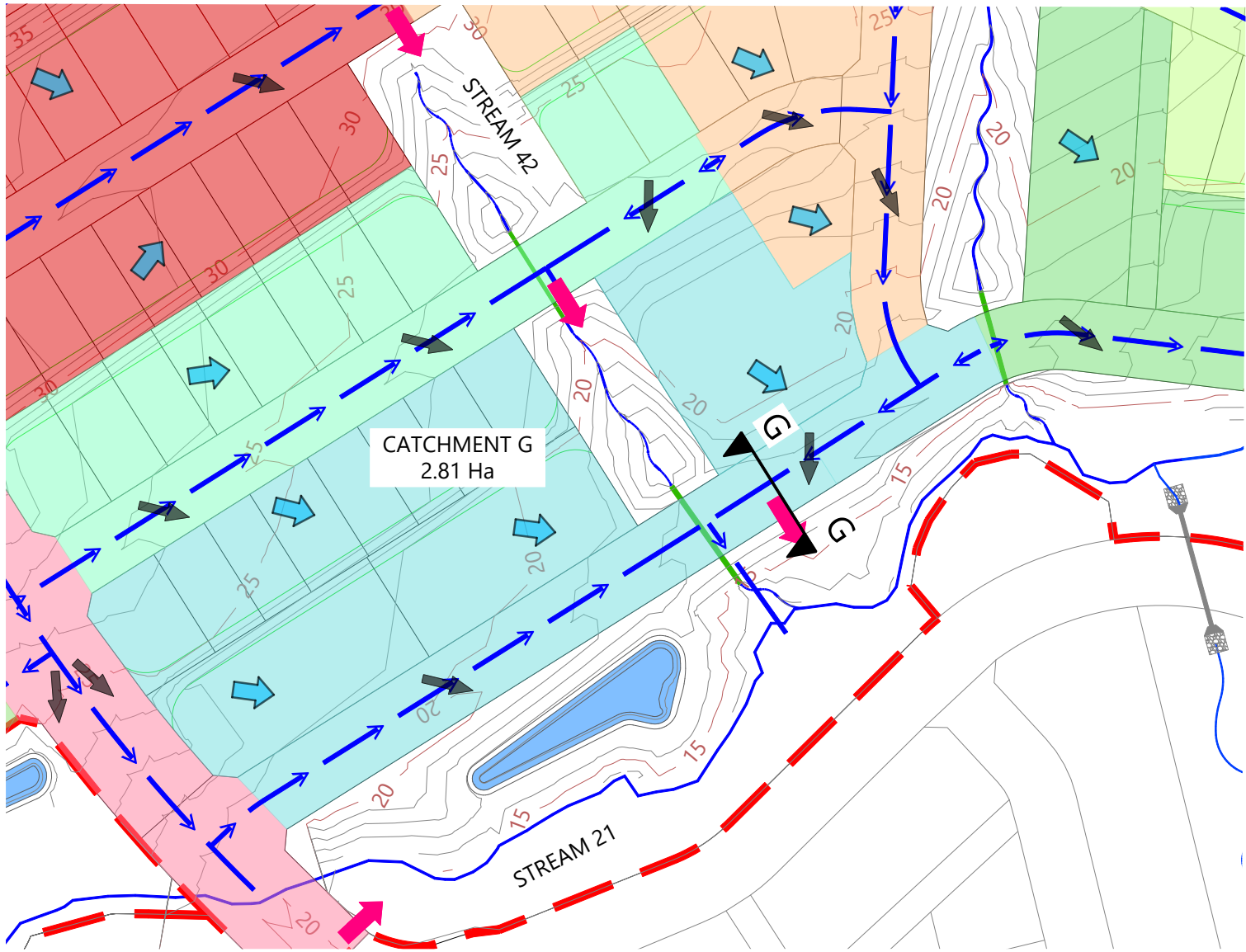
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2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

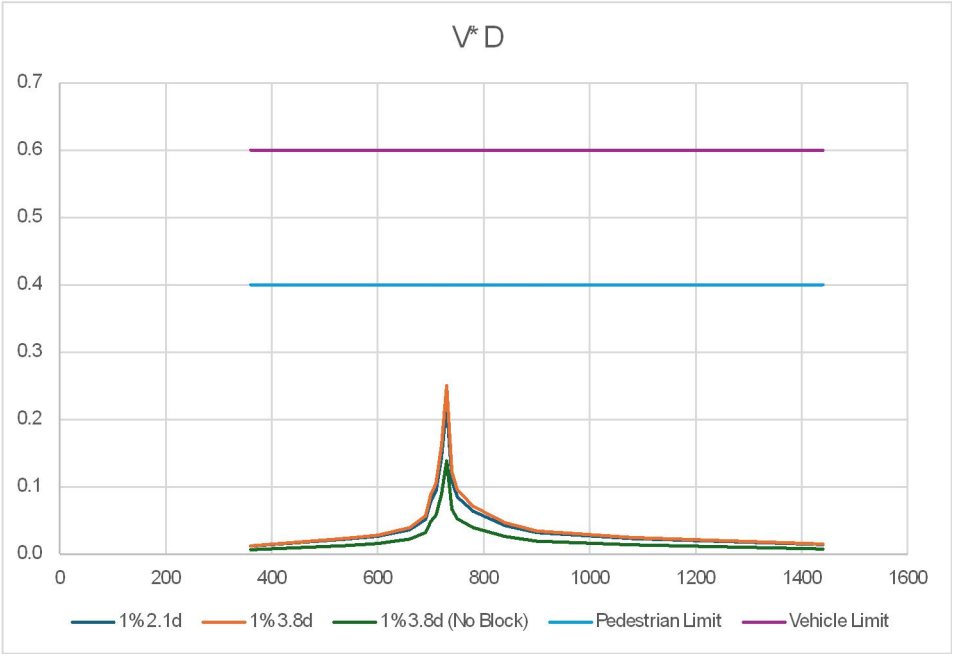
N	MILLDALE Connecting Lives & Land
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MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 4

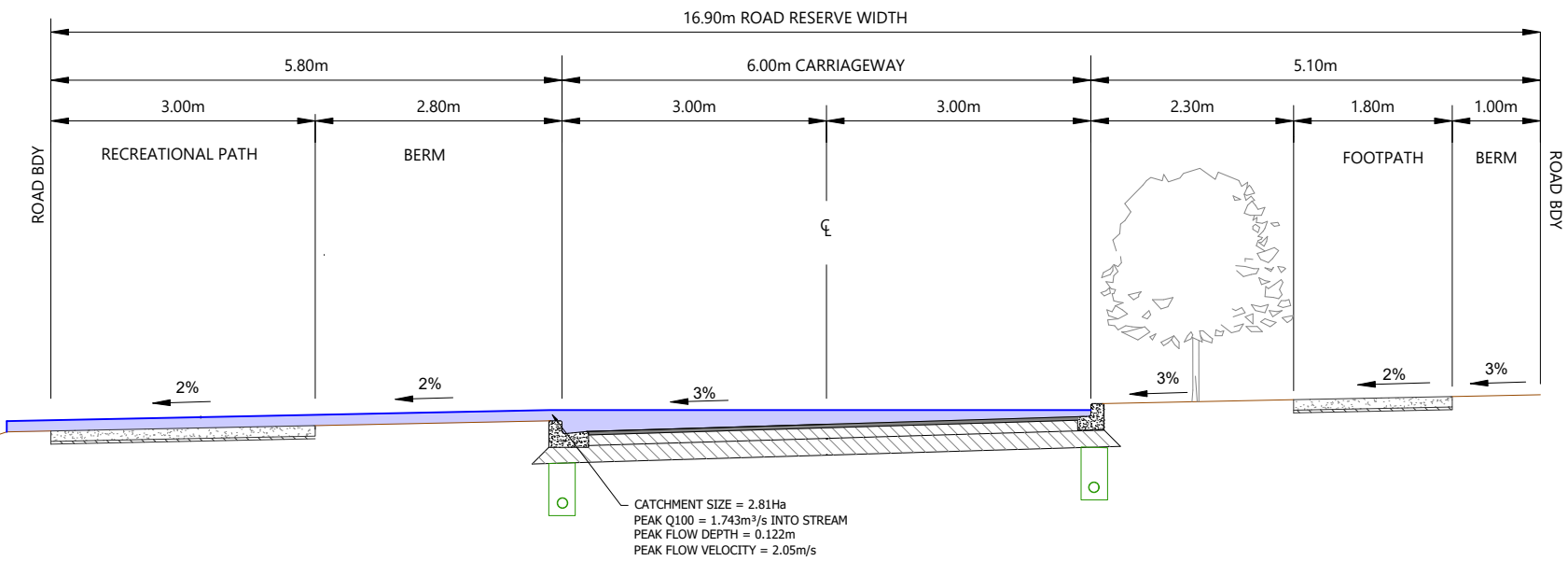
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SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3024-DR	



CATCHMENT G PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION G-G VxD GRAPH



ROAD-SECTION G-G
Scale: 1:160@A1 - 1:80@A3



- LEGEND**
- EXTENTS OF FAST TRACK APPLICATION
 - BOUNDARIES
 - WATERCOURSE (SUBJECT TO ECOLOGY)
 - DESIGN CONTOURS (1m INTERVAL)
 - LOT OVERLAND FLOW
 - ROAD OVERLAND FLOW
 - ROAD CROSS FALL FLOW
 - OVERLAND FLOW SPILL POINT
 - 100 YEAR FLOOD EXTENTS
 - PROPOSED STORMWATER DRY BASIN

- NOTES**
- STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
 - CATCHMENT FLOWS BASED ON C=0.8 FOR DEVELOPED AREAS & ROADS. RAINFALL INTENSITY 290mm (Q100) (INCLUDING CLIMATE CHANGE).
 - CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

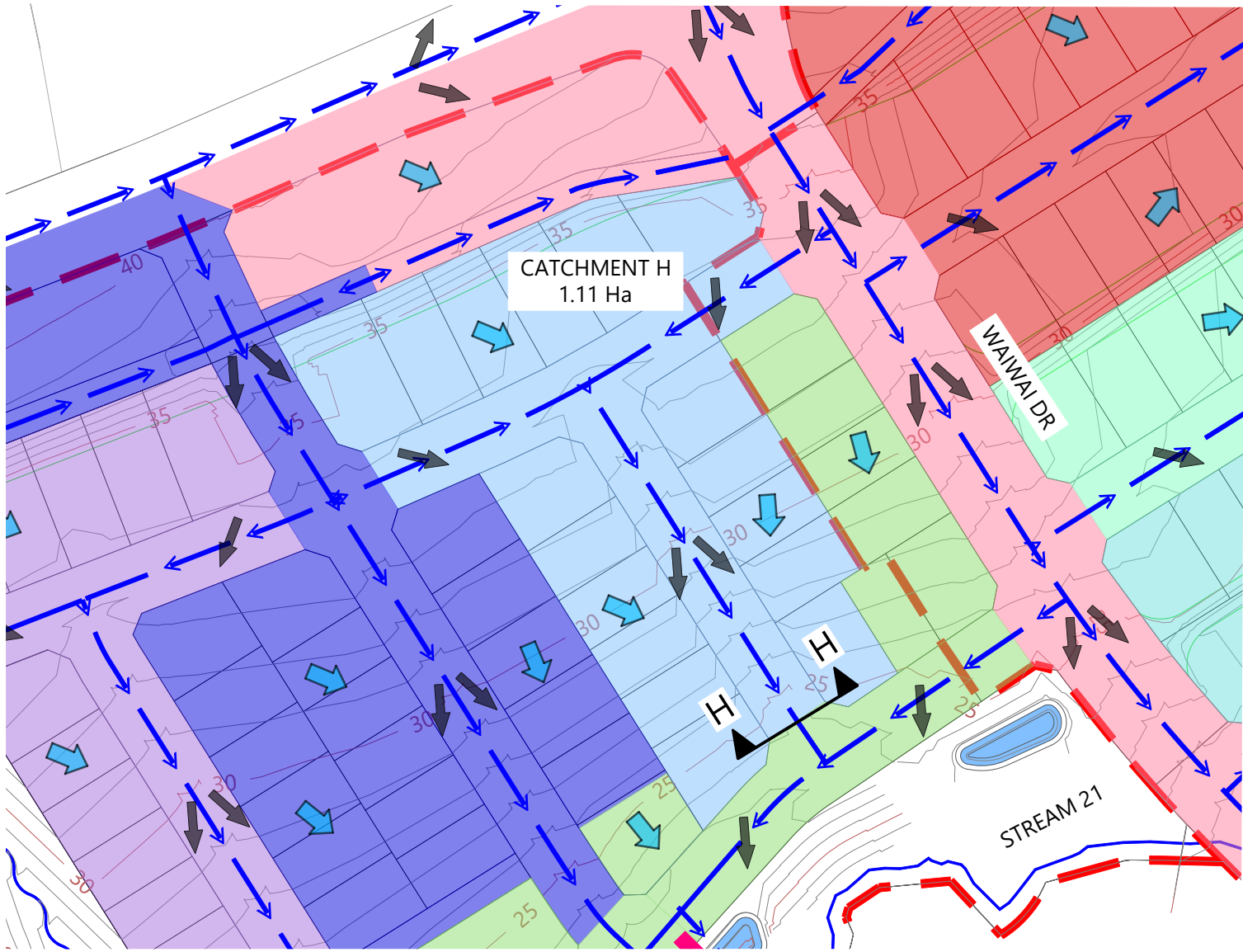
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2	ISSUED FOR CONSENT	MW	JUL 2025

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DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

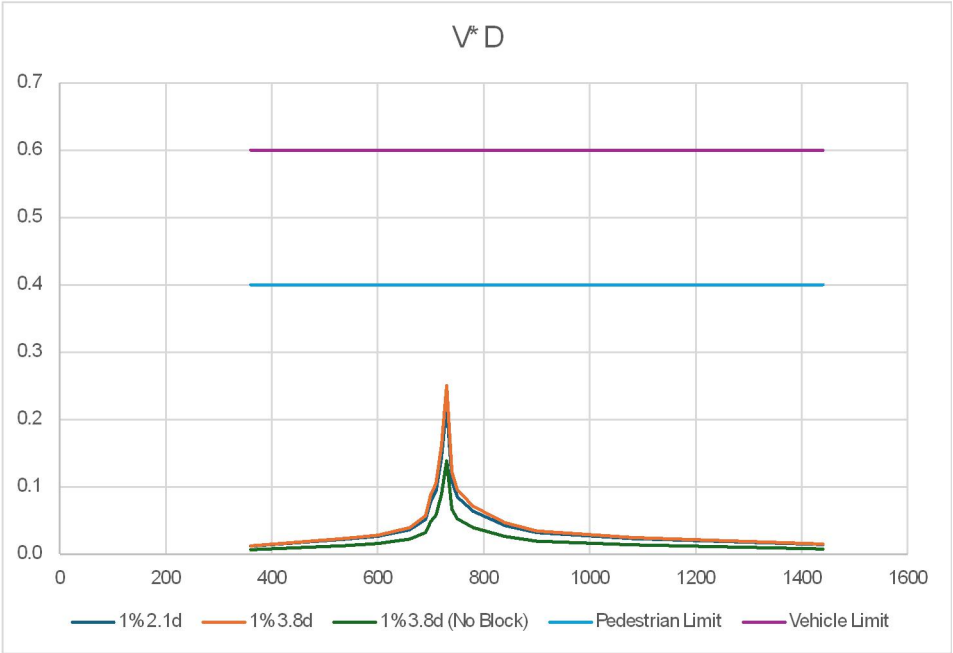
Connecting Lifelines

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 5

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3025-DR	



CATCHMENT H PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION H-H VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

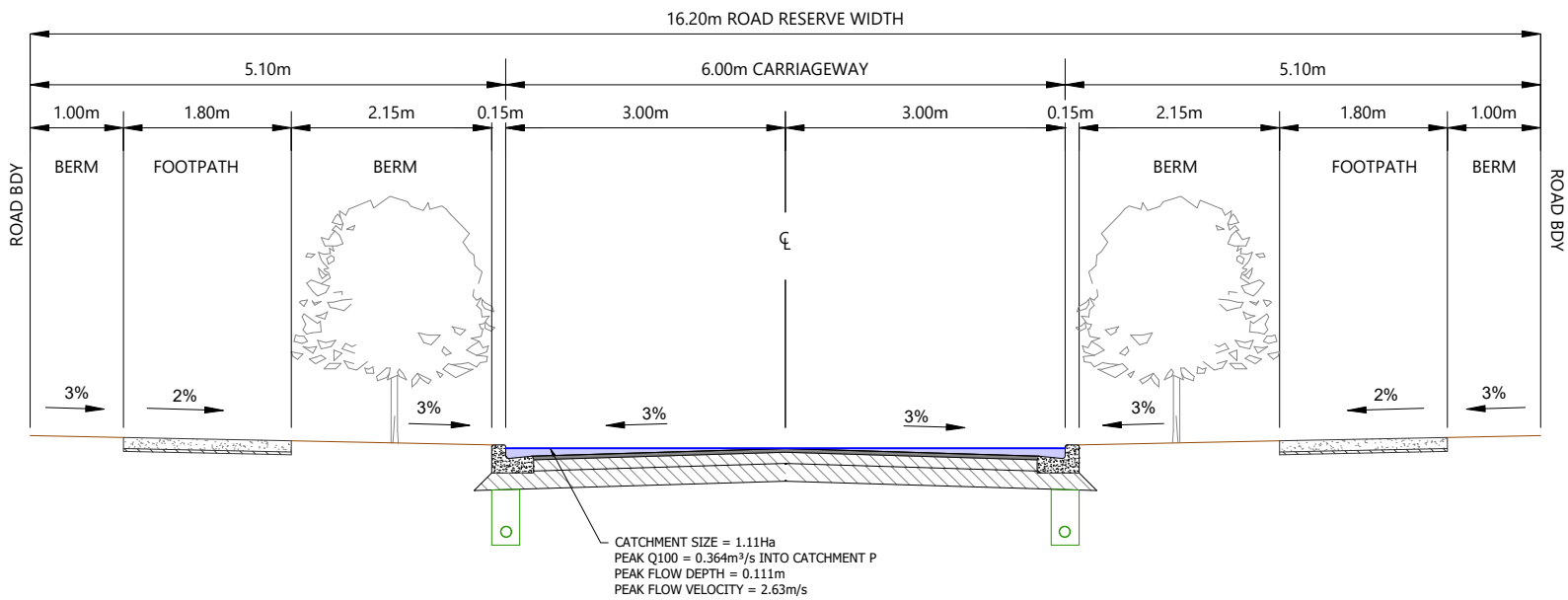
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2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

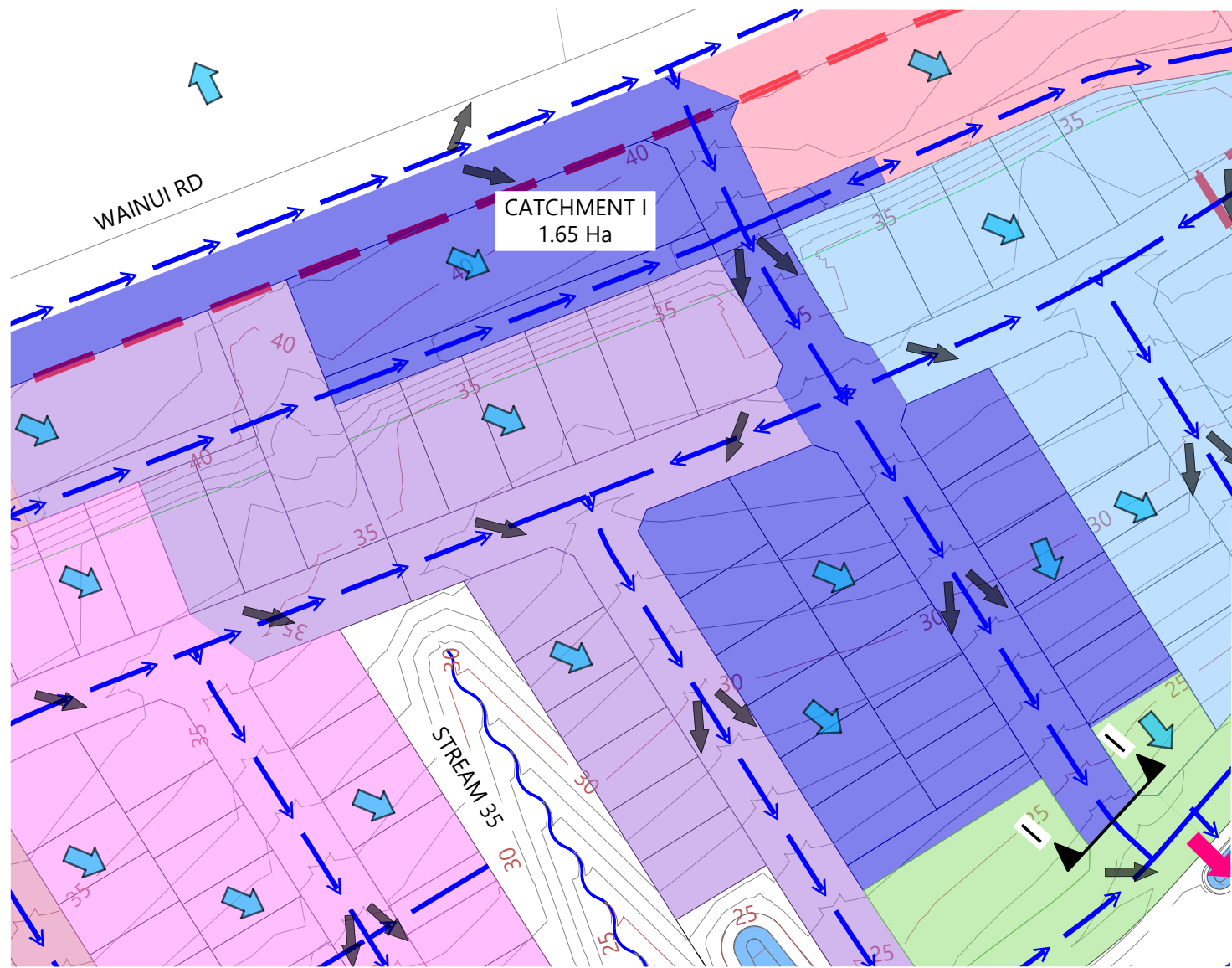
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MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 6

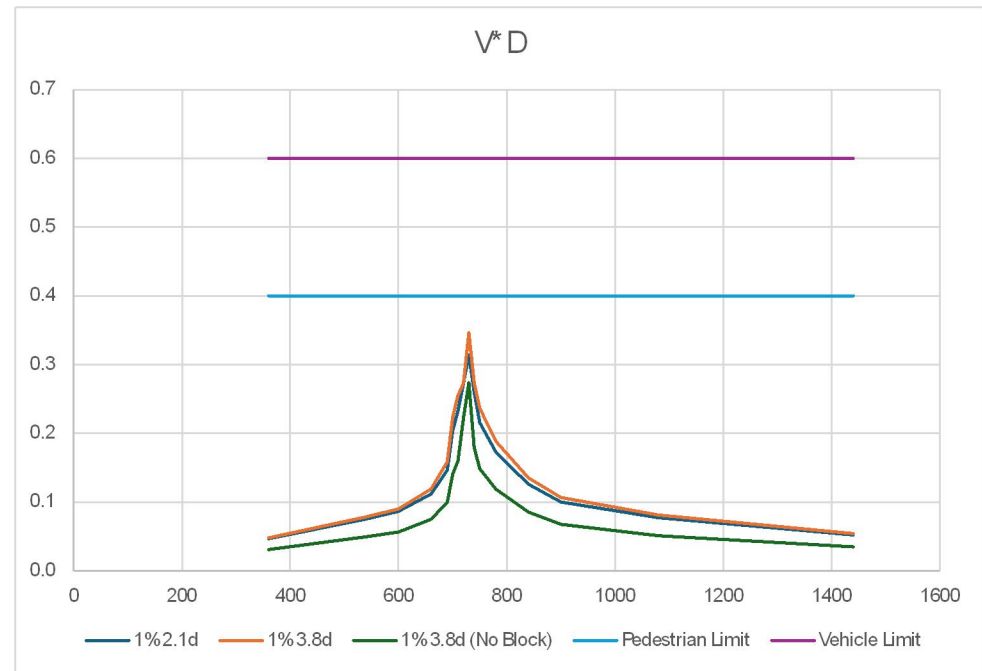
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SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3026-DR	



ROAD-SECTION H-H
Scale: 1:160@A1 - 1:80@A3



CATCHMENT I PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION I-I VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

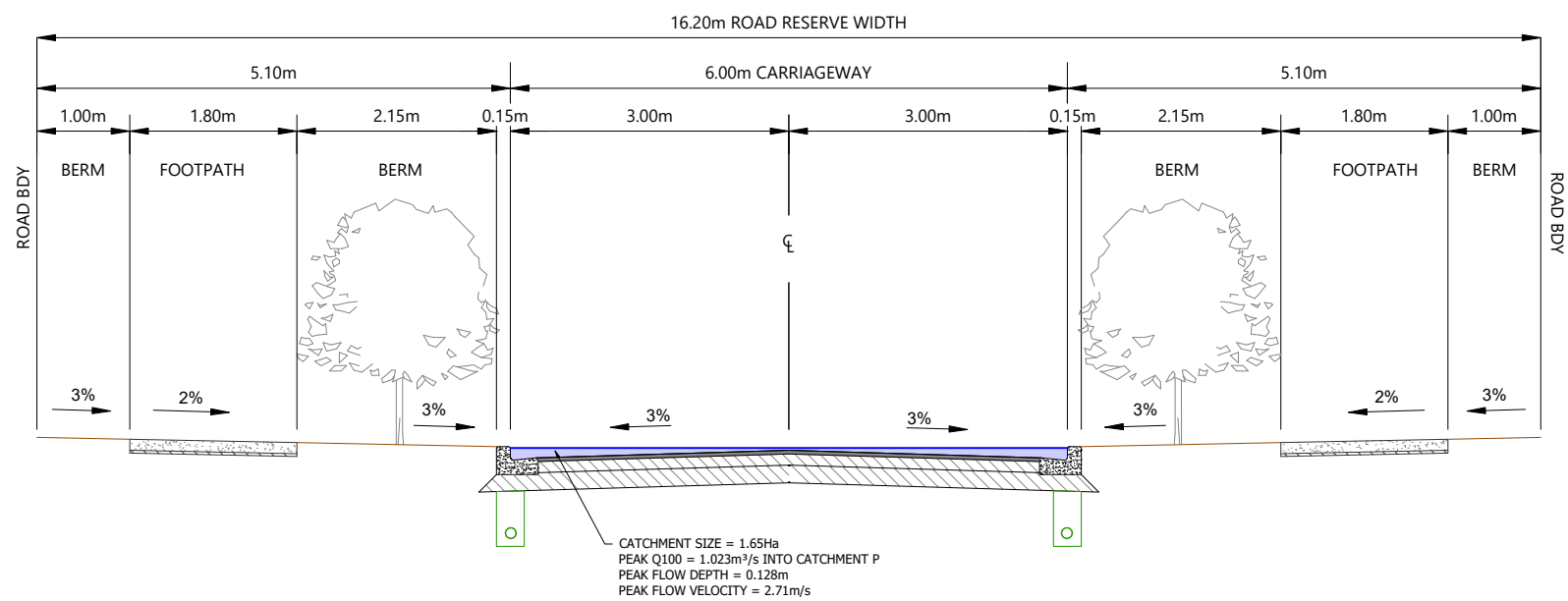
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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

REVISION DETAILS		BY	DATE
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2	ISSUED FOR CONSENT	MW	JUL 2025

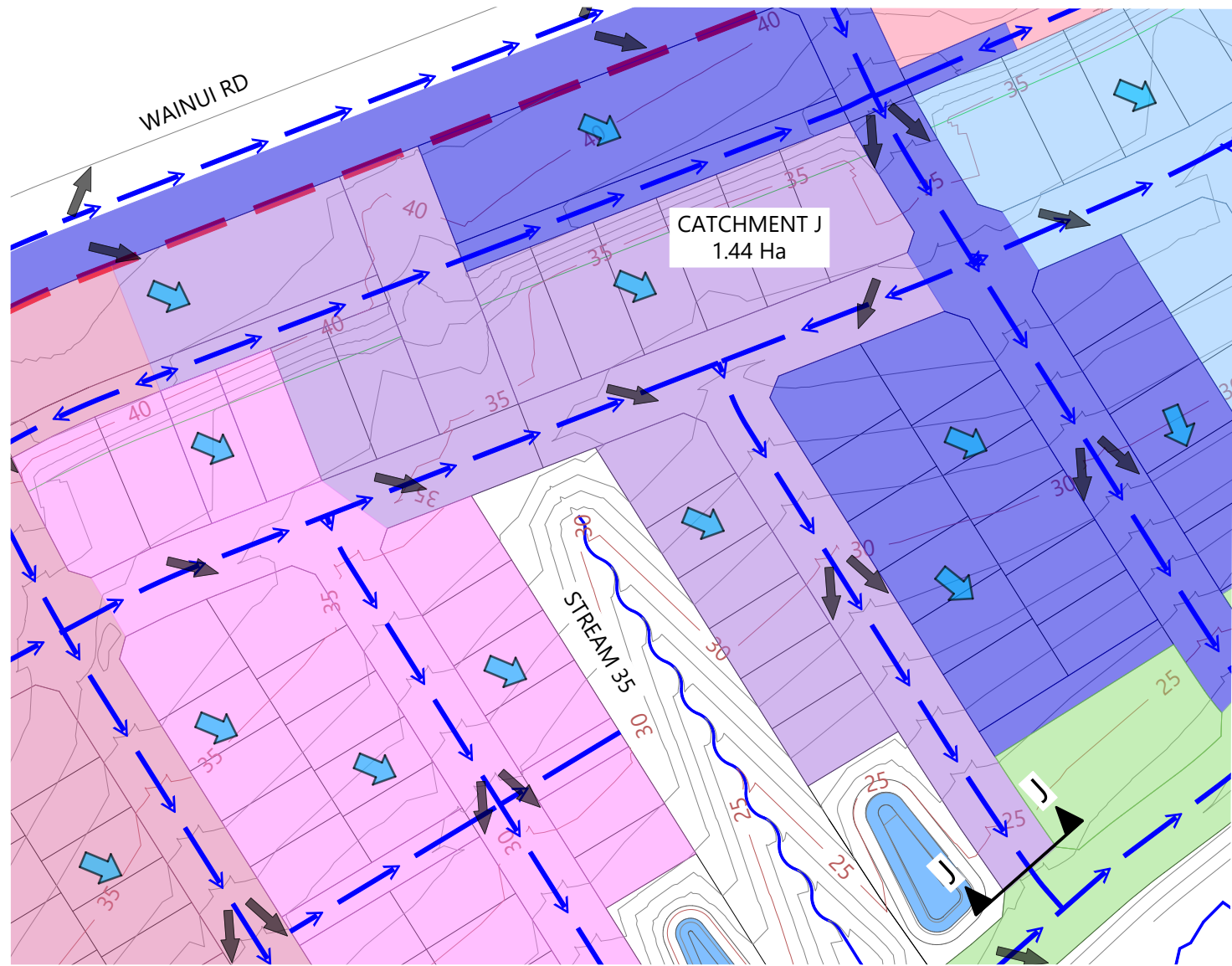
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 7

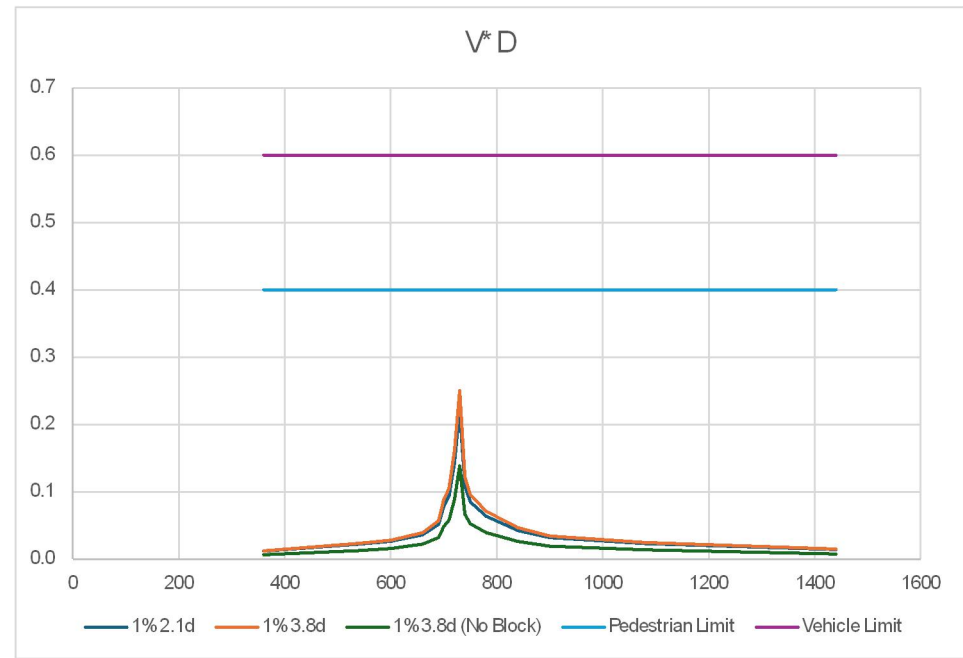
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COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3027-DR	



ROAD-SECTION I-I
Scale: 1:160@A1 - 1:80@A3



CATCHMENT J PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION J-J VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

- STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

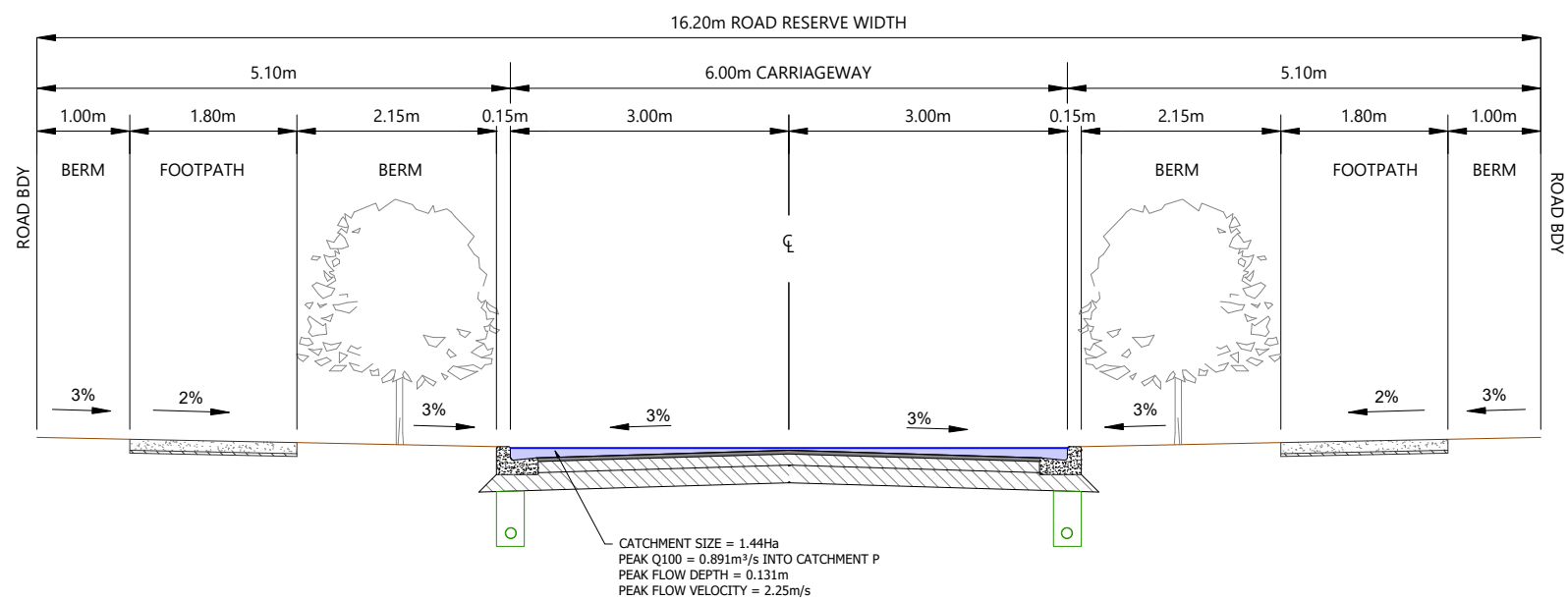
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2	ISSUED FOR CONSENT	MW	JUL 2025

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DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
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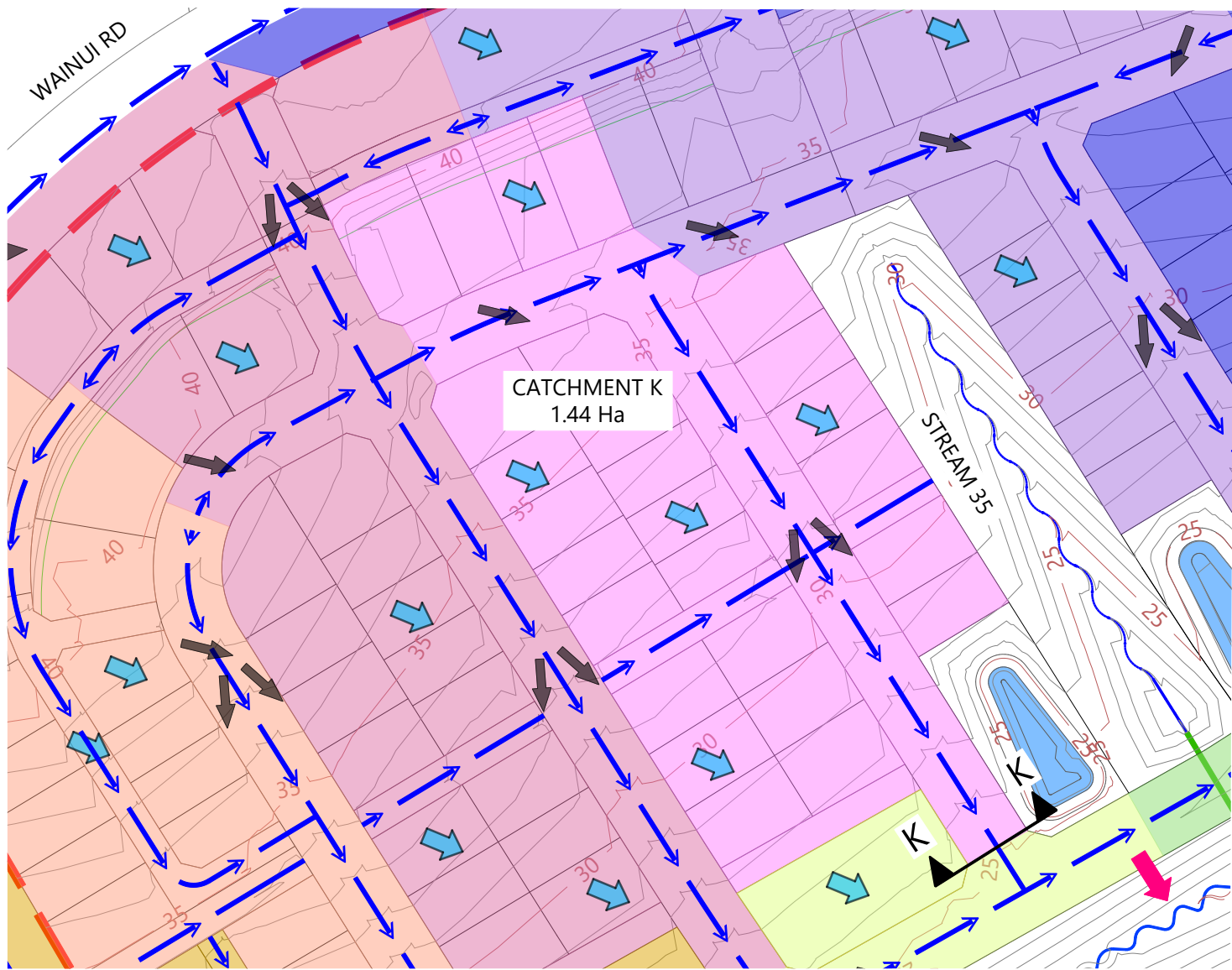
STAGE 10 - 13

STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 8

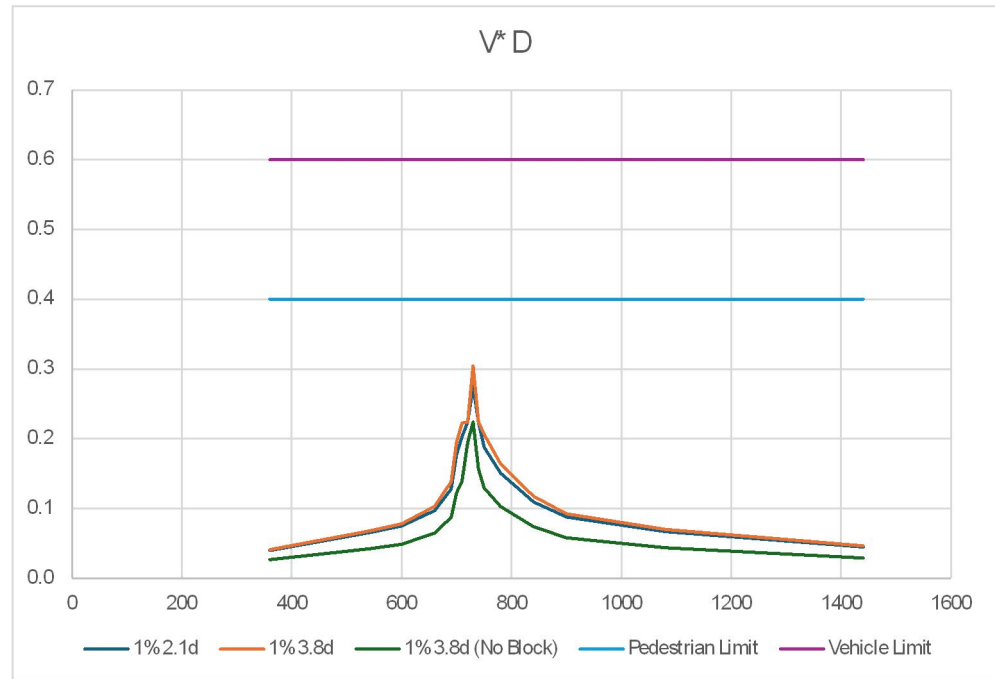
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SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3028-DR	



ROAD-SECTION J-J
Scale: 1:160@A1 - 1:80@A3



CATCHMENT K PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION K-K VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

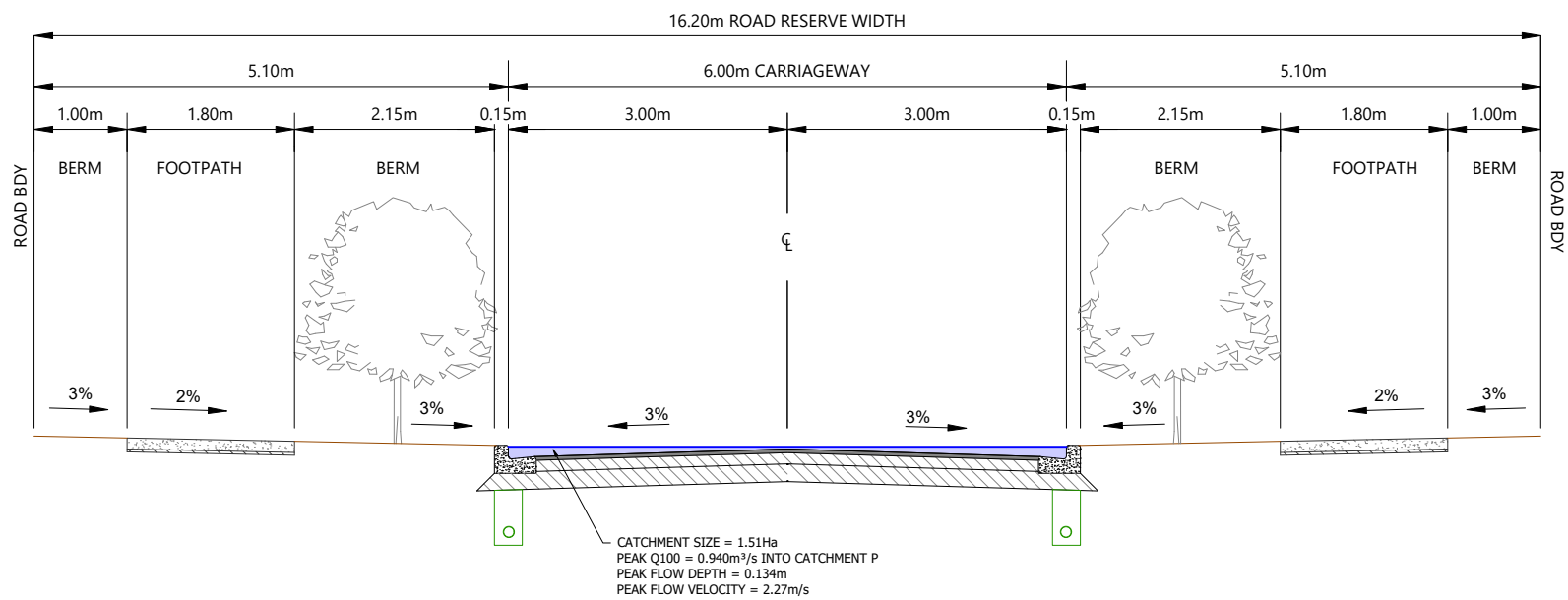
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REVISION DETAILS		BY	DATE
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2	ISSUED FOR CONSENT	MW	JUL 2025

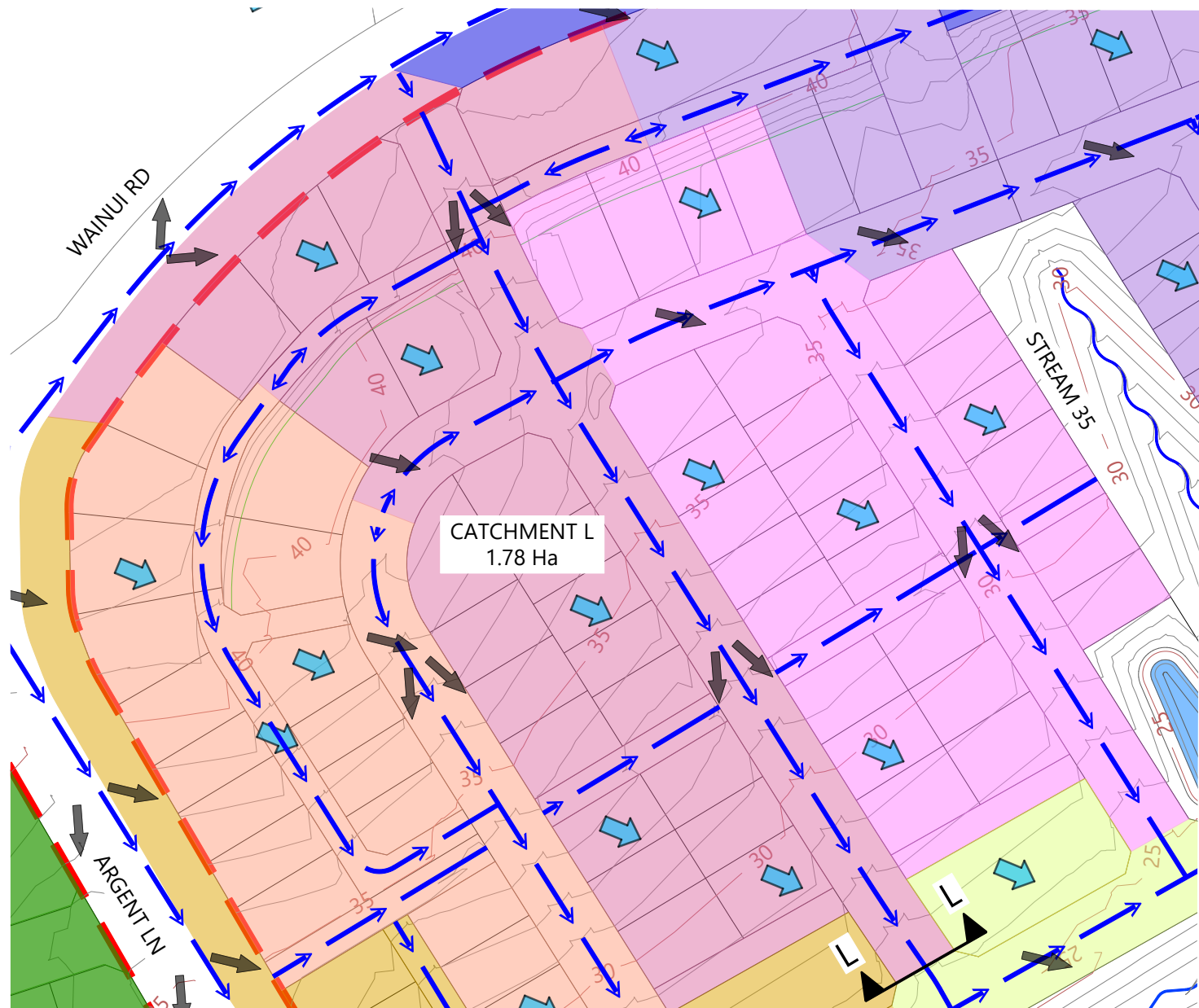
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DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 9

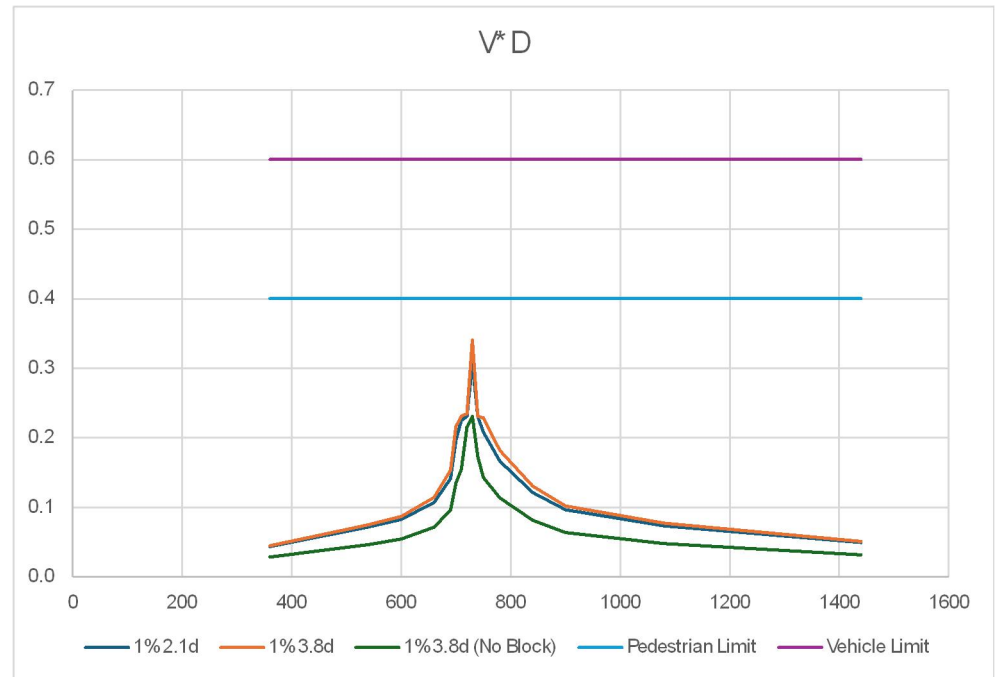
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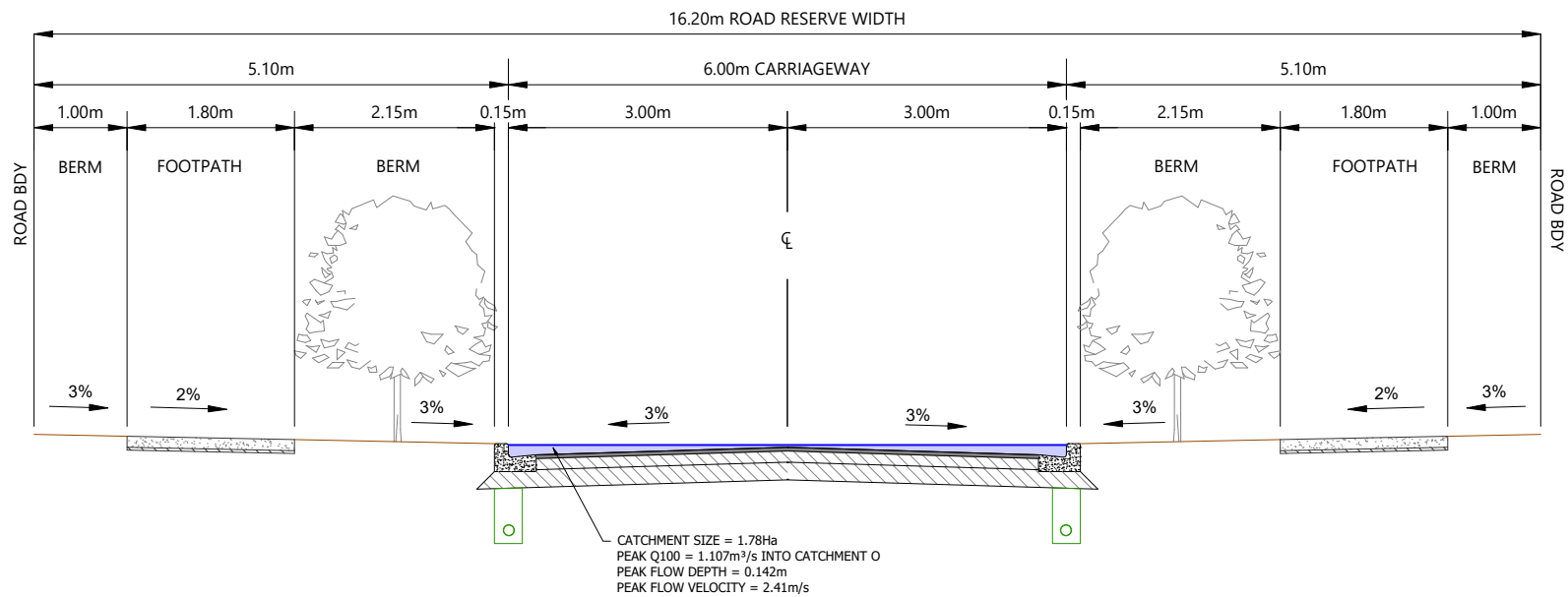
ROAD-SECTION K-K
Scale: 1:160@A1 - 1:80@A3



CATCHMENT L PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION L-L VxD GRAPH



ROAD-SECTION L-L
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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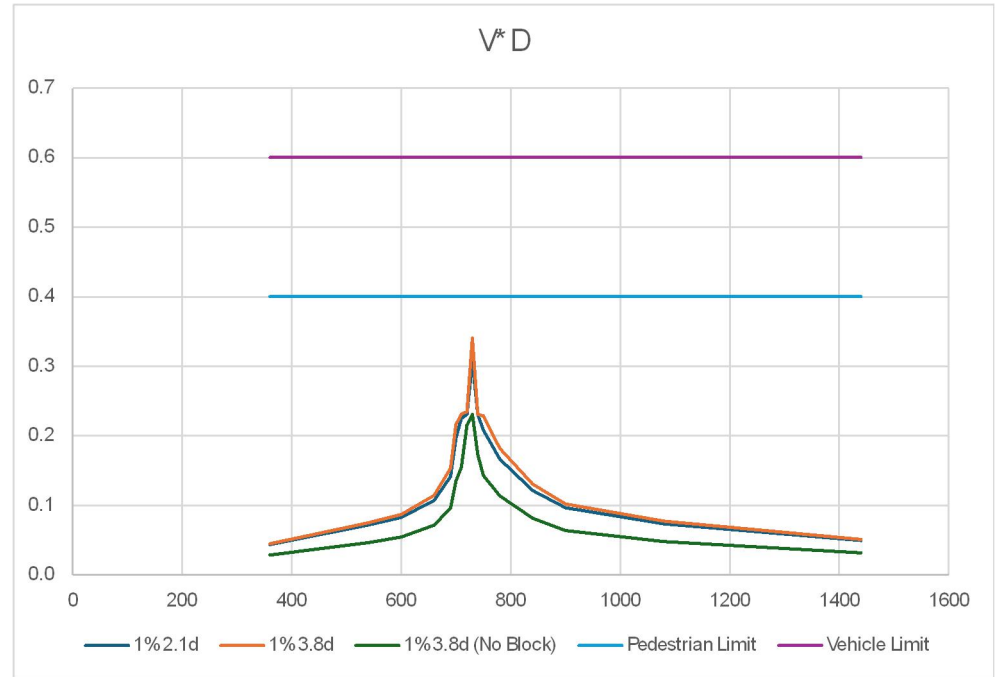
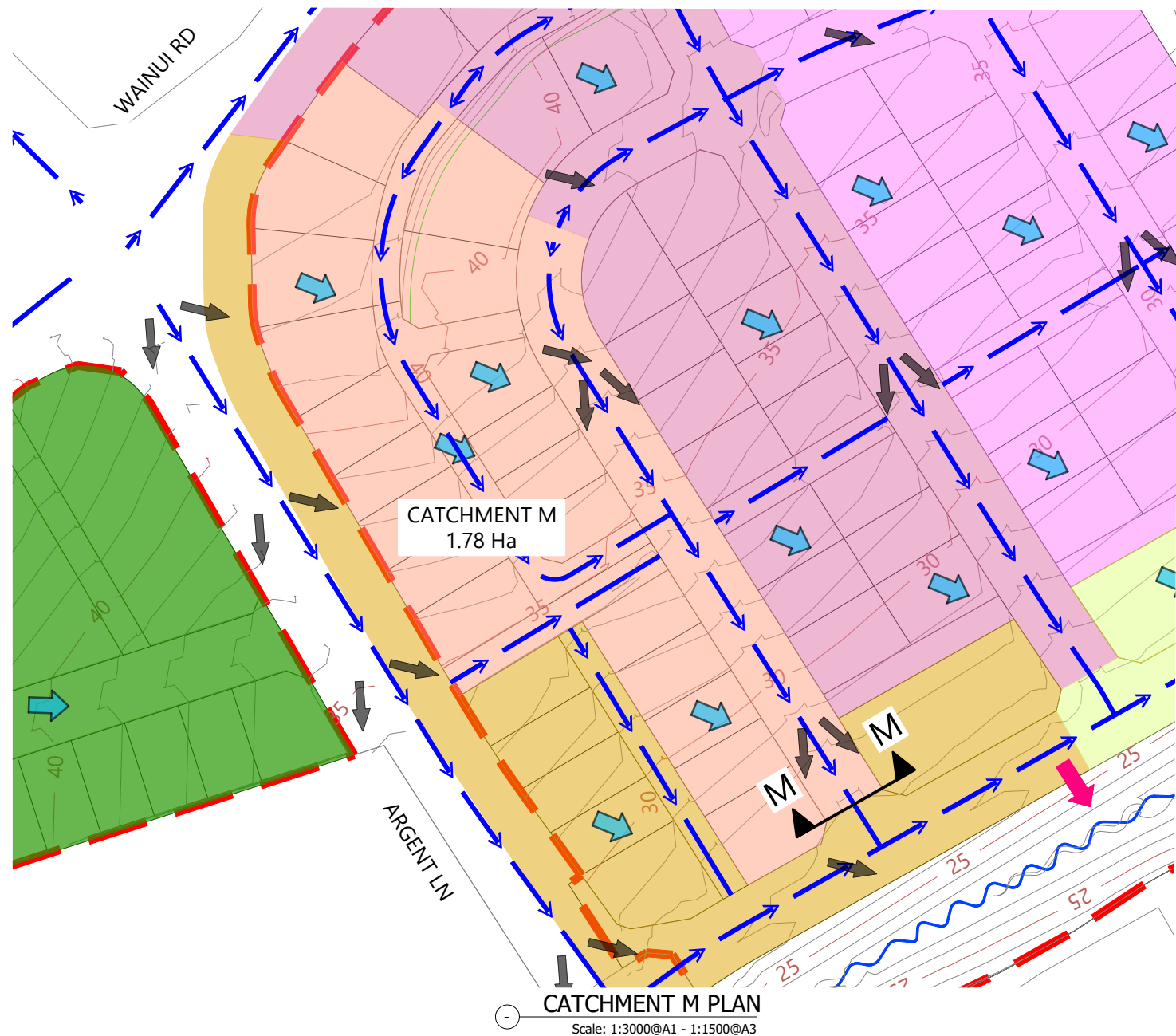
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

N	

MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 10

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3030-DR	



ROAD-SECTION M-M VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

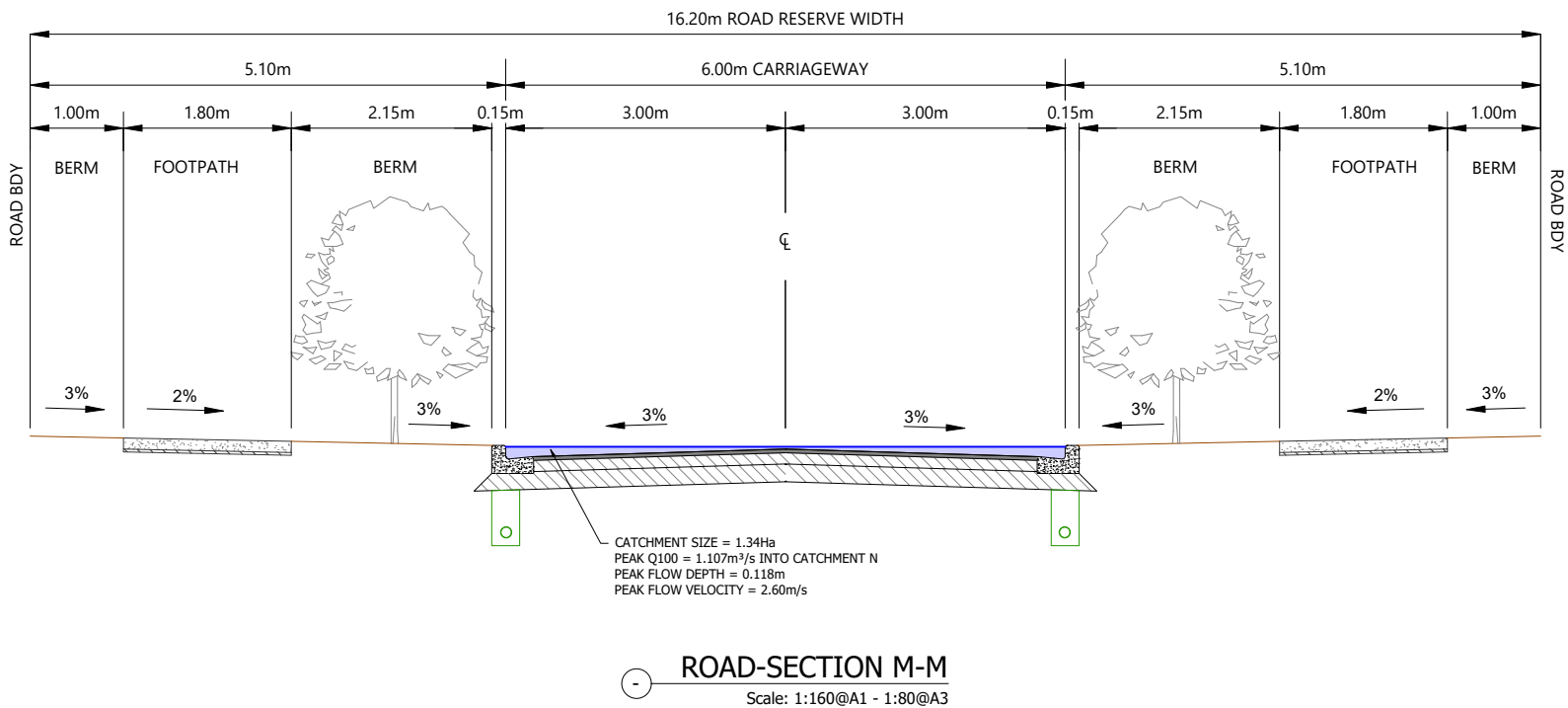
REVISION DETAILS		BY	DATE
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2	ISSUED FOR CONSENT	MW	JUL 2025

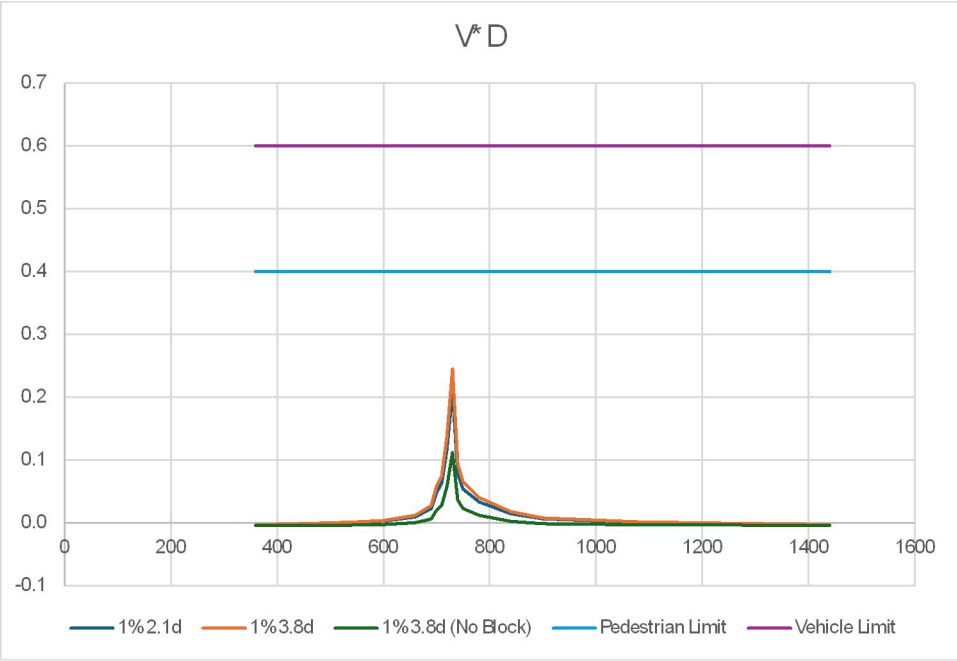
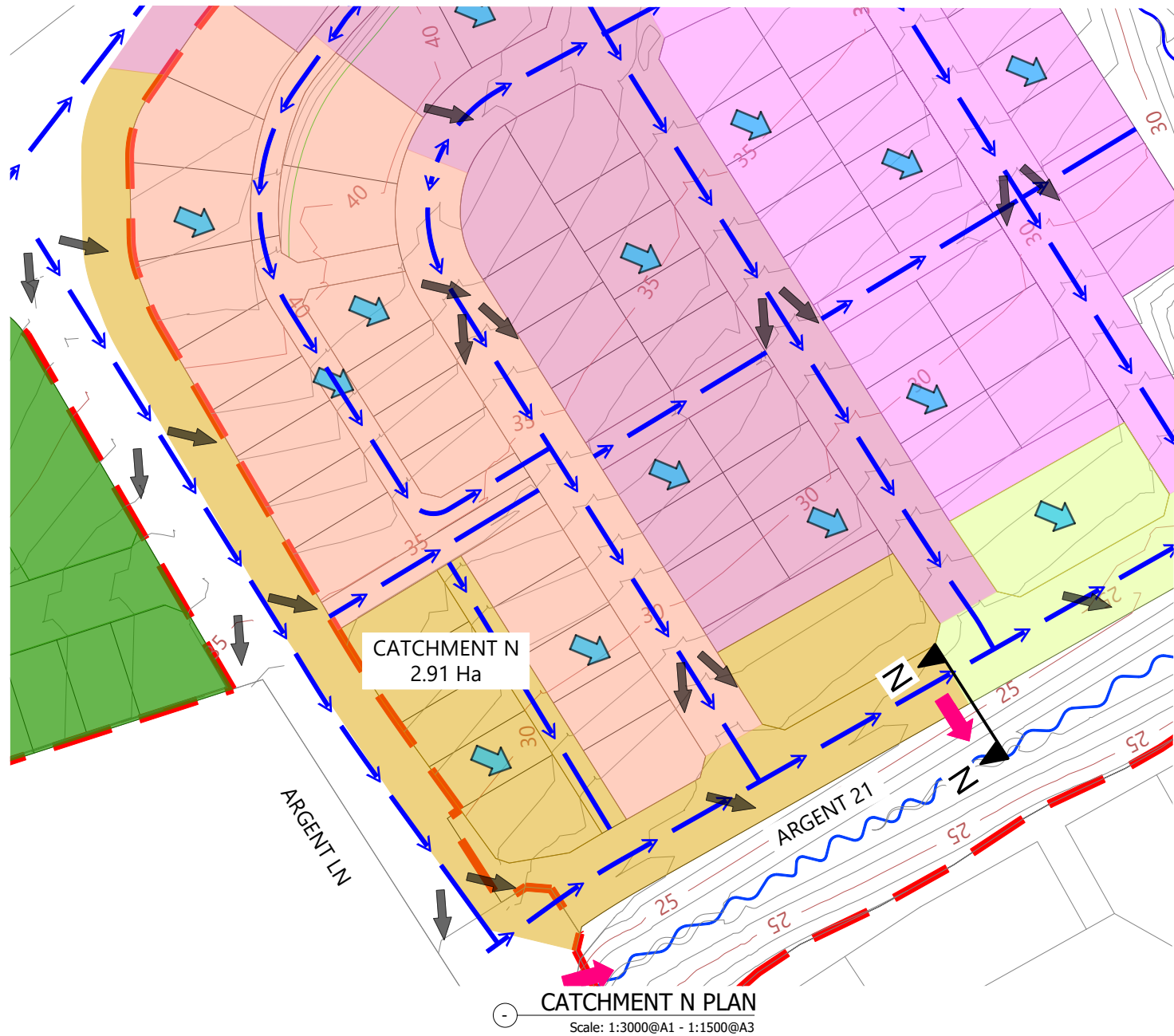
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

N	MILLDALE Connecting Lifespaces
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MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 11

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3031-DR	





ROAD-SECTION N-N VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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- CATCHMENT FLOWS BASED ON $C=0.8$ FOR DEVELOPED AREAS & ROADS. RAINFALL INTENSITY 290mm (Q100) (INCLUDING CLIMATE CHANGE).
- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

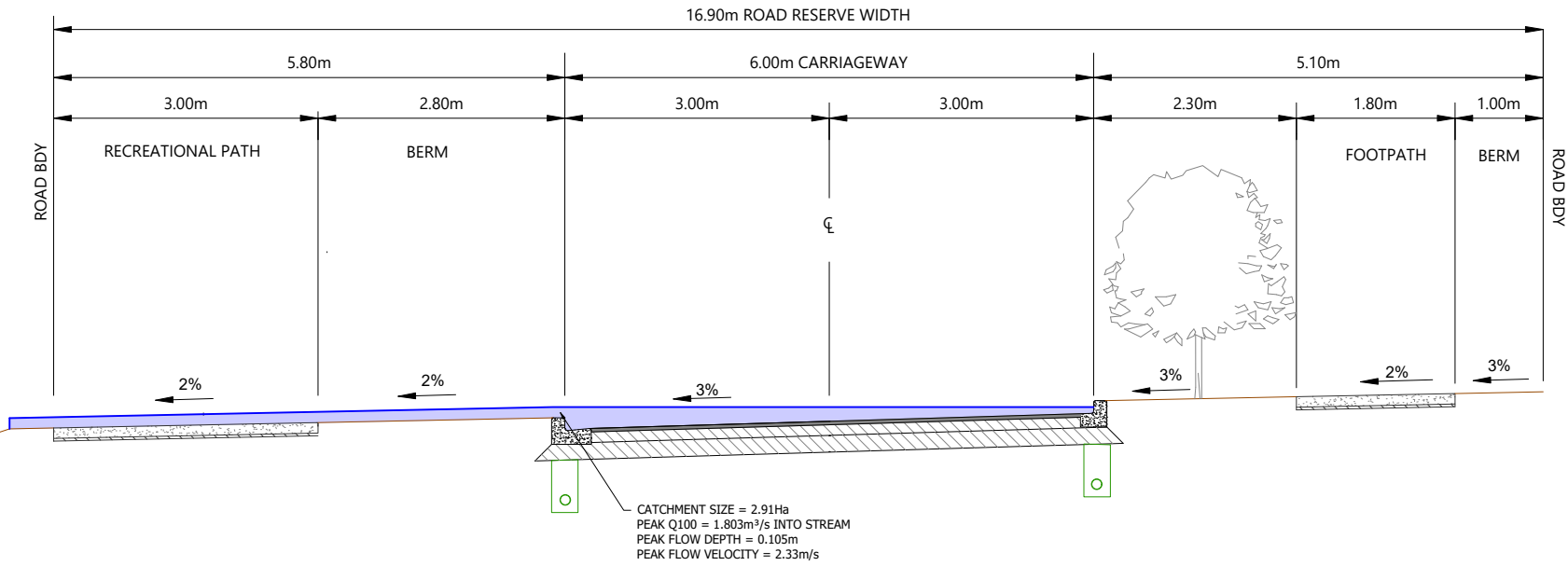
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

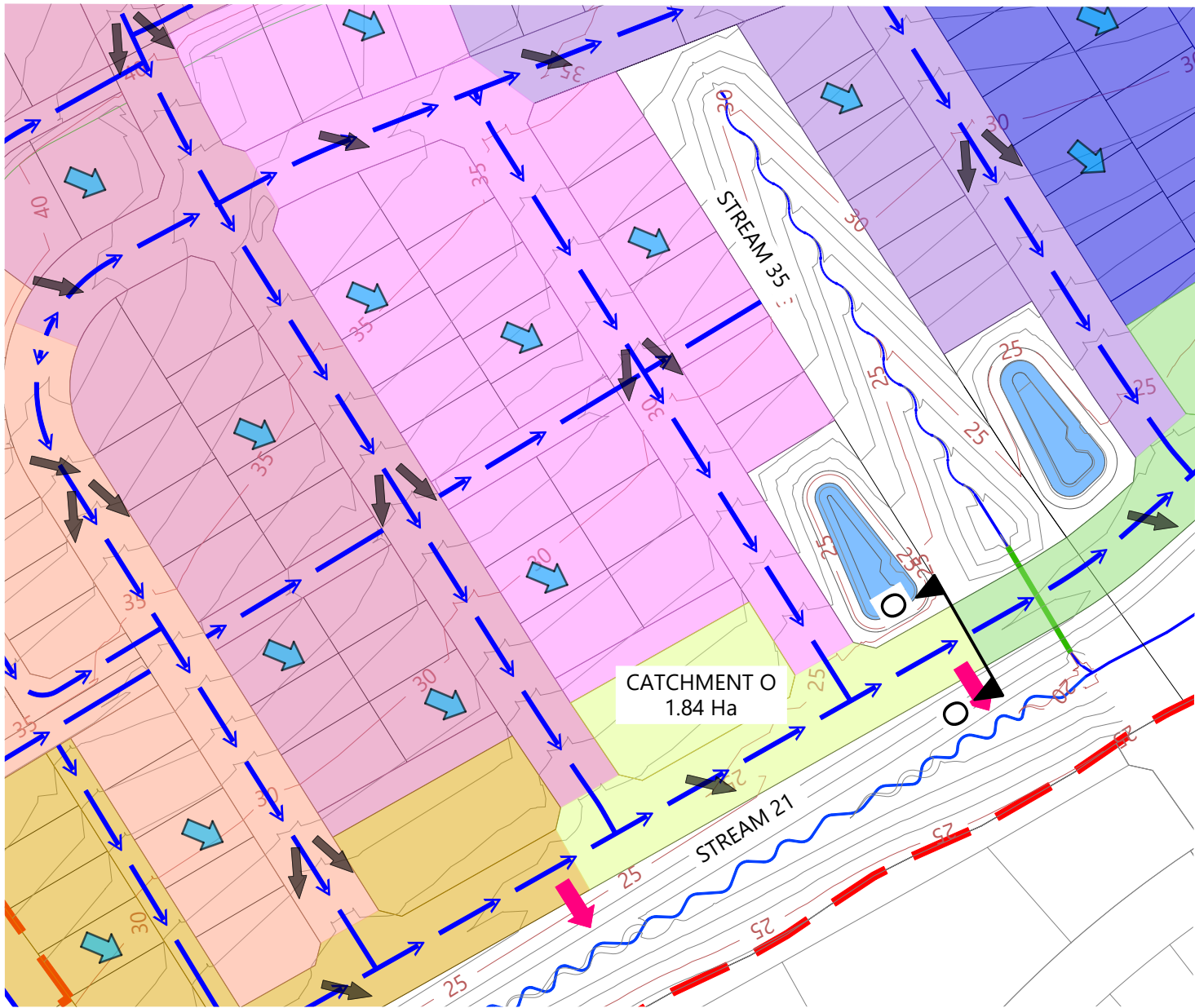
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MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 12

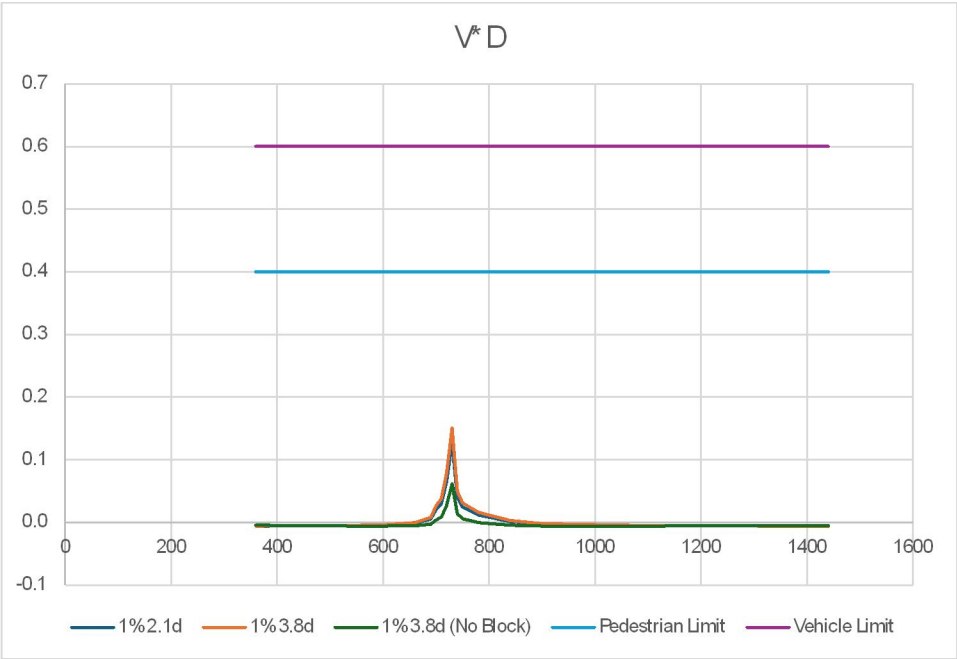
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SCALE	AS SHOWN	2
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DWG NO	P24-128-00-3032-DR	



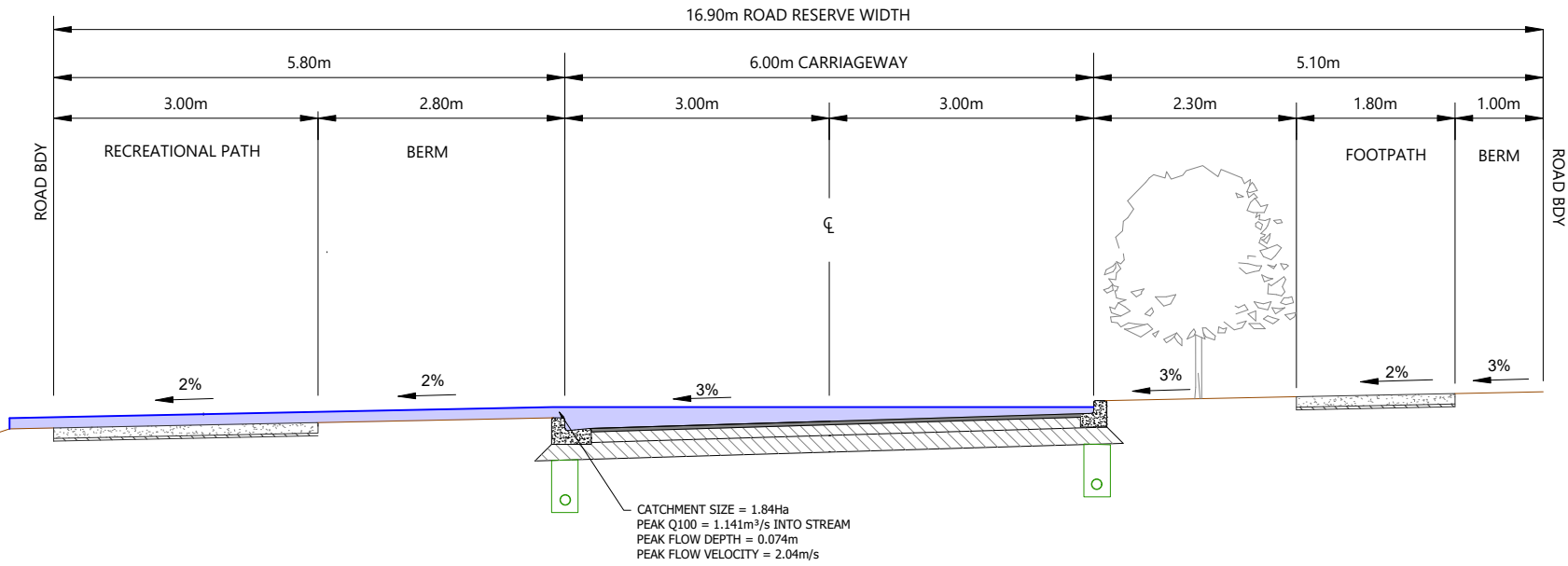
ROAD-SECTION N-N
Scale: 1:160@A1 - 1:80@A3



CATCHMENT O PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION O-O VxD GRAPH



ROAD-SECTION O-O
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

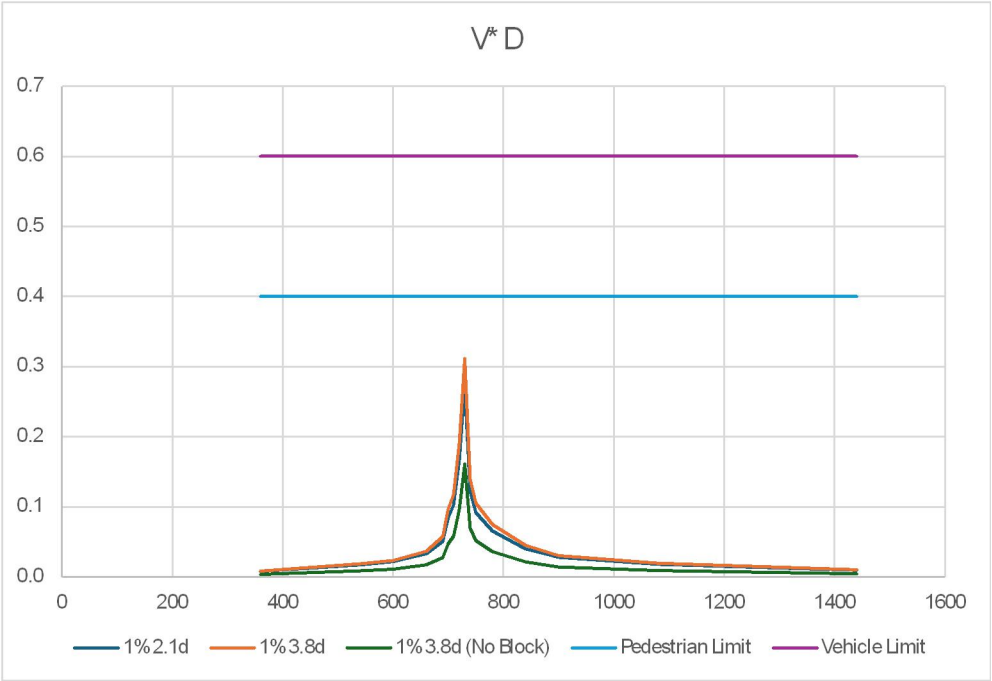
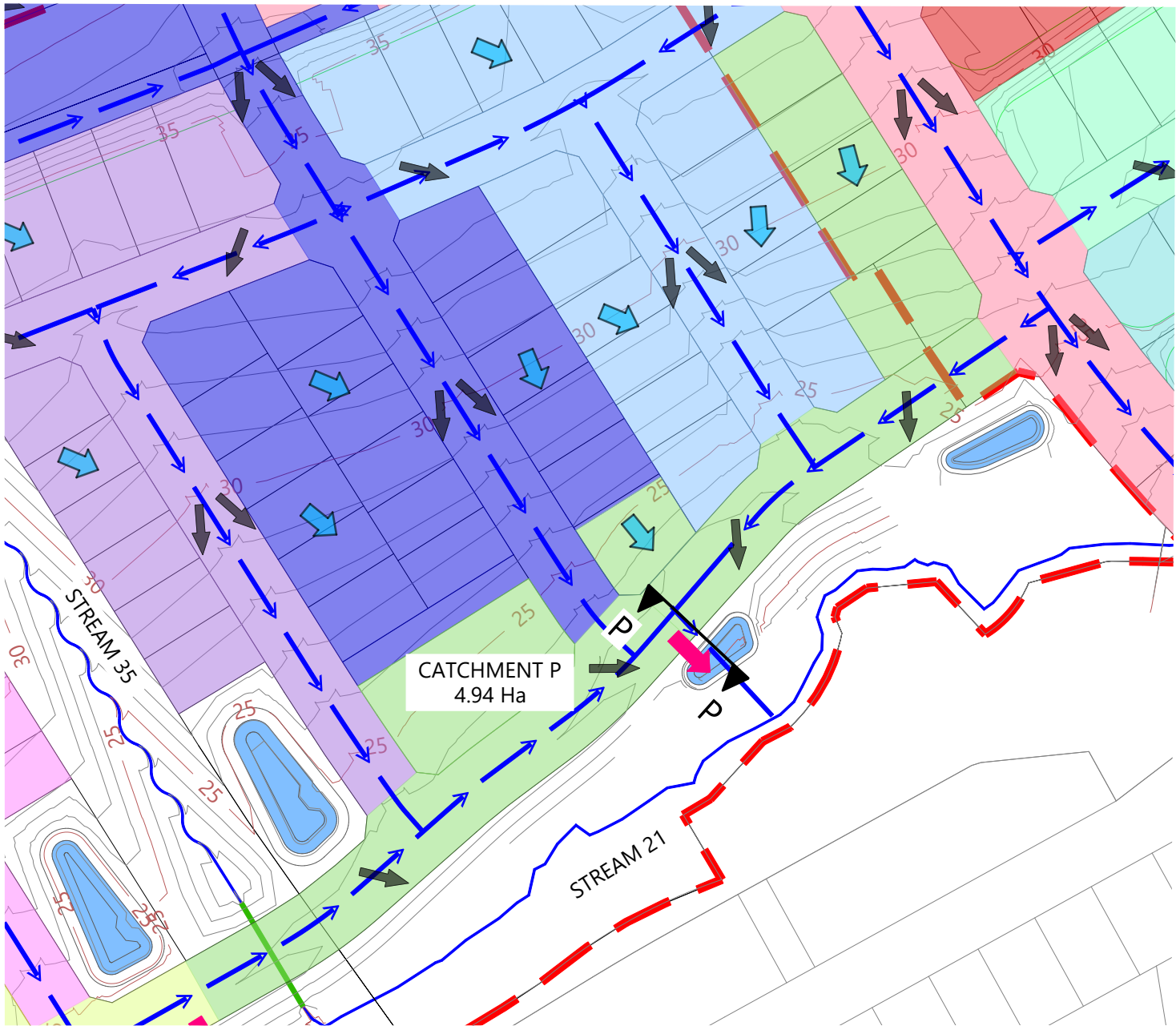
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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 13

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3033-DR	



ROAD-SECTION P-P VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

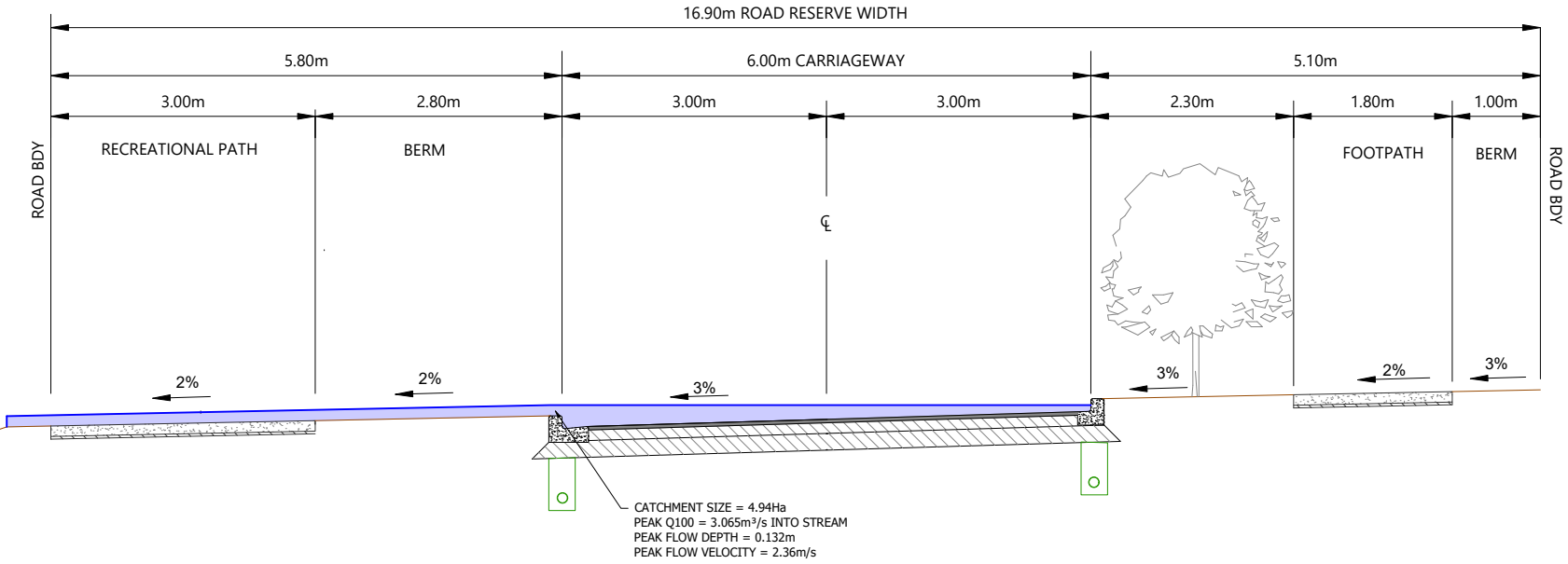
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SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 14

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3034-DR	

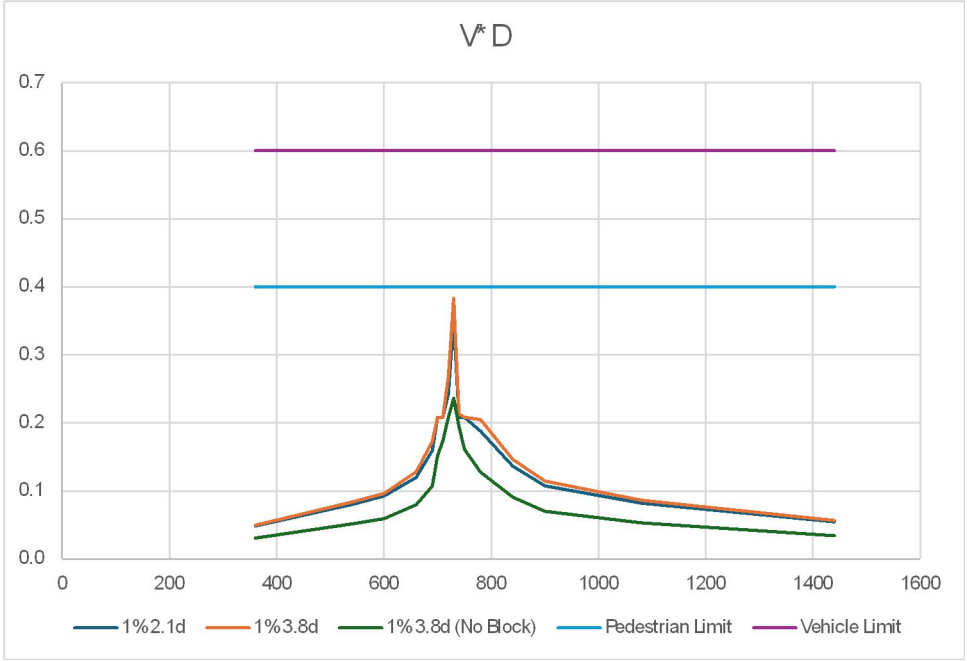


ROAD-SECTION P-P
Scale: 1:160@A1 - 1:80@A3

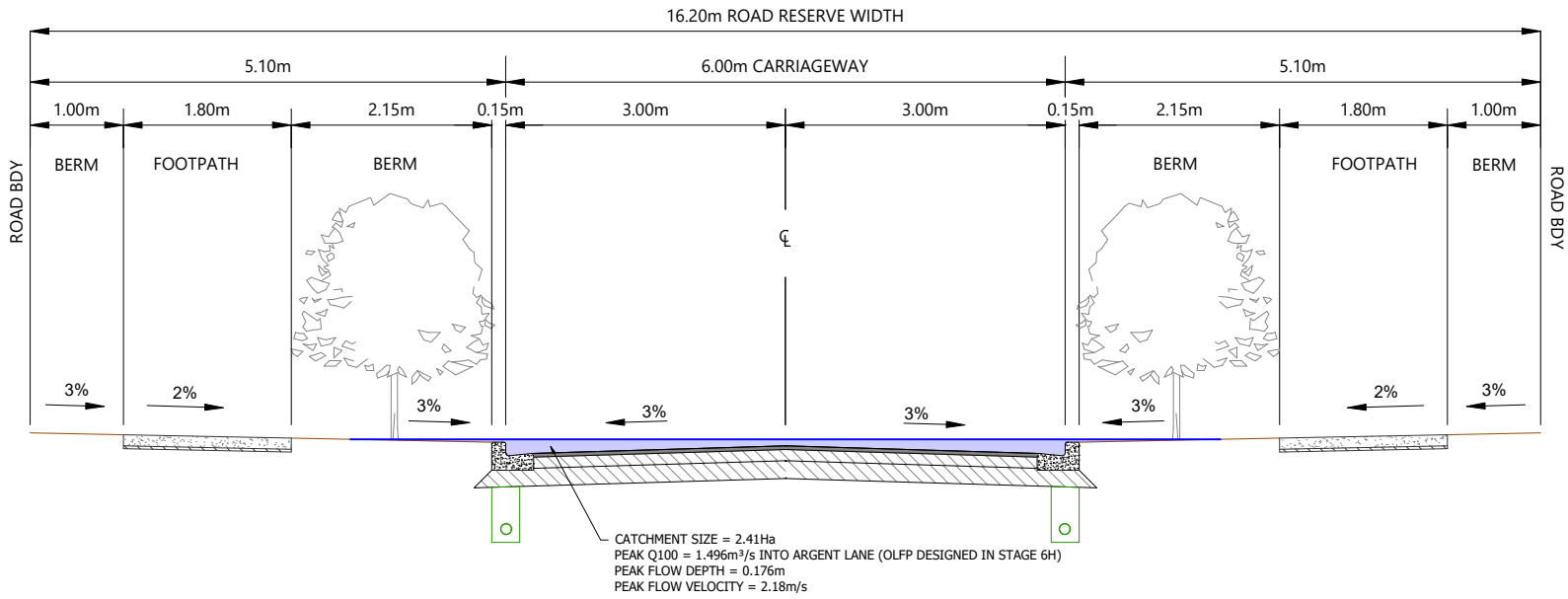
CATCHMENT SIZE = 4.94Ha
PEAK Q100 = 3.065m³/s INTO STREAM
PEAK FLOW DEPTH = 0.132m
PEAK FLOW VELOCITY = 2.36m/s



CATCHMENT R PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION R-R VxD GRAPH



ROAD-SECTION R-R
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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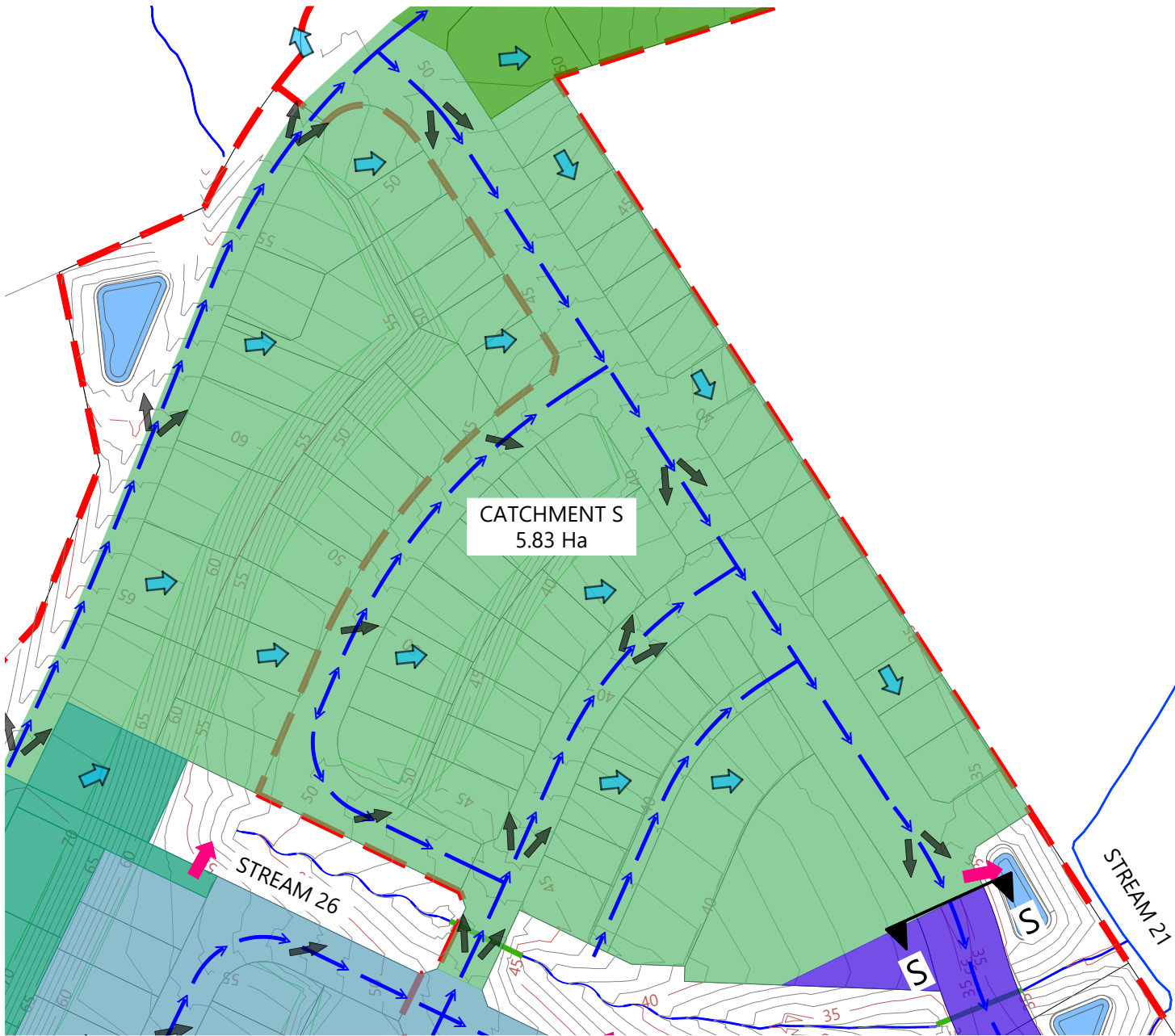
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

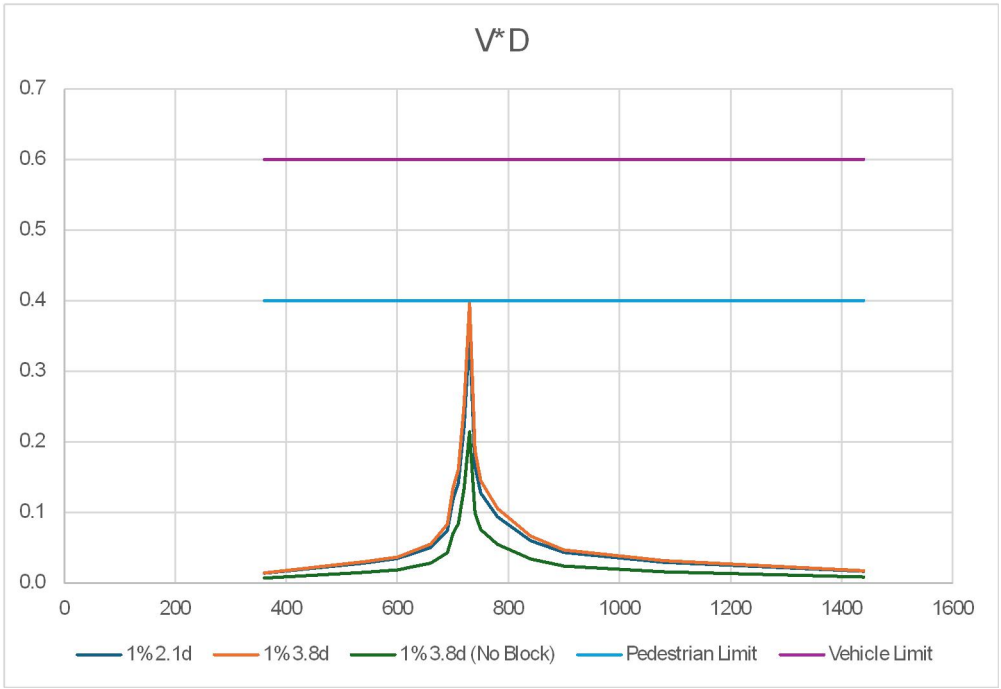
N	MILLDALE Connecting Lives & Land
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MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 15

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3035-DR	



CATCHMENT S PLAN
Scale: 1:4000@A1 - 1:2000@A3



ROAD-SECTION S-S VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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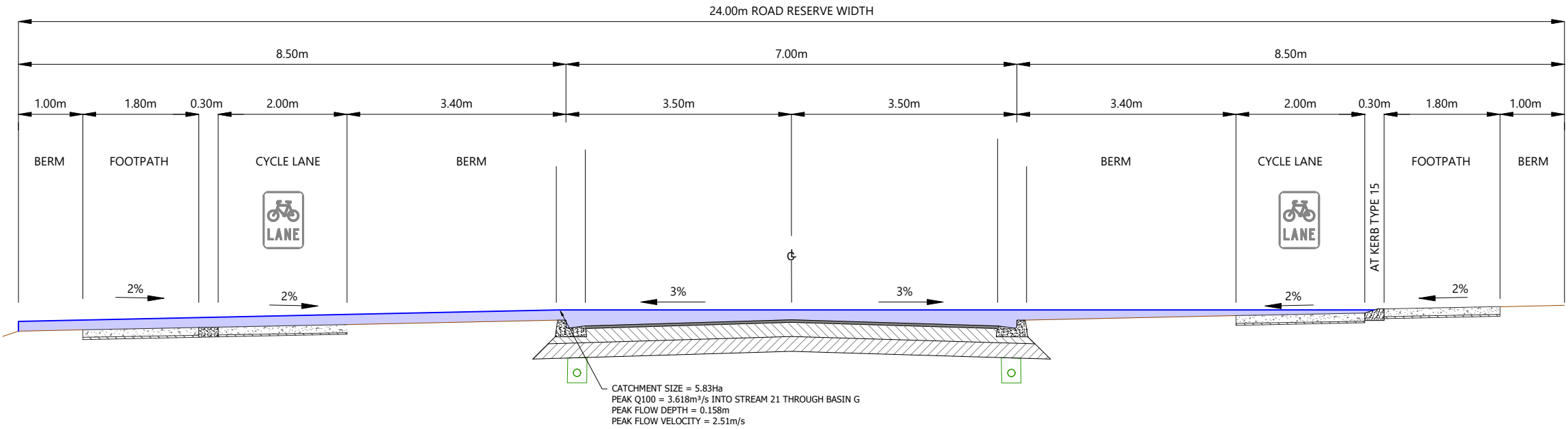
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

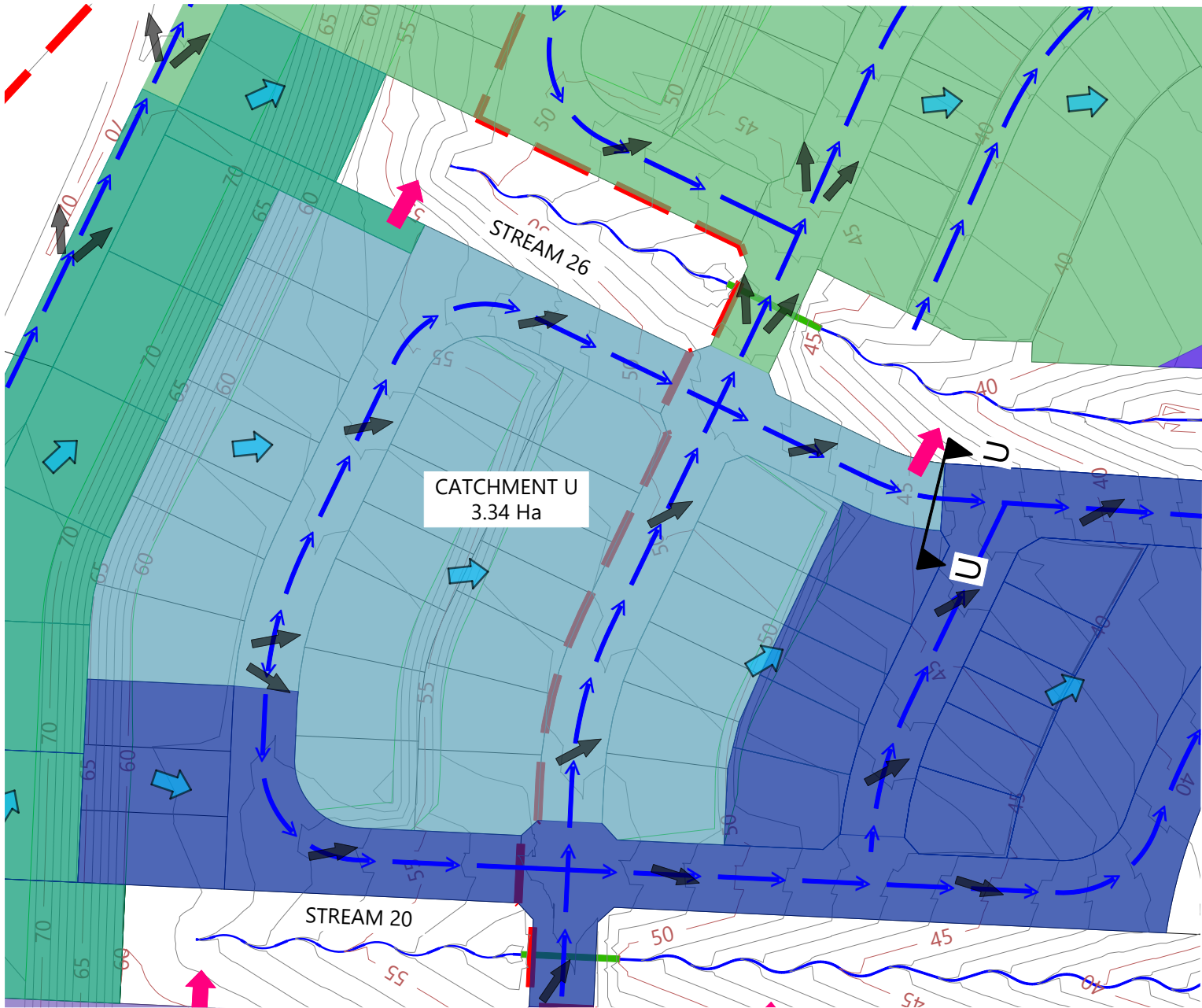
	Connecting Lives & Land	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 16

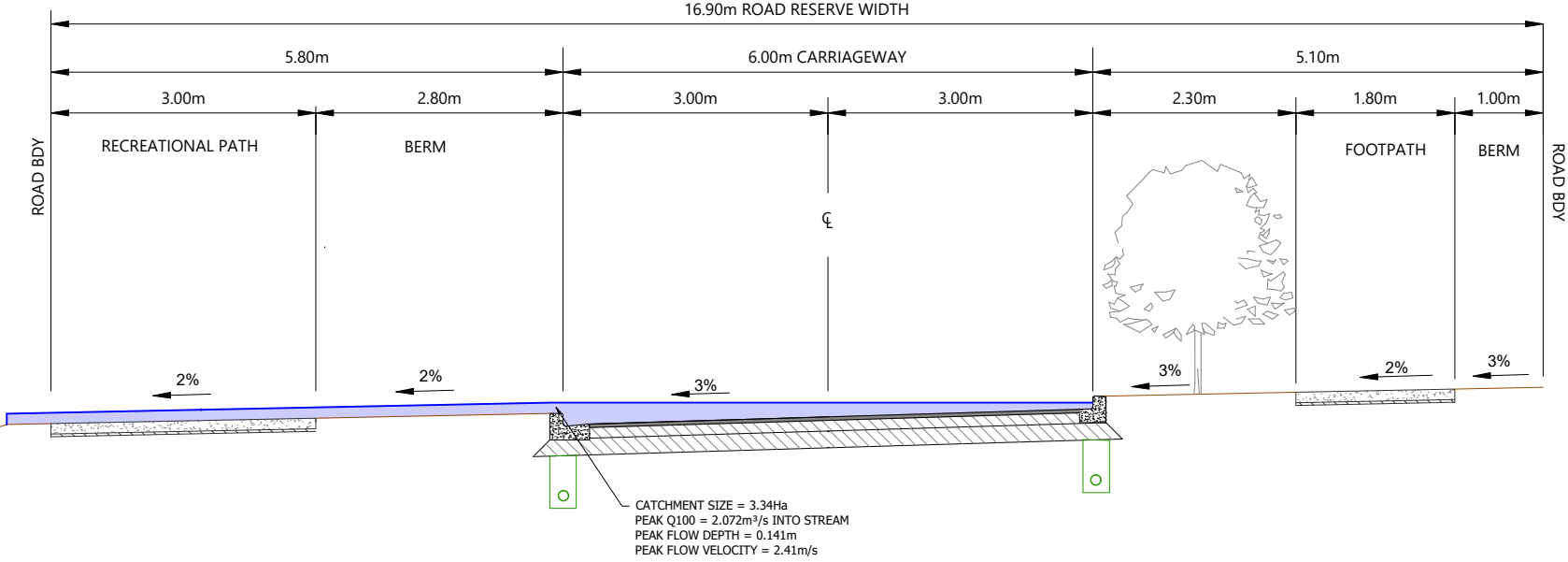
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SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3036-DR	



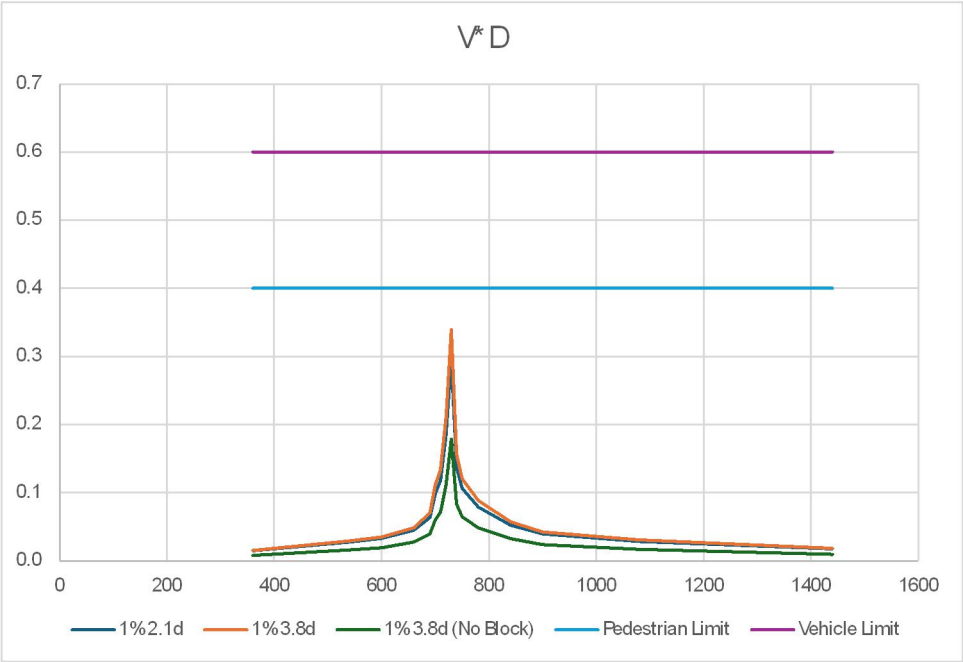
ROAD-SECTION S-S
Scale: 1:160@A1 - 1:80@A3



CATCHMENT U PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION U-U
Scale: 1:160@A1 - 1:80@A3



ROAD-SECTION U-U VxD GRAPH

LEGEND

EXTENTS OF FAST TRACK APPLICATION

BOUNDARIES

WATERCOURSE (SUBJECT TO ECOLOGY)

DESIGN CONTOURS (1m INTERVAL)

LOT OVERLAND FLOW

ROAD OVERLAND FLOW

ROAD CROSS FALL FLOW

OVERLAND FLOW SPILL POINT

100 YEAR FLOOD EXTENTS

PROPOSED STORMWATER DRY BASIN

- NOTES
1. STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

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2	ISSUED FOR CONSENT	MW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

N

MILLDALE

Connecting Lifelines

MILLDALE

FAST TRACK

STAGES 10 - 13

STORMWATER 100 YEAR

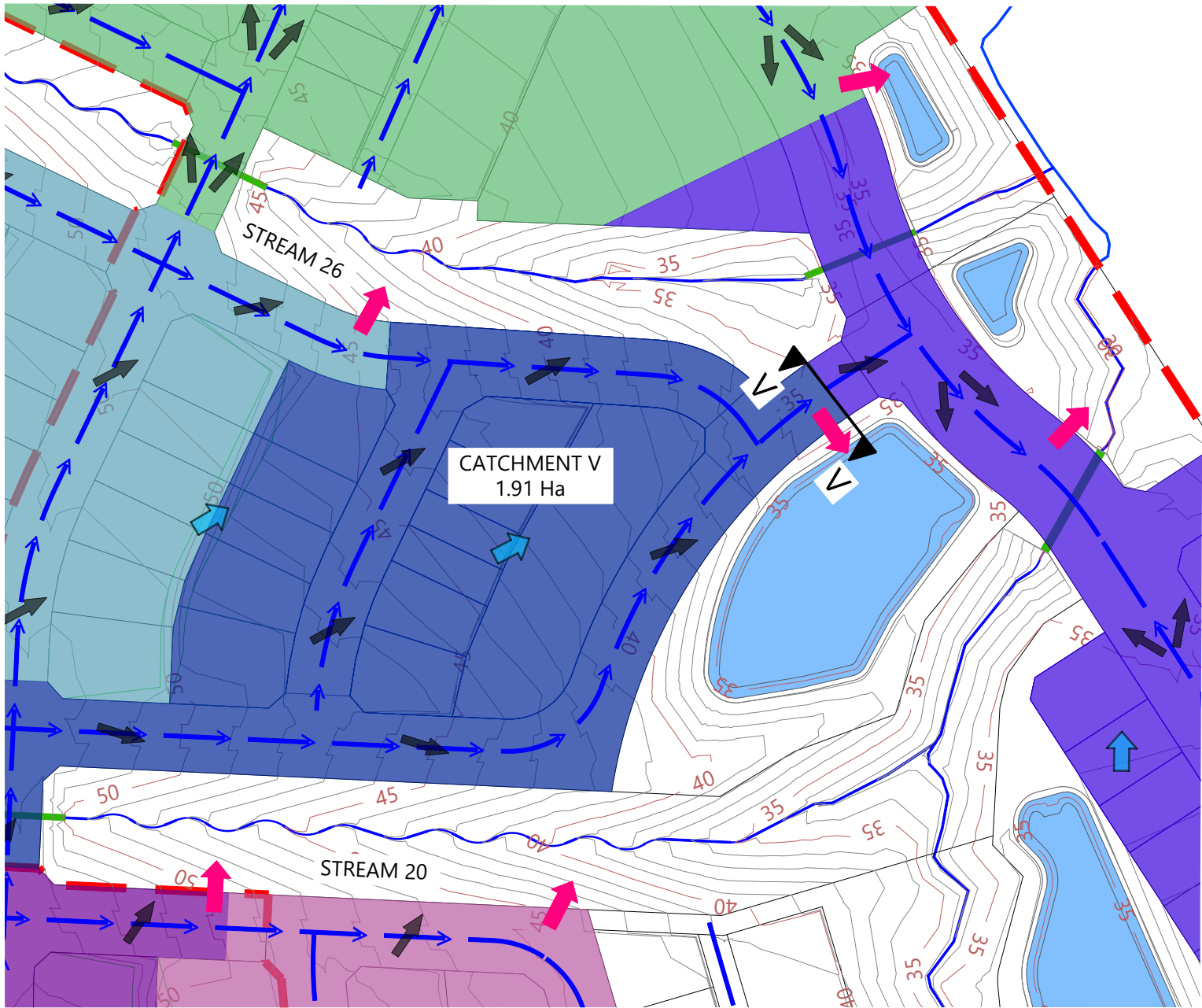
OVERLAND FLOW PATH

CATCHMENTS LAYOUT PLAN

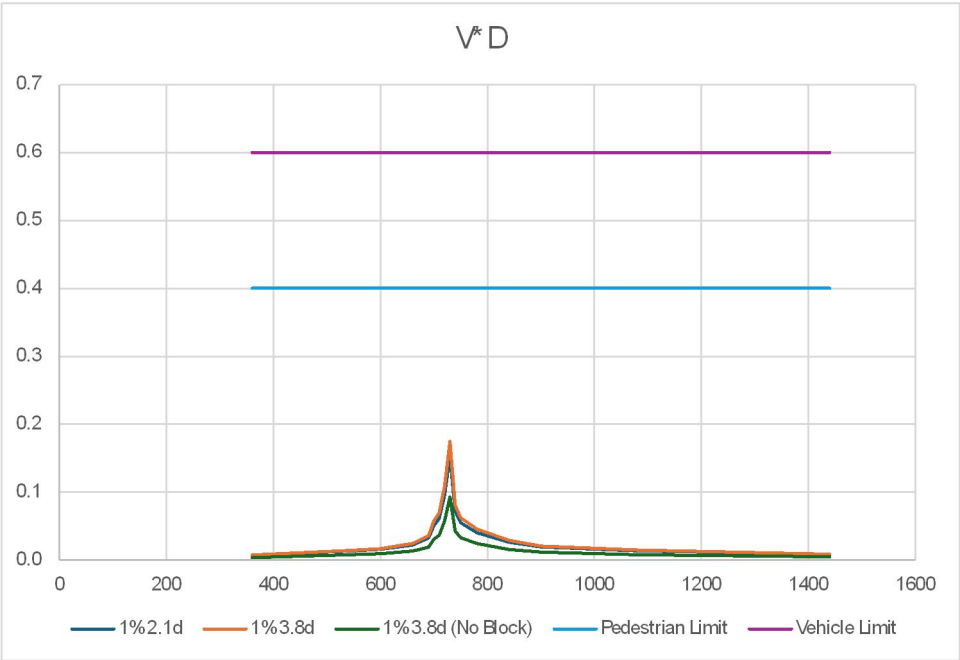
SHEET 17

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3037-DR	

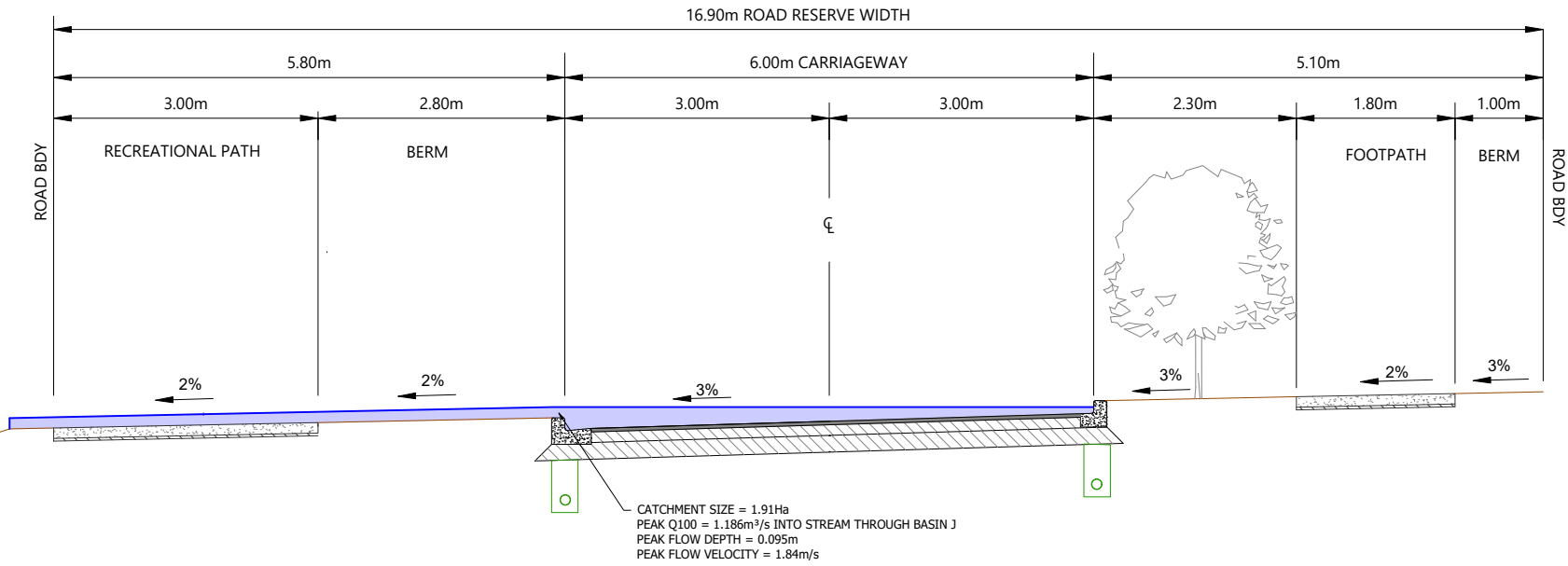




CATCHMENT V PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION V-V VxD GRAPH



ROAD-SECTION V-V
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

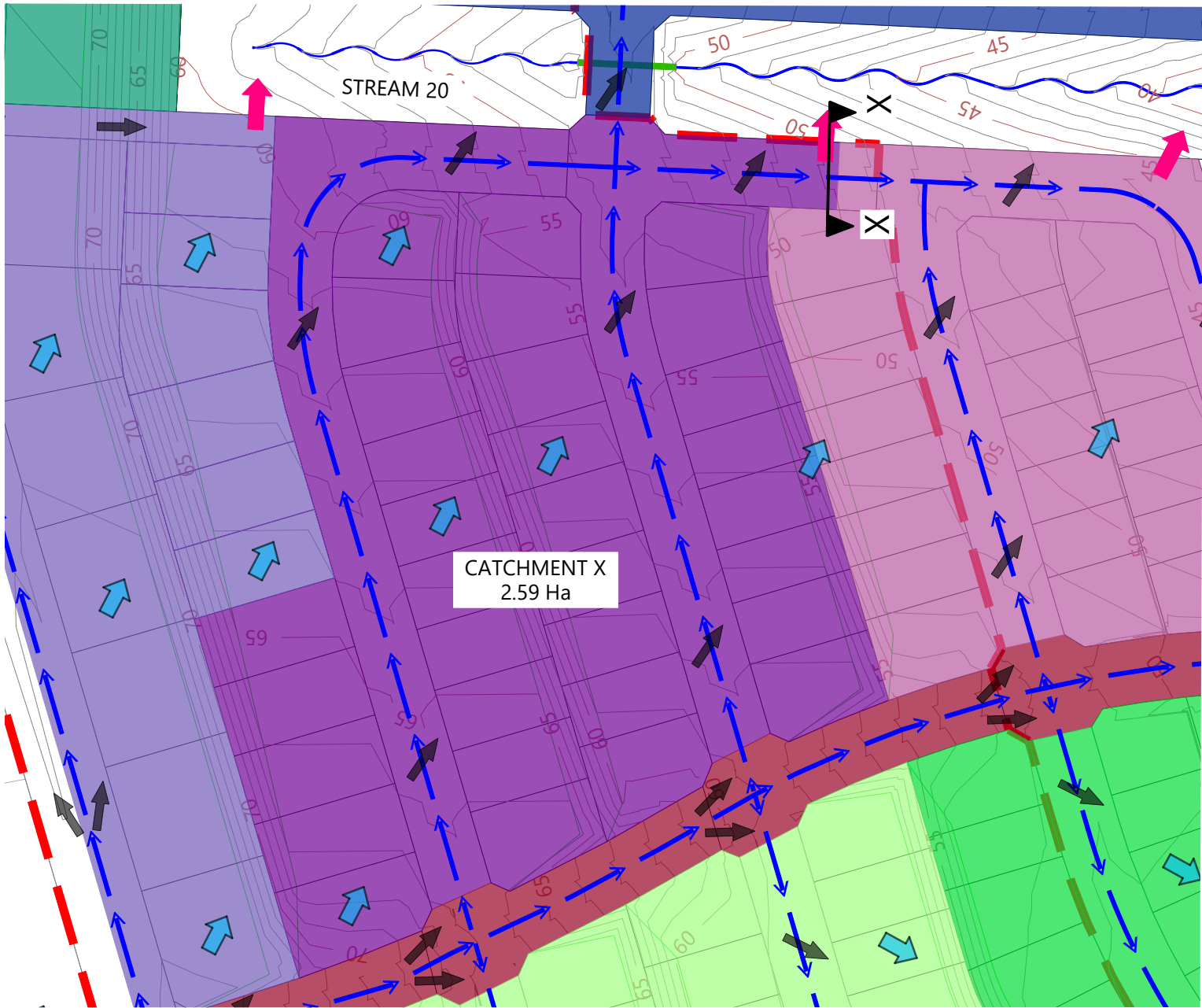
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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
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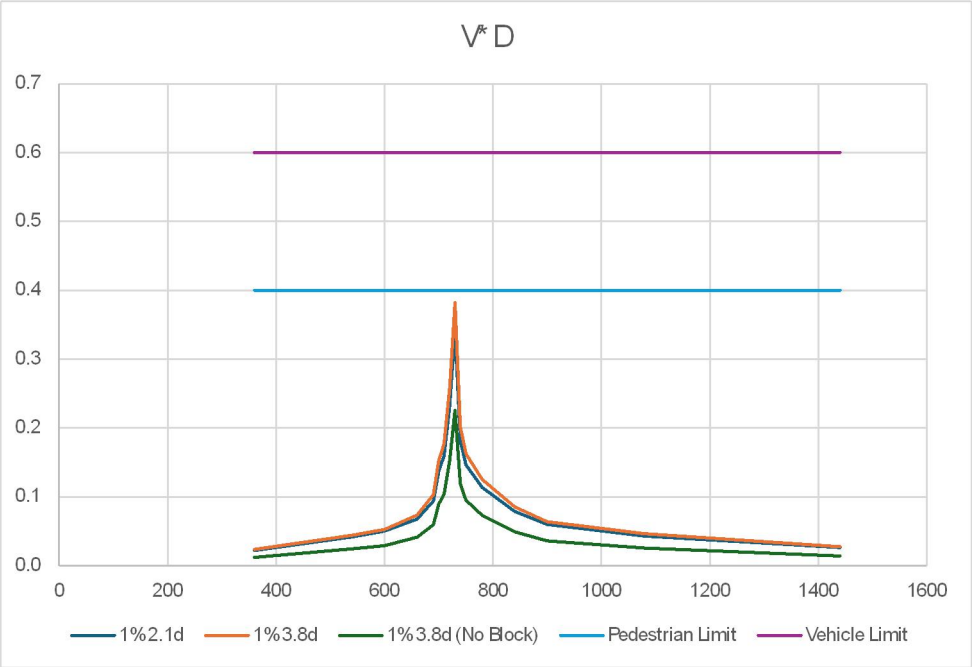
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 18

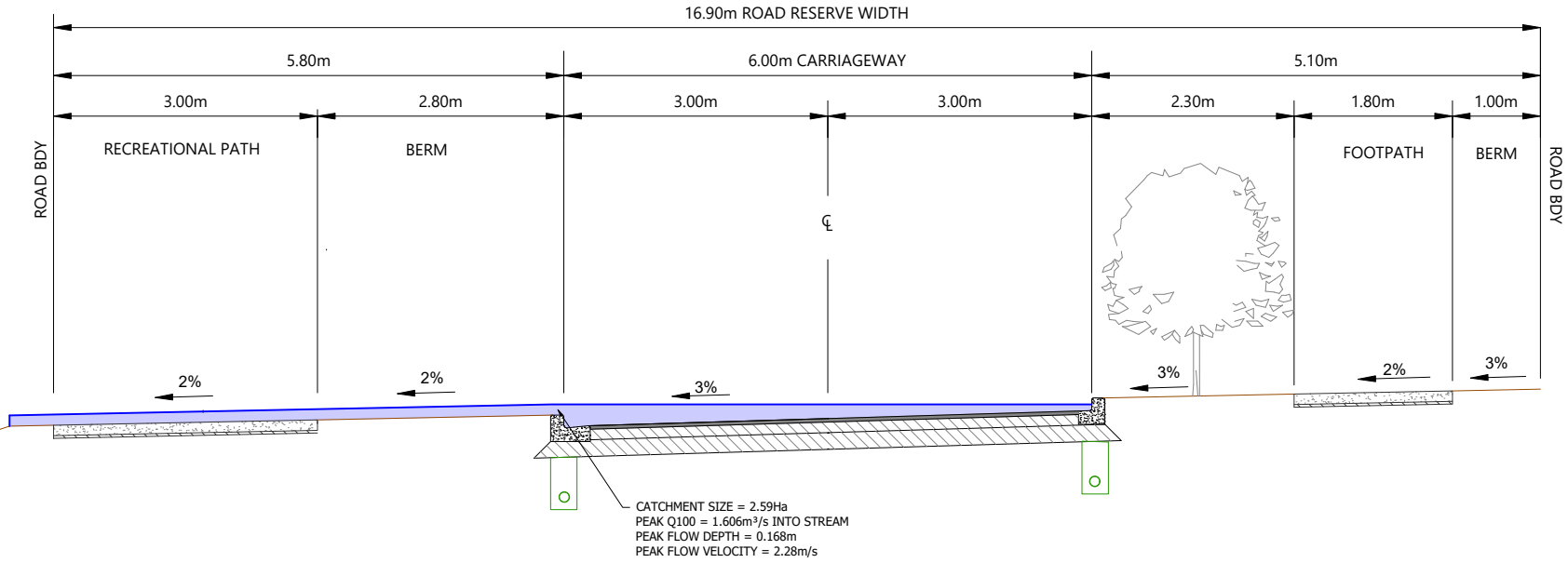
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SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3038-DR	



CATCHMENT X PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION X-X V_xD GRAPH



ROAD-SECTION X-X
Scale: 1:160@A1 - 1:80@A3



- LEGEND**
- EXTENTS OF FAST TRACK APPLICATION
 - BOUNDARIES
 - WATERCOURSE (SUBJECT TO ECOLOGY)
 - DESIGN CONTOURS (1m INTERVAL)
 - LOT OVERLAND FLOW
 - ROAD OVERLAND FLOW
 - ROAD CROSS FALL FLOW
 - OVERLAND FLOW SPILL POINT
 - 100 YEAR FLOOD EXTENTS
 - PROPOSED STORMWATER DRY BASIN

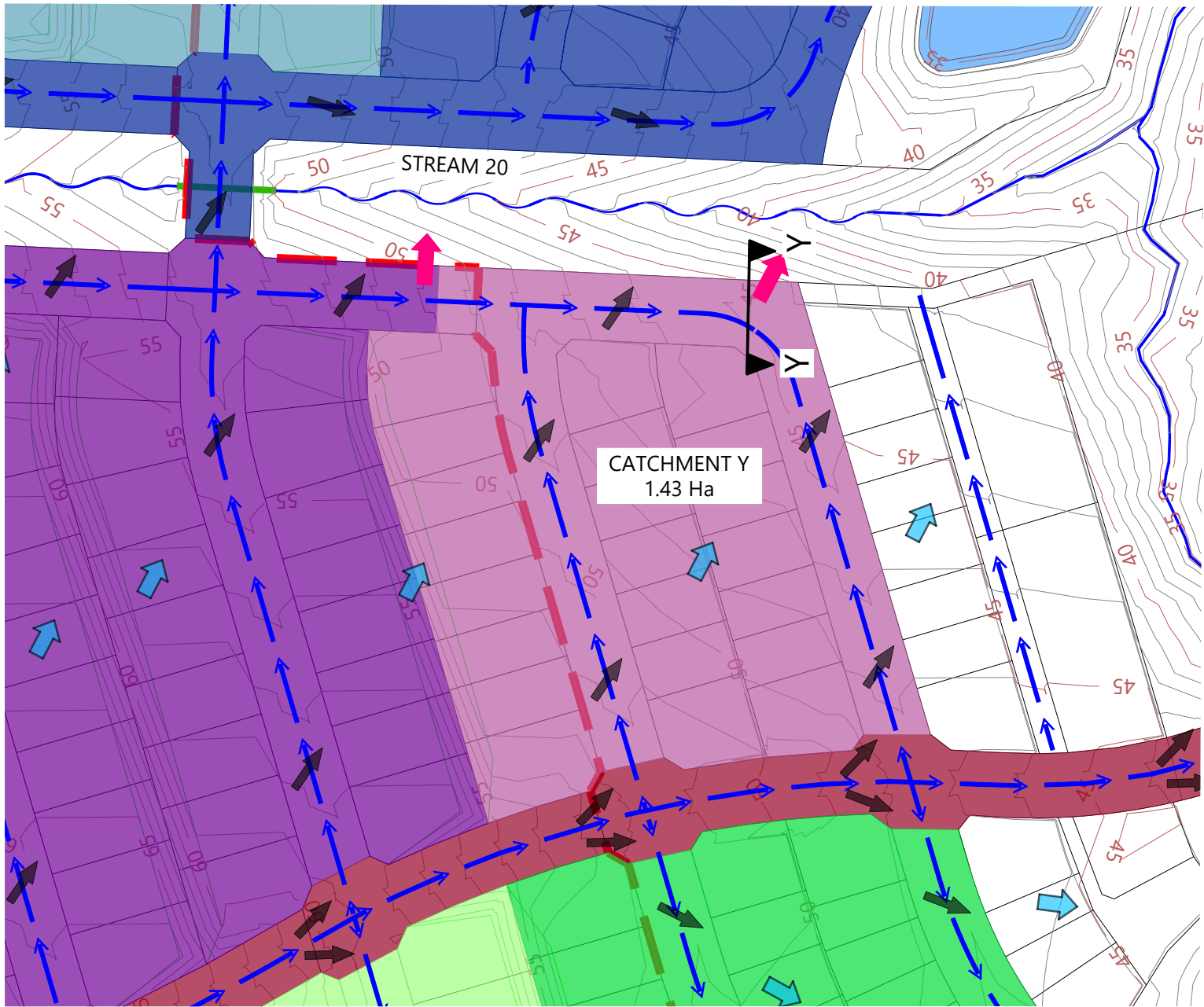
- NOTES**
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REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	JW	FEB 2025
2 ISSUED FOR CONSENT	MW	JUL 2025

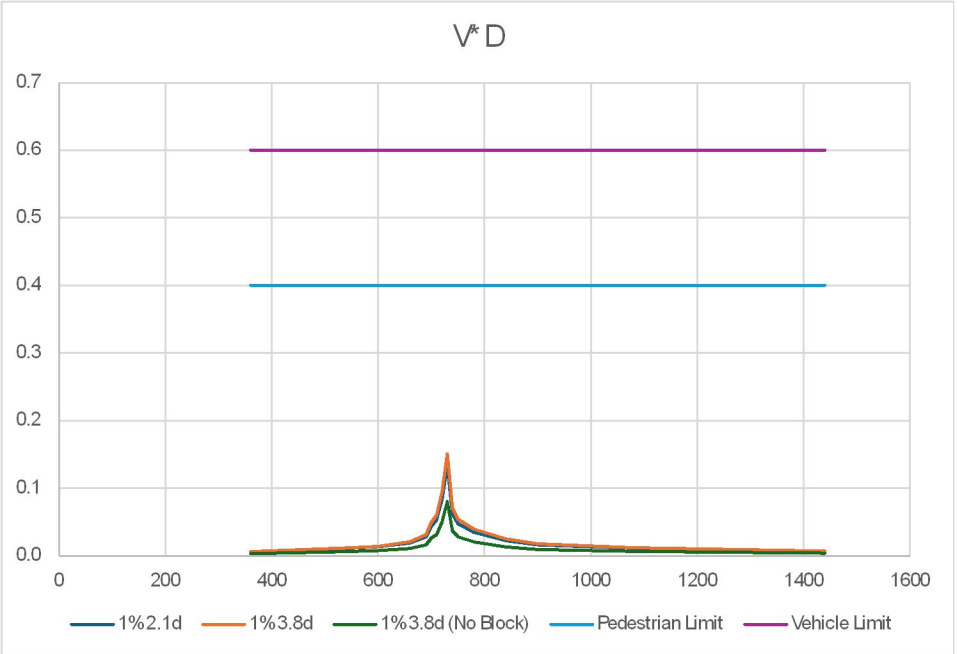
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 19

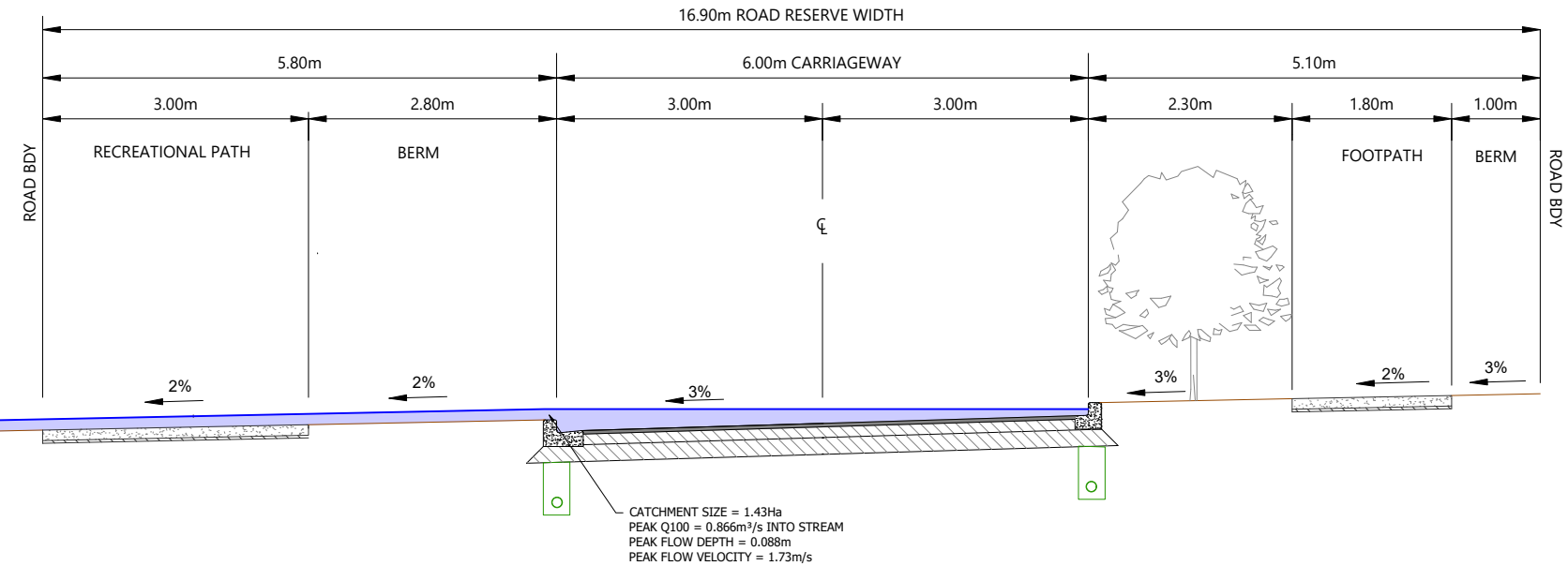
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3039-DR	



CATCHMENT Y PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION Y-Y VxD GRAPH



ROAD-SECTION Y-Y
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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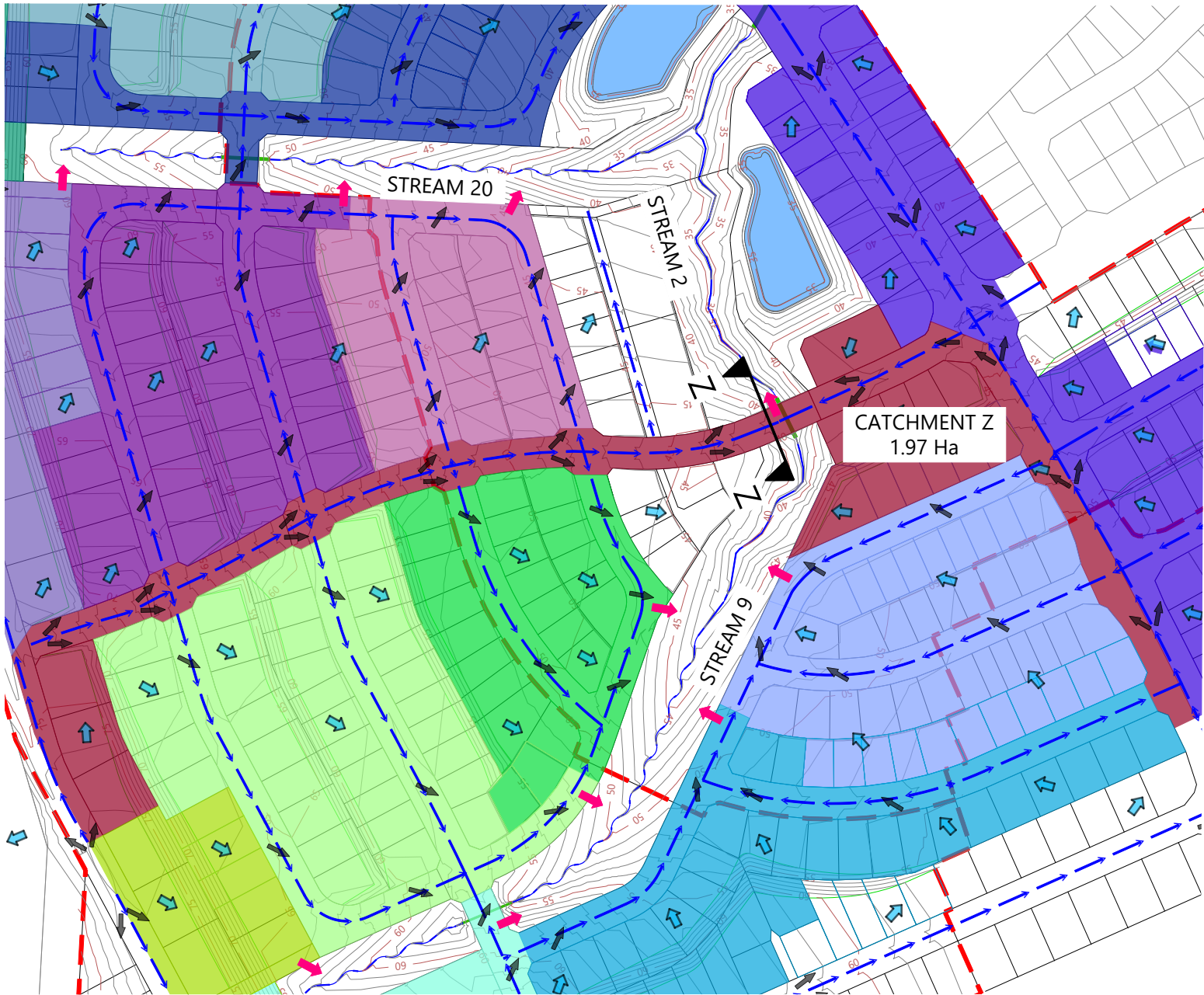
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

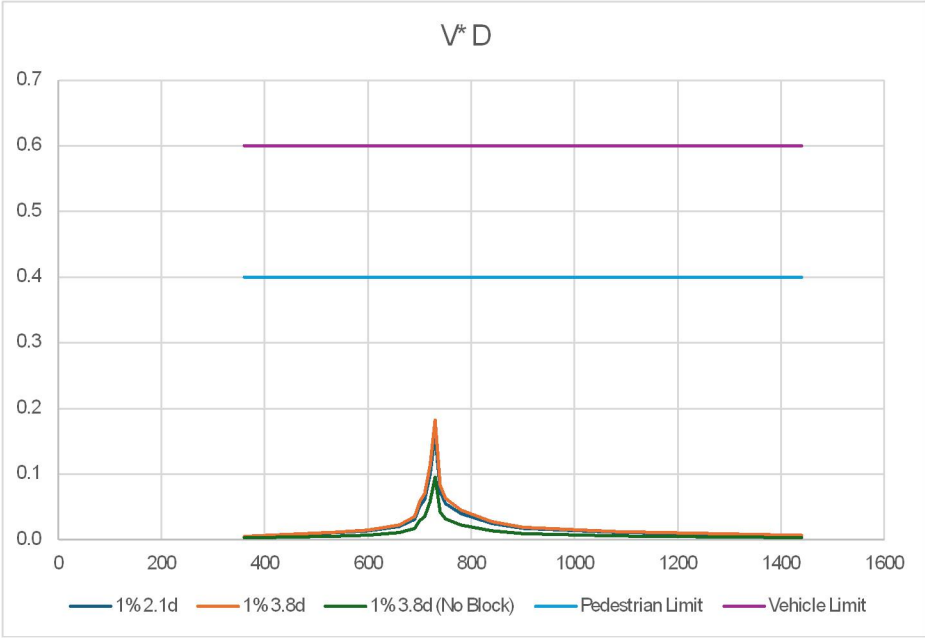
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MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 20

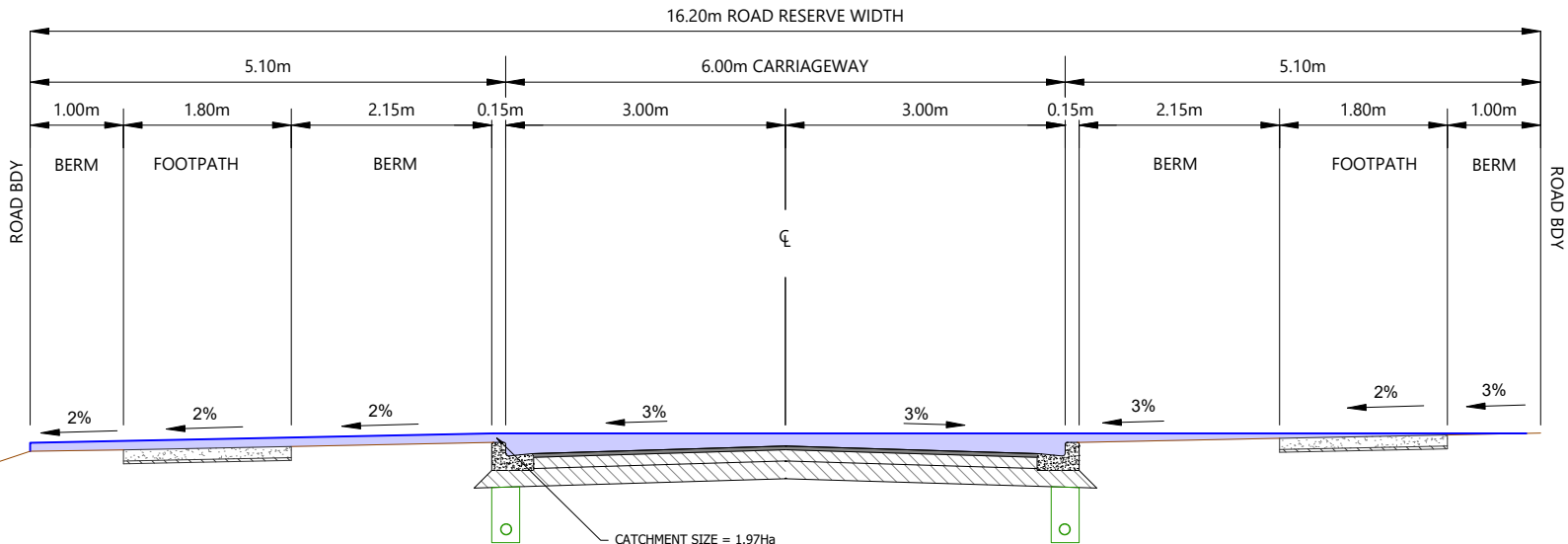
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3040-DR	



CATCHMENT Z PLAN
Scale: 1:1000@A1 - 1:500@A3



ROAD-SECTION Z-Z VxD GRAPH



CATCHMENT SIZE = 1.97Ha
PEAK Q100 = 1.221m³/s INTO STREAM
PEAK FLOW DEPTH = 0.097m
PEAK FLOW VELOCITY = 1.89m/s

ROAD-SECTION Z-Z
Scale: 1:160@A1 - 1:80@A3

LEGEND

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- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

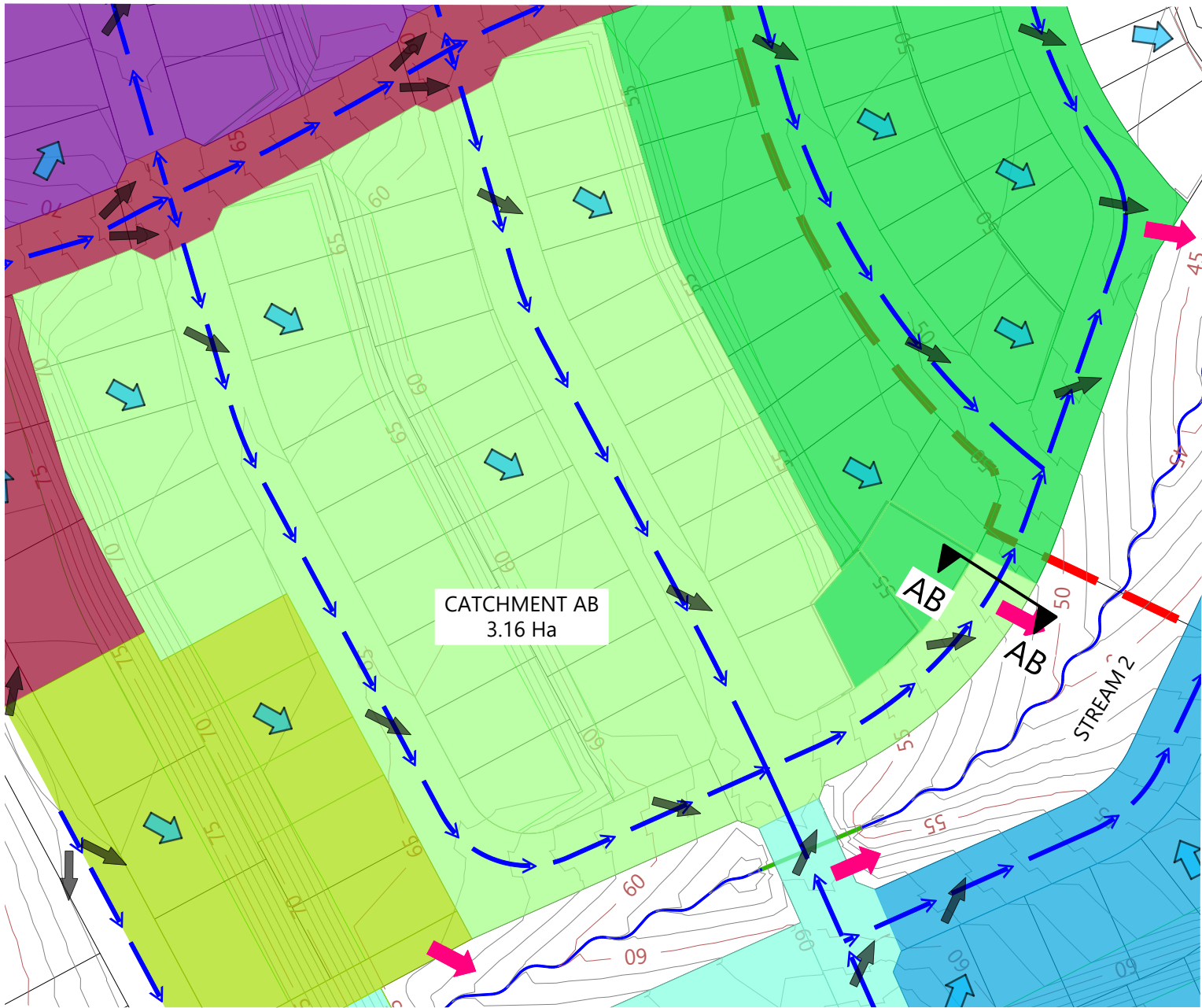
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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

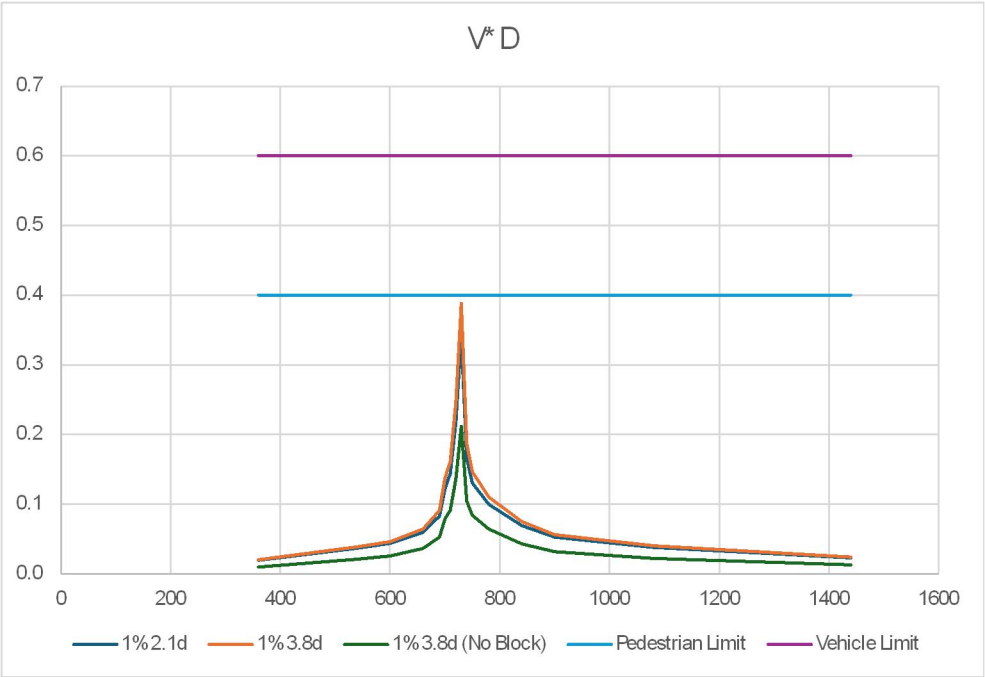
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 21

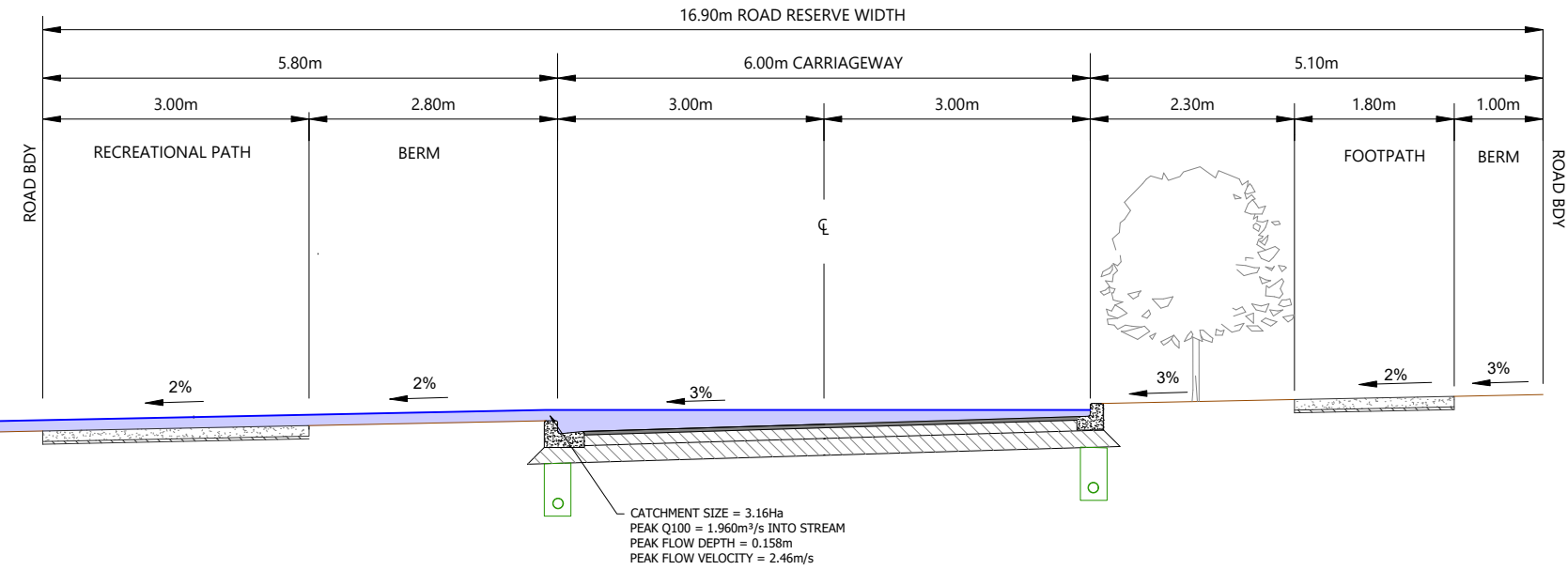
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3041-DR	



CATCHMENT AB PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION AB-AB VxD GRAPH



ROAD-SECTION AB-AB
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

- STORMWATER & OVERLAND FLOWPATH DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.
- CATCHMENT FLOWS BASED ON C=0.8 FOR DEVELOPED AREAS & ROADS. RAINFALL INTENSITY 290mm (Q100) (INCLUDING CLIMATE CHANGE).
- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

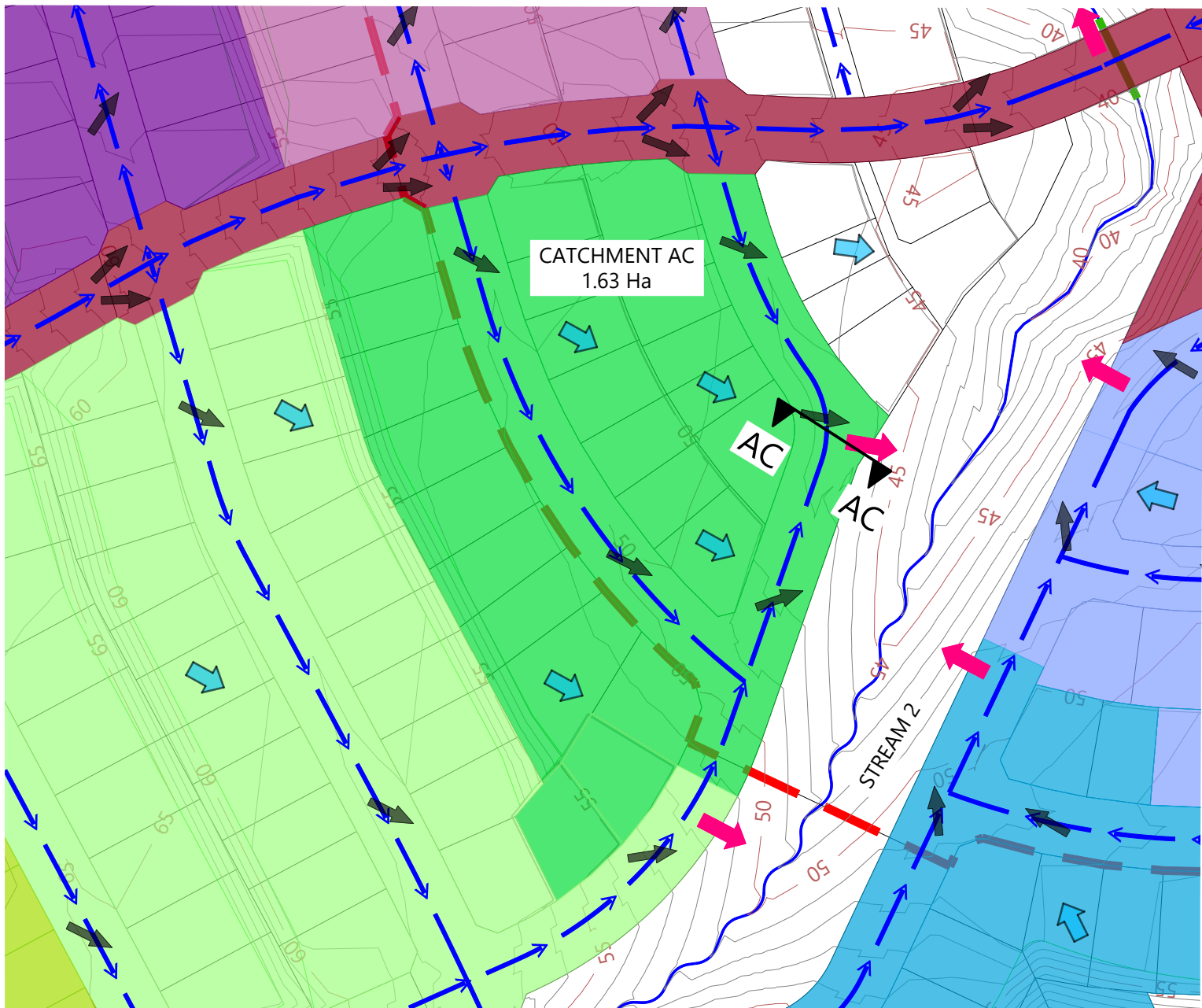
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

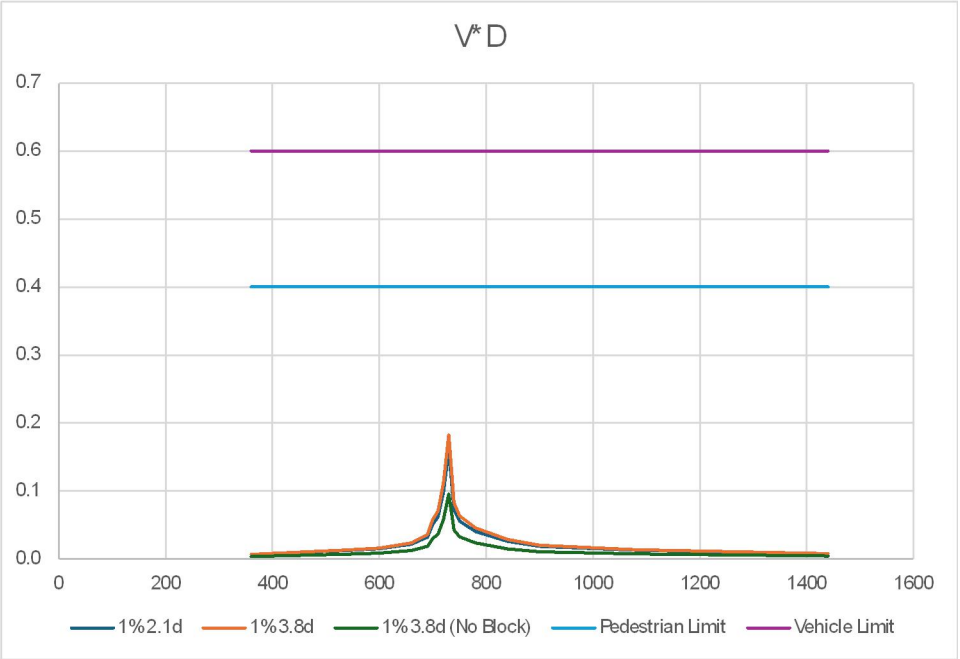
Connecting Lifelines

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 22

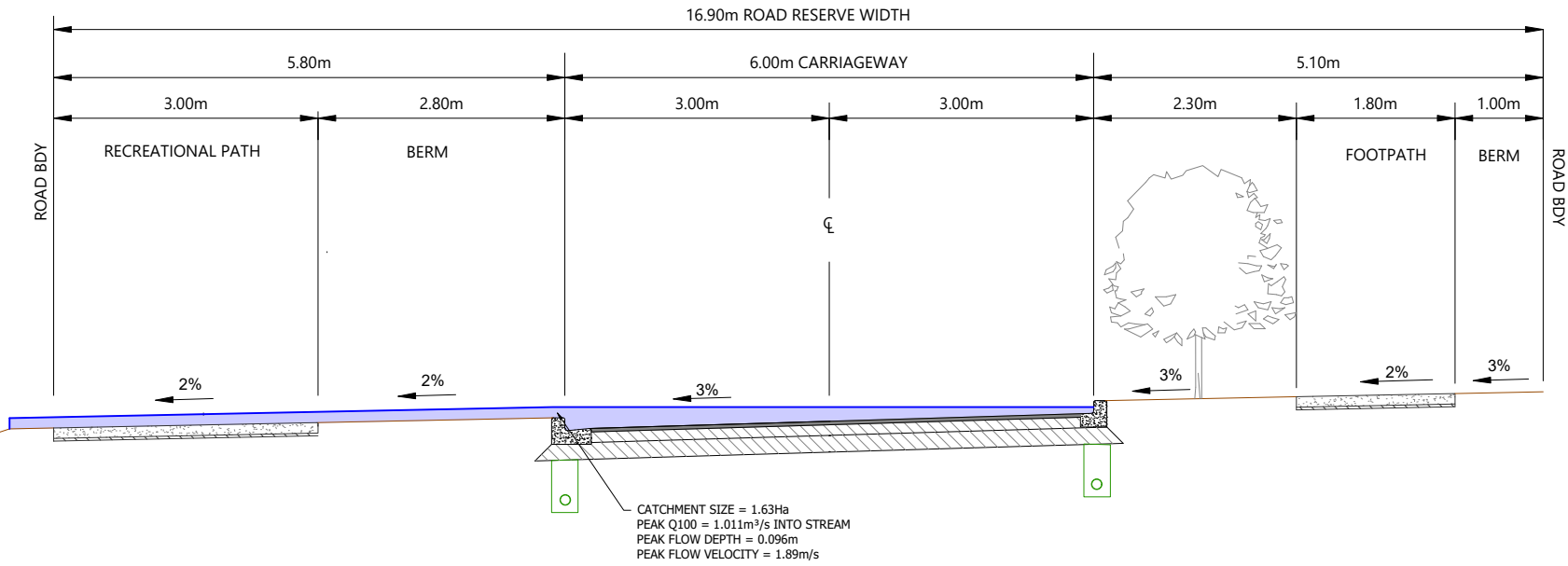
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3042-DR	



CATCHMENT AC PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION AC-AC VxD GRAPH



ROAD-SECTION AC-AC
Scale: 1:160@A1 - 1:80@A3

CATCHMENT SIZE = 1.63Ha
PEAK Q100 = 1.011m³/s INTO STREAM
PEAK FLOW DEPTH = 0.096m
PEAK FLOW VELOCITY = 1.89m/s



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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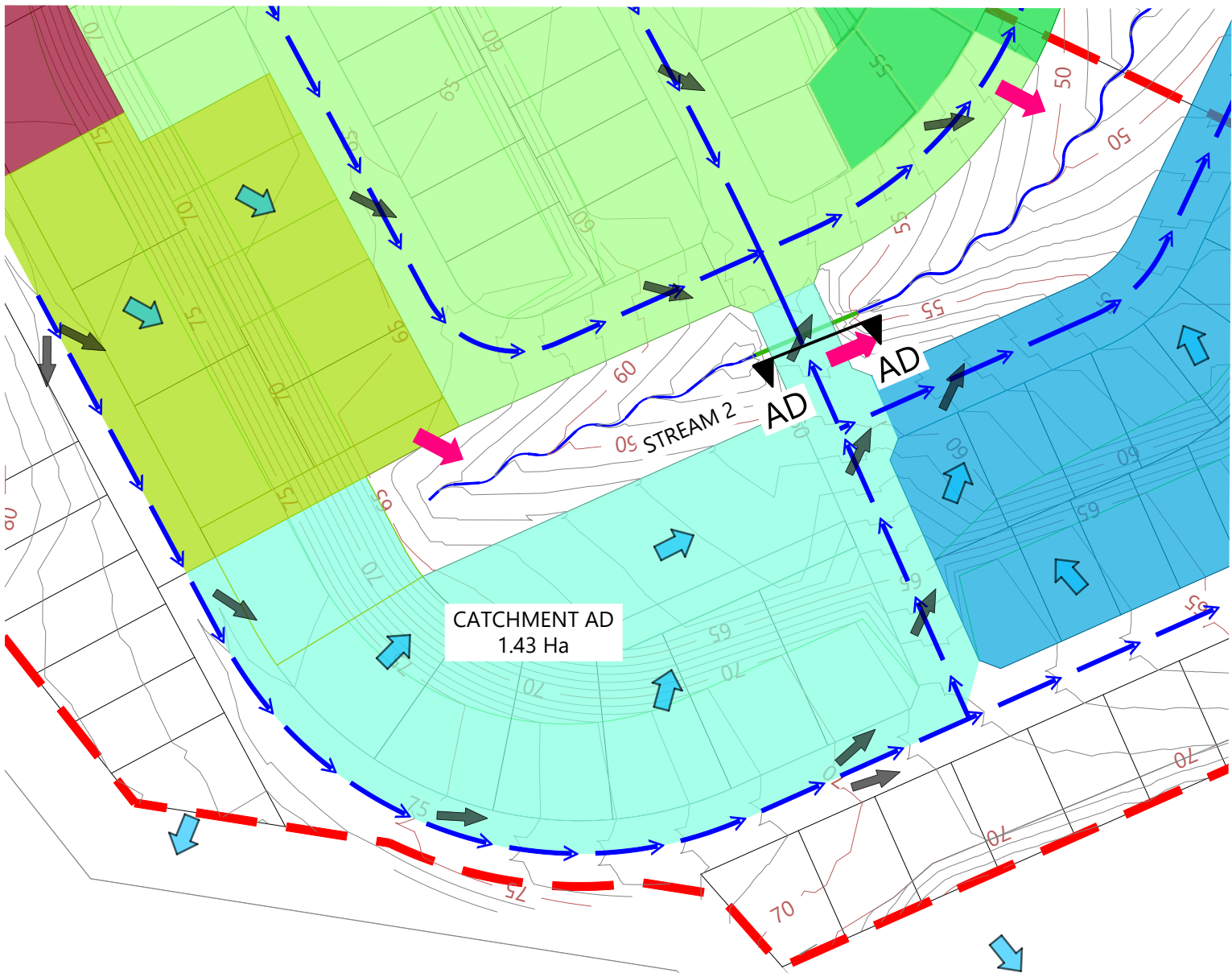
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

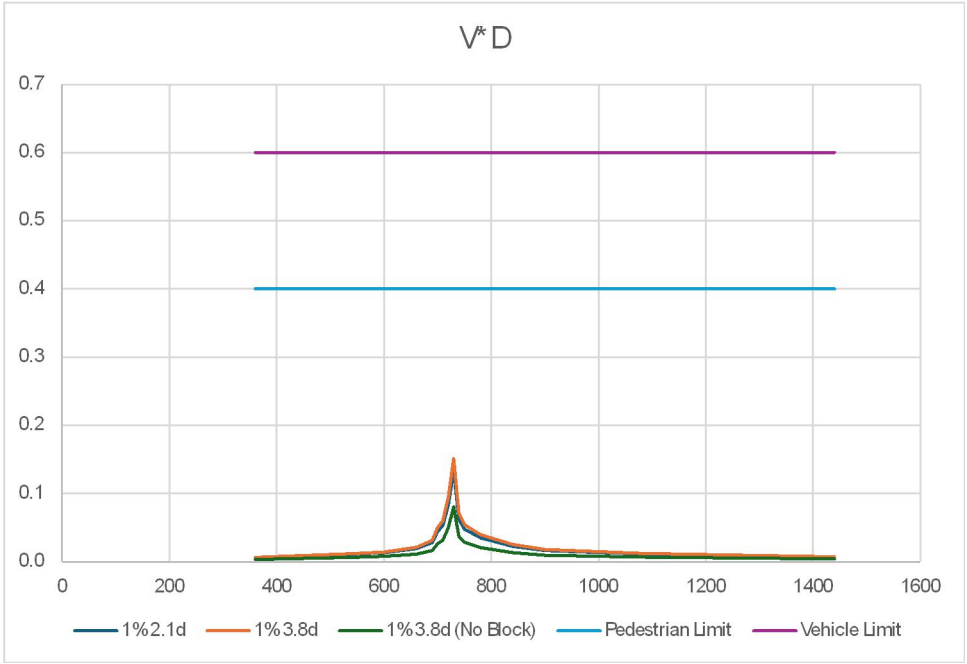


MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 23

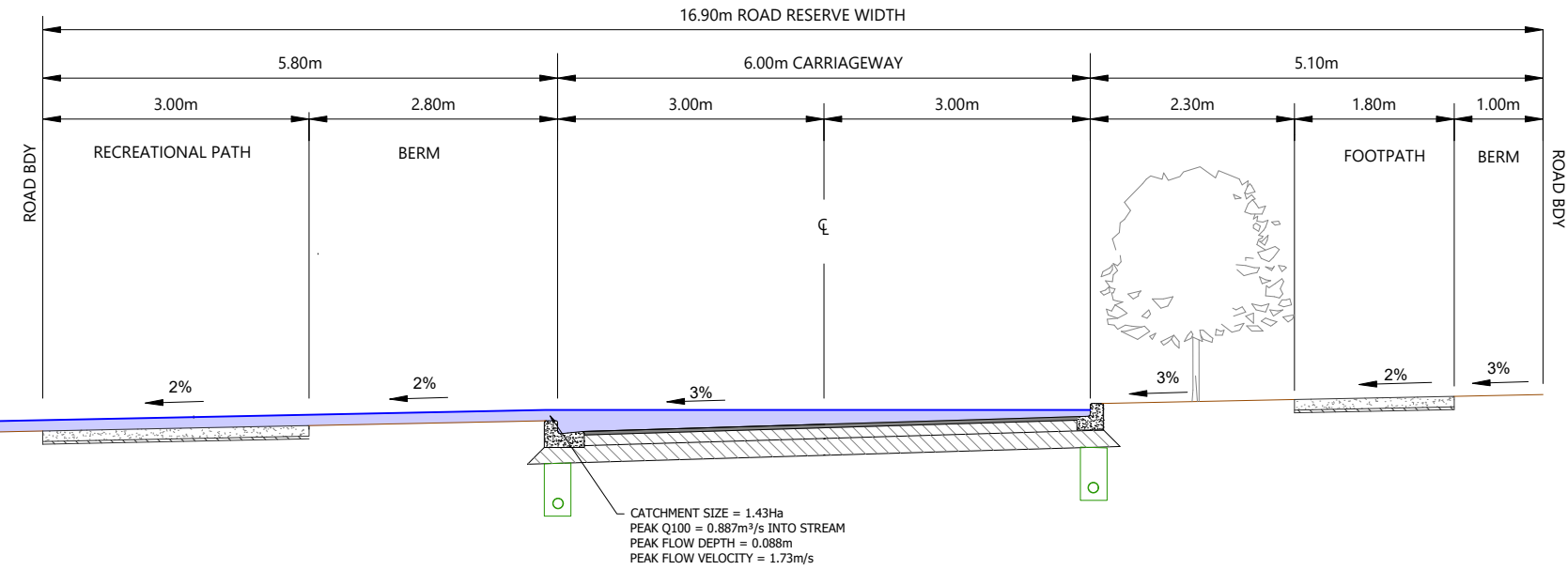
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3043-DR	



CATCHMENT AD PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION AD-AD VxD GRAPH



ROAD-SECTION AD-AD
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

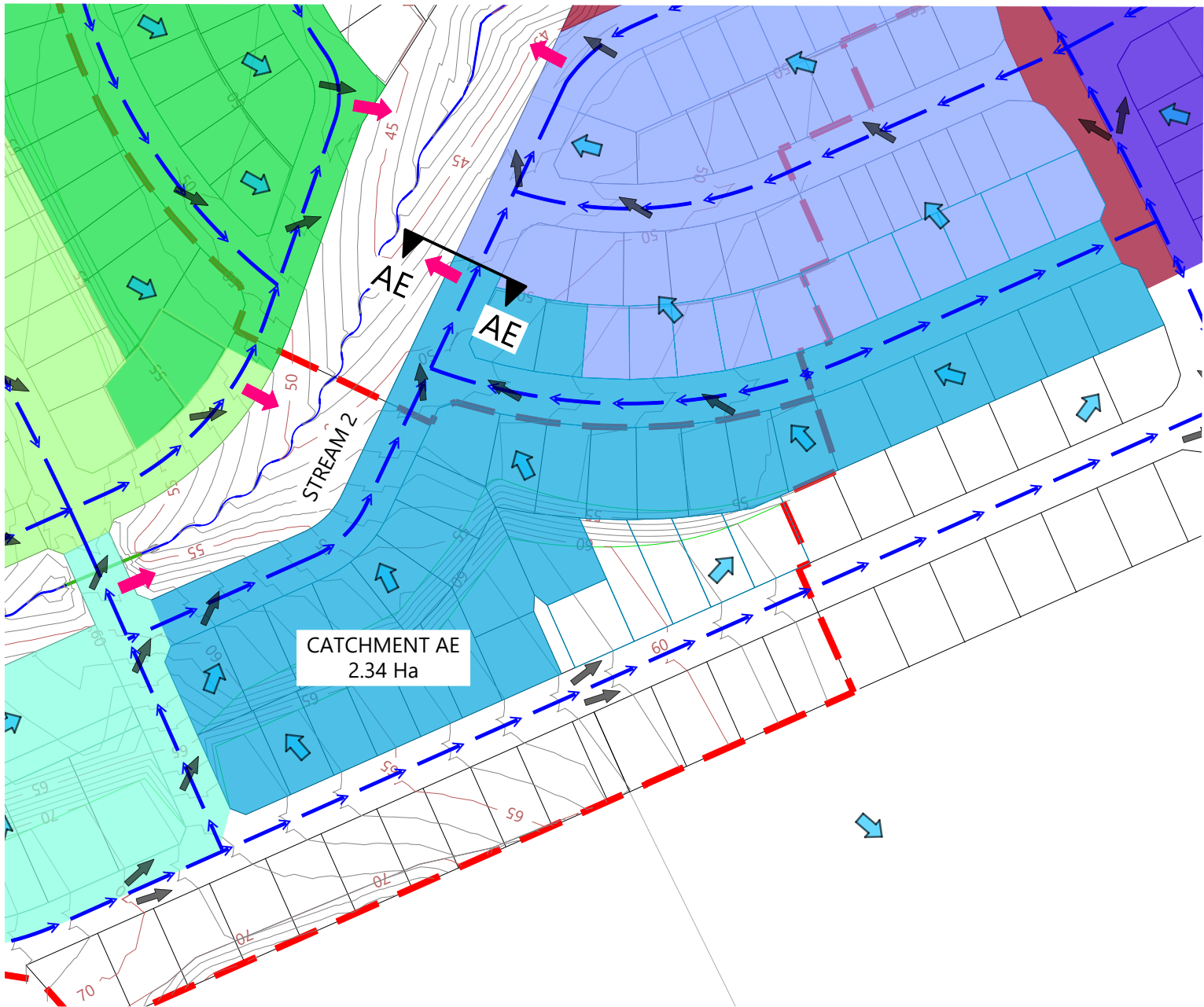
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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

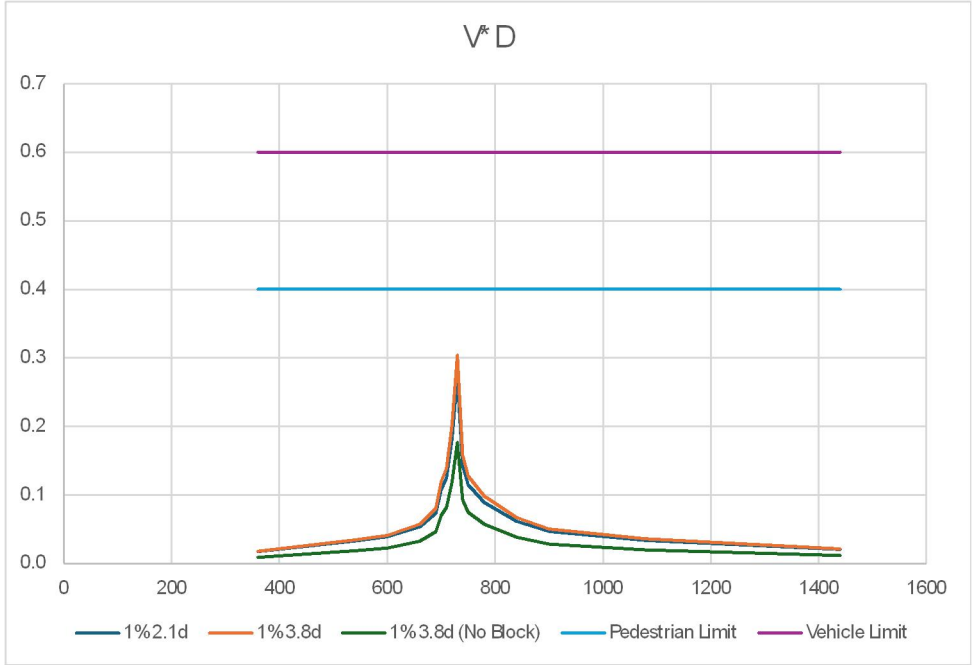
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 24

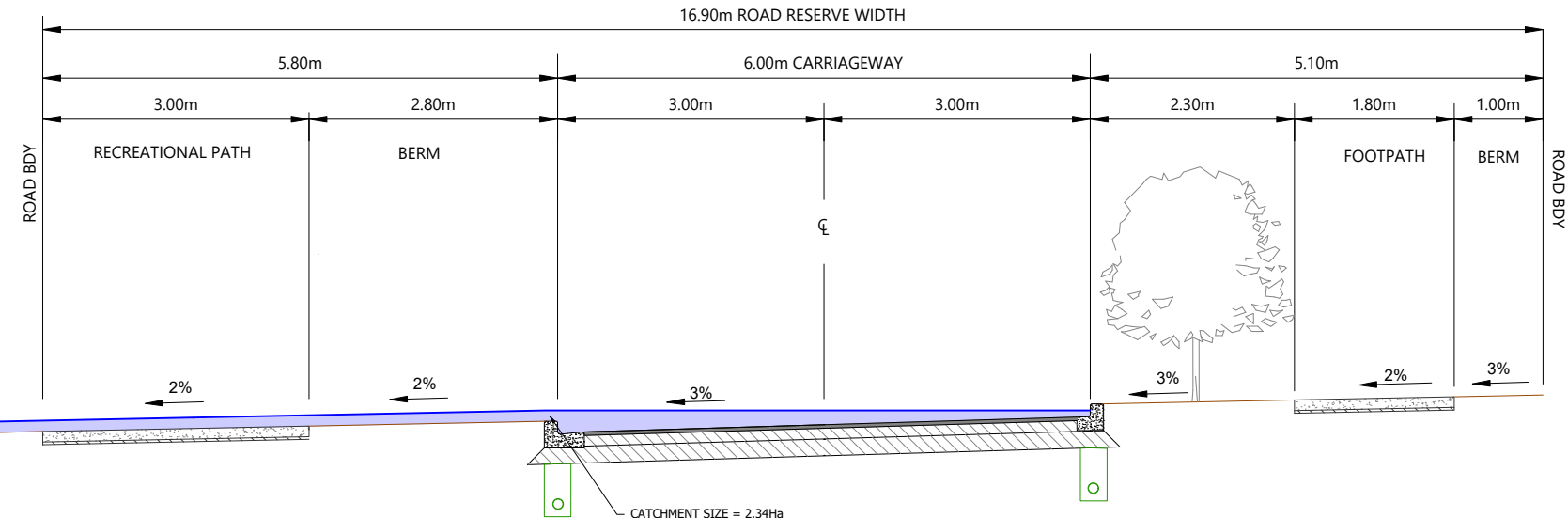
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3044-DR	



CATCHMENT AE PLAN
Scale: 1:2000@A1 - 1:1000@A3



ROAD-SECTION AE-AE VxD GRAPH



ROAD-SECTION AE-AE
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

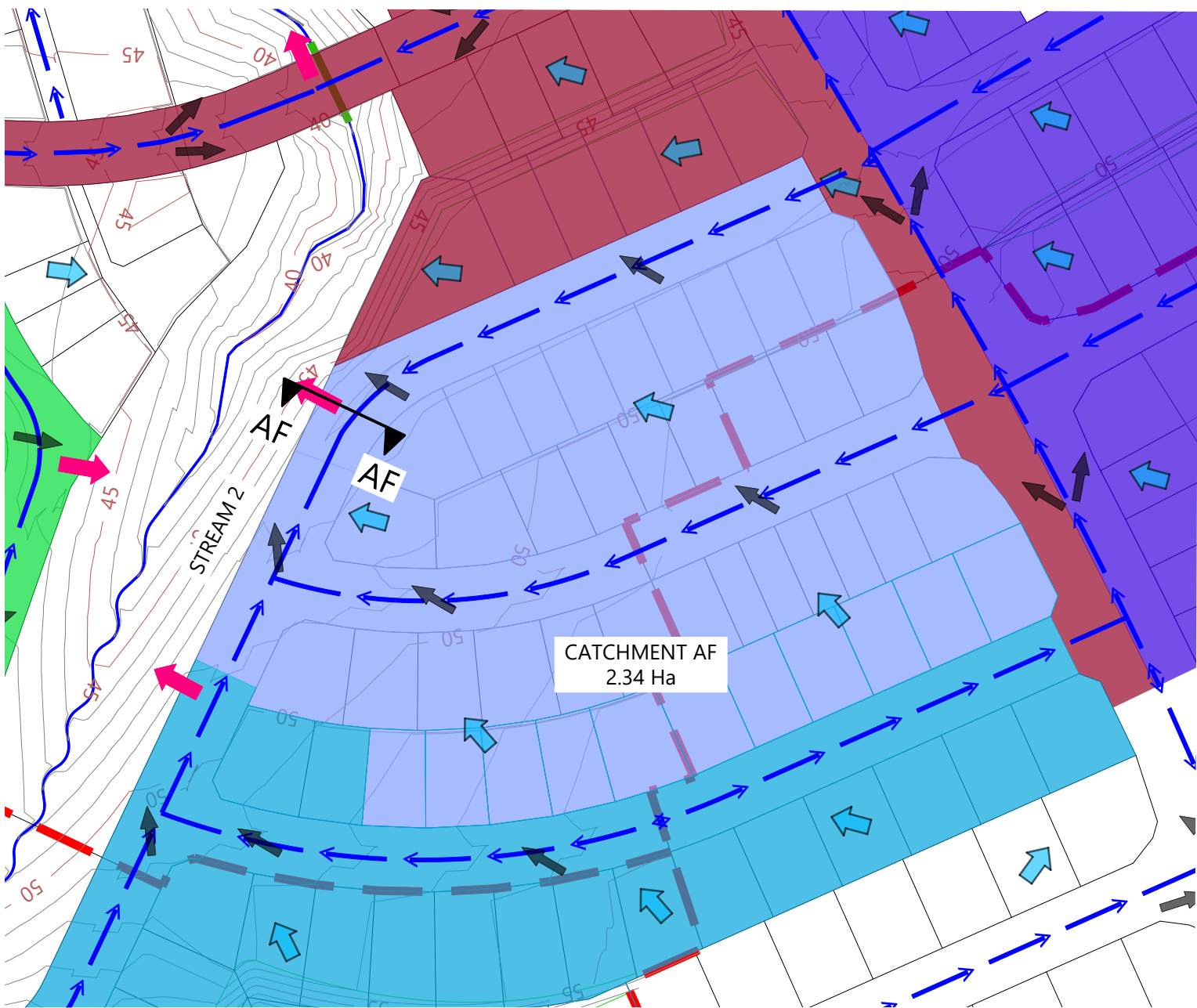
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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JUL 2025

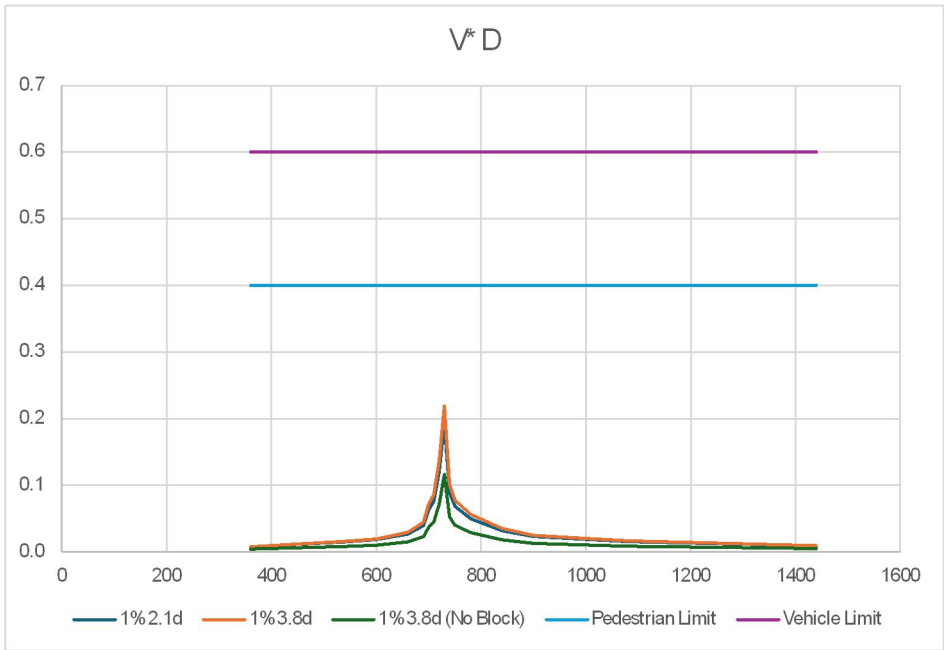
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 25

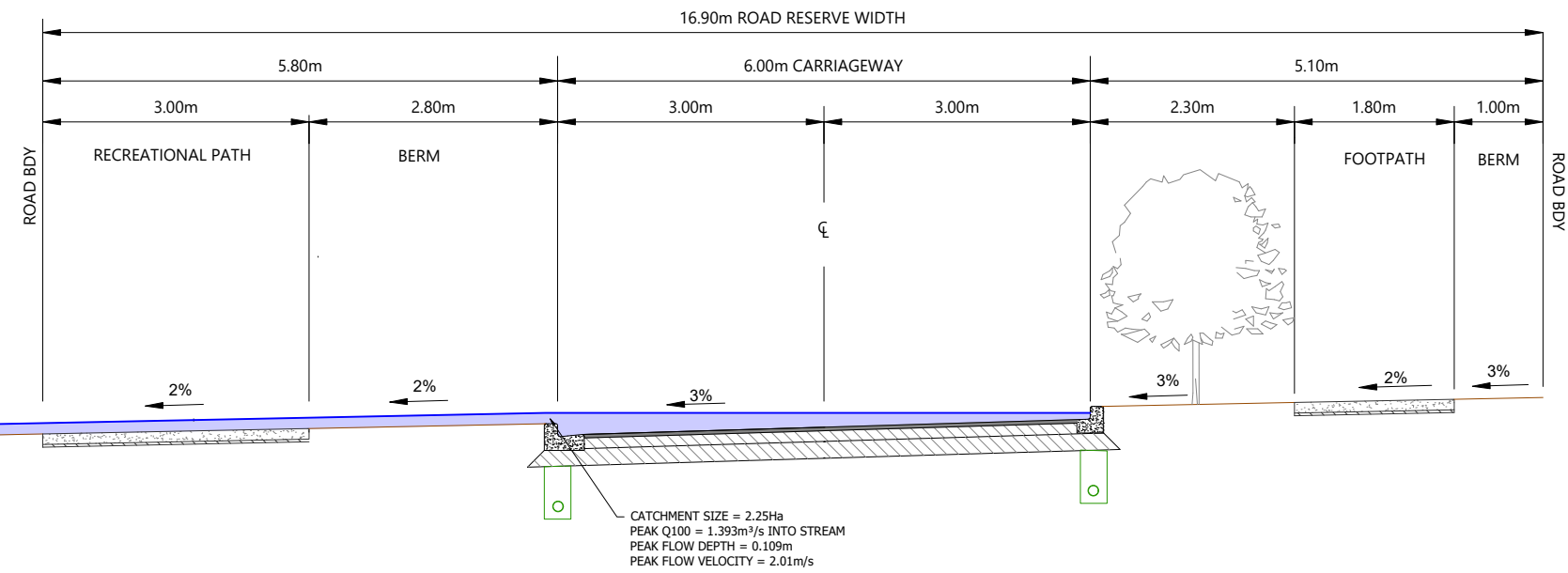
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3045-DR	



CATCHMENT AF PLAN
Scale: 1:3000@A1 - 1:1500@A3



ROAD-SECTION AF-AF VxD GRAPH



ROAD-SECTION AF-AF
Scale: 1:160@A1 - 1:80@A3

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

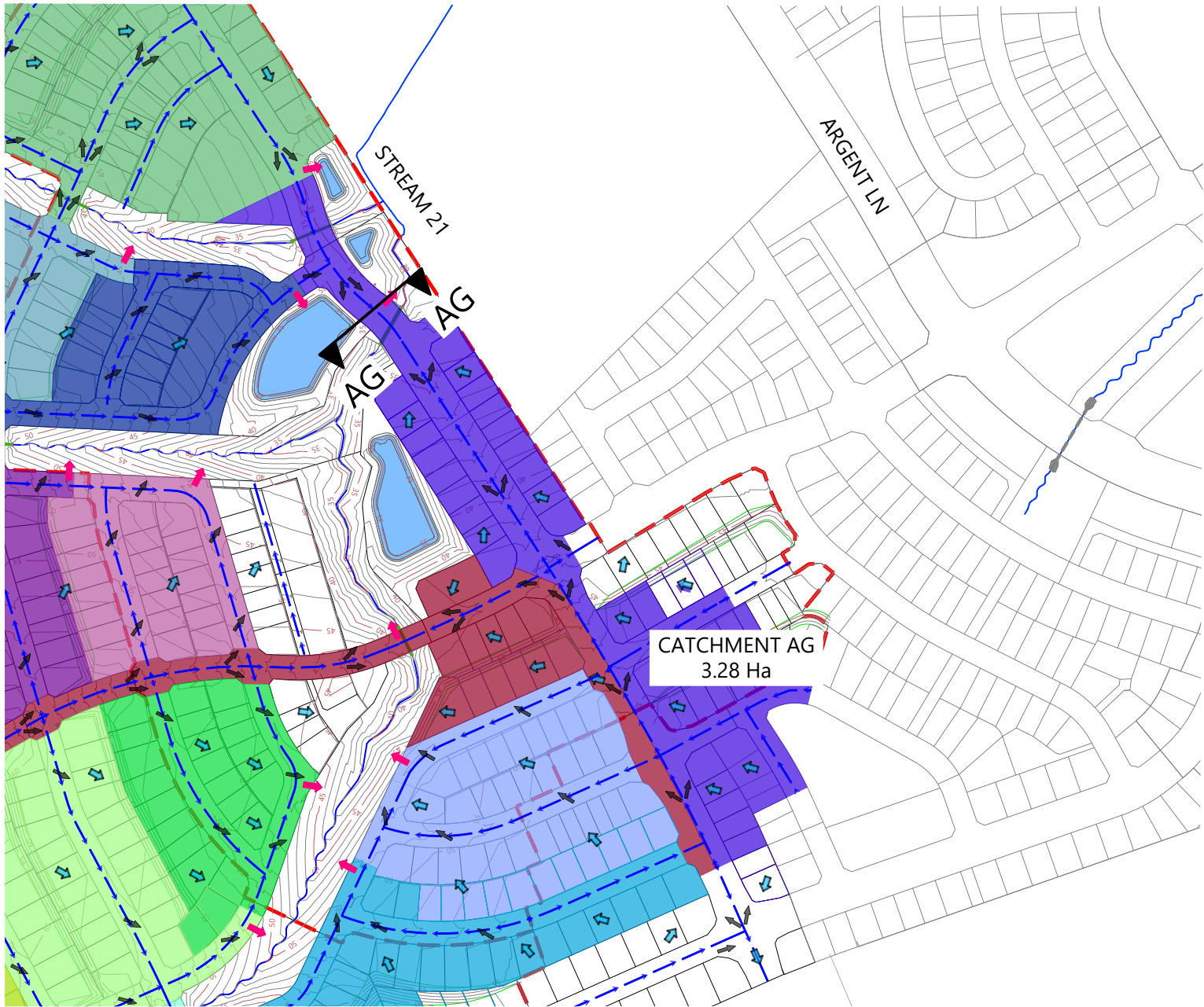
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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

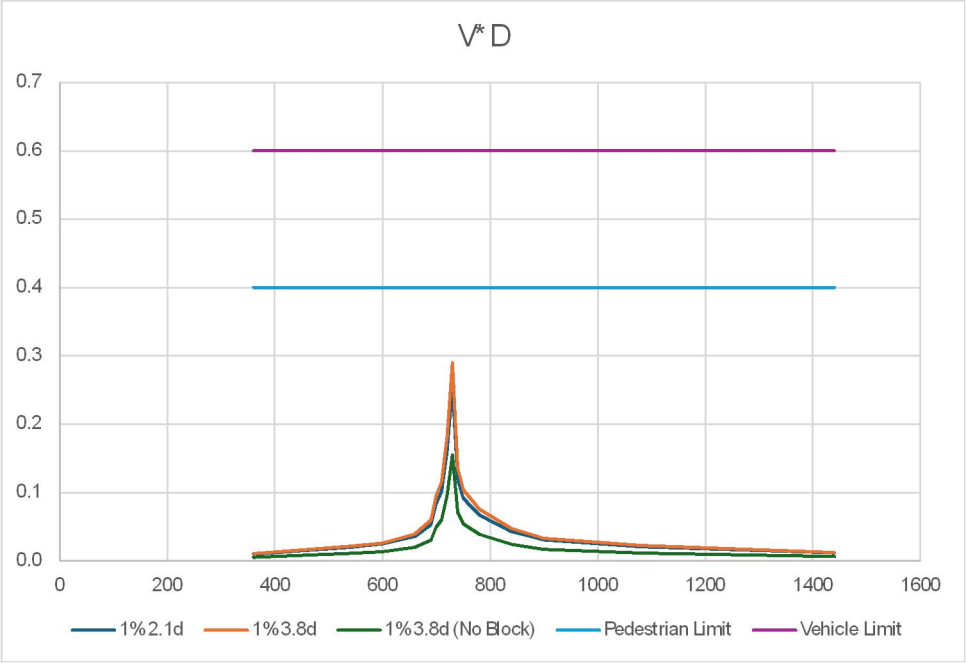
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE FAST TRACK STAGES 10 - 13 STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS LAYOUT PLAN SHEET 26

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3046-DR	



CATCHMENT AG PLAN
Scale: 1:1000@A1 - 1:500@A3



ROAD-SECTION AG-AG VxD GRAPH

LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- ROAD CROSS FALL FLOW
- OVERLAND FLOW SPILL POINT
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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- CROSS-SECTIONAL AREAS AND WETTED PERIMETERS FOR ROADS CALCULATED FROM TYPICAL ROAD-CROSS SECTIONS WITH MAX DEPTH TO BOUNDARY.

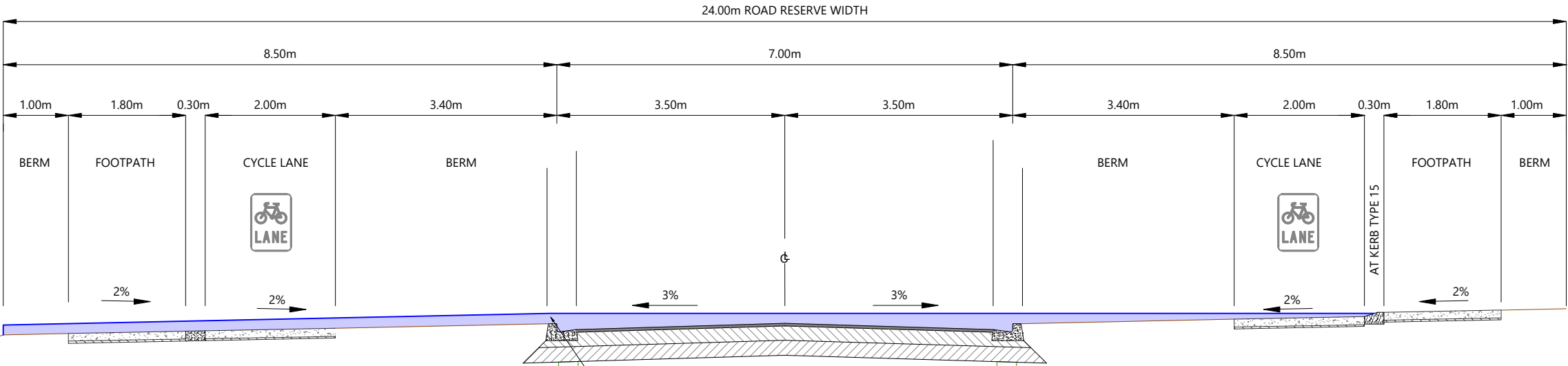
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

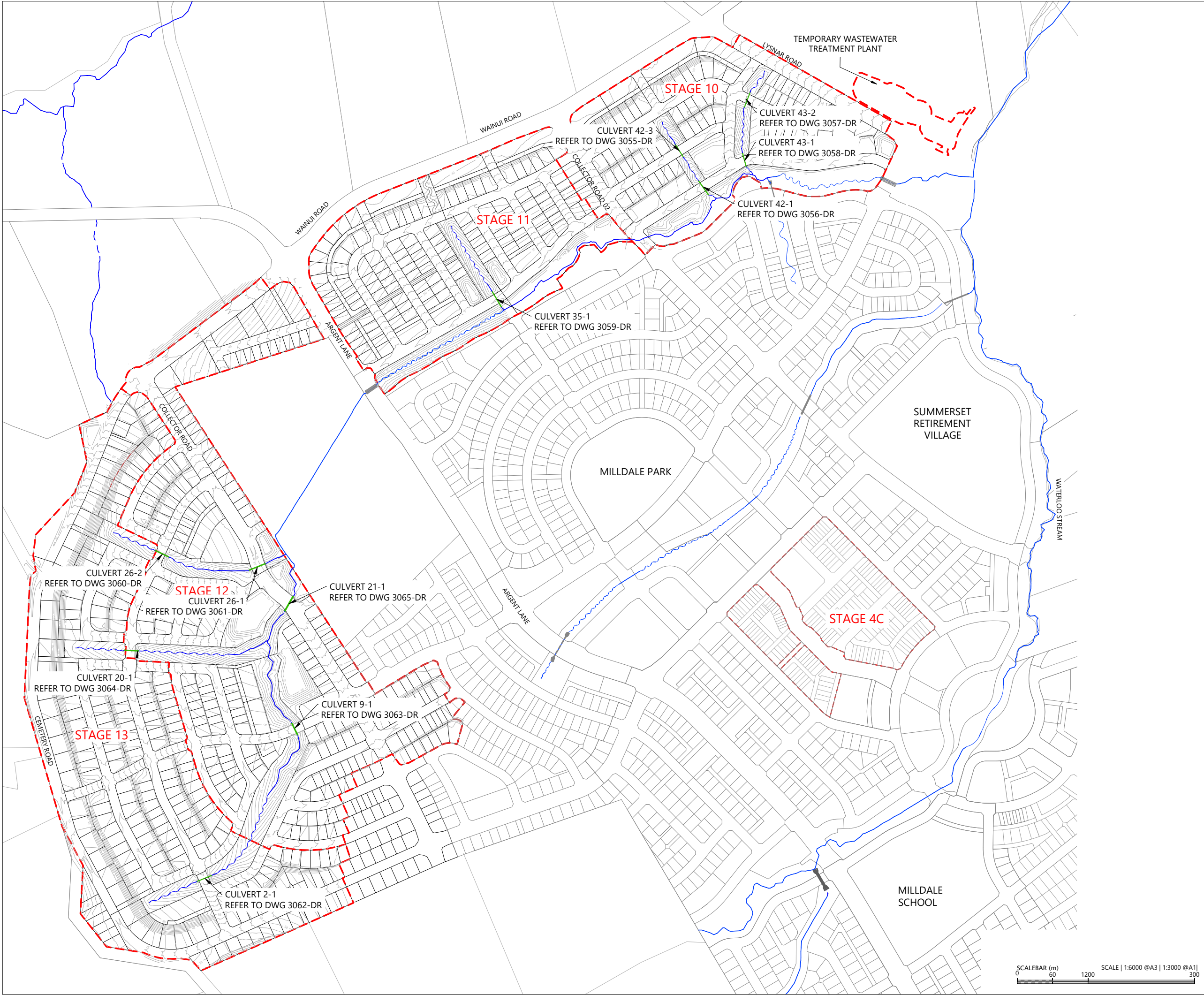
Connecting Lifesyles

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS LAYOUT PLAN
SHEET 27

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3047-DR	



ROAD-SECTION AG-AG
Scale: 1:160@A1 - 1:80@A3



LEGEND:

EXTENTS OF FAST TRACK APPLICATION

LOT BOUNDARIES OF FAST TRACK APPLICATION

DESIGN CONTOUR (1m)

STREAM RETAINED AND ENHANCED

PROPOSED CULVERT

30

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JULY 2025

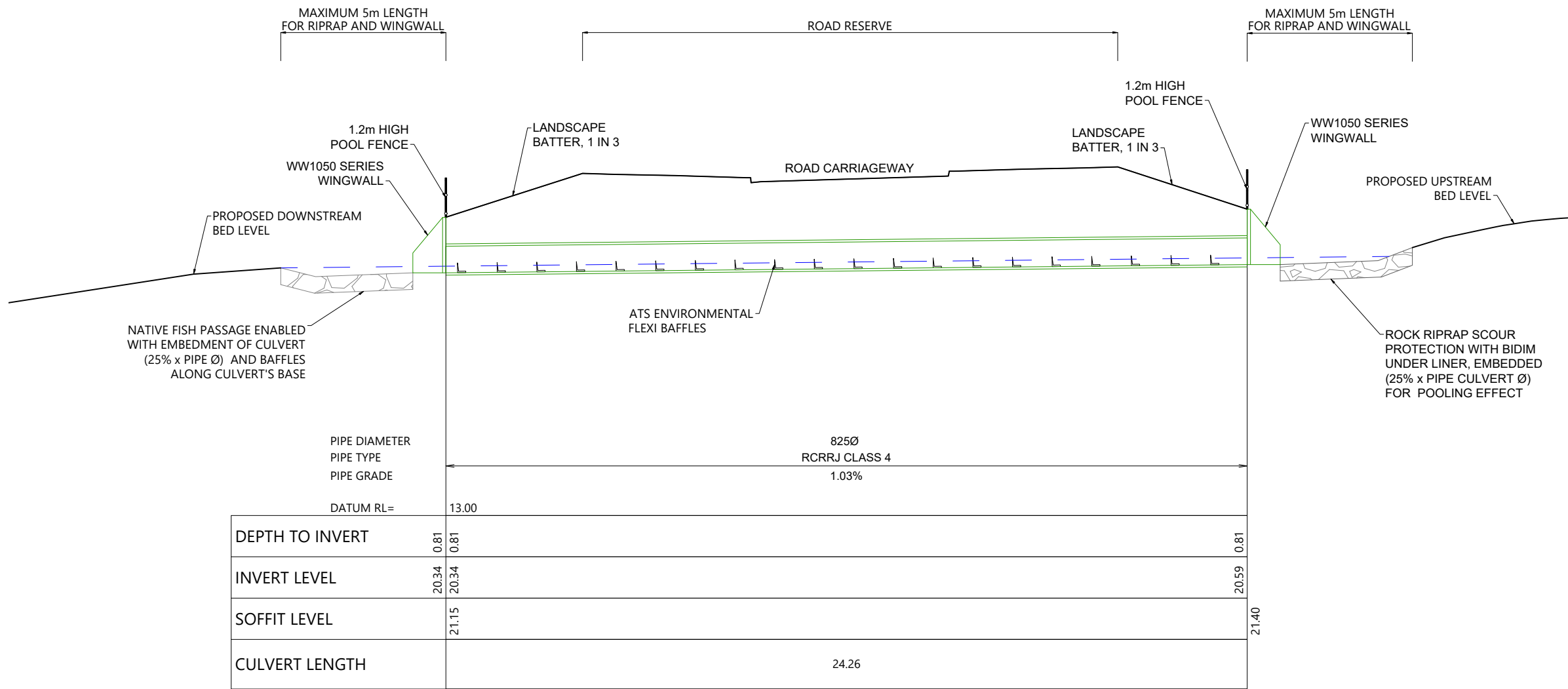
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

N



MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER CULVERTS
LOCATION PLAN

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3050-DR	



PIPE CULVERT 42-3 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

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- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
- FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	JW	FEB 2025
2 ISSUED FOR CONSENT	LP	JUL 2025

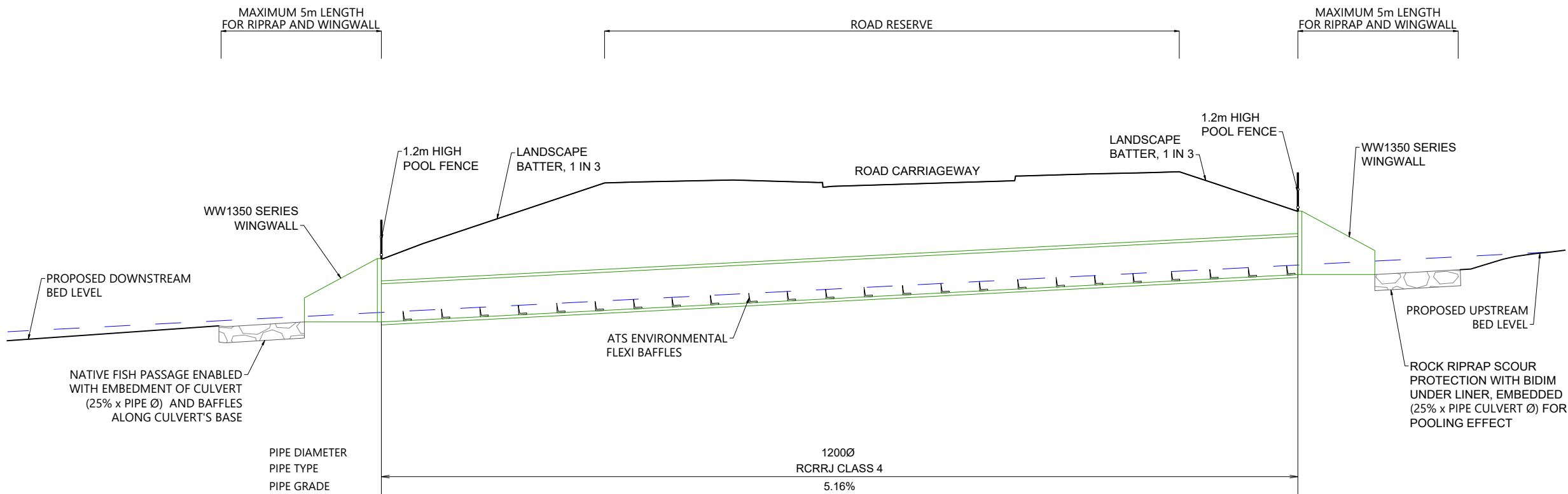
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER PIPE CULVERT
42-3 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3055-DR	





PIPE DIAMETER	PIPE TYPE	PIPE GRADE	DATUM RL=
1200Ø	RCRRJ CLASS 4	5.16%	7.00
DEPTH TO INVERT	1.19	1.19	1.19
INVERT LEVEL	13.32	13.32	14.80
SOFFIT LEVEL	14.51		15.98
CULVERT LENGTH	28.59		

PIPE CULVERT 42-1 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

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- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
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REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	JW	FEB 2025
2 ISSUED FOR CONSENT	LP	JUL 2025

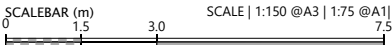
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ

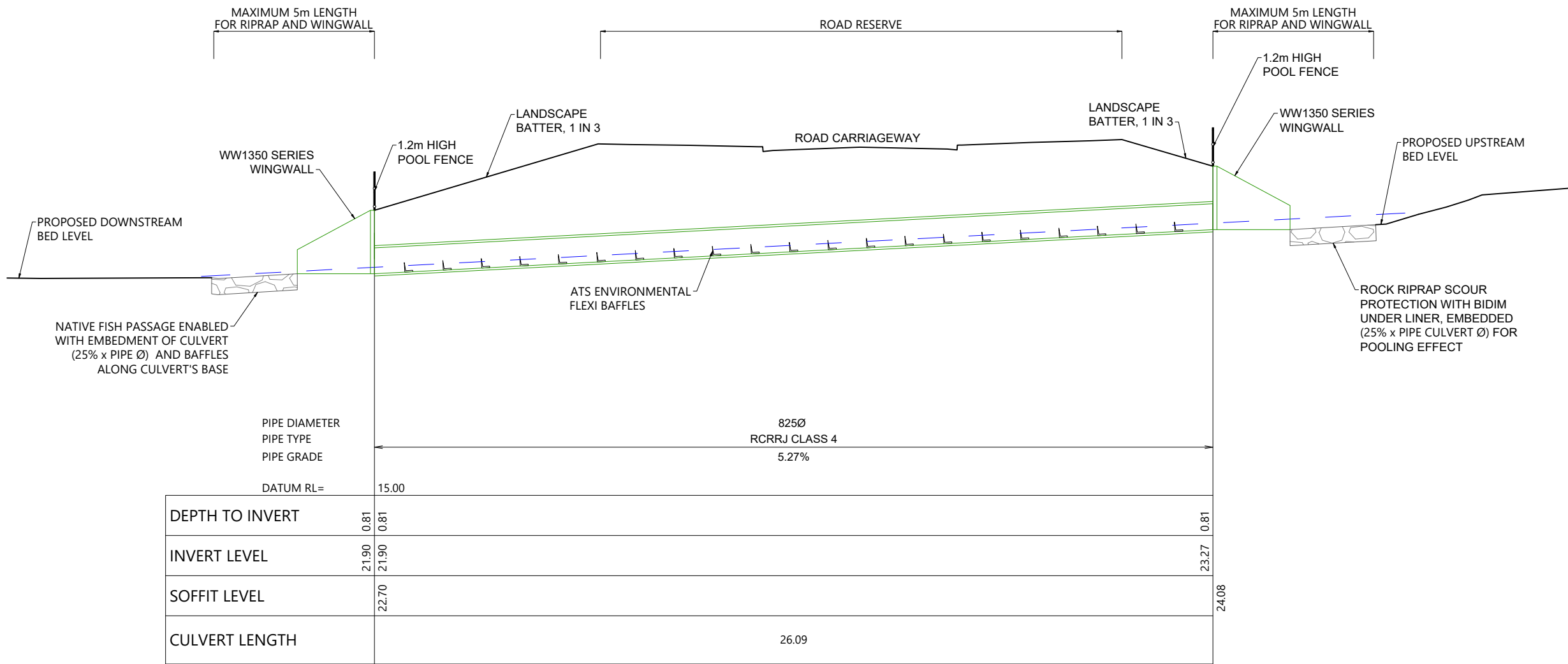


MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
42-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3056-DR	





PIPE CULVERT 43-2 LONGITUDINAL SECTION
SCALE: 1:150



LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

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- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
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- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	JW	FEB 2025
2 ISSUED FOR CONSENT	LP	JUL 2025

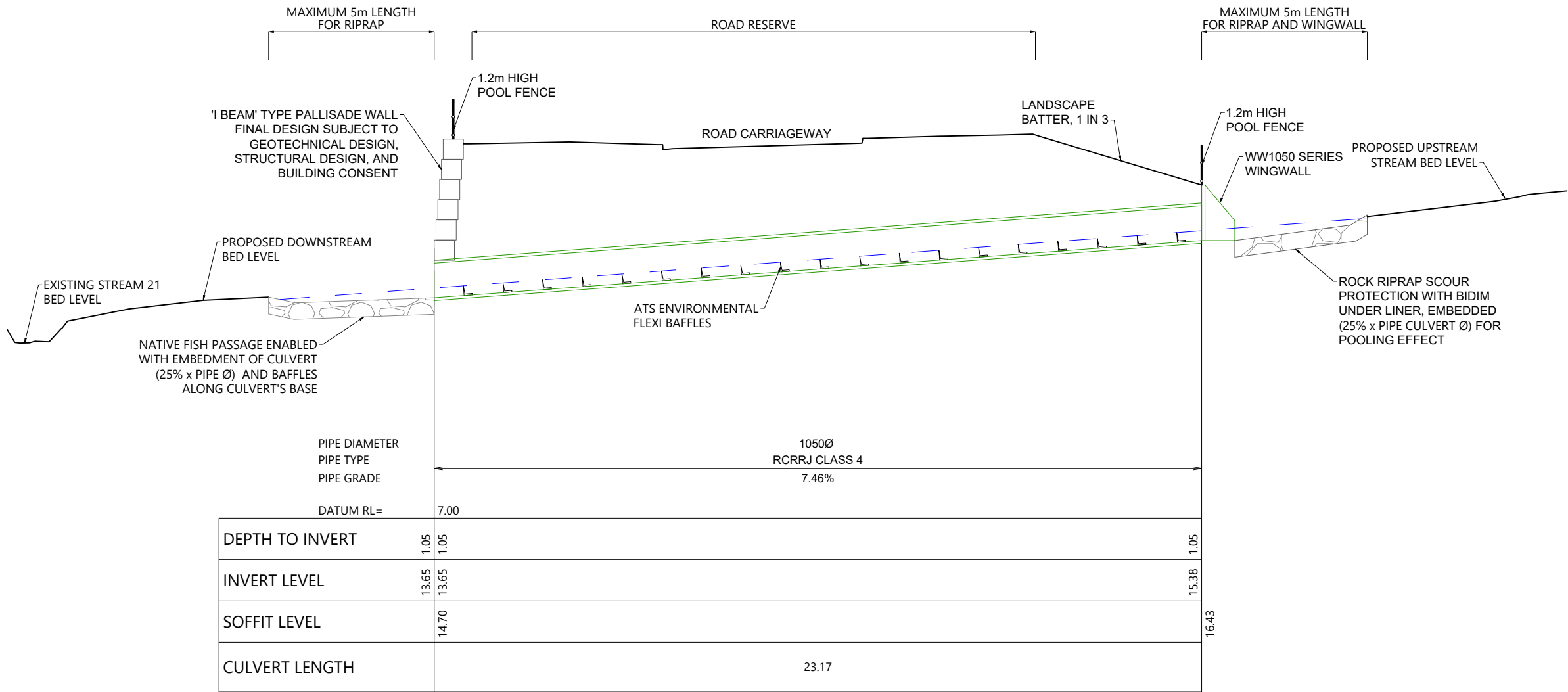
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	



MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
43-2 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3057-DR	



PIPE CULVERT 43-1 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

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- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ

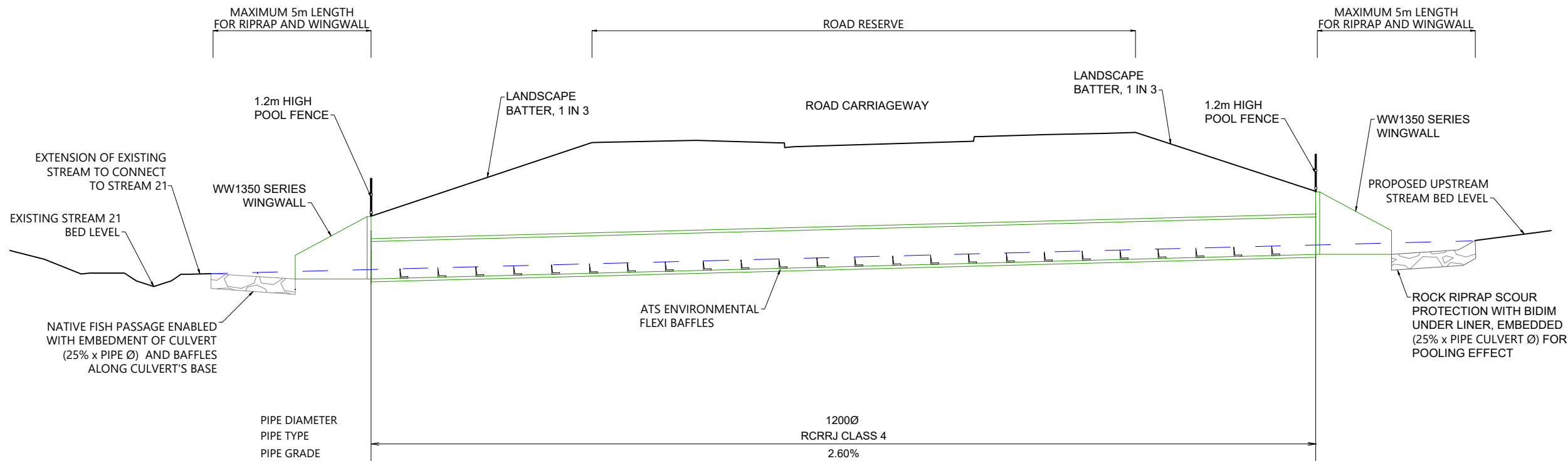


MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
43-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3058-DR	





PIPE DIAMETER	1200Ø		
PIPE TYPE	RCRRJ CLASS 4		
PIPE GRADE	2.60%		
DATUM RL=	13.00		
DEPTH TO INVERT	1.19	1.19	1.19
INVERT LEVEL	19.72	19.72	20.50
SOFFIT LEVEL	20.91		21.69
CULVERT LENGTH	29.92		

PIPE CULVERT 35-1 LONGITUDINAL SECTION
SCALE: 1:150



LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	LP	JUL 2025

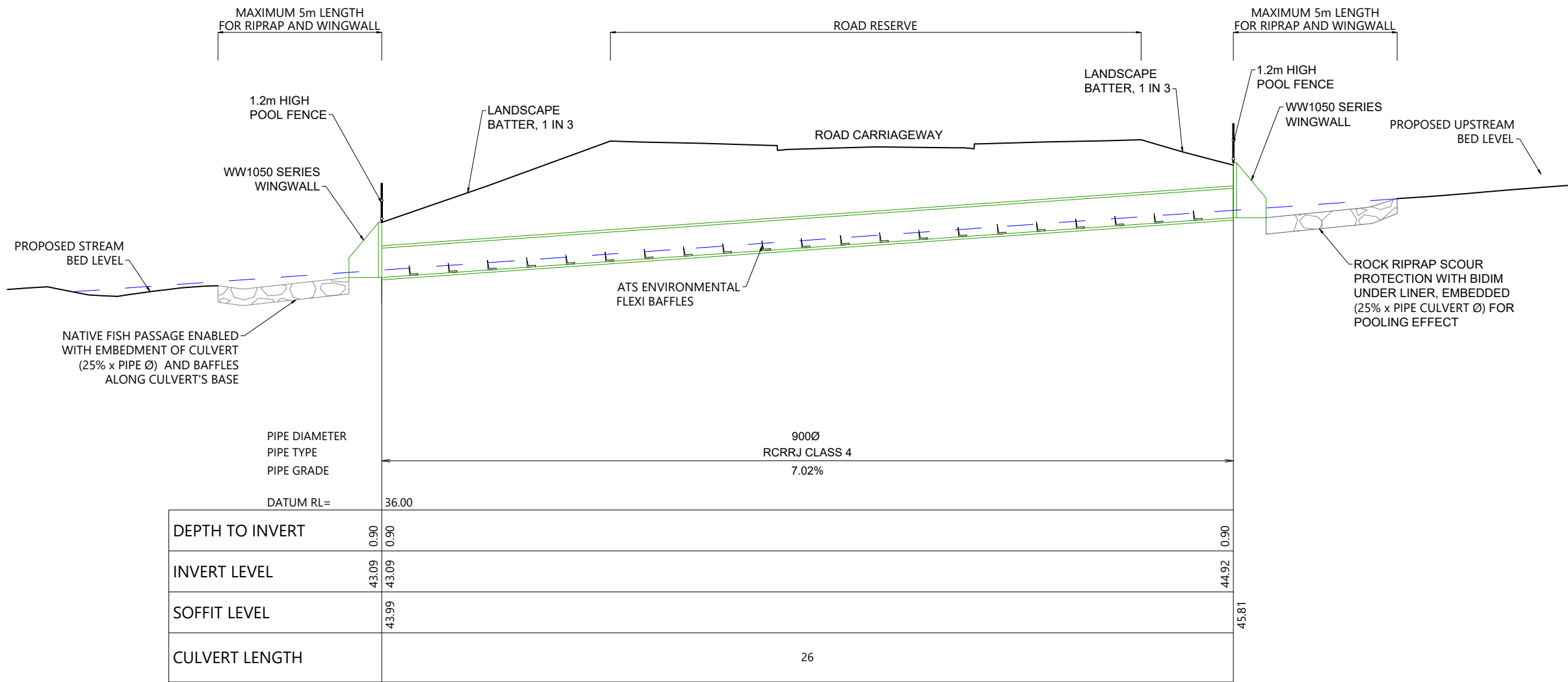
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
35-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3059-DR	



PIPE CULVERT 26-2 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

- ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
- FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	JW	FEB 2025
2 ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	

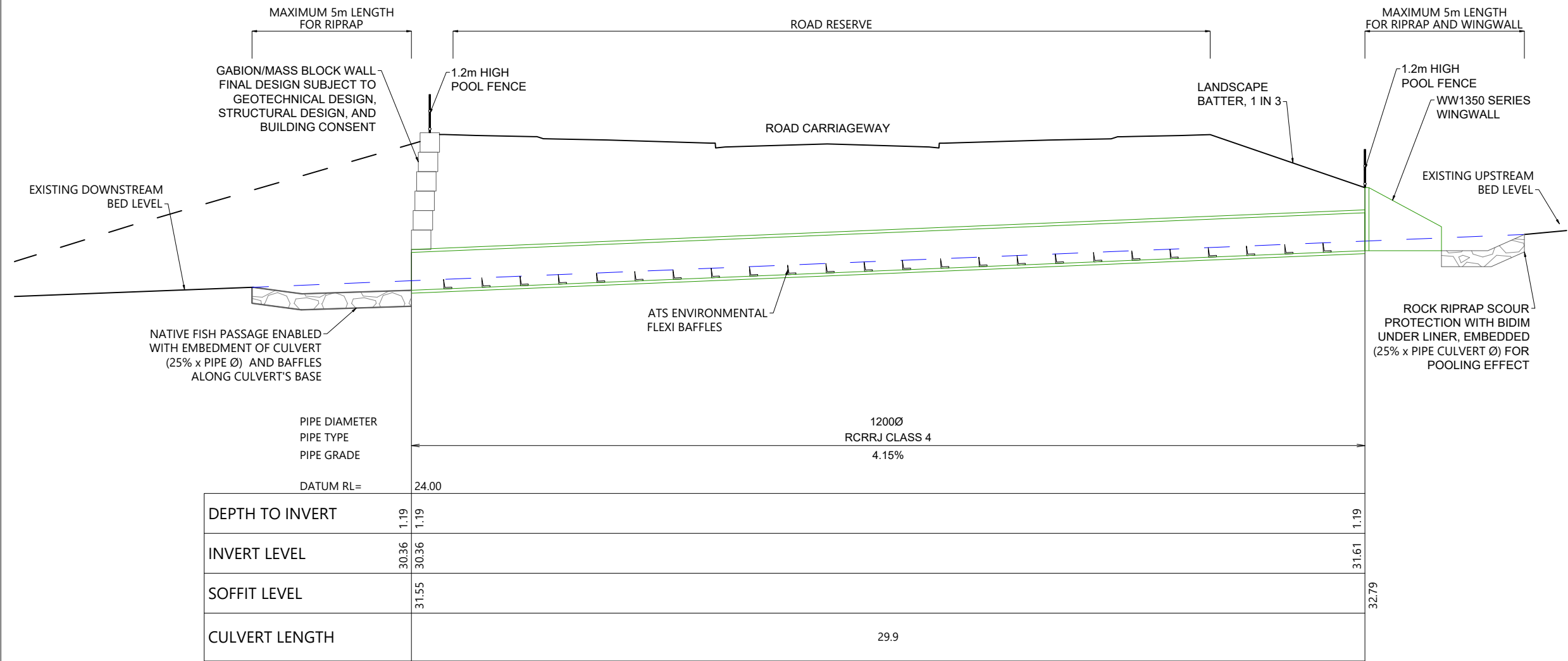
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MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
26-2 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3060-DR	





PIPE CULVERT 26-1 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

- ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
- FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ

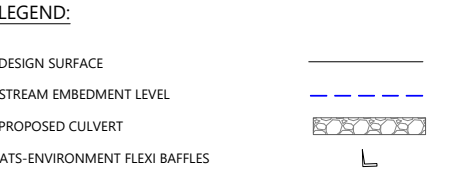
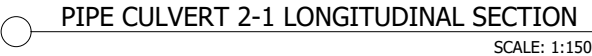


MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
26-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3061-DR	





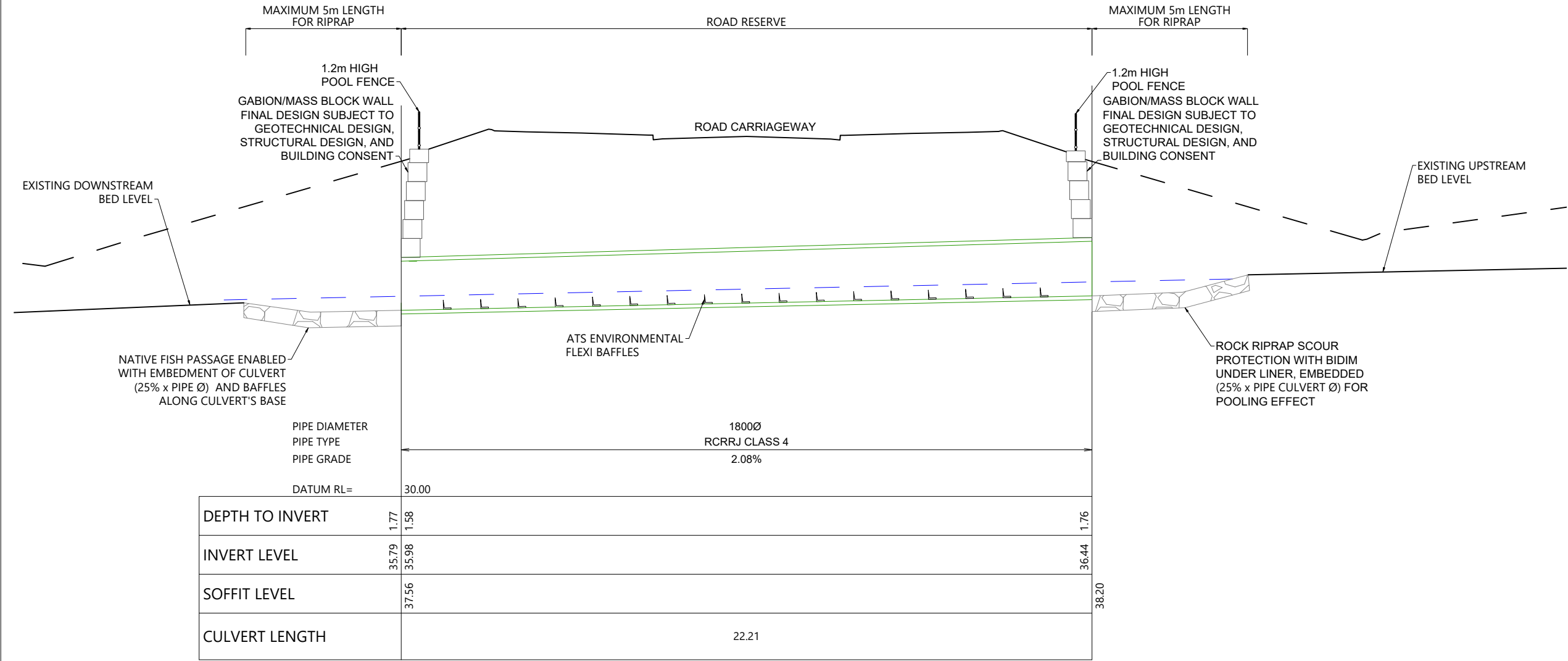
- ## NOTES:
1. ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
 2. CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
 3. FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER AT'S ENVIRONMENTAL SPECIFICATIONS, I.E. REQUIRED BAFFLE LENGTH AND SPACINGS.
 4. FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
 5. OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TPT10.
 6. ALL CULVERTS TO BE CLASS 4 RCRRJ.
 7. SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	



STORMWATER PIPE CULVERT 2-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3062-DR	



PIPE CULVERT 9-1 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

- ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
- FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ

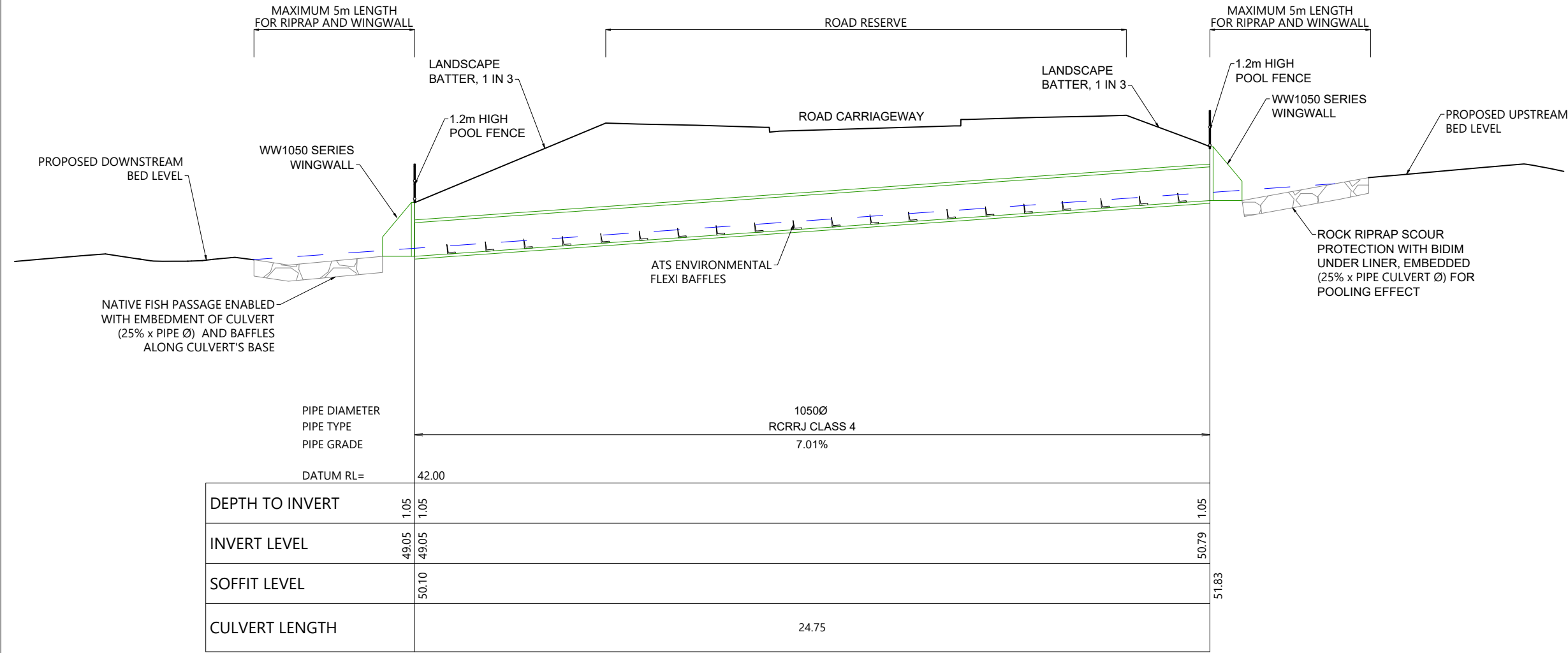


MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
9-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3063-DR	





PIPE CULVERT 20-1 LONGITUDINAL SECTION
SCALE: 1:150

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

- ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
- FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	

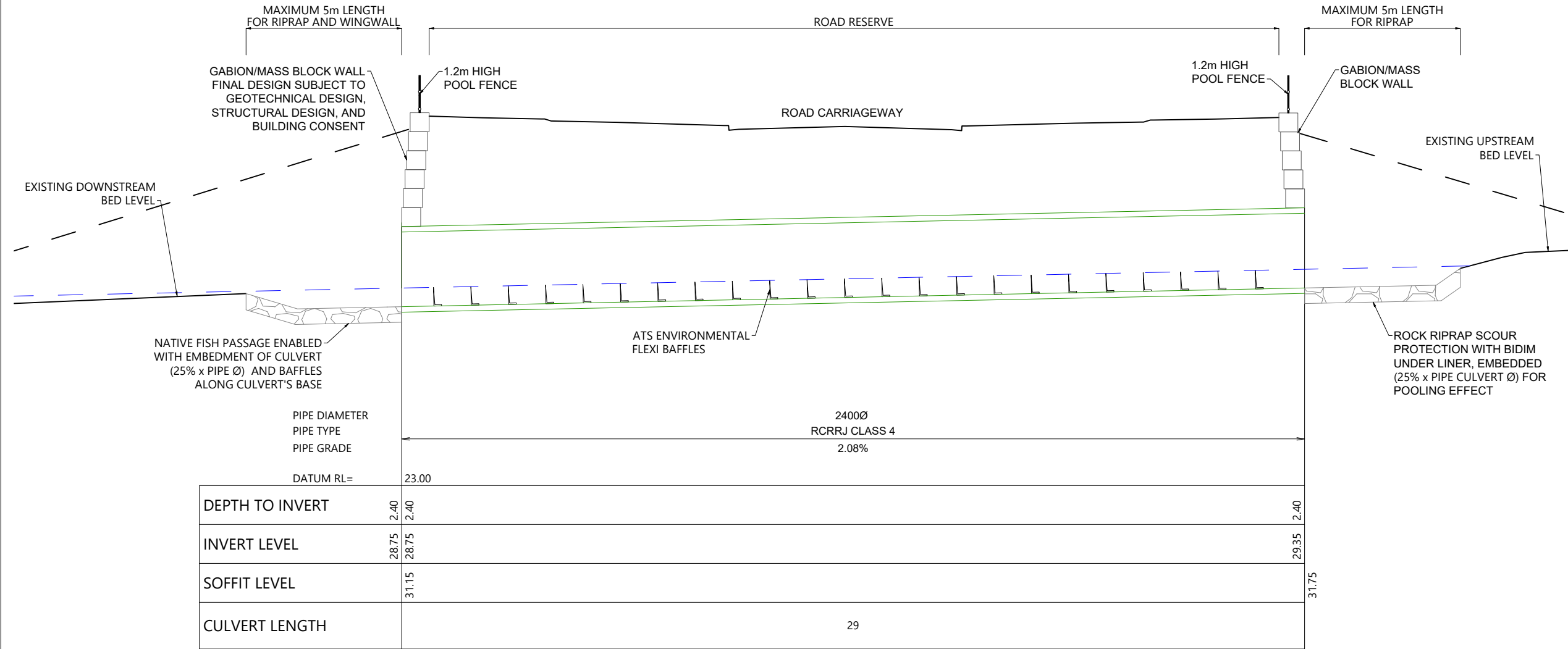
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MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
20-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3064-DR	





PIPE CULVERT 21-1 LONGITUDINAL SECTION
SCALE: 1:150



LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED CULVERT	
ATS-ENVIRONMENT FLEXI BAFFLES	

NOTES:

- ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
- CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
- FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
- FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
- OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
- ALL CULVERTS TO BE CLASS 4 RCRRJ.
- SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	LP	JUL 2025

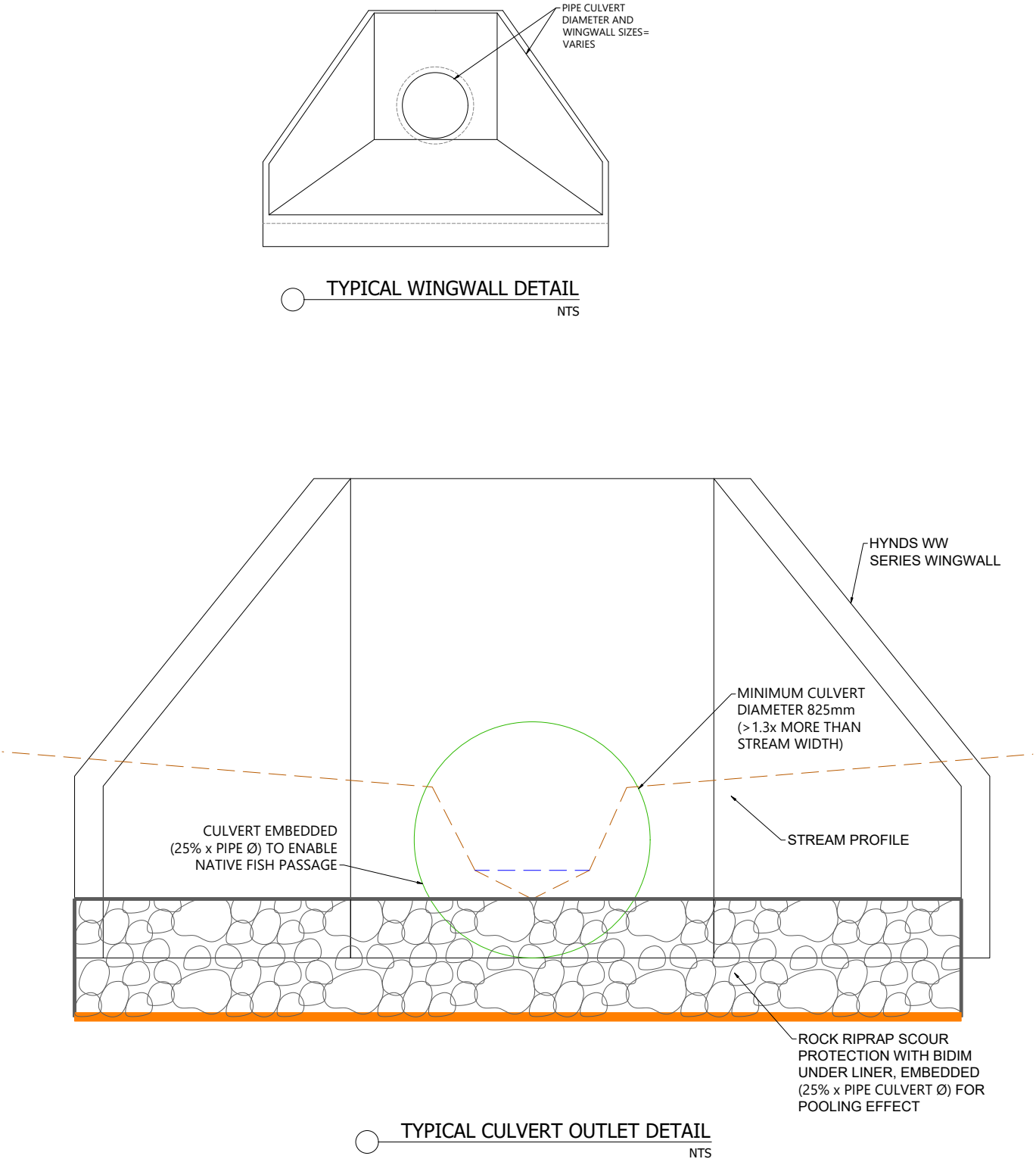
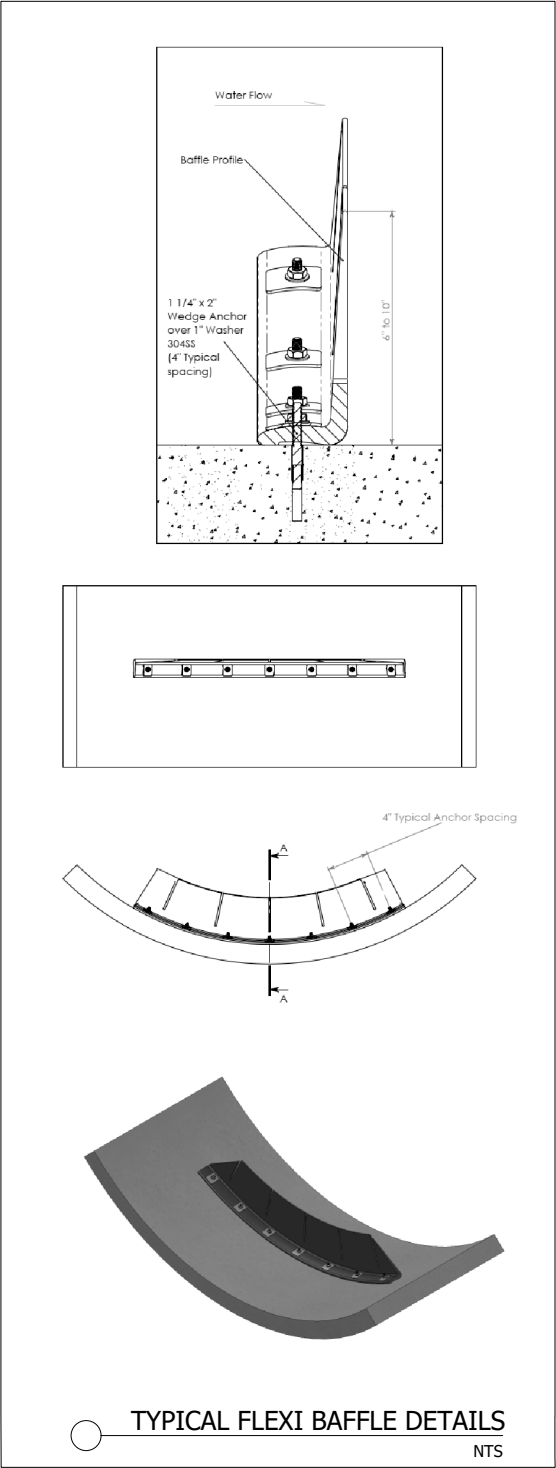
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	LP	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER PIPE CULVERT
21-1 LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3065-DR	



NOTES:

1. ALL WORKS ARE TO COMPLY WITH THE TERRITORIAL AUTHORITIES' STANDARDS AND SPECIFICATIONS.
2. CULVERT TO BE DESIGNED IN ACCORDANCE WITH THE NES-F FISH PASSAGE REQUIREMENTS. CULVERTS COUNTERSUNK INTO STREAM 25% OF DIAMETER OF CULVERT.
3. FLEXI BAFFLES ARE TO BE USED IN THE CULVERT TO ASSIST WITH UPSTREAM FISH PASSAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER ITS ENVIRONMENTAL SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
4. FISH RELOCATION WORK TO BE CARRIED OUT IN ACCORDANCE WITH THE NATIVE FISH CAPTURE AND RELOCATION PLAN.
5. OUTLET DETAILS SUBJECT TO DETAILED DESIGN AT EPA STAGE IN ACCORDANCE WITH TP10.
6. ALL CULVERTS TO BE CLASS 4 RCRRJ.
7. SPECIFIC HEADWALL DESIGNS TO BE DESIGNED WITH GEOTECHNICAL AND STRUCTURAL SPECIALISTS AT TIME OF DETAILED DESIGN/EPA.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025

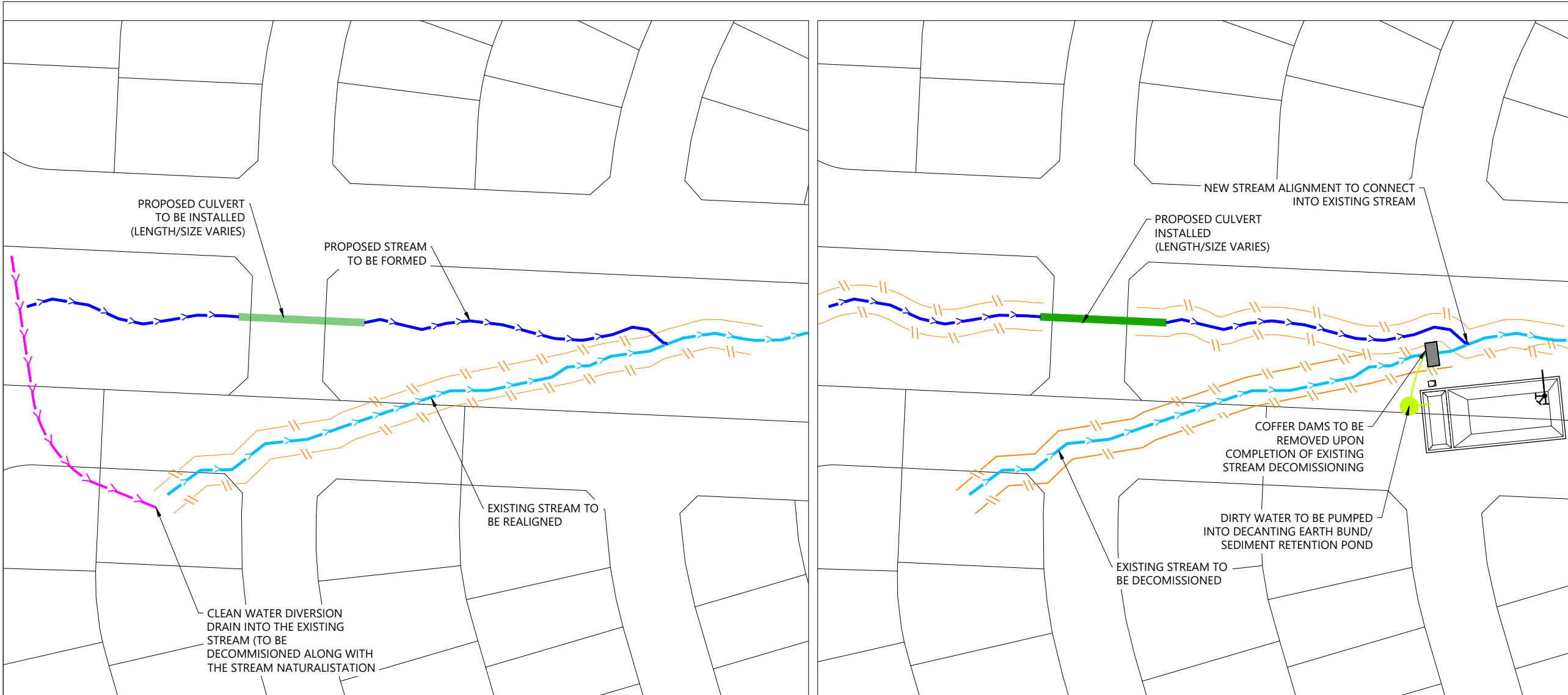
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	AP	
DRAWN	FA	
CHECKED	AP	
APPROVED	JW	
		WOODS.CO.NZ

Constructing a better future

MILLDALE
FAST TRACK
STAGES 10 - 13

TYPICAL STORMWATER PIPE
CULVERT DETAIL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3070-DR	



PHASE 1 & 2: ESTABLISH CONTROLS & CULVERT INSTALLATION
SCALE: 1:800

PHASE 3: DECOMISSION EXISTING STREAM
SCALE: 1:150

PHASE 1 - ESTABLISH CONTROLS:

1. SEDIMENT AND EROSION CONTROL PLAN TO BE APPROVED BY COUNCIL. SEDIMENT CONTROL PLANS LOCATED TO ENABLE PUMPING OF DIRTY WATER FLOWS DURING STREAM DEWATERING.
2. STREAMWORKS PRE-CONSTRUCTION MEETING TO BE HELD.
3. SEDIMENT AND EROSION CONTROL DEVICES INSTALLED AS PER APPROVED PLAN.
4. SEDIMENT AND EROSION CONTROL DEVICES CERTIFIED BY SUITABLY QUALIFIED PERSON.
5. DECANTING EARTH BUND/SEDIMENT RETENTION POND TO BE INSTALLED. FINAL POSITION TO BE CONFIRMED
6. CLEAN WATER DIVERSION DRAIN INTO EXISTING STREAM TO DIVERT CLEAN WATER AROUND SITE.
7. COFFER DAMS TO BE INSTALLED AT DOWNSTREAM OF BOTH EXISTING AND PROPOSED STREAMS. MESH INSTALLED TO ALLOW WATER FLOW.
8. DIRTY WATER PUMP OF PROPOSED STREAM TO DEB/SRP INSTALLED. CLEAN WATER DIVERSION DRAIN/PUMP FROM EXISTING STREAM TO DOWNSTREAM INSTALLED.
9. FISH CAPTURE AND RELOCATION TO BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED NATIVE FISH CAPTURE AND RELOCATION PLAN.
10. SITE ENABLED FOR BULK EARTHWORKS.

PHASE 2 - CULVERT INSTALLATION:

1. NEW STREAM ALIGNMENT TO BE FORMED IN ACCORDANCE WITH STREAM RESTORATION PLAN. STABILISED UPON COMPLETION.
2. NEW CULVERT TO BE INSTALLED. FISH PASSAGE INSTALLED.
3. ALL IN STREAM ENHANCEMENT FEATURES PLACED IN ACCORDANCE WITH THE APPROVED STREAM RESTORATION PLAN AND UNDER DIRECTION FROM ECOLOGIST ON SITE.
4. STREAMWORKS CERTIFIED BY ECOLOGIST ON SITE.
5. ANY REMAINING STREAMWORKS STABILISED.
6. NEW STREAM TO BE DAYLIGHTED INTO EXISTING STREAM, AND LIVENED FOR FLOW.

PHASE 3 - DECOMISSION EXISTING STREAM:

1. CLEAN WATER CATCHMENTS REDIRECTED TO REALIGNED STREAM HEAD.
2. COFFER DAMS TO BE INSTALLED AT DOWNSTREAM END OF EXISTING STREAM.
3. PUMP TO BE INSTALLED TO PUMP WATER FROM EXISTING STREAM TO DEB/SRP.
4. EXISTING WATERCOURSE DEWATERED IN ACCORDANCE WITH THE APPROVED NATIVE FISH CAPTURE AND RELOCATION PLAN.
5. EXISTING WATERCOURSE MUCKED OUT IN ACCORDANCE WITH THE APPROVED NATIVE FISH CAPTURE AND RELOCATION PLAN.
6. SUBSOIL/UNDERFILL DRAIN COILS INSTALLED AS PER GEOTECHNICAL RECCOMENDATIONS.
7. COFFER DAM REMOVED.
8. EXISTING STREAM FILLED TO DESIGN SURFACE SUBGRADE LEVELS.
9. RIPARIAN PLANTING TO BE COMPLETED IN ACCORDANCE WITH THE STREAM RESTORATION PLAN WITHIN THE FIRST PLANTING SEASON FOLLOWING COMPLETION OF THESE EARTHWORKS.
10. STREAM MONITORING PROGRAMME TO COMMENCE IN ACCORDANCE WITH THE STREAM MONITORING PLAN.

LEGEND:

EXTENTS OF FAST TRACK APPLICATION	
LOT BOUNDARIES OF FAST TRACK APPLICATION	
DESIGN CONTOUR (1m)	
STREAM RETAINED AND ENHANCED	
PROPOSED CULVERT	

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	JW	FEB 2025

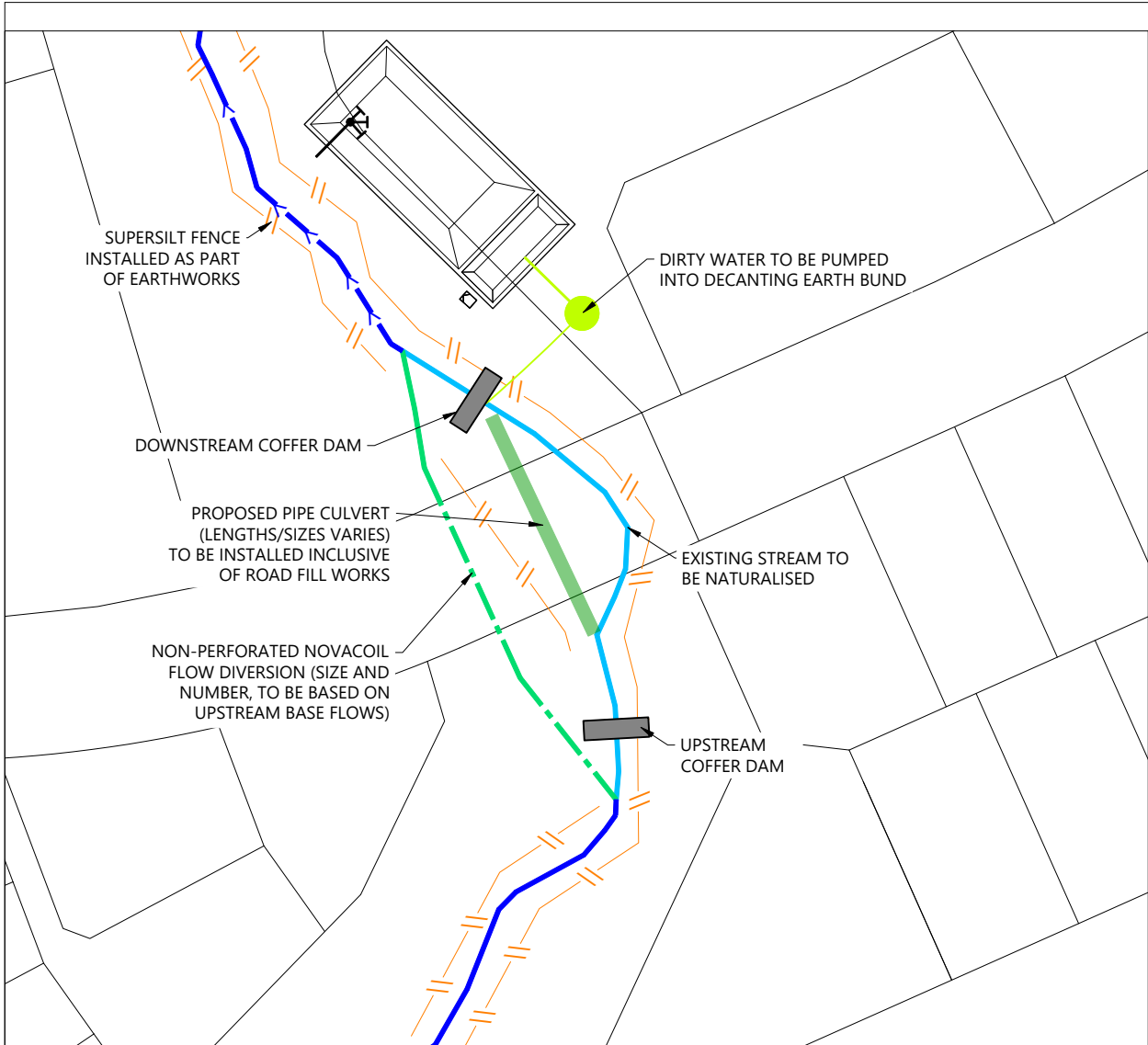
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13

STORMWATER CULVERTS
TYPICAL INSTALLATION PLAN
-OFFLINE CULVERT

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:3000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3075-DR	

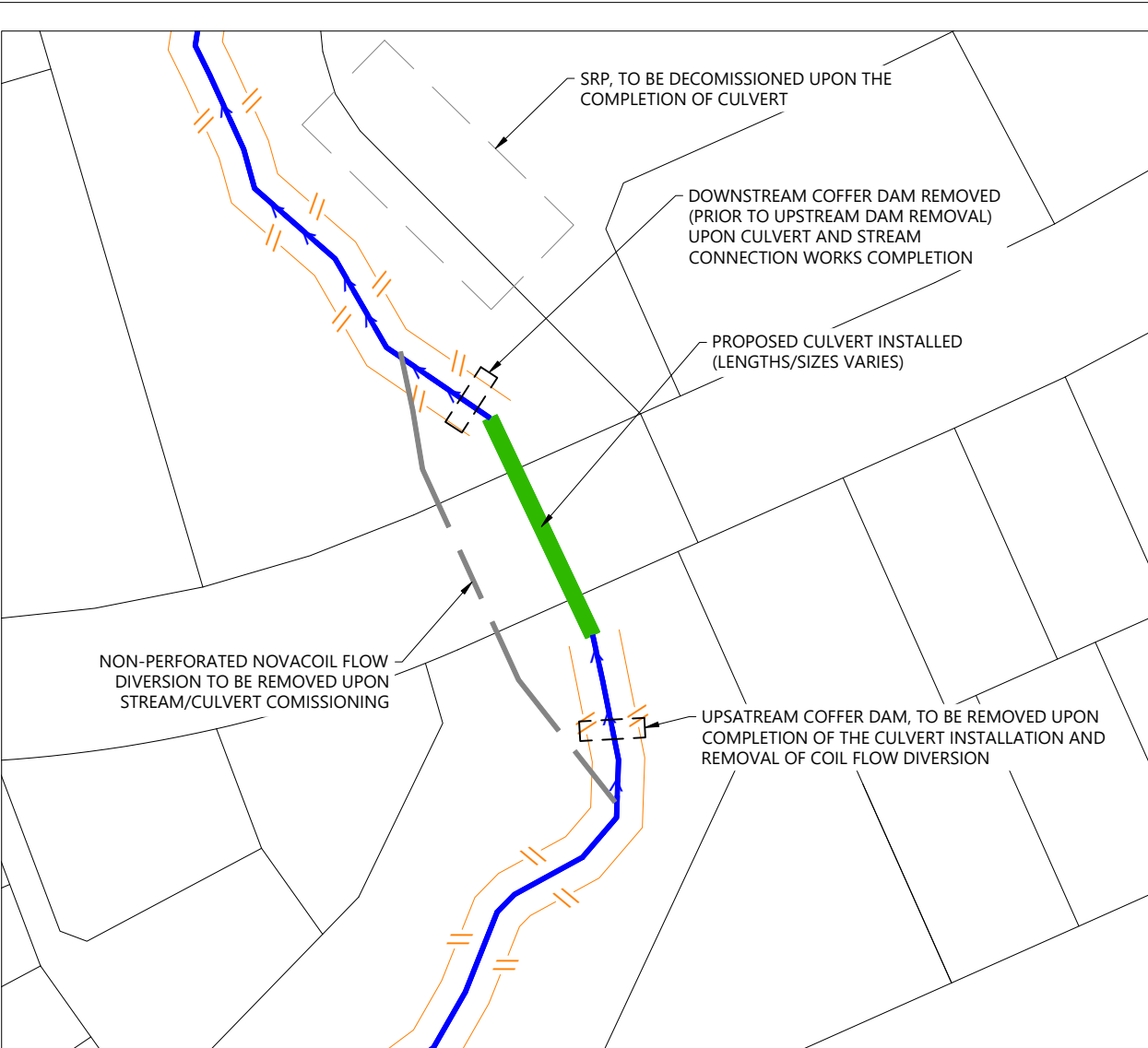




○ PHASE 1: ESTABLISH CONTROLS
SCALE: 1:800

PHASE 1 - ESTABLISH CONTROLS:

1. SEDIMENT AND EROSION CONTROL PLAN TO BE APPROVED BY COUNCIL. SEDIMENT CONTROL PLANS LOCATED TO ENABLE PUMPING OF DIRTY WATER FLOWS DURING STREAM DEWATERING.
2. STREAMWORKS PRE-CONSTRUCTION MEETING TO BE HELD.
3. SEDIMENT AND EROSION CONTROL DEVICES INSTALLED AS PER APPROVED PLAN.
4. SEDIMENT AND EROSION CONTROL DEVICES CERTIFIED BY SUITABLY QUALIFIED PERSON.
5. BYPASS CHANNEL/NOVACOIL FLOW DIVERSION TO BE INSTALLED. (SIZES AND NUMBER TO BE BASED ON THE UPSTREAM BASE FLOW)
6. DECANTING EARTH BUND/SEDIMENT RETENTION POND TO BE INSTALLED. FINAL POSITION TO BE CONFIRMED
7. COFFER DAMS TO BE INSTALLED UPSTREAM AND DOWNSTREAM OF THE CULVERT/STREAM NATURALISATION WORKS. MESH INSTALLED TO ALLOW WATER FLOW. PUMP INSTALLED TO PUMP DIRTY WATER INTO DEB/SRP.
8. FISH CAPTURE AND RELOCATION TO BE UNDERTAKEN IN ACCORDANCE WITH THE APPROVED NATIVE FISH CAPTURE AND RELOCATION PLAN.
9. UPPER MESH DAM TO BE REPLACED WITH COFFER DAM TO CEASE WATER FLOW FOR DEWATERING OPERATION.
10. EXISTING WATERCOURSE DEWATERED IN ACCORDANCE WITH THE APPROVED NATIVE FISH CAPTURE AND RELOCATION PLAN.
11. EXISTING WATERCOURSE MUCKED OUT IN ACCORDANCE WITH THE APPROVED NATIVE FISH CAPTURE AND RELOCATION PLAN.



○ PHASE 2: CULVERT INSTALLATION
SCALE: 1:150

PHASE 2 - CULVERT INSTALLATION:

1. EXISTING WATERCOURSE TO BE MUCKED OUT AND GEOTECHNICAL RECOMMENDATIONS TO BE APPLIED TO CULVERT SUBGRADE.
2. NEW CULVERT TO BE INSTALLED. FISH PASSAGE INSTALLED.
3. ALL IN STREAM ENHANCEMENT FEATURES PLACED IN ACCORDANCE WITH THE APPROVED STREAM RESTORATION PLAN AND UNDER DIRECTION FROM ECOLOGIST ON SITE.
4. STREAMWORKS CERTIFIED BY ECOLOGIST ON SITE.
5. ANY REMAINING STREAMWORKS STABILISED.
6. COFFER DAMS TO BE REMOVED AND DOWNSTREAM END OF CULVERT DAYLIGHTED INTO EXISTING STREAM. NOVACOIL FLOW DIVERSION TO BE REMOVED.
7. RIPARIAN PLANTING TO BE COMPLETED IN ACCORDANCE WITH THE STREAM RESTORATION PLAN WITHIN THE FIRST PLANTING SEASON FOLLOWING COMPLETION OF THESE EARTHWORKS.
8. STREAM MONITORING PROGRAMME TO COMMENCE IN ACCORDANCE WITH THE STREAM MONITORING PLAN.

LEGEND:

EXTENTS OF FAST TRACK APPLICATION	---
LOT BOUNDARIES OF FAST TRACK APPLICATION	---
DESIGN CONTOUR (1m)	30
STREAM RETAINED AND ENHANCED	---
PROPOSED CULVERT	---

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	JW	FEB 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

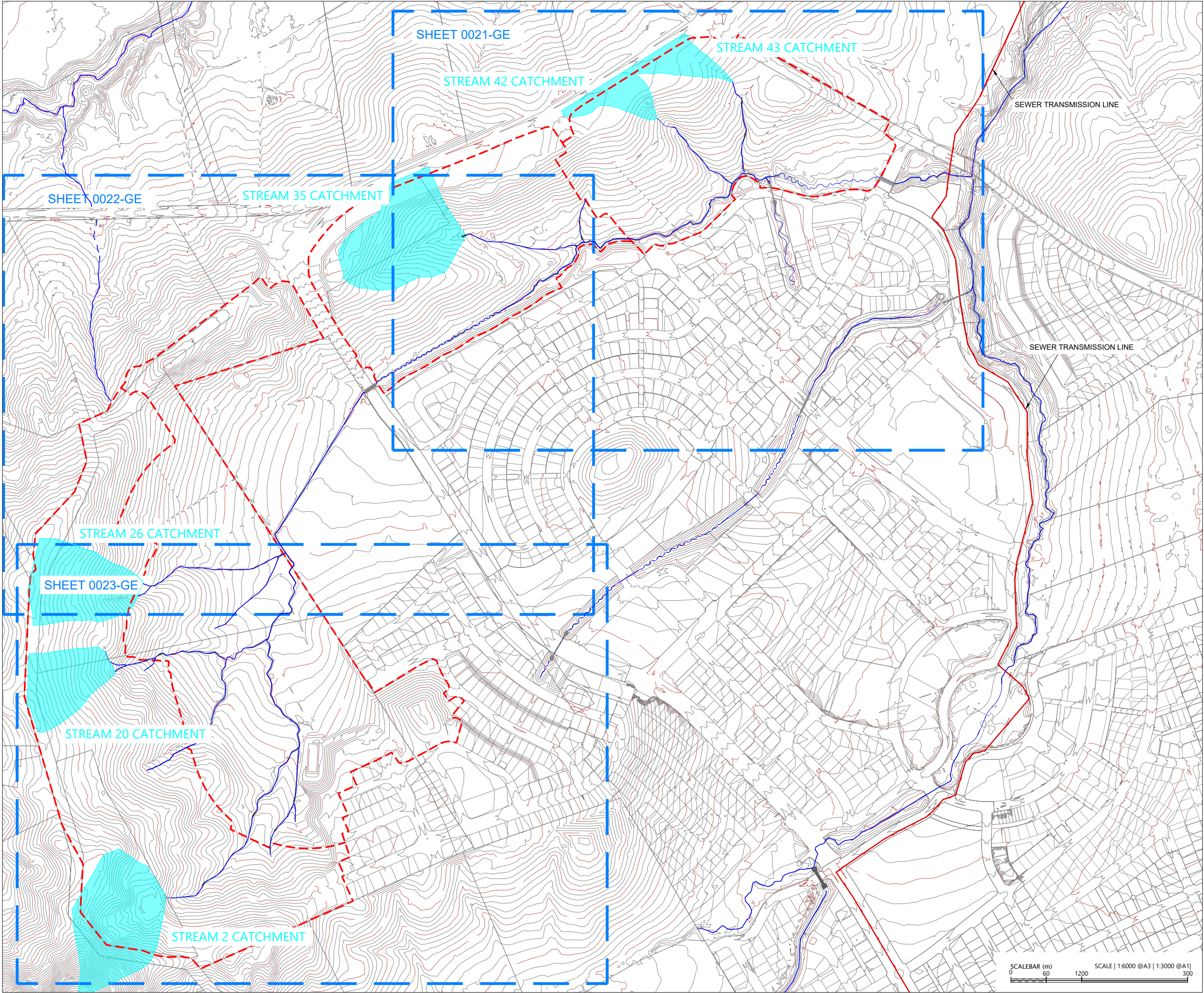
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**MILLDALE
FAST TRACK
STAGES 10 - 13**

**STORMWATER CULVERTS
TYPICAL INSTALLATION PLAN
-ONLINE CULVERT**

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:3000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3076-DR	





Plot Date: 9:53:41 am,24 July 2025, MATTHEWVA

LEGEND:

- WAINUI PRECINCT BOUNDARY
- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARY
- WATERCOURSE
- TRANSMISSION SEWER LINE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	MW	JULY 2025

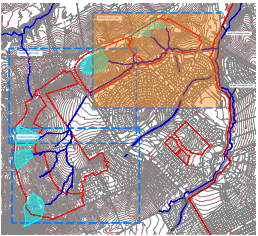
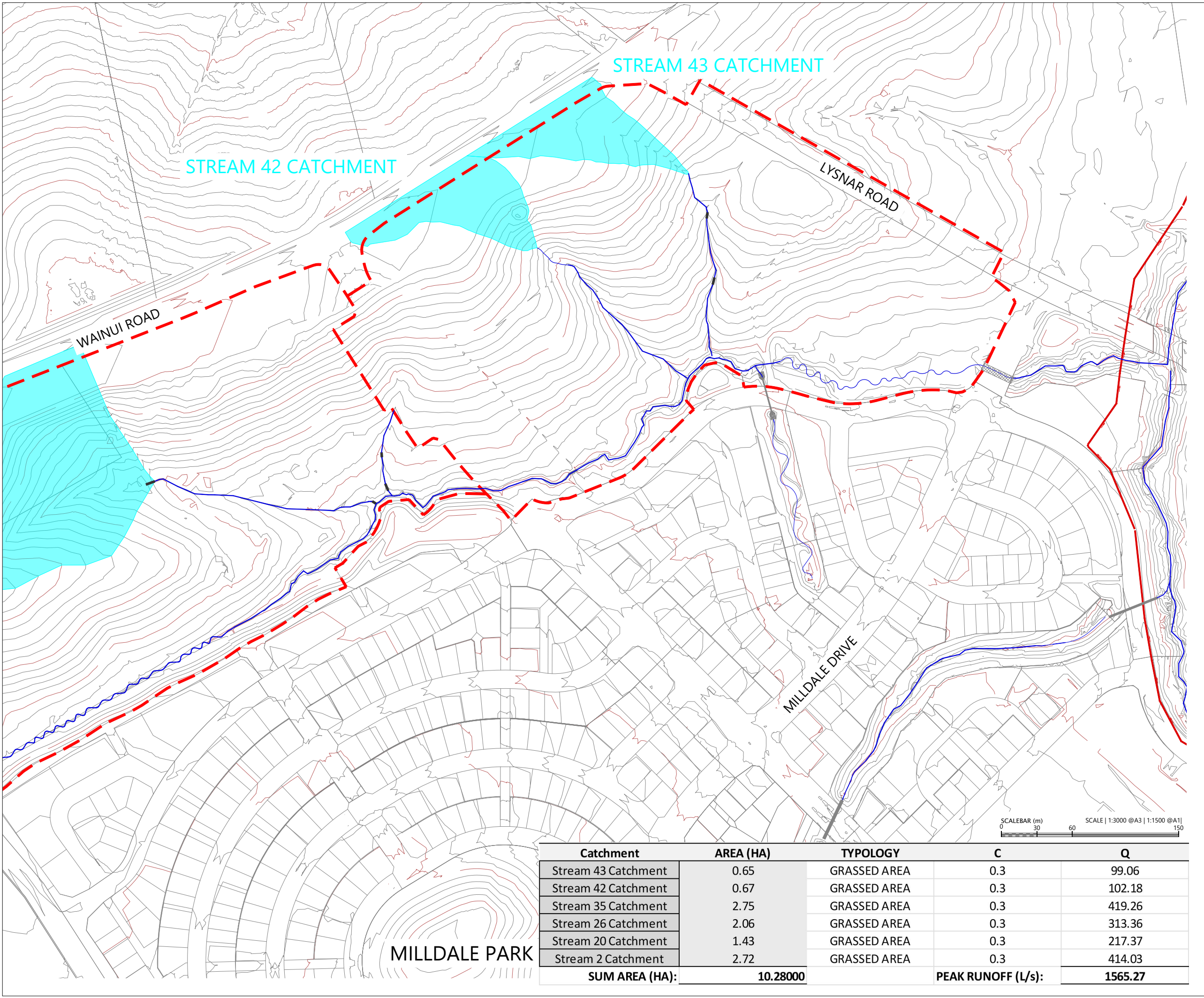
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	JW	
CHECKED	JW	WOODS.CO.NZ
APPROVED	JW	



MILLDALE
FAST TRACK
STAGES 10 - 13
PRE-DEVELOPMENT STREAM
CATCHMENT OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3080-DR	

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LOCALITY PLAN
N.T.S



LEGEND:

- WAINUI PRECINCT BOUNDARY
- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARY
- WATERCOURSE
- TRANSMISSION SEWER LINE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

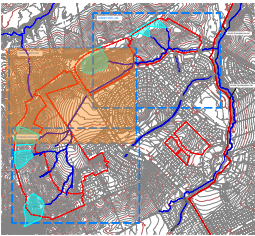
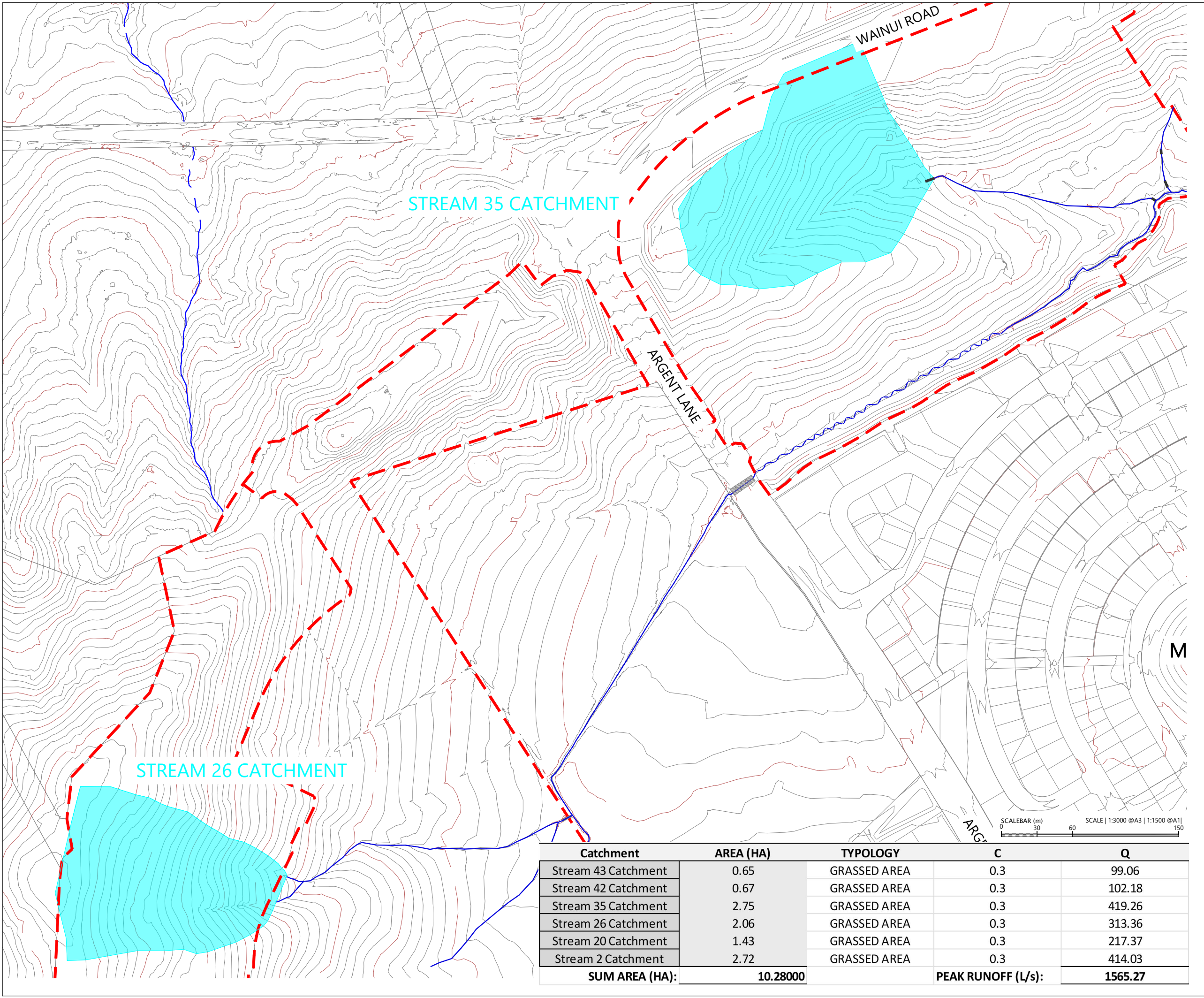
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	JW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ



**MILLDALE
FAST TRACK
STAGES 10 - 13**

**PRE-DEVELOPMENT STREAM
CATCHMENT PLAN
SHEET 1**

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3081-DR	



LOCALITY PLAN
N.T.S



LEGEND:

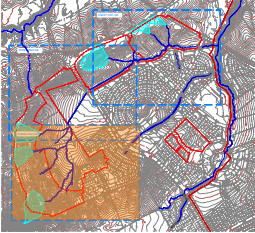
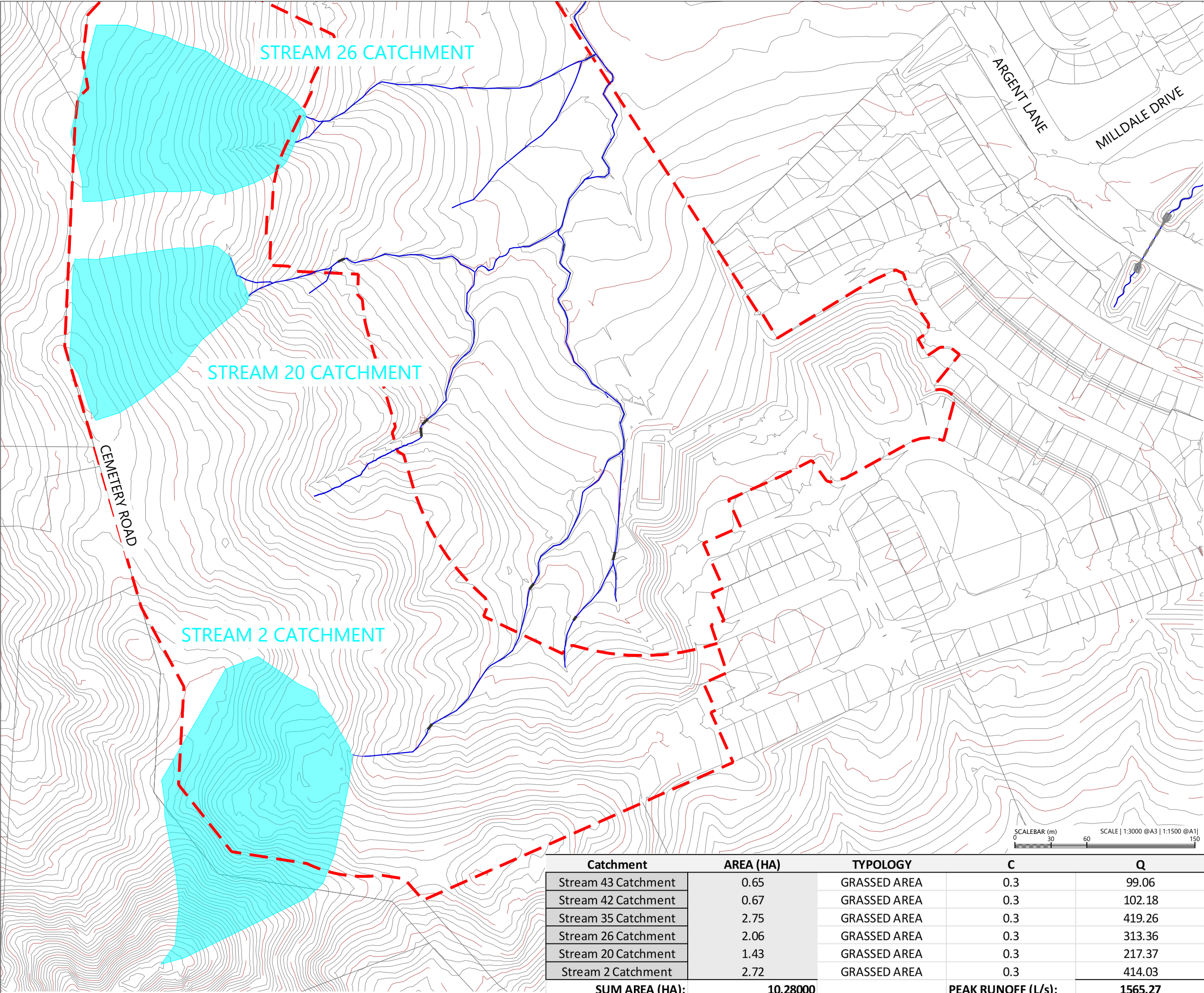
- WAINUI PRECINCT BOUNDARY
- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARY
- WATERCOURSE
- TRANSMISSION SEWER LINE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	JW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
PRE-DEVELOPMENT STREAM
& WETLAND CATCHMENT PLAN
SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3082-DR	



LOCALITY PLAN
N.T.S



LEGEND:

WAINUI PRECINCT BOUNDARY

EXTENTS OF FAST TRACK APPLICATION

BOUNDARY

WATERCOURSE

TRANSMISSION SEWER LINE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

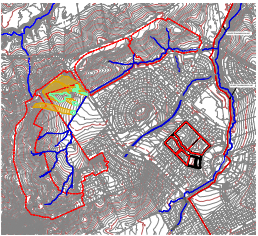
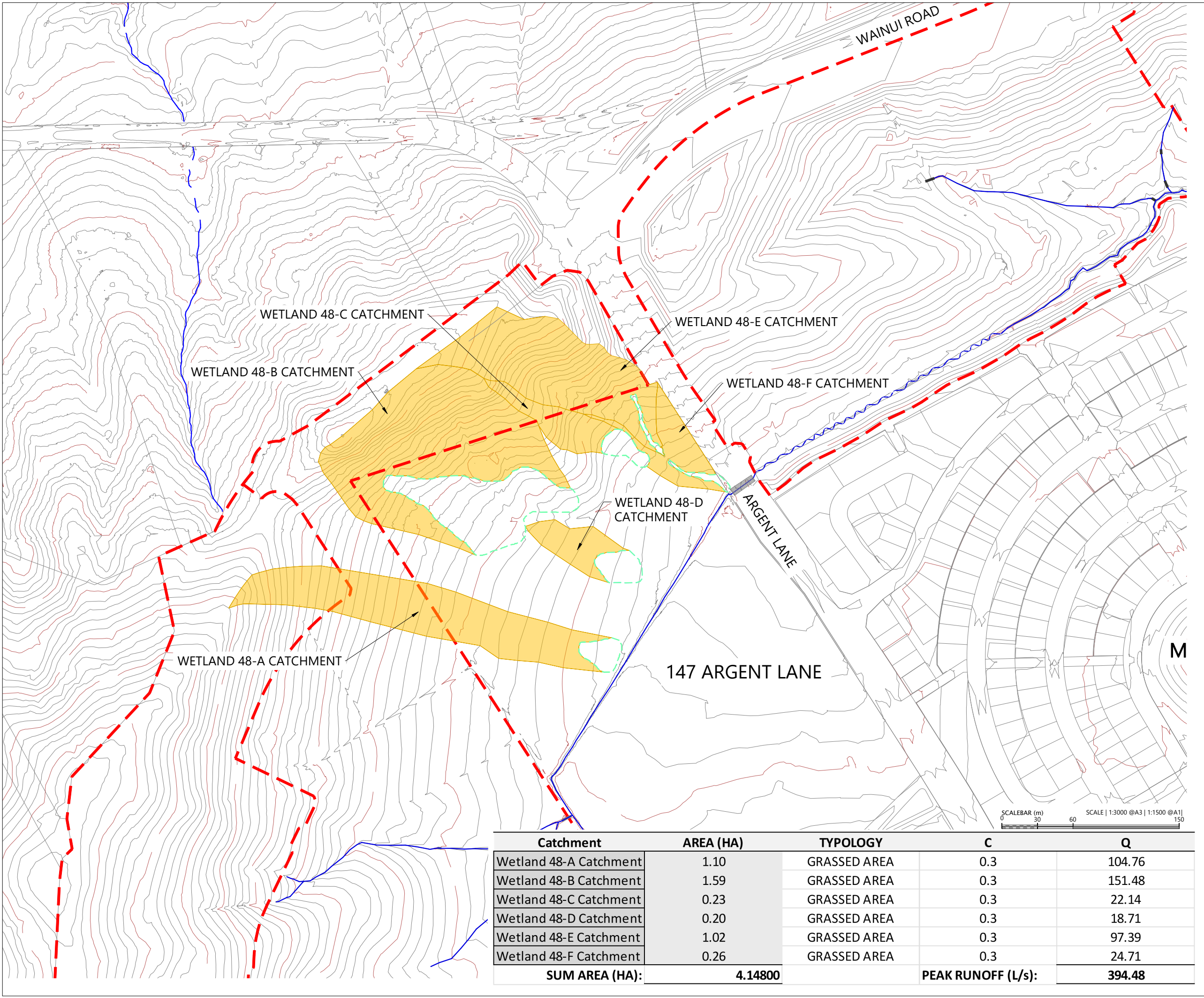
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	JW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
PRE-DEVELOPMENT STREAM
CATCHMENT PLAN
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3083-DR	

Catchment	AREA (HA)	TPOLOGY	C	Q
Stream 43 Catchment	0.65	GRASSED AREA	0.3	99.06
Stream 42 Catchment	0.67	GRASSED AREA	0.3	102.18
Stream 35 Catchment	2.75	GRASSED AREA	0.3	419.26
Stream 26 Catchment	2.06	GRASSED AREA	0.3	313.36
Stream 20 Catchment	1.43	GRASSED AREA	0.3	217.37
Stream 2 Catchment	2.72	GRASSED AREA	0.3	414.03
SUM AREA (HA):	10.28000		PEAK RUNOFF (L/s):	1565.27

Plot Date: 10:49:05 am,24 July 2025, MATTHEWWA
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LOCALITY PLAN
N.T.S



LEGEND:

- WAINUI PRECINCT BOUNDARY
- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARY
- WATERCOURSE
- POTENTIAL WETLAND ON ADJOINING OWNER PROPERTY

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	JW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

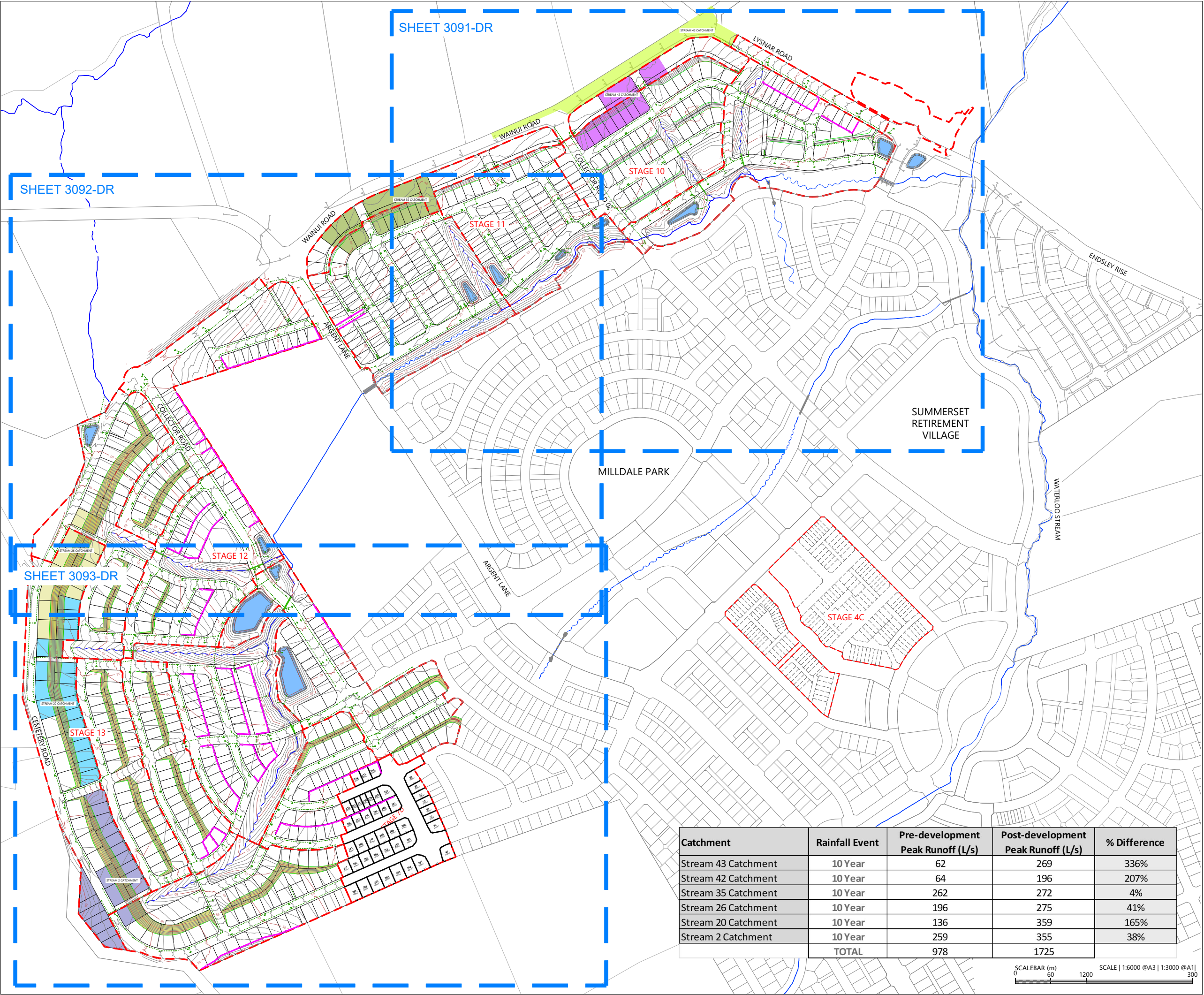
MILLDALE
FAST TRACK
STAGES 10 - 13

147 ARGENT LANE
PRE-DEVELOPMENT
WETLAND CATCHMENT PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3085-DR	



Plot Date: 5:58:14 pm, 5 August 2025, LUCAP
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LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- POST-DEVELOPMENT
STREAM 43 CATCHMENT- 1.11Ha
- POST-DEVELOPMENT
STREAM 42 CATCHMENT- 0.80Ha
- POST-DEVELOPMENT
STREAM 35 CATCHMENT- 1.12Ha
- POST-DEVELOPMENT
STREAM 26 CATCHMENT- 1.13Ha
- POST-DEVELOPMENT
STREAM 20 CATCHMENT- 1.47Ha
- POST-DEVELOPMENT
STREAM 2 CATCHMENT- 1.46Ha

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

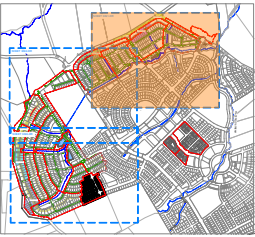
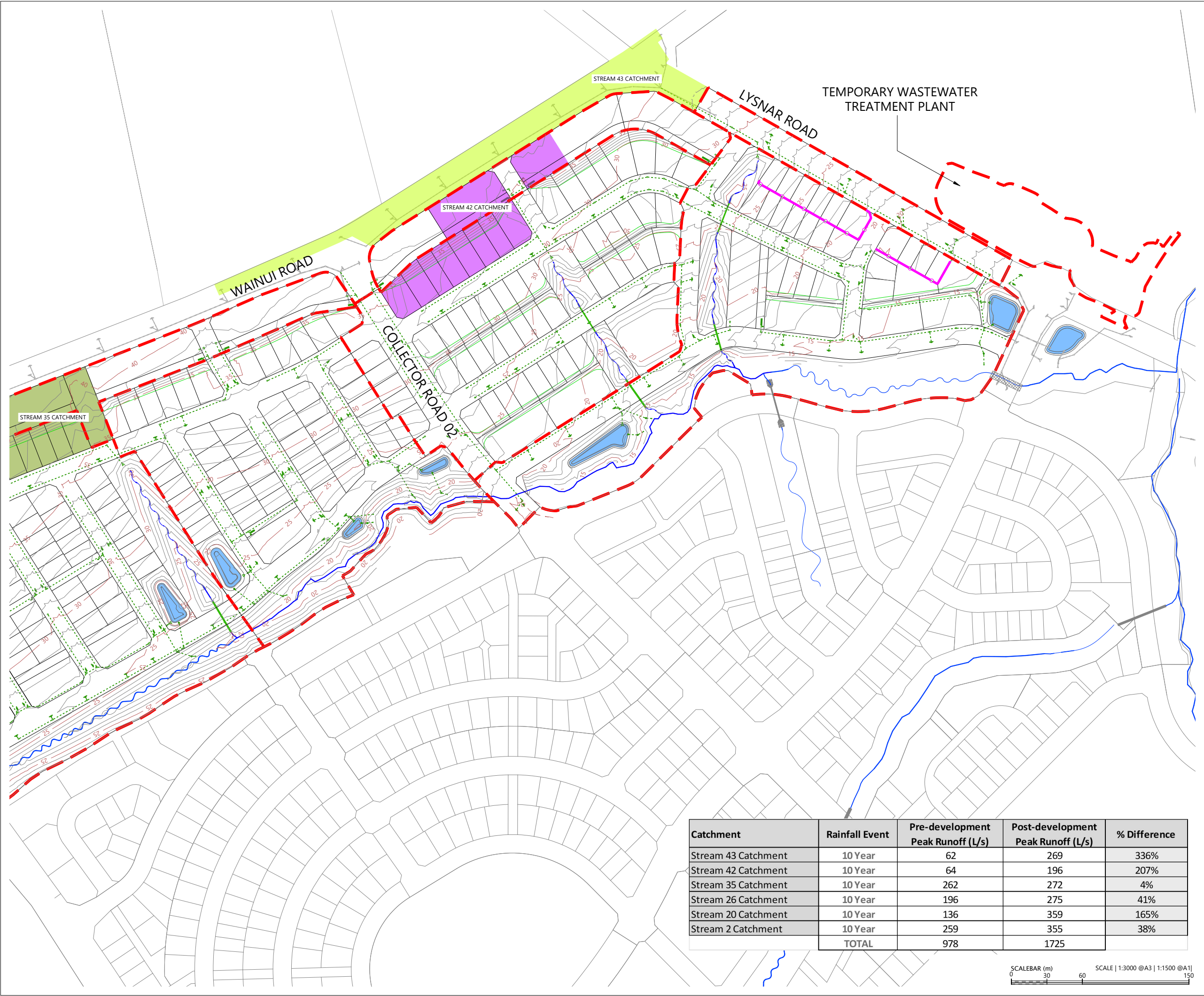
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DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
POST-DEVELOPMENT
STREAM CATCHMENT
OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3090-DR	

Catchment	Rainfall Event	Pre-development Peak Runoff (L/s)	Post-development Peak Runoff (L/s)	% Difference
Stream 43 Catchment	10 Year	62	269	336%
Stream 42 Catchment	10 Year	64	196	207%
Stream 35 Catchment	10 Year	262	272	4%
Stream 26 Catchment	10 Year	196	275	41%
Stream 20 Catchment	10 Year	136	359	165%
Stream 2 Catchment	10 Year	259	355	38%
	TOTAL	978	1725	





LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- POST-DEVELOPMENT
STREAM 43 CATCHMENT- 1.11Ha
- POST-DEVELOPMENT
STREAM 42 CATCHMENT- 0.80Ha
- POST-DEVELOPMENT
STREAM 35 CATCHMENT- 1.12Ha
- POST-DEVELOPMENT
STREAM 26 CATCHMENT- 1.13Ha
- POST-DEVELOPMENT
STREAM 20 CATCHMENT- 1.47Ha
- POST-DEVELOPMENT
STREAM 2 CATCHMENT- 1.46Ha

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

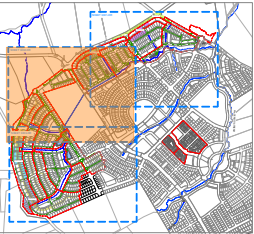
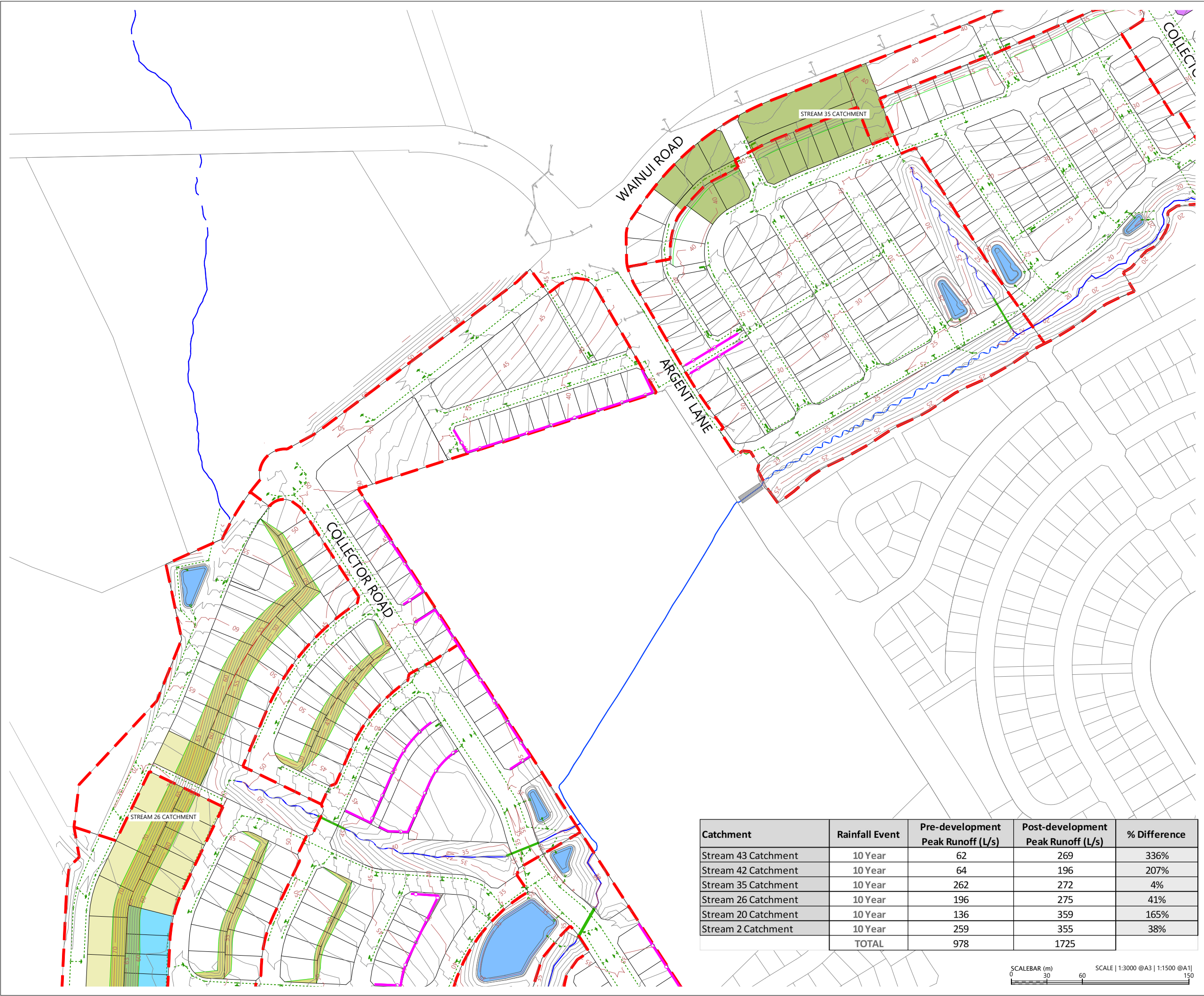
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	

MILLDALE
FAST TRACK
STAGES 10 - 13
POST-DEVELOPMENT STREAM
CATCHMENT PLAN
SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3091-DR	

Catchment	Rainfall Event	Pre-development Peak Runoff (L/s)	Post-development Peak Runoff (L/s)	% Difference
Stream 43 Catchment	10 Year	62	269	336%
Stream 42 Catchment	10 Year	64	196	207%
Stream 35 Catchment	10 Year	262	272	4%
Stream 26 Catchment	10 Year	196	275	41%
Stream 20 Catchment	10 Year	136	359	165%
Stream 2 Catchment	10 Year	259	355	38%
	TOTAL	978	1725	





LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- POST-DEVELOPMENT
STREAM 43 CATCHMENT- 1.11Ha
- POST-DEVELOPMENT
STREAM 42 CATCHMENT- 0.80Ha
- POST-DEVELOPMENT
STREAM 35 CATCHMENT- 1.12Ha
- POST-DEVELOPMENT
STREAM 26 CATCHMENT- 1.13Ha
- POST-DEVELOPMENT
STREAM 20 CATCHMENT- 1.47Ha
- POST-DEVELOPMENT
STREAM 2 CATCHMENT- 1.46Ha

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

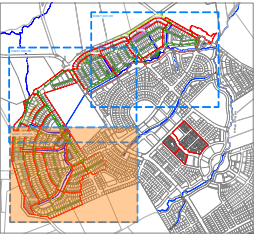
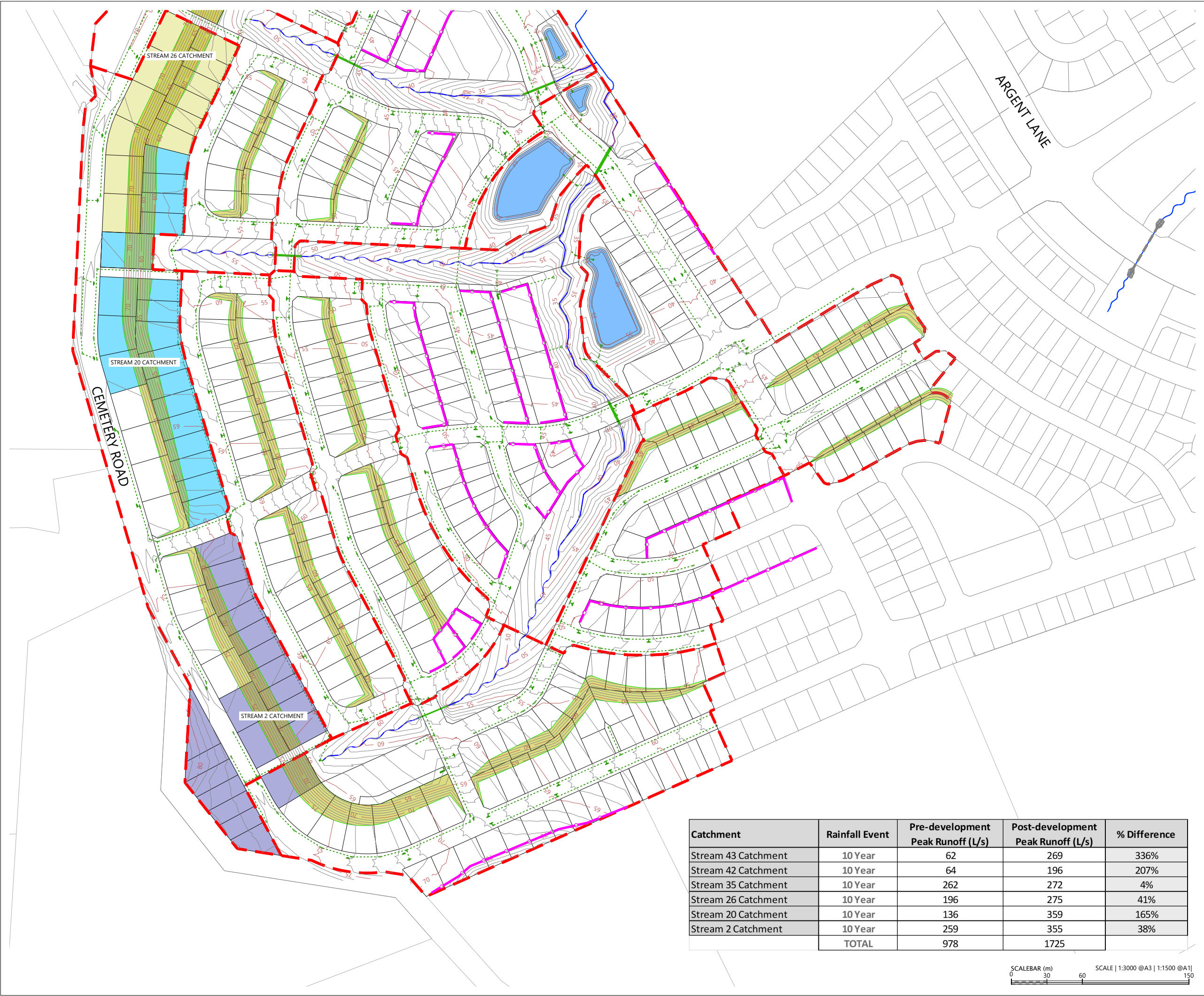
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
POST-DEVELOPMENT STREAM
CATCHMENT PLAN
SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3092-DR	

Catchment	Rainfall Event	Pre-development Peak Runoff (L/s)	Post-development Peak Runoff (L/s)	% Difference
Stream 43 Catchment	10 Year	62	269	336%
Stream 42 Catchment	10 Year	64	196	207%
Stream 35 Catchment	10 Year	262	272	4%
Stream 26 Catchment	10 Year	196	275	41%
Stream 20 Catchment	10 Year	136	359	165%
Stream 2 Catchment	10 Year	259	355	38%
	TOTAL	978	1725	





LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- EXISTING SWALE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- POST-DEVELOPMENT
STREAM 43 CATCHMENT- 1.11Ha
- POST-DEVELOPMENT
STREAM 42 CATCHMENT- 0.80Ha
- POST-DEVELOPMENT
STREAM 35 CATCHMENT- 1.12Ha
- POST-DEVELOPMENT
STREAM 26 CATCHMENT- 1.13Ha
- POST-DEVELOPMENT
STREAM 20 CATCHMENT- 1.47Ha
- POST-DEVELOPMENT
STREAM 2 CATCHMENT- 1.46Ha

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	JW	
APPROVED	JW	WOODS.CO.NZ

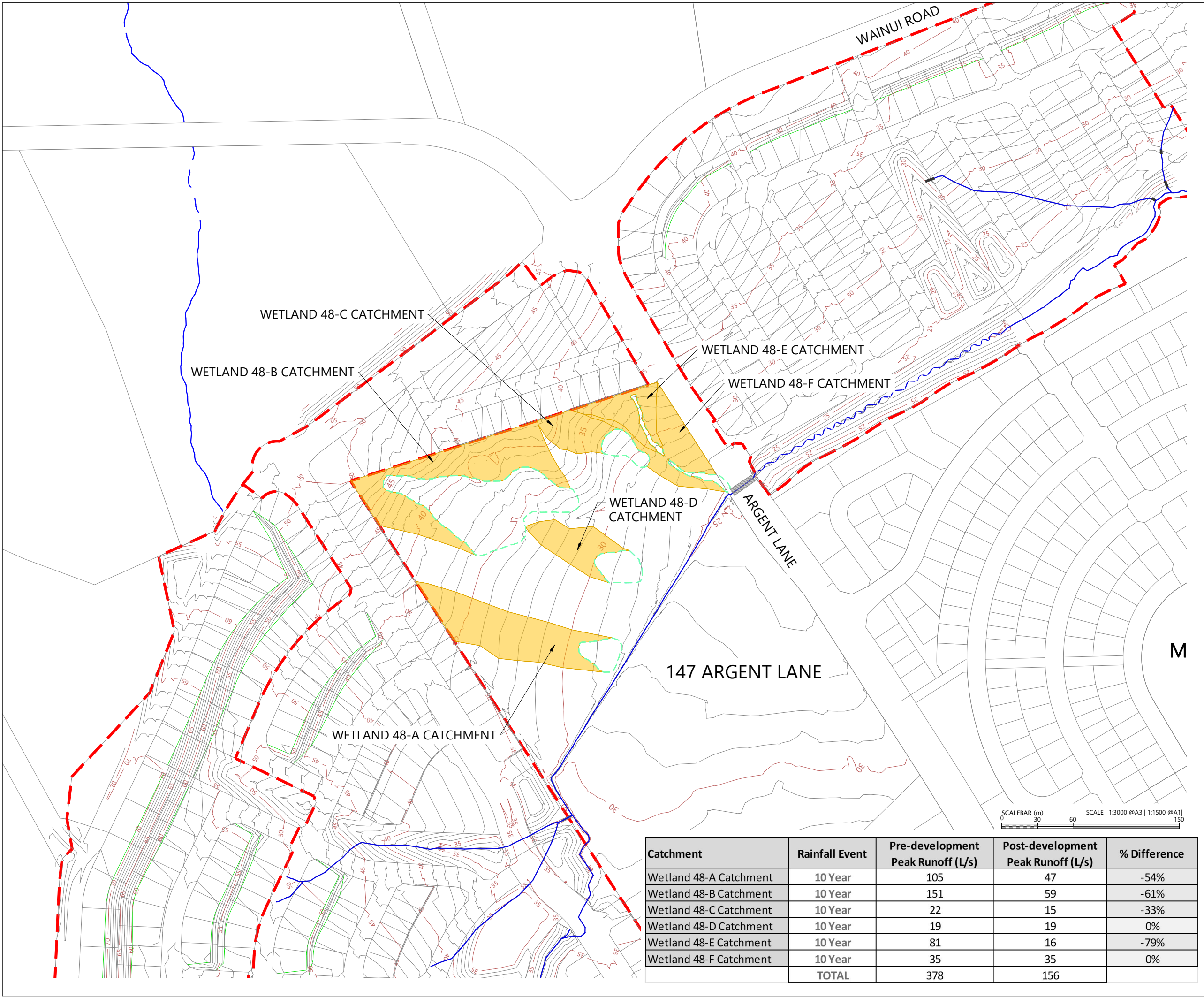


MILLDALE
FAST TRACK
STAGES 10 - 13
POST-DEVELOPMENT STREAM
CATCHMENT PLAN
SHEET 3

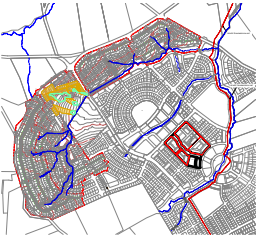
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SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3093-DR	

Catchment	Rainfall Event	Pre-development Peak Runoff (L/s)	Post-development Peak Runoff (L/s)	% Difference
Stream 43 Catchment	10 Year	62	269	336%
Stream 42 Catchment	10 Year	64	196	207%
Stream 35 Catchment	10 Year	262	272	4%
Stream 26 Catchment	10 Year	196	275	41%
Stream 20 Catchment	10 Year	136	359	165%
Stream 2 Catchment	10 Year	259	355	38%
	TOTAL	978	1725	





Catchment	Rainfall Event	Pre-development Peak Runoff (L/s)	Post-development Peak Runoff (L/s)	% Difference
Wetland 48-A Catchment	10 Year	105	47	-54%
Wetland 48-B Catchment	10 Year	151	59	-61%
Wetland 48-C Catchment	10 Year	22	15	-33%
Wetland 48-D Catchment	10 Year	19	19	0%
Wetland 48-E Catchment	10 Year	81	16	-79%
Wetland 48-F Catchment	10 Year	35	35	0%
TOTAL		378	156	



LOCALITY PLAN
N.T.S



LEGEND:

WAINUI PRECINCT BOUNDARY
EXTENTS OF FAST TRACK APPLICATION
BOUNDARY
WATERCOURSE
POTENTIAL WETLAND ON ADJOINING OWNER PROPERTY

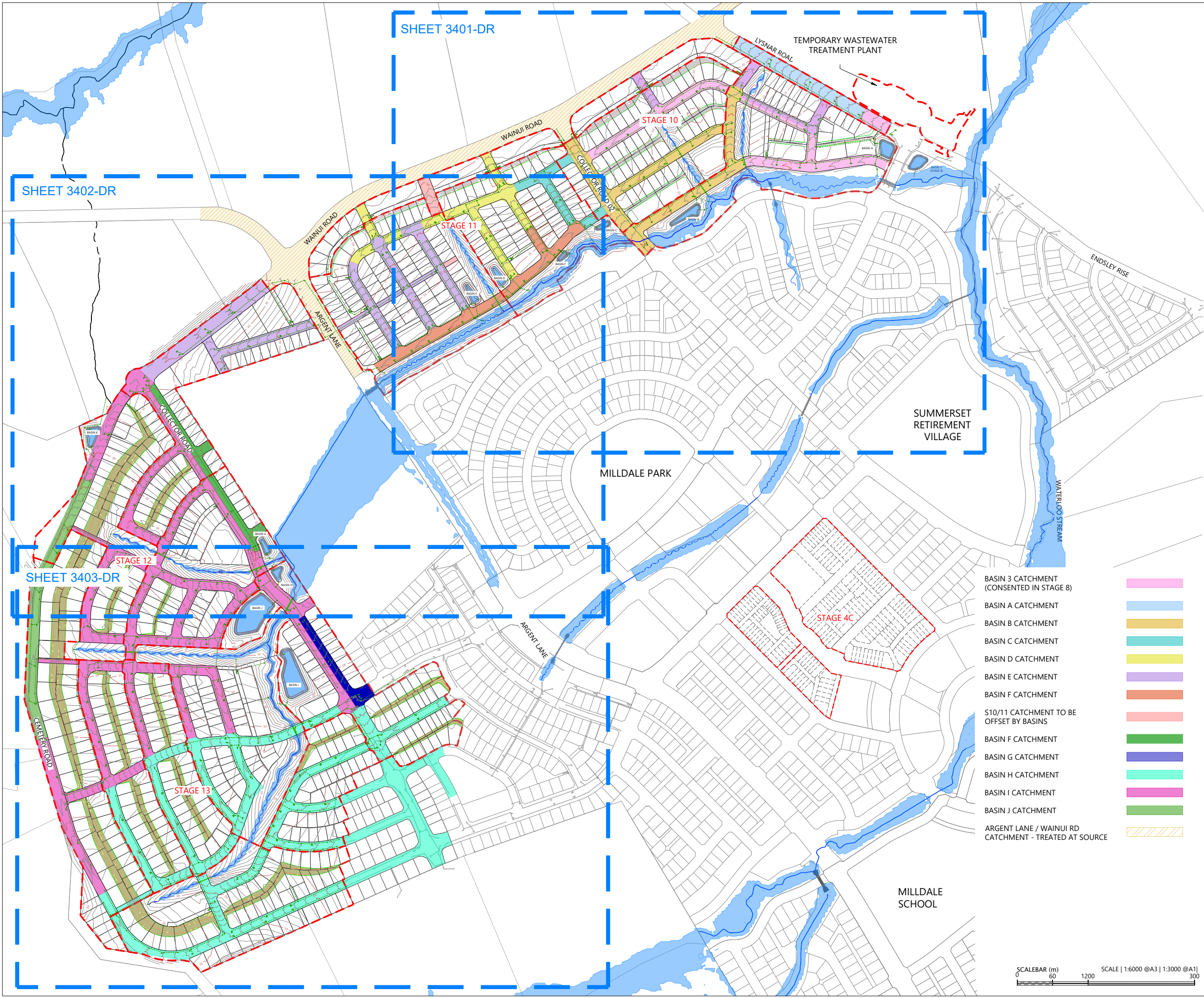
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	JW	
CHECKED	AP	
APPROVED	JW	
		WOODS.CO.NZ

**MILLDALE
FAST TRACK
STAGES 10 - 13**

**147 ARGENT LANE
POST-DEVELOPMENT
WETLAND CATCHMENT PLAN**

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3095-DR	



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

- STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	WOODS.CO.NZ



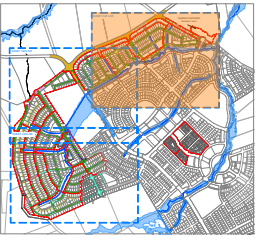
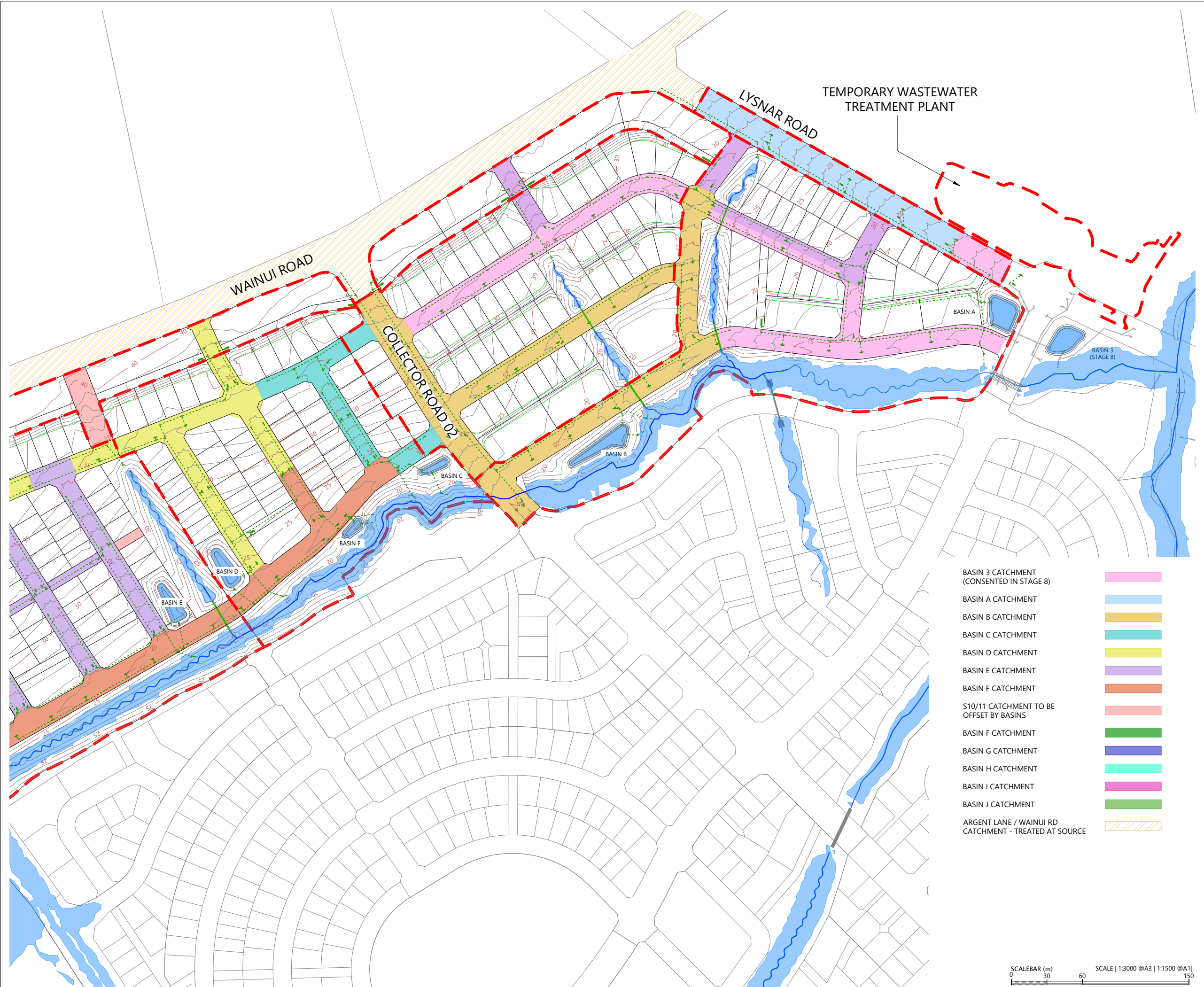
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MILLDALE
Connecting Lives & Places

**MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRY BASIN
& CATCHMENT PLAN
OVERALL PLAN**

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3400-DR	



LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

- 1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

- BASIN 3 CATCHMENT (CONSENTED IN STAGE 8)
- BASIN A CATCHMENT
- BASIN B CATCHMENT
- BASIN C CATCHMENT
- BASIN D CATCHMENT
- BASIN E CATCHMENT
- BASIN F CATCHMENT
- S10/11 CATCHMENT TO BE OFFSET BY BASINS
- BASIN F CATCHMENT
- BASIN G CATCHMENT
- BASIN H CATCHMENT
- BASIN I CATCHMENT
- BASIN J CATCHMENT
- ARGENT LANE / WAINUI RD CATCHMENT - TREATED AT SOURCE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

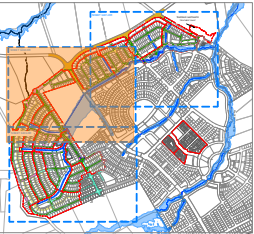
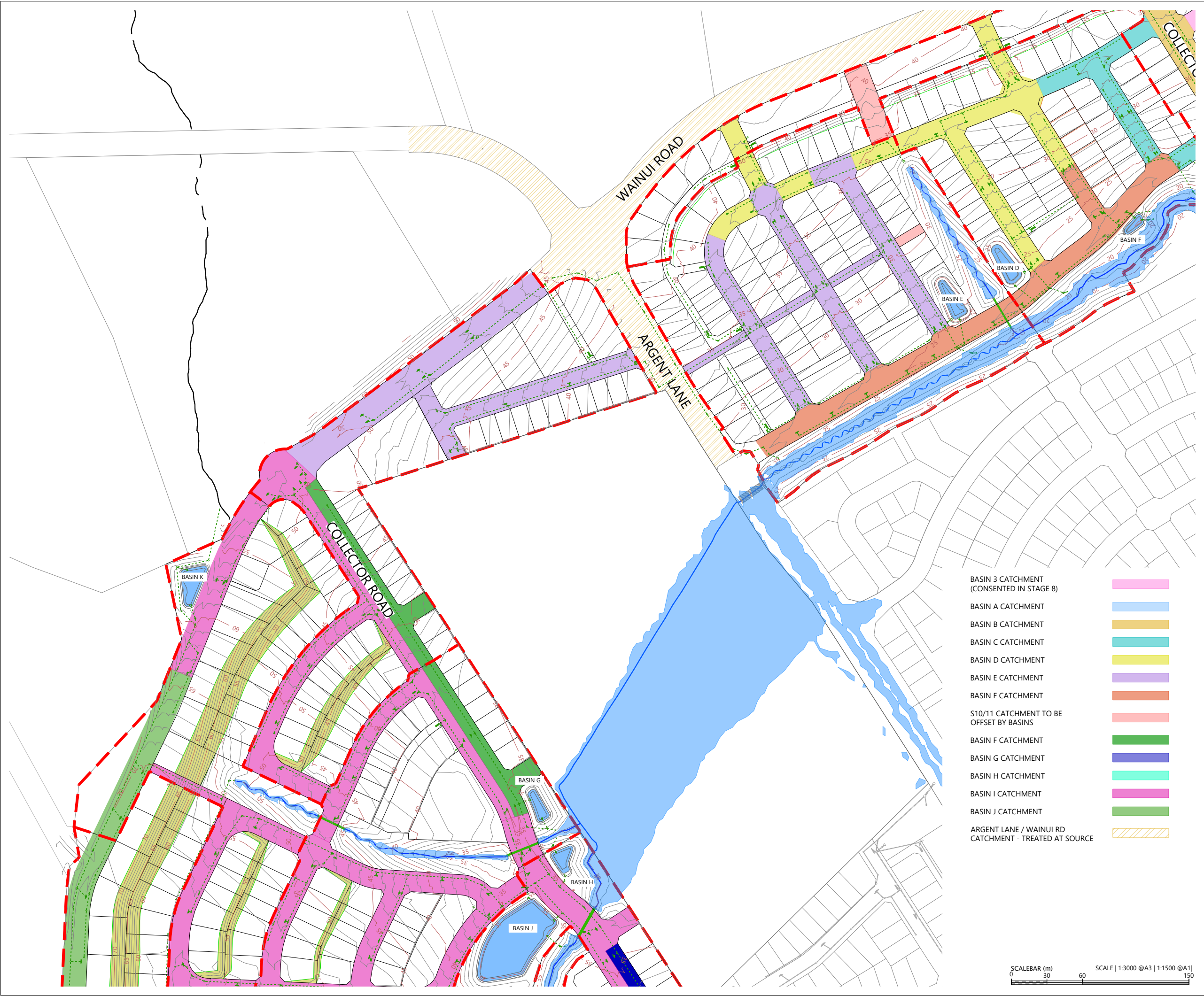
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	

Connecting Lives & Land

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRY BASIN
& CATCHMENT PLAN
SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3401-DR	





LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

- BASIN 3 CATCHMENT (CONSENTED IN STAGE 8)
- BASIN A CATCHMENT
- BASIN B CATCHMENT
- BASIN C CATCHMENT
- BASIN D CATCHMENT
- BASIN E CATCHMENT
- BASIN F CATCHMENT
- S10/11 CATCHMENT TO BE OFFSET BY BASINS
- BASIN F CATCHMENT
- BASIN G CATCHMENT
- BASIN H CATCHMENT
- BASIN I CATCHMENT
- BASIN J CATCHMENT
- ARGENT LANE / WAINUI RD CATCHMENT - TREATED AT SOURCE

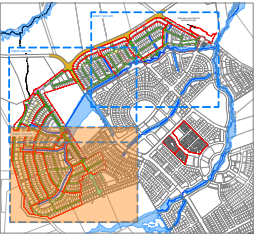
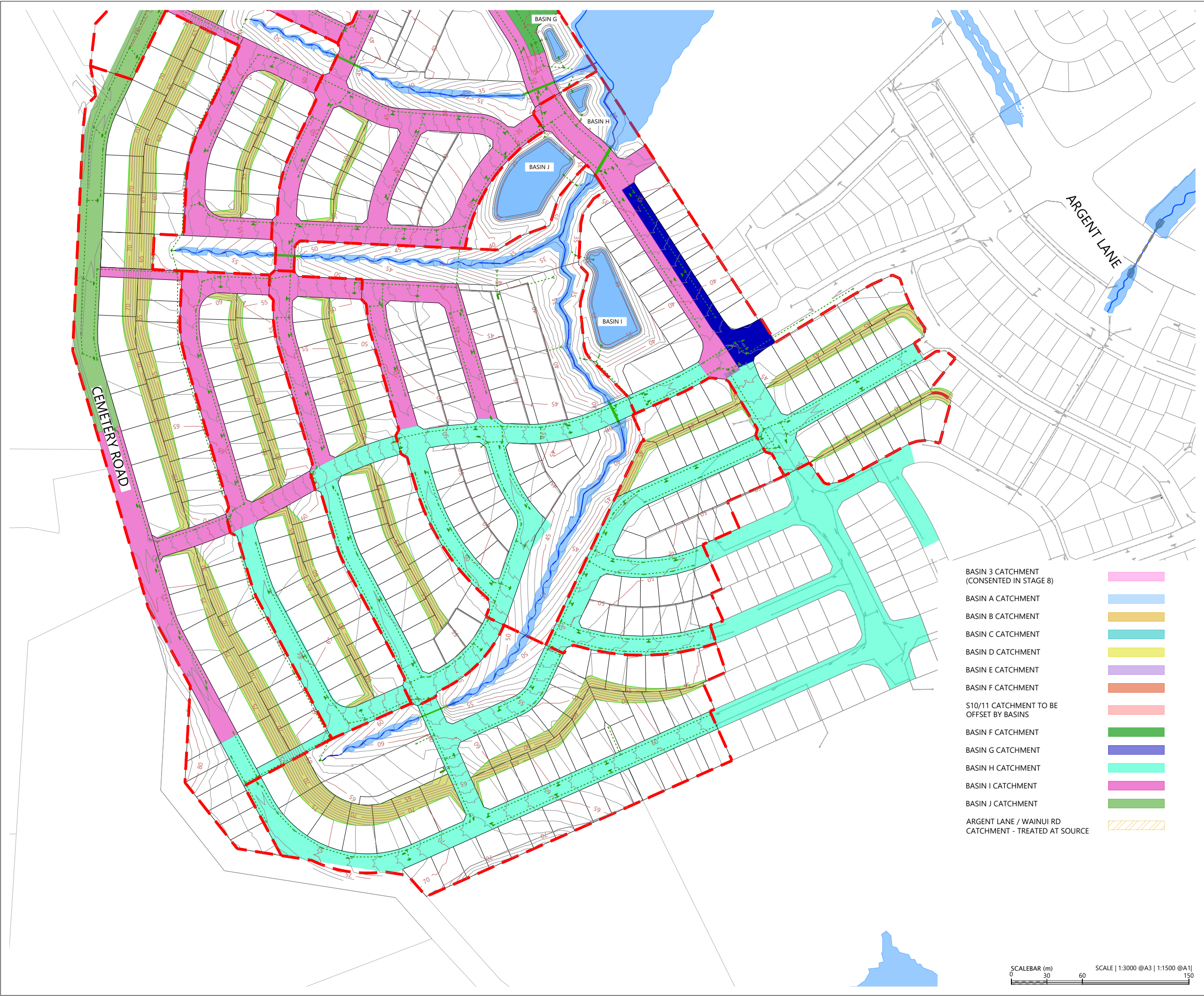
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	WOODS.CO.NZ

MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRY BASIN
& CATCHMENT PLAN
SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3402-DR	





LOCALITY PLAN
N.T.S



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE (SUBJECT TO ECOLOGY)
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED STORMWATER
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN

NOTES

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- BASIN 3 CATCHMENT (CONSENTED IN STAGE 8)
- BASIN A CATCHMENT
- BASIN B CATCHMENT
- BASIN C CATCHMENT
- BASIN D CATCHMENT
- BASIN E CATCHMENT
- BASIN F CATCHMENT
- S10/11 CATCHMENT TO BE OFFSET BY BASINS
- BASIN F CATCHMENT
- BASIN G CATCHMENT
- BASIN H CATCHMENT
- BASIN I CATCHMENT
- BASIN J CATCHMENT
- ARGENT LANE / WAINUI RD CATCHMENT - TREATED AT SOURCE

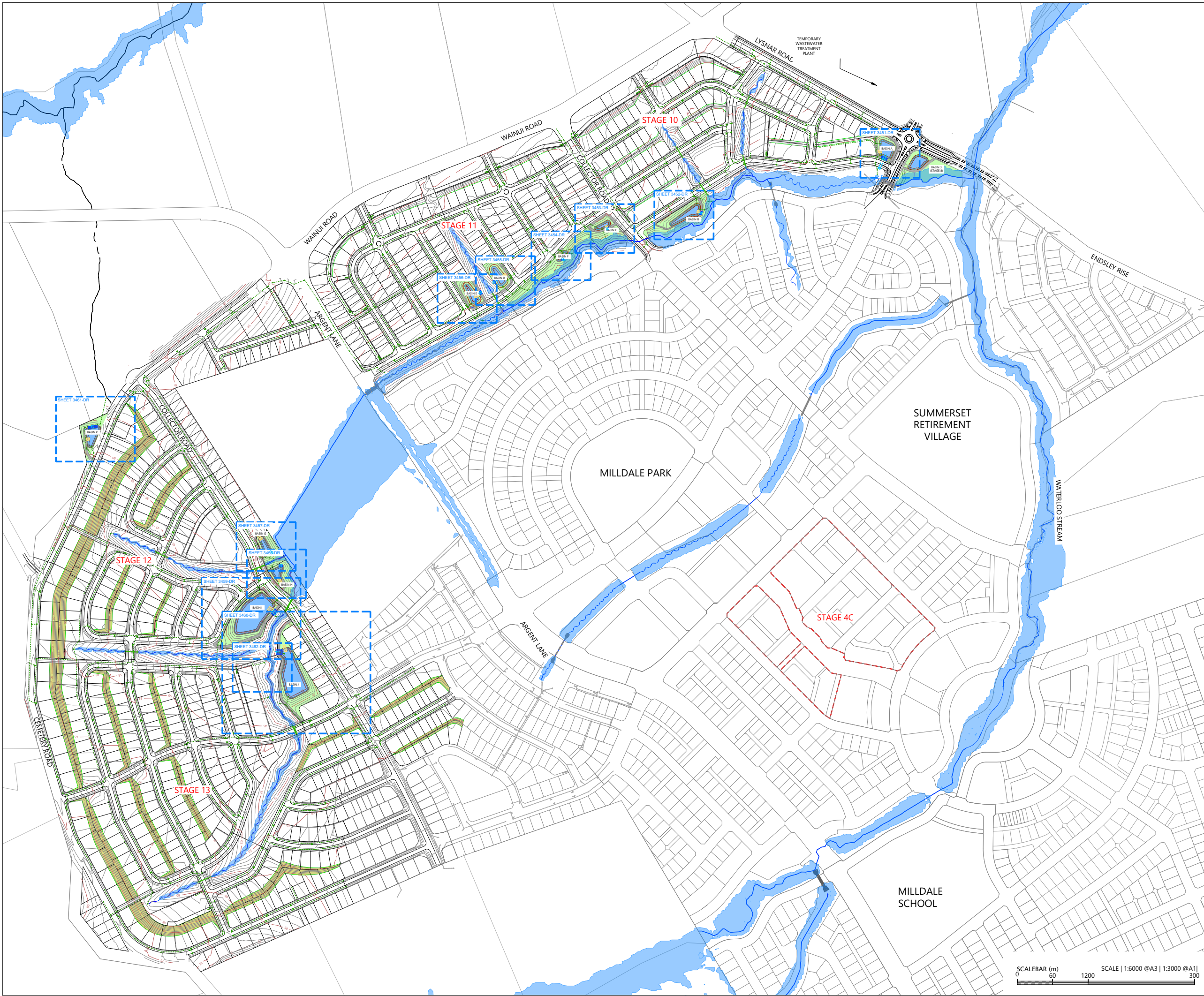
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	JW	FEB 2025
2	ISSUED FOR CONSENT	JW	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	FA	
CHECKED	JW	
APPROVED	JW	WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRY BASIN
& CATCHMENT PLAN
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:3000 @ A3	2
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3403-DR	



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE
- DESIGN CONTOURS (1m INTERVAL)
- STORMWATER (SUBJECT TO EPA)
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN
- REINFORCED MAINTENANCE PATH

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ



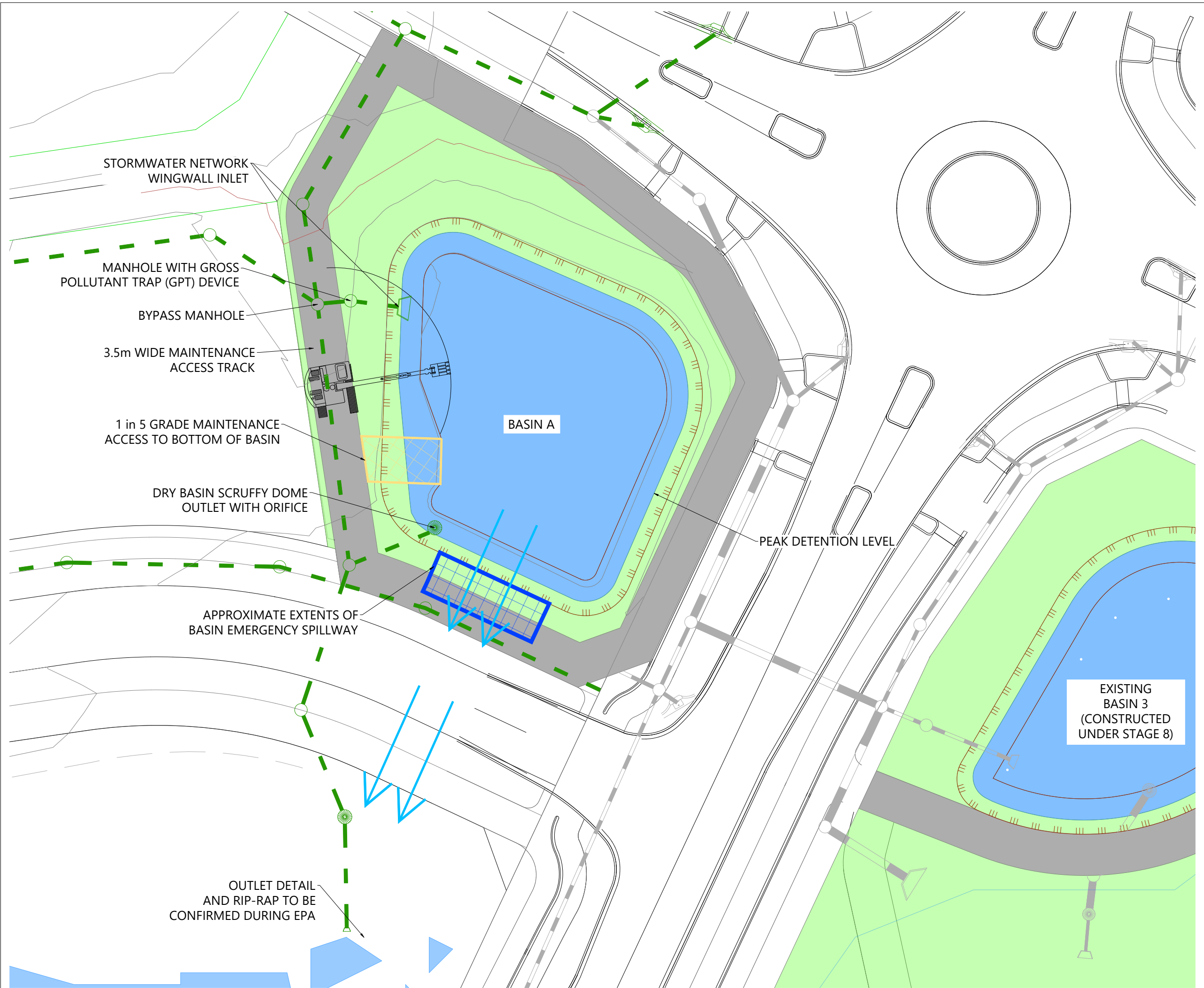
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


MILLDALE
Connecting Lives & Land

**MILLDALE
FAST TRACK
STAGES 10 - 13
STORMWATER DRY BASIN
& CATCHMENT PLAN
OVERALL PLAN**

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:6000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3450-DR	

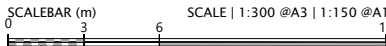


LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

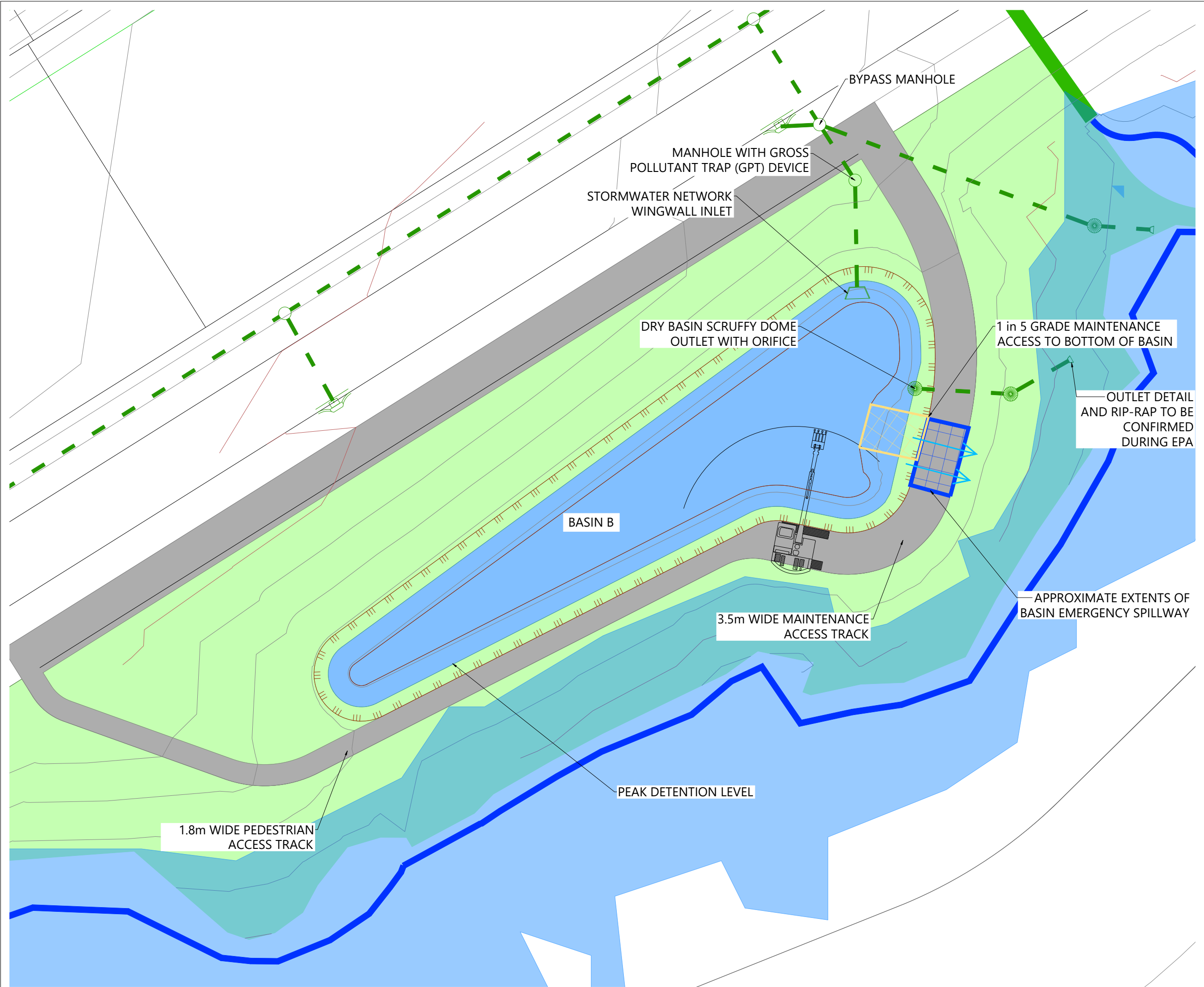
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ

	 MILLDALE Connecting Lifespaces
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**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN A

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3451-DR	



LEGEND

- EXTENTS OF FAST TRACK APPLICATION
- BOUNDARIES
- WATERCOURSE
- DESIGN CONTOURS (1m INTERVAL)
- STORMWATER (SUBJECT TO EPA)
- EXISTING STORMWATER
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER DRY BASIN
- REINFORCED MAINTENANCE PATH

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

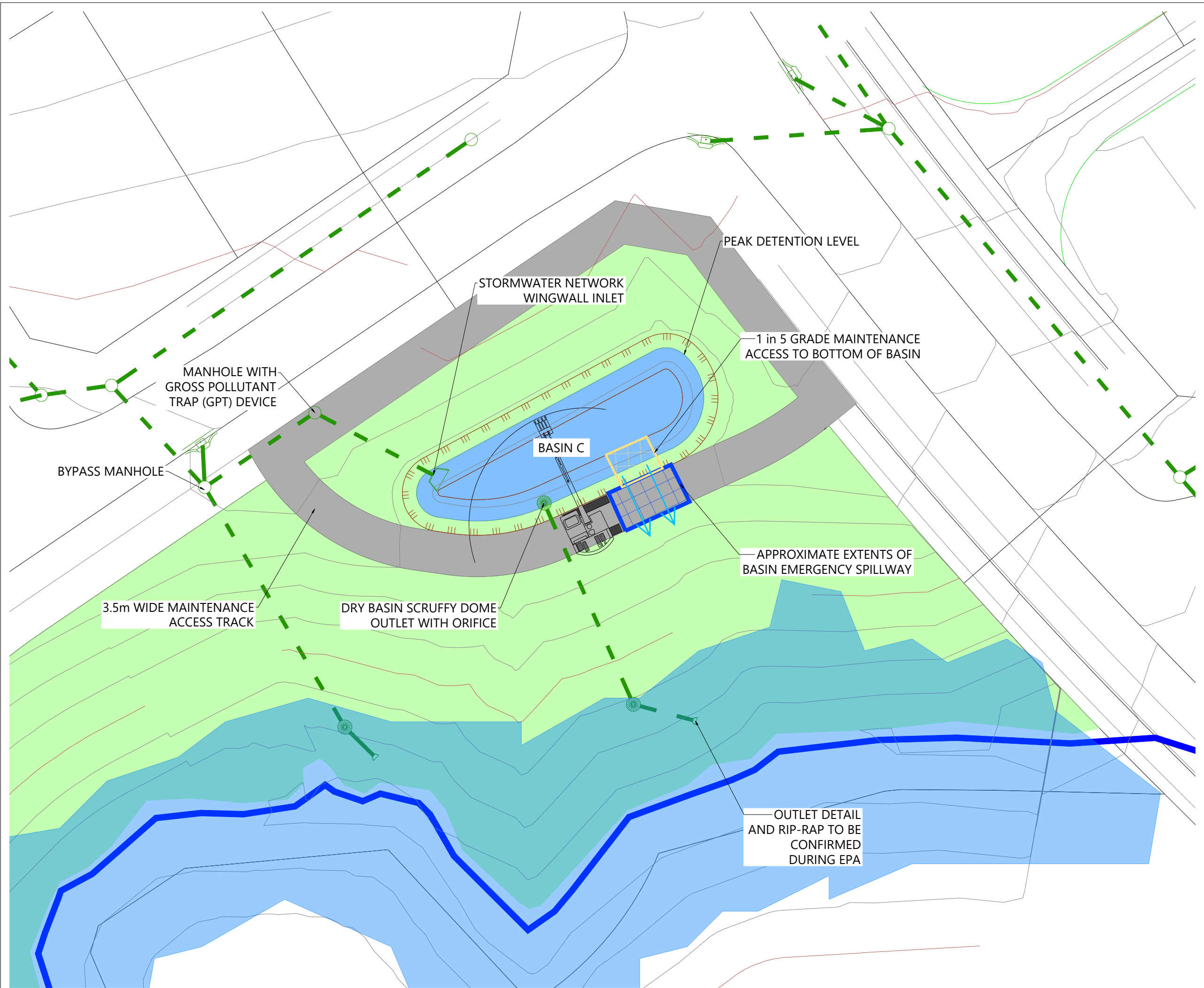
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ










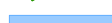


**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN B

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3452-DR	

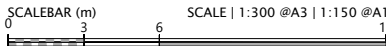


LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	



N

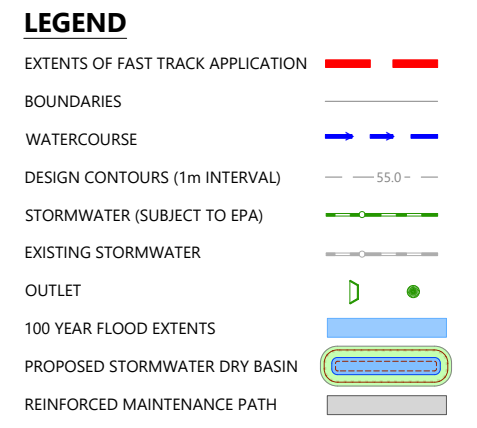


MILLDALE
Connecting Lifespaces

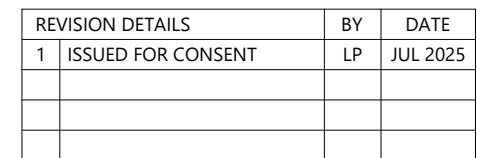
**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN C

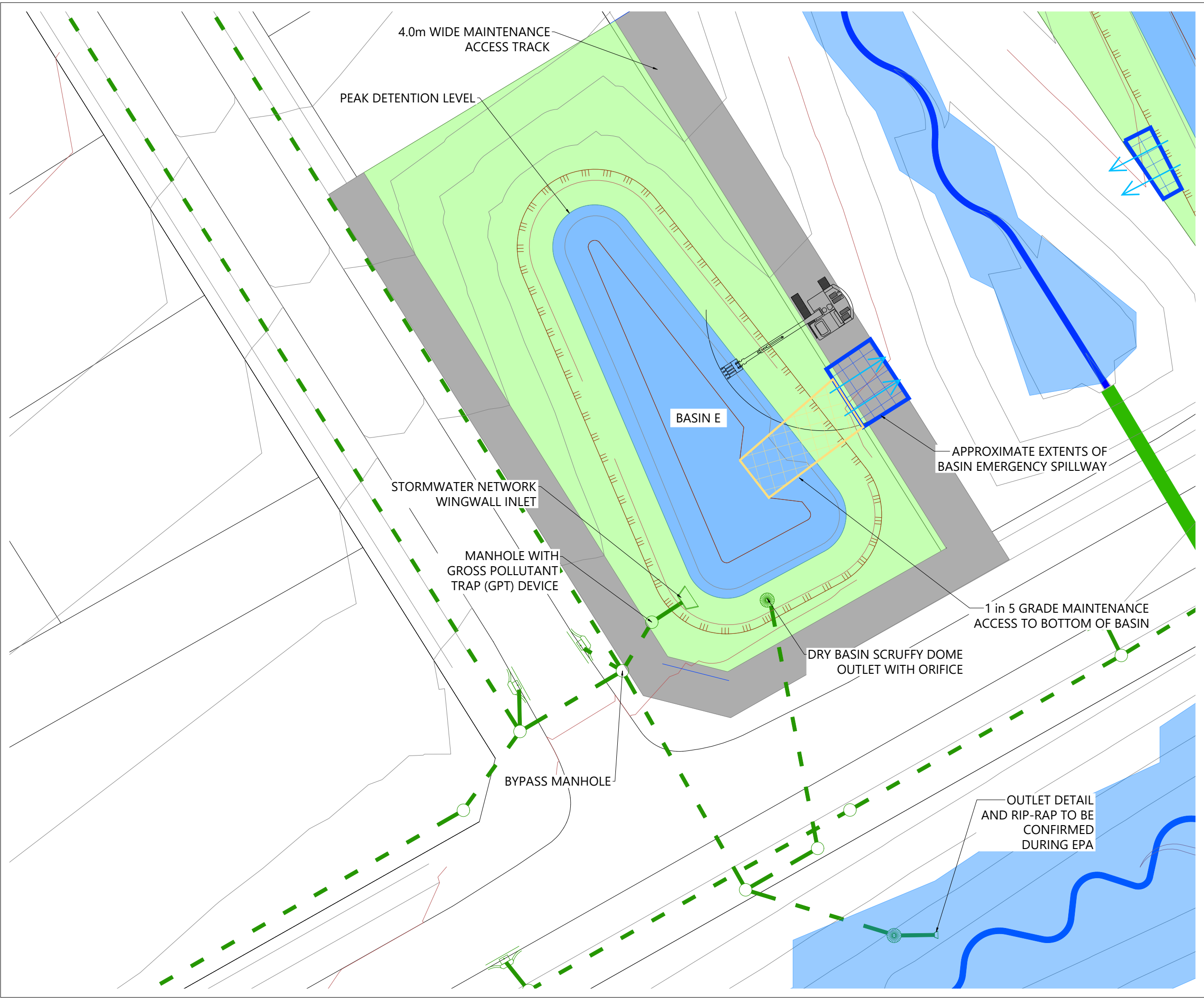
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SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3453-DR	













1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3454-DR	



LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

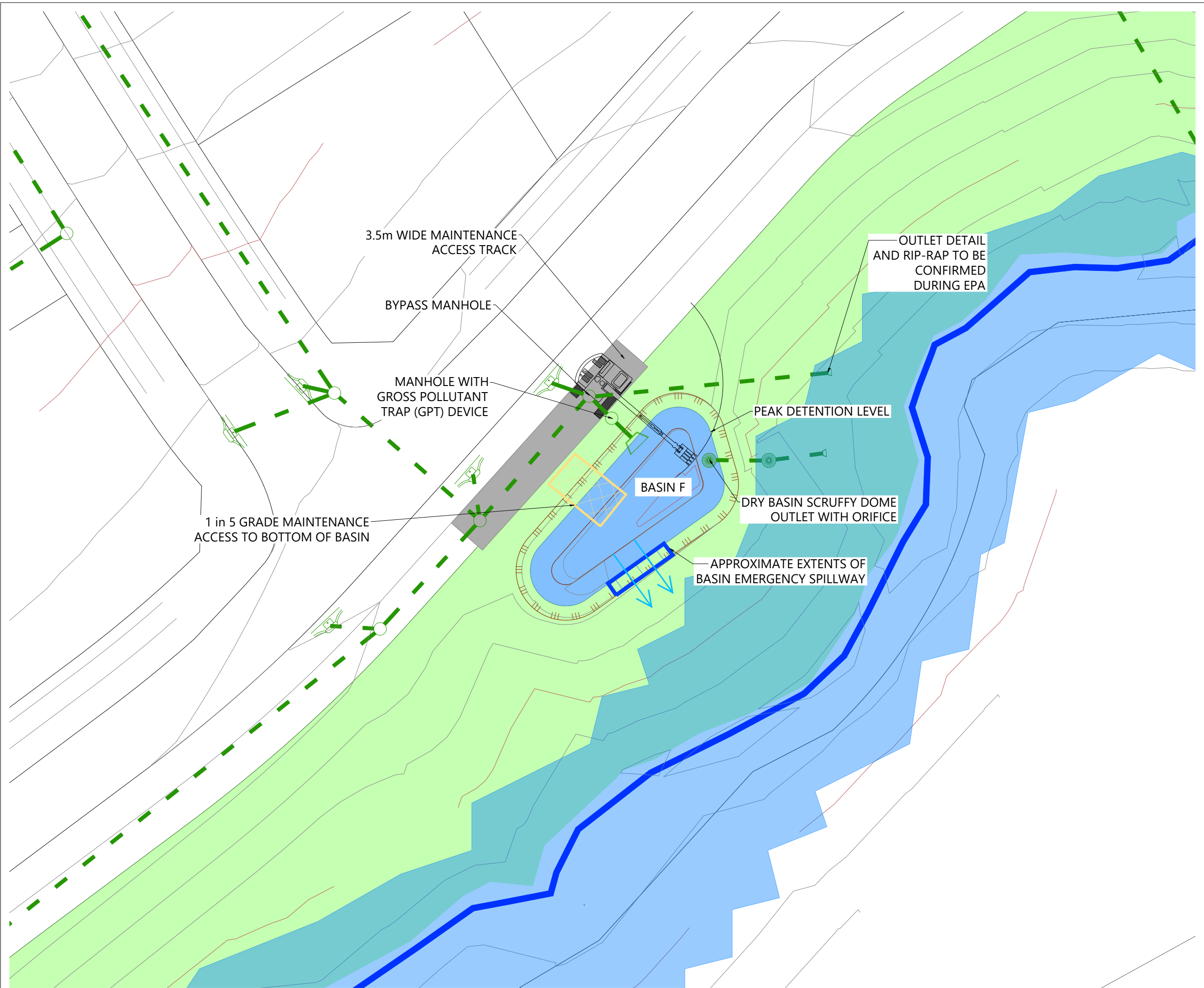
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ










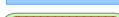
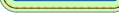

**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN E

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3455-DR	

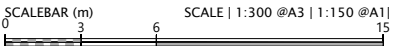


LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ










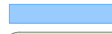
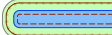
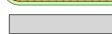
MILLDALE
FAST TRACK
STAGES 10 - 13

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN F

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3456-DR	

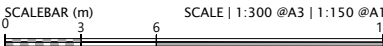


LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	WOODS.CO.NZ













**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN G

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3457-DR	



LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	LP	JUL 2025

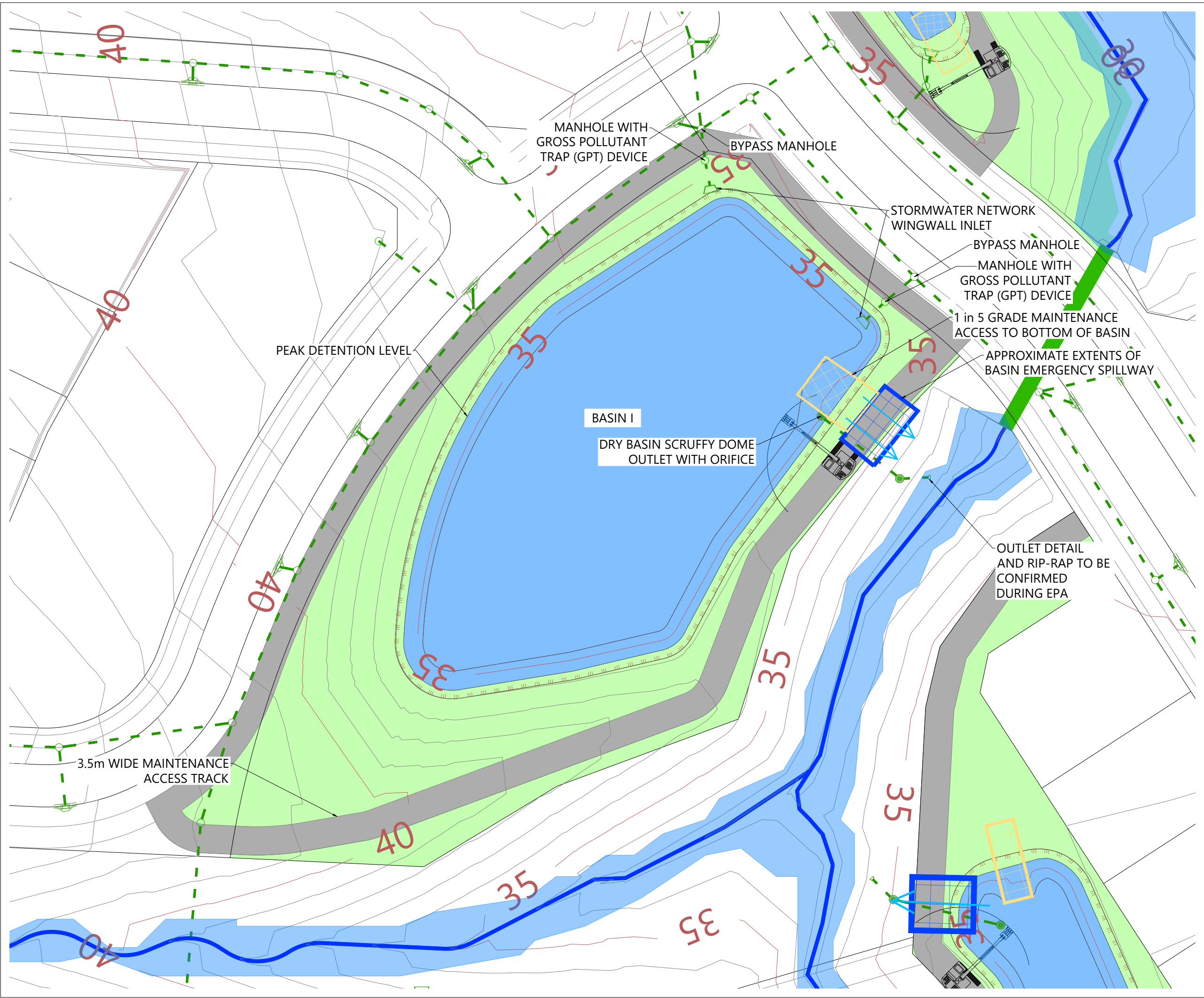
SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ













**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN H

STATUS	ISSUED FOR RFI	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3458-DR	



LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ



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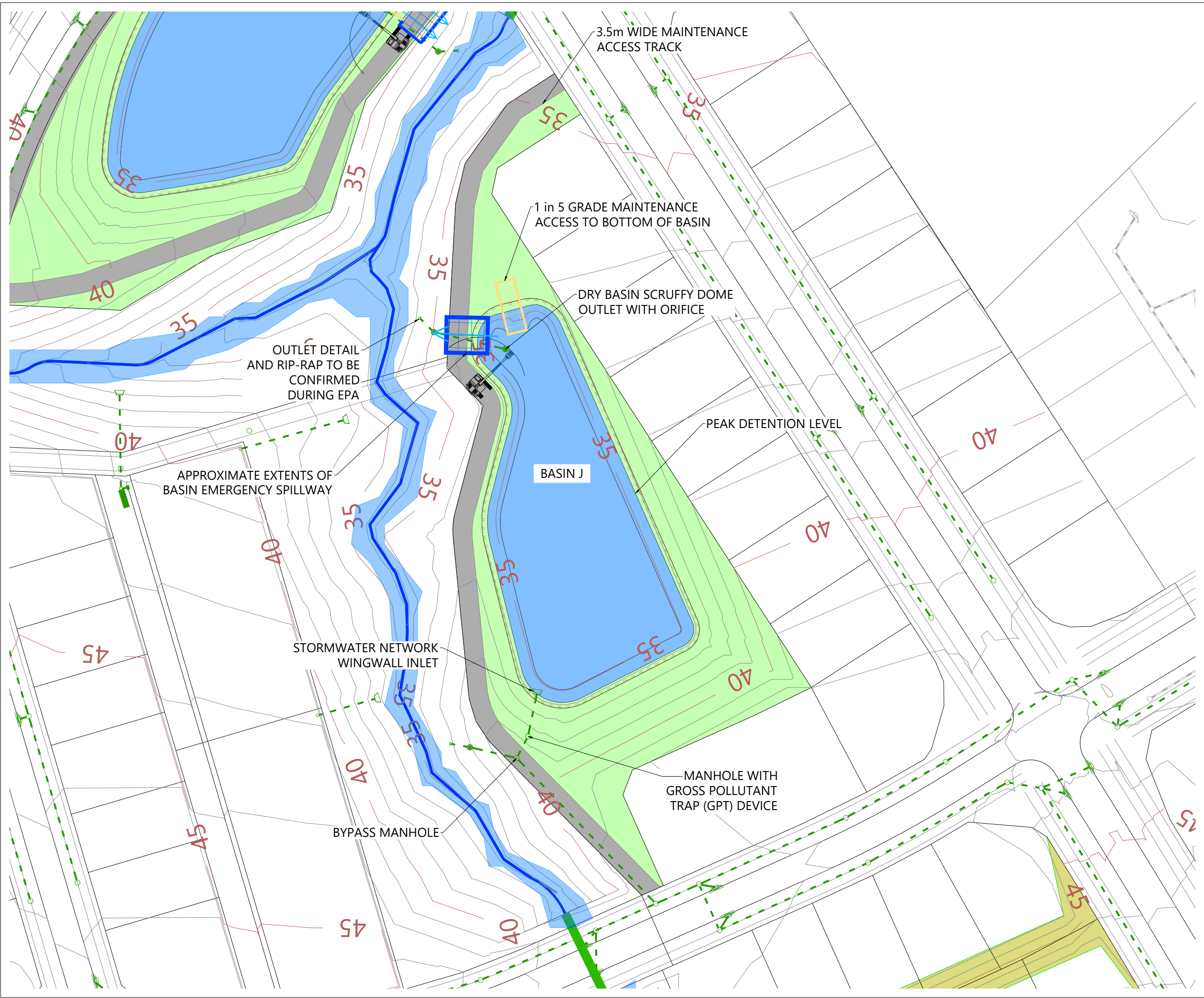


MILLDALE
Connecting Lives & Places











**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN I

STATUS	ISSUED FOR RFI	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3459-DR	



LEGEND

EXTENTS OF FAST TRACK APPLICATION	
BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
STORMWATER (SUBJECT TO EPA)	
EXISTING STORMWATER	
OUTLET	
100 YEAR FLOOD EXTENTS	
PROPOSED STORMWATER DRY BASIN	
REINFORCED MAINTENANCE PATH	

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ



N

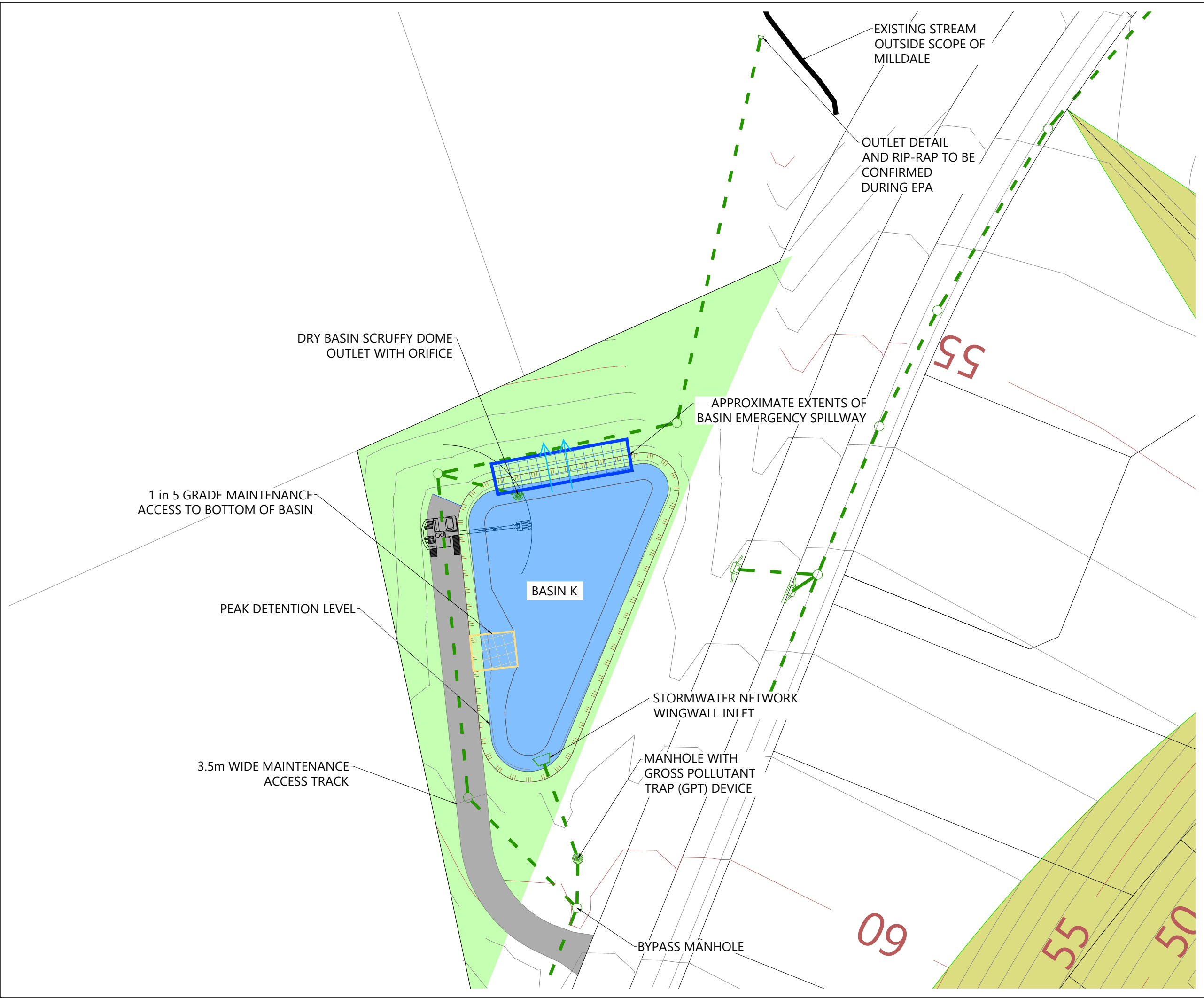


MILLDALE
Connecting Lives & Places

**MILLDALE
FAST TRACK
STAGES 10 - 13**

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN J

STATUS	ISSUED FOR RFI	REV
SCALE	1:750 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3460-DR	



LEGEND

EXTENTS OF FAST TRACK APPLICATION	— —
BOUNDARIES	— —
WATERCOURSE	— —
DESIGN CONTOURS (1m INTERVAL)	— 55.0 —
STORMWATER (SUBJECT TO EPA)	— —
EXISTING STORMWATER	— —
OUTLET	— —
100 YEAR FLOOD EXTENTS	— —
PROPOSED STORMWATER DRY BASIN	— —
REINFORCED MAINTENANCE PATH	— —

NOTES

1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.



REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	LP	JUL 2025

SURVEYED	WOODS	SIDWELL ROAD WAINUI AUCKLAND
DESIGNED	WOODS	
DRAWN	LP	
CHECKED	NT	
APPROVED	JW	
		WOODS.CO.NZ



MILLDALE
FAST TRACK
STAGES 10 - 13

INDICATIVE BASIN LAYOUT
STORMWATER DRY BASIN K

STATUS	ISSUED FOR RFI	REV
SCALE	1:400 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P24-128-00-3461-DR	