



NOTES

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- 4. ALL PIPE CROSSINGS UNDER ROADS TO BE HARDFILL BACKFILLED.
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- 6. ALL CATCHPITS ARE TO BE STANDARD AT APPROVED RECESSED 800X500mm. UNLESS STATED OTHERWISE. ALL CATCHPIT LEADS TO BE 300mmØ CLASS 4 RCRRJ UNLESS STATED OTHERWISE.
- 7. ALL JOAL CATCHPIT TO BE FITTED WITH STORMWATER 360 LITTA TRAP FILTER
- 8. THE CONTRACTOR IS TO PEG MANHOLES AND CHECK FINISHED EARTHWORKS LEVELS (MH LID LEVELS) PRIOR TO ORDERING MANHOLES.
- 9. EXISTING BOUNDARIES SHOWN INCLUDES FUTURE BOUNDARIES CONSENTED UNDER BUN60446761 AND BUN60430899. THESE BOUNDARIES ARE SUBJECT TO FINAL SURVEY APPROVAL.
- 10. EXISTING STORMWATER SHOWN IS INDICATIVE AND INCLUDES CONSENTED SW INFRASTRUCTURE THAT REMAINS SUBJECT TO DETAILED DESIGN AND EPA APPROVAL

LEGEND

- EXTENTS OF MILLDALE STAGES 14-17 DEVELOPMENT AREA
- EXTENTS OF TE KOROWAI O MARAEARIKI
- PROPOSED BOUNDARIES
- EXISTING BOUNDARIES
- POST-DEVELOPMENT WATERCOURSE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER
- EXISTING STORMWATER
- SINGLE CATCHPIT
- OUTLET
- 100 YEAR FLOOD EXTENTS
- PROPOSED STORMWATER WETLAND
- PROPOSED SW RECHARGE DEVICE
- PROPOSED SW BIORETENTION DEVICE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	FS	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
STAGES 14-17
FAST-TRACK

PHASE 1: STORMWATER DRAINAGE
LAYOUT OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:8000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3000-DR	

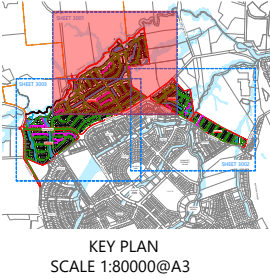
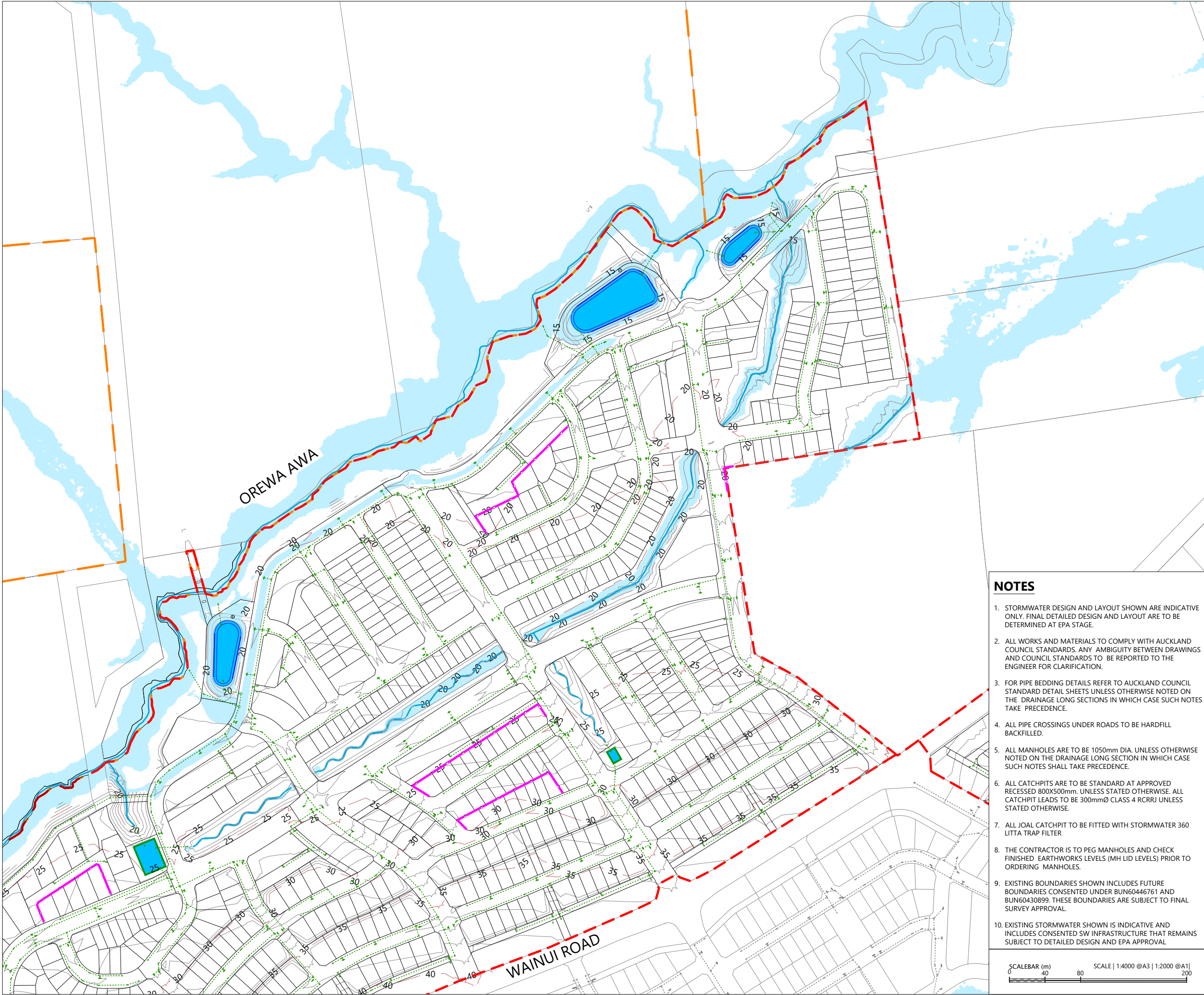


SHEET 3001

SHEET 3003

SHEET 3002

File: C:\125\DATA\WP-AKL-APP-02\P25-609 - MILLDALE NORTH FAST-TRACK APPLICATION_22695\02 DRAWINGS\01 ENG\01 PHASE 1 - DEVELOPMENT AREA\P25-609-01-3000-DR-STORMWATER DRAINAGE LAYOUT PLANDWG



LEGEND

- EXTENTS OF MILLDALE STAGES 14-17 DEVELOPMENT AREA
- EXTENTS OF TE KOROWAI O MARAEARIKI
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- EXISTING BOUNDARIES
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- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED RETAINING WALL
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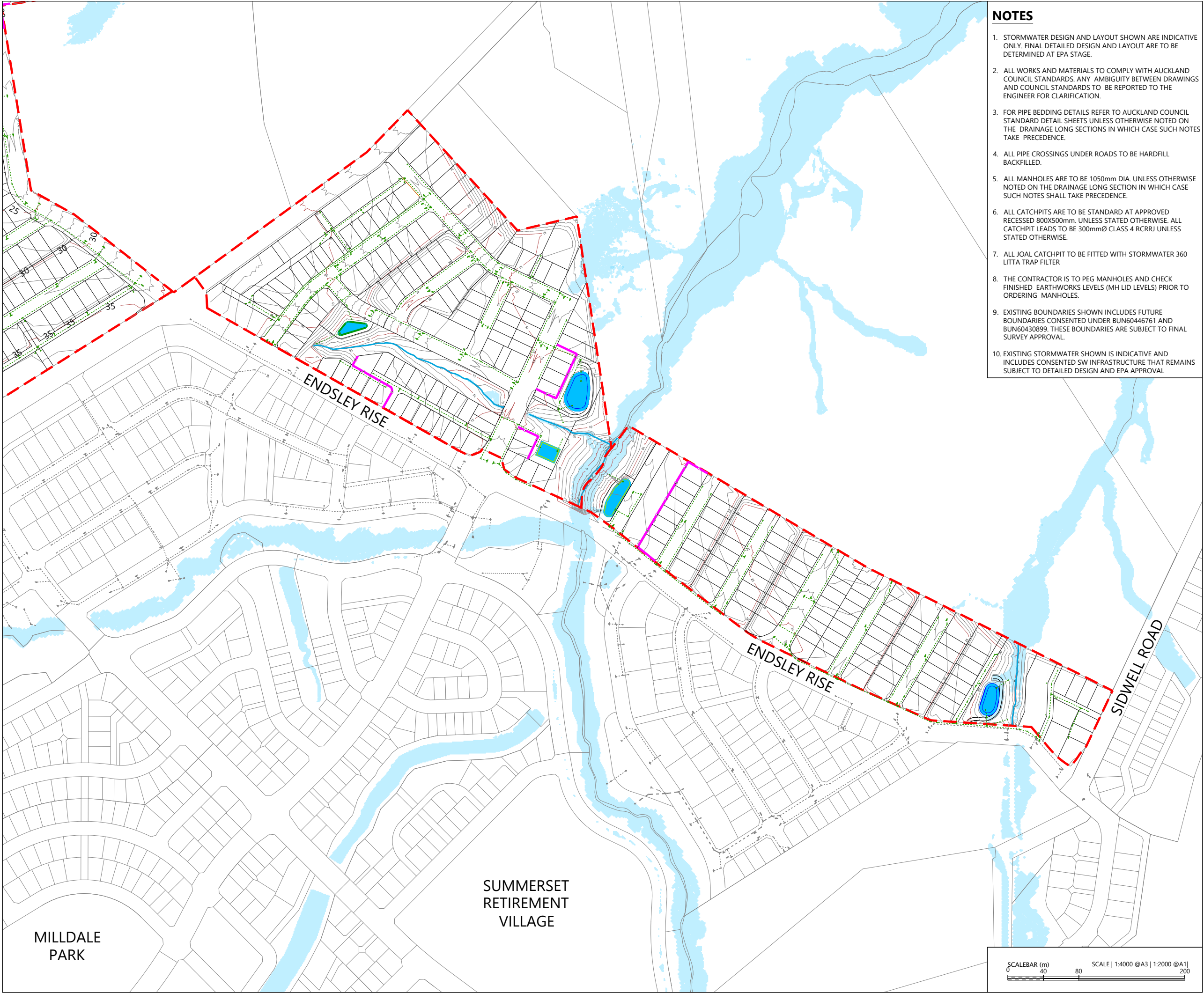


REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE STAGES 14-17 FAST-TRACK
PHASE 1: STORMWATER DRAINAGE LAYOUT PLAN SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:4000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3001-DR	



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KEY PLAN
SCALE 1:80000@A3

WOODS
Est.1970

LEGEND

EXTENTS OF MILLDALE STAGES 14-17 DEVELOPMENT AREA

EXTENTS OF TE KOROWAI O MARAEARIKI

PROPOSED BOUNDARIES

EXISTING BOUNDARIES

POST-DEVELOPMENT WATERCOURSE

DESIGN CONTOURS (1m INTERVAL)

PROPOSED RETAINING WALL

PROPOSED STORMWATER

EXISTING STORMWATER

SINGLE CATCHPIT

OUTLET

100 YEAR FLOOD EXTENTS

PROPOSED STORMWATER WETLAND

PROPOSED SW RECHARGE DEVICE

PROPOSED SW BIORETENTION DEVICE

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

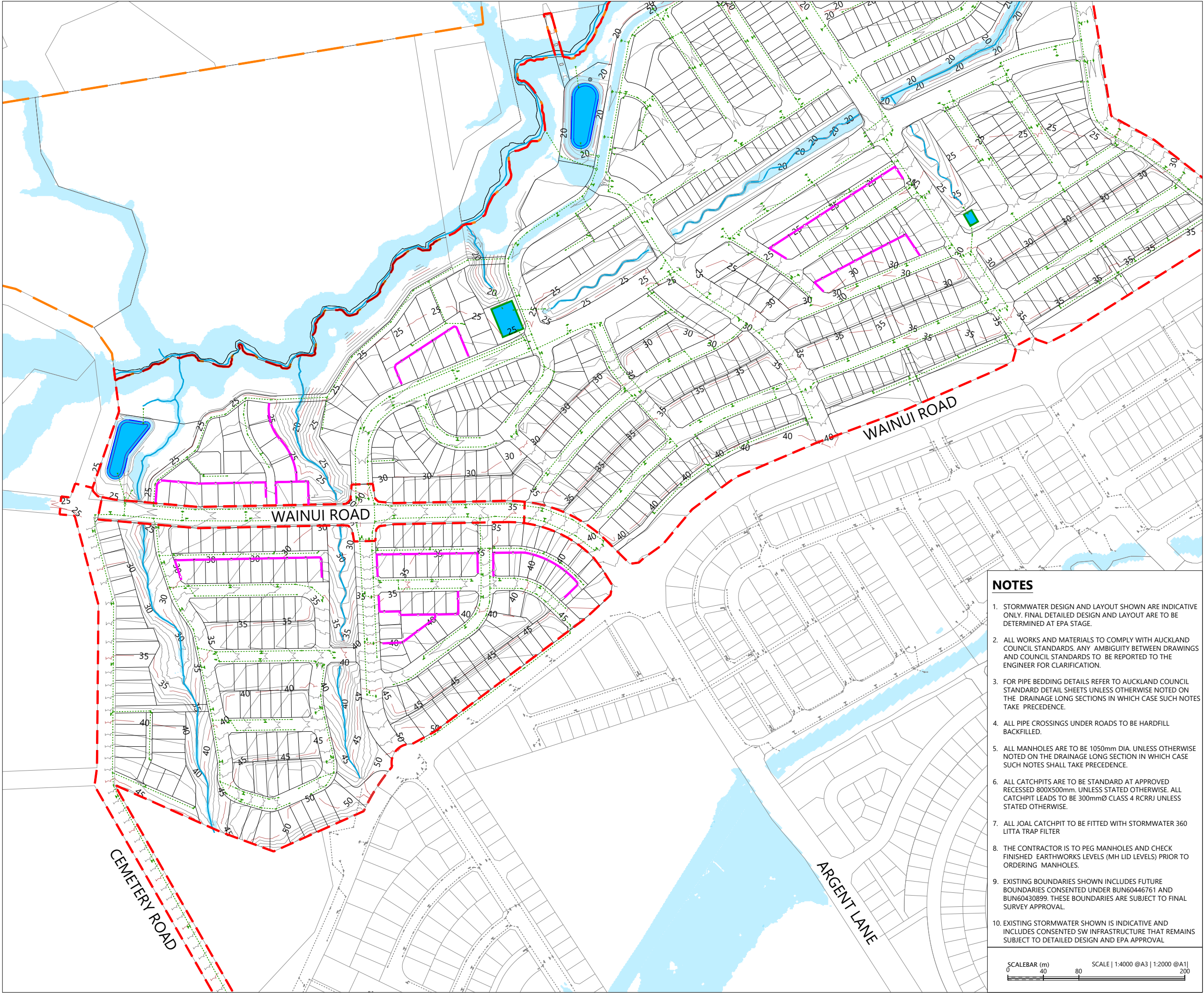
SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	FS	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
STAGES 14-17
FAST-TRACK

PHASE 1: STORMWATER
DRAINAGE LAYOUT PLAN
SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:4000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3002-DR	

File: C:\125\DATA\WP-AKL-APP-02\P25-609 - MILLDALE NORTH FAST-TRACK APPLICATION_22695\02 DRAWINGS\01 ENG\01 PHASE 1 - DEVELOPMENT AREA\P25-609-01-3000-DR-STORMWATER DRAINAGE LAYOUT PLANDWG



KEY PLAN
SCALE 1:80000@A3



LEGEND

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- EXTENTS OF TE KOROWAI O MARAEARIKI
- PROPOSED BOUNDARIES
- EXISTING BOUNDARIES
- POST-DEVELOPMENT WATERCOURSE
- DESIGN CONTOURS (1m INTERVAL)
- PROPOSED RETAINING WALL
- PROPOSED STORMWATER
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- SINGLE CATCHPIT
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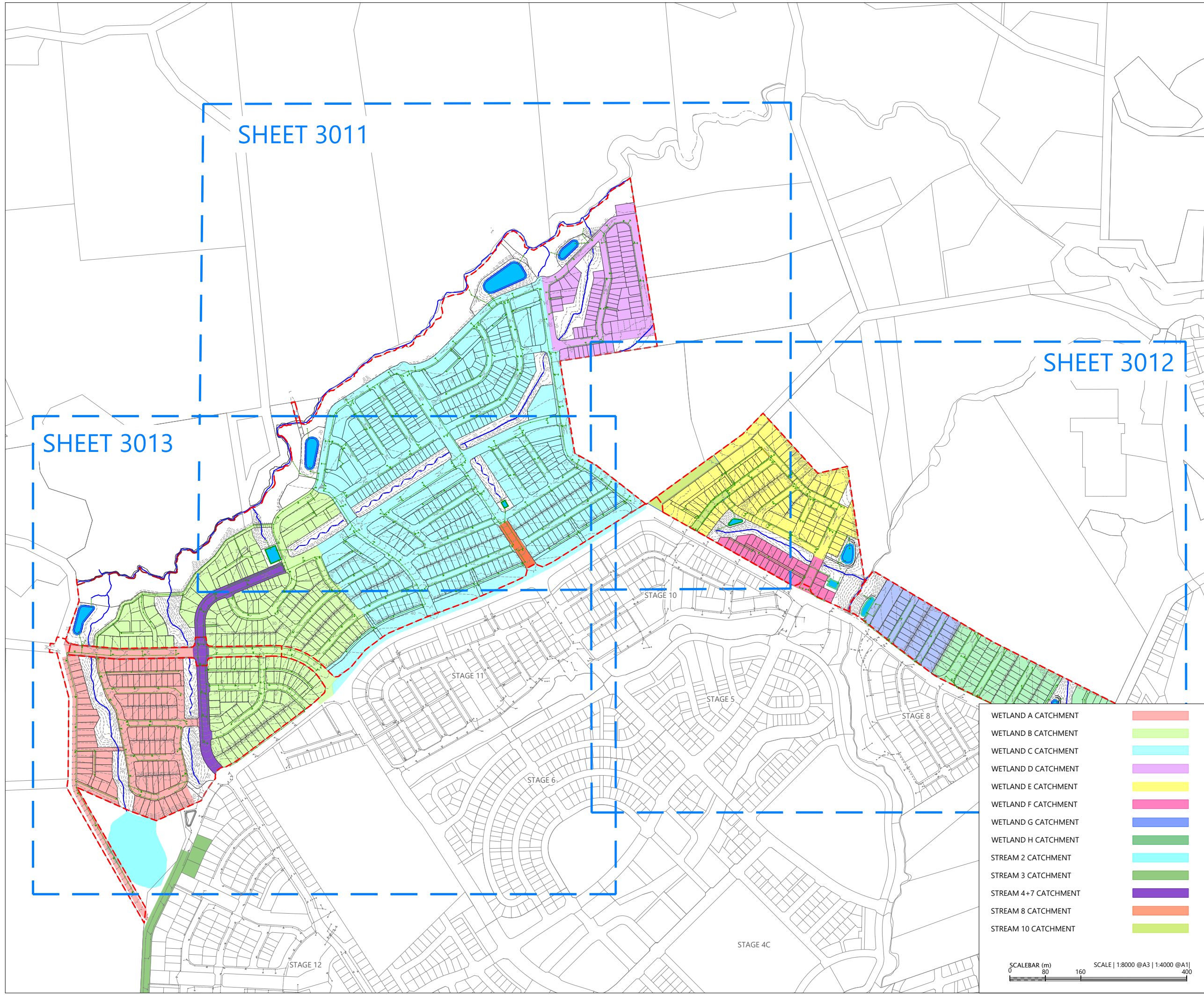
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	FS	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE
STAGES 14-17
FAST-TRACK

PHASE 1: STORMWATER
DRAINAGE LAYOUT PLAN
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:4000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3003-DR	



LEGEND

- EXTENTS OF MILLDALE STAGES 14-17 DEVELOPMENT AREA
- EXTENTS OF ECOLOGICAL RESTORATION AREA
- PROPOSED BOUNDARIES
- EXISTING BOUNDARIES
- POST-DEVELOPMENT WATERCOURSE
- DESIGN CONTOURS (1m INTERVAL)
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DRAWN	FS	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ



N



MILLDALE
Connecting Lives & Places

**MILLDALE
STAGES 14-17
FAST-TRACK**

**PHASE 1: STORMWATER
CATCHMENT OVERALL PLAN**

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:8000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3010-DR	

WETLAND A CATCHMENT

WETLAND B CATCHMENT

WETLAND C CATCHMENT

WETLAND D CATCHMENT

WETLAND E CATCHMENT

WETLAND F CATCHMENT

WETLAND G CATCHMENT

WETLAND H CATCHMENT

STREAM 2 CATCHMENT

STREAM 3 CATCHMENT

STREAM 4+7 CATCHMENT

STREAM 8 CATCHMENT

STREAM 10 CATCHMENT



SCALEBAR (m)

SCALE | 1:8000 @A3 | 1:4000 @A1

LEGEND

- EXTENTS OF MILLDALE STAGES 14-17 DEVELOPMENT AREA
- EXTENTS OF ECOLOGICAL RESTORATION AREA
- PROPOSED BOUNDARIES
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DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ



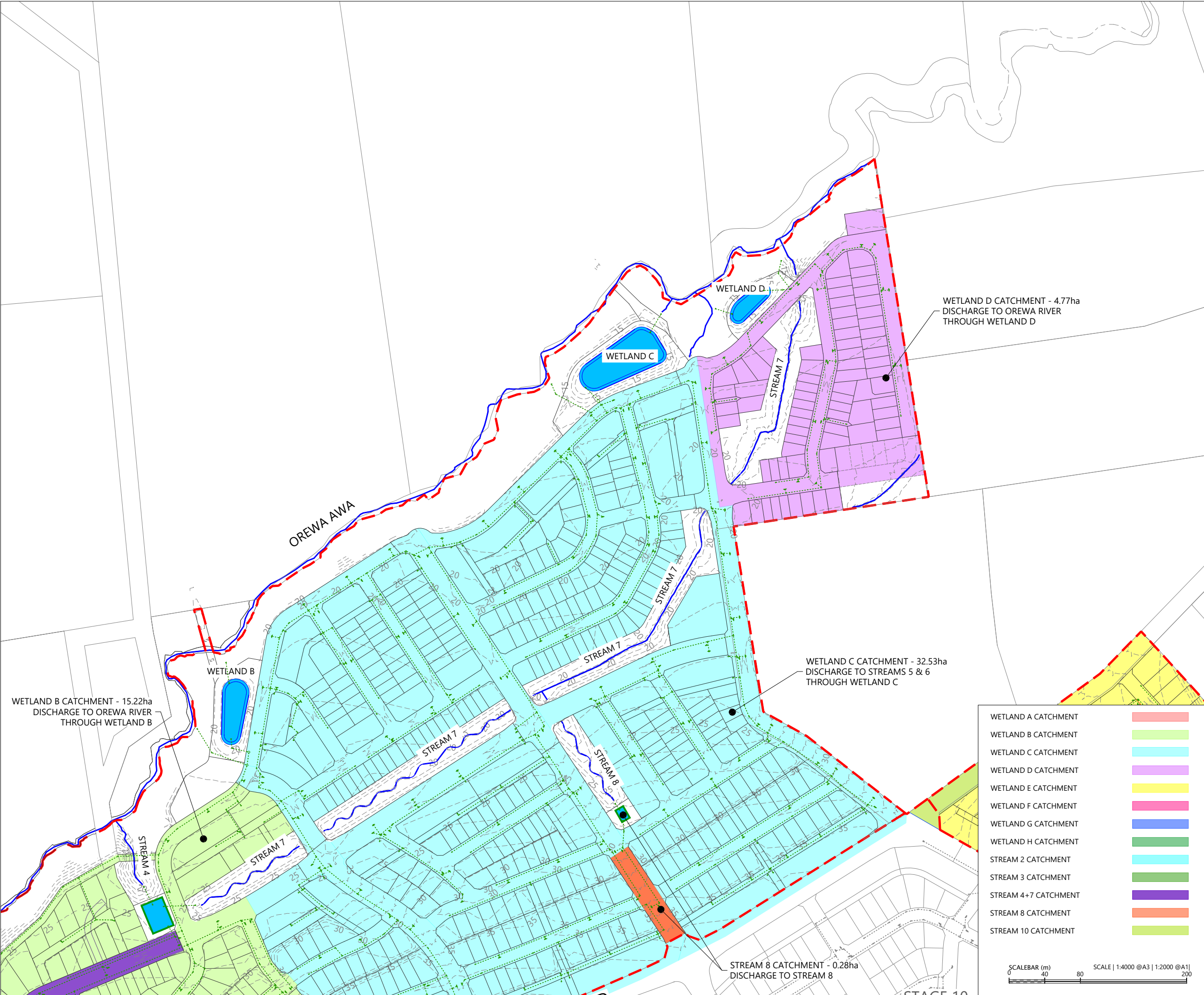
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MILLDALE
Connecting Lives & Land

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER CATCHMENT
PLAN
SHEET 1

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:4000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3011-DR	





LEGEND

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NOTES

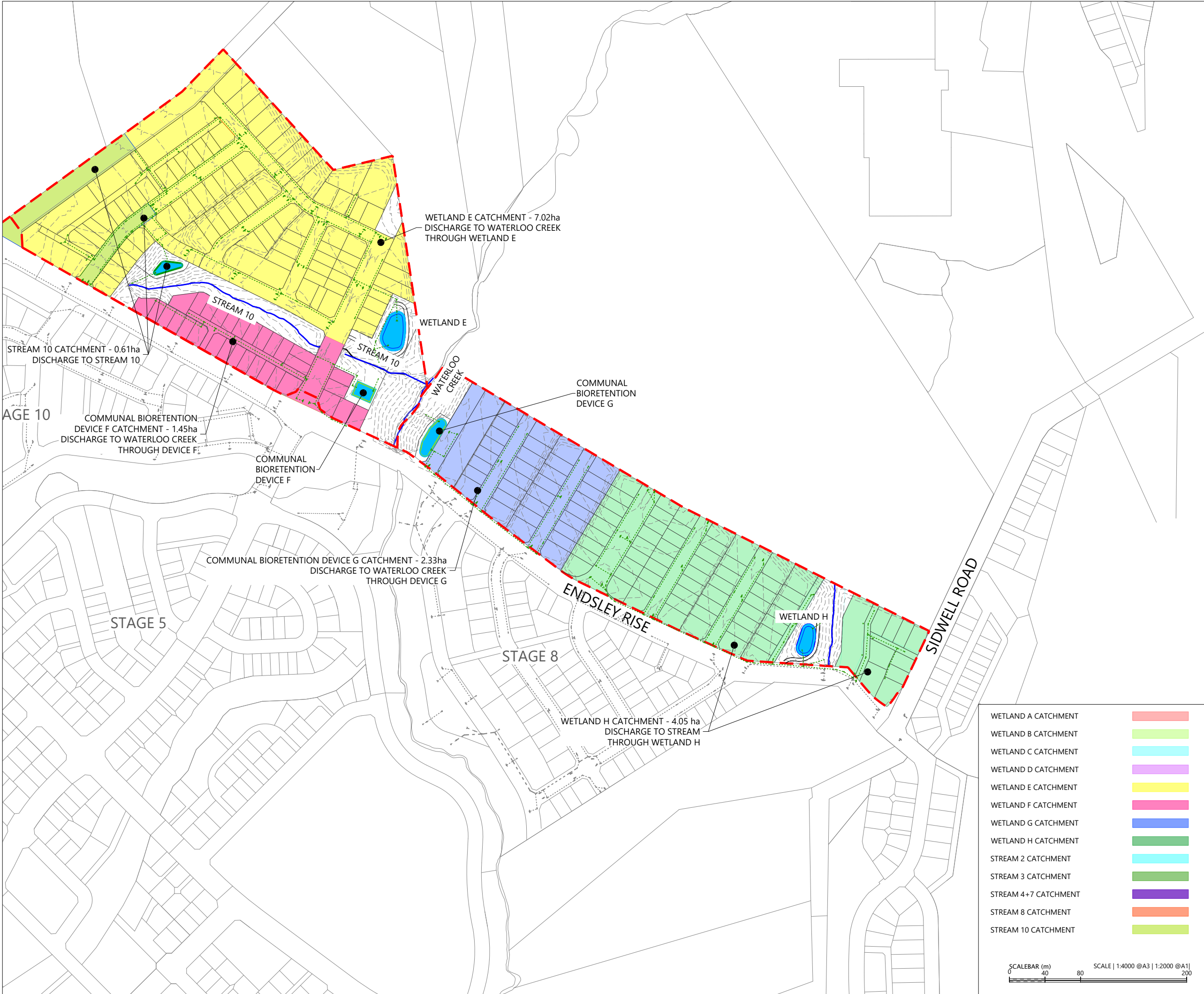
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DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER CATCHMENT PLAN SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:4000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3012-DR	



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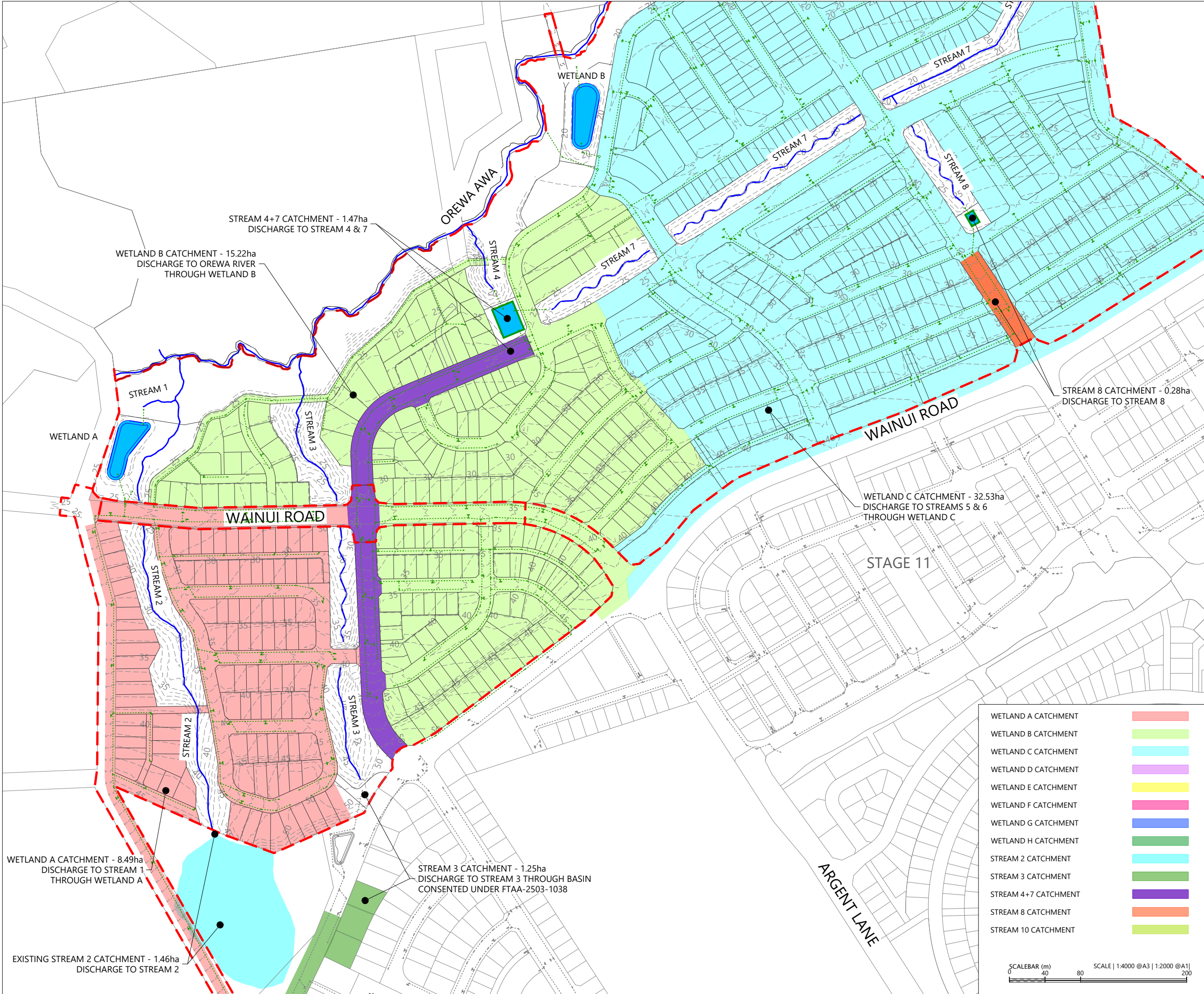
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MILLDALE
Connecting Lifelines

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CATCHMENT PLAN
SHEET 3

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:4000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3013-DR	



LEGEND

- EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA 
- PROPOSED BOUNDARIES 
- EXISTING BOUNDARIES 
- WATERCOURSE 
- DESIGN CONTOURS (1m INTERVAL) 
- LOT OVERLAND FLOW 
- ROAD OVERLAND FLOW 
- JOAL OVERLAND FLOW 
- OVERLAND FLOW SPILL POINT 
- OLFP CATCHMENT DIRECT TO STREAM 
- PROPOSED STORMWATER DRY BASIN 

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**MILLDALE
STAGES 14-17
FAST-TRACK**

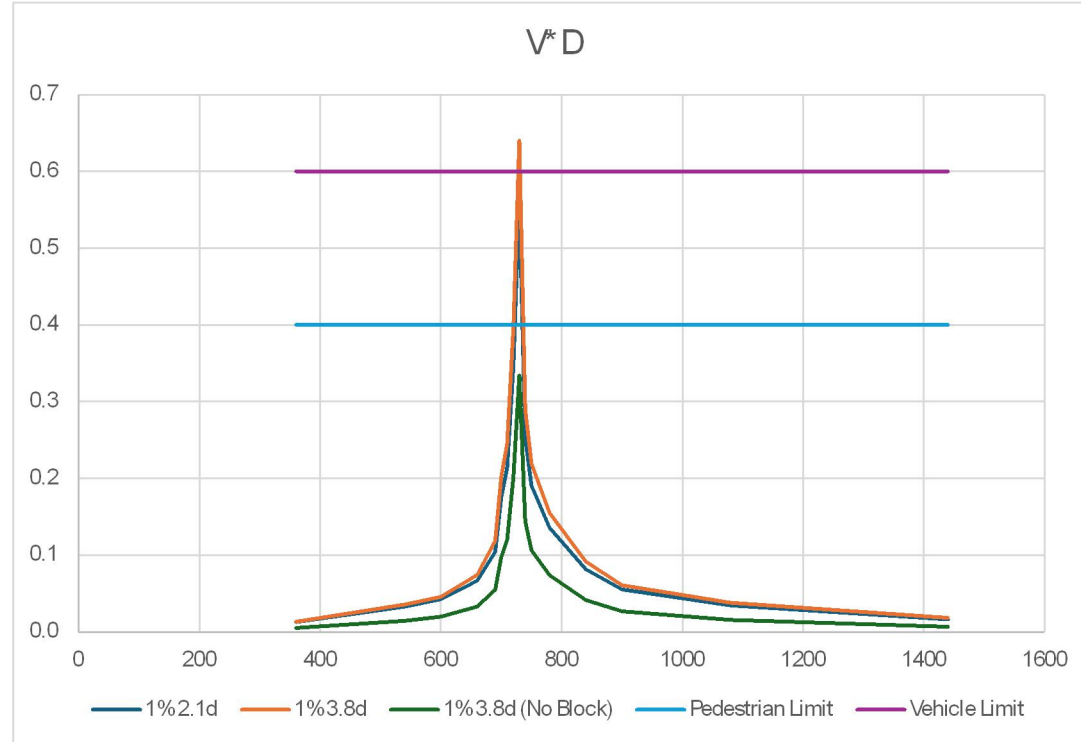
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:8000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3020-DR	

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



ROAD-SECTION A-A VxD GRAPH

LEGEND

- EXTENTS OF MILDDALE NORTH DEVELOPMENT AREA
- PROPOSED BOUNDARIES
- EXISTING BOUNDARIES
- WATERCOURSE
- DESIGN CONTOURS (1m INTERVAL)
- LOT OVERLAND FLOW
- ROAD OVERLAND FLOW
- JOAL OVERLAND FLOW
- OVERLAND FLOW SPILL POINT
- OLFP CATCHMENT DIRECT TO STREAM
- PROPOSED STORMWATER DRY BASIN

NOTES

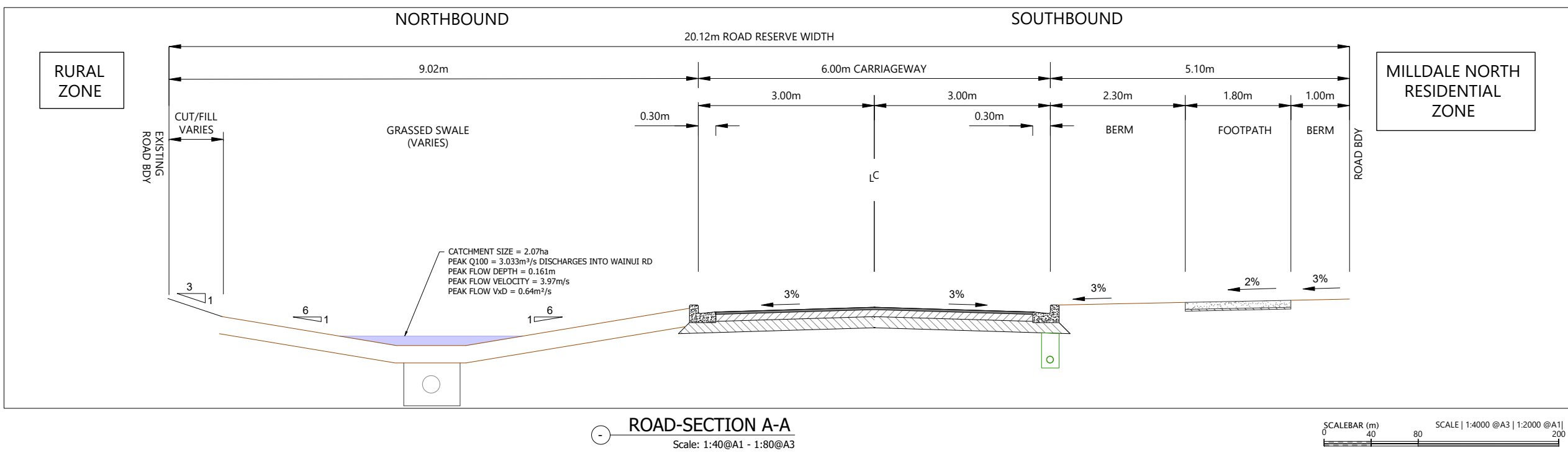
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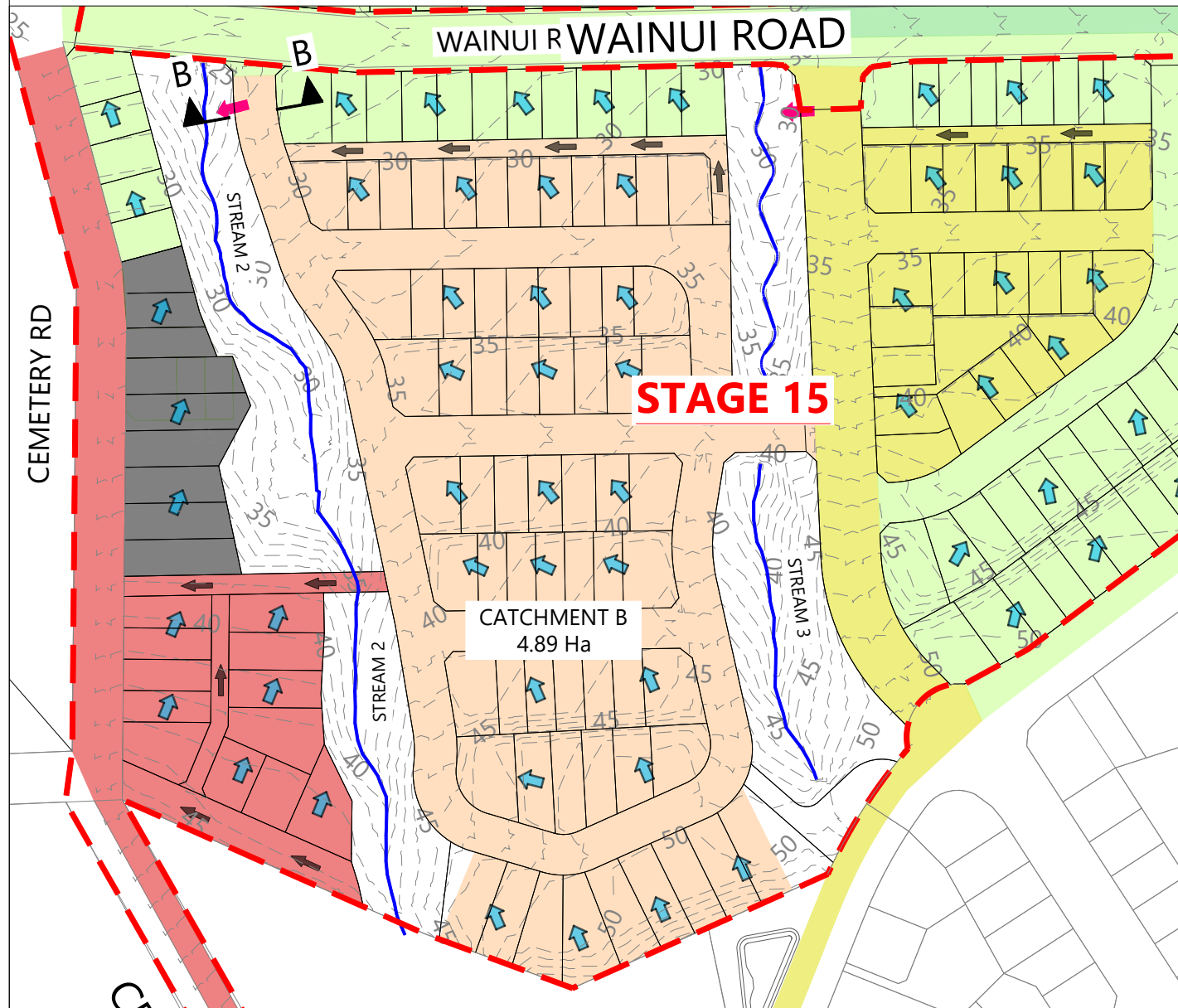
SURVEYED	WOODS	WAINUI ROAD MILDDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

MILDDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 1

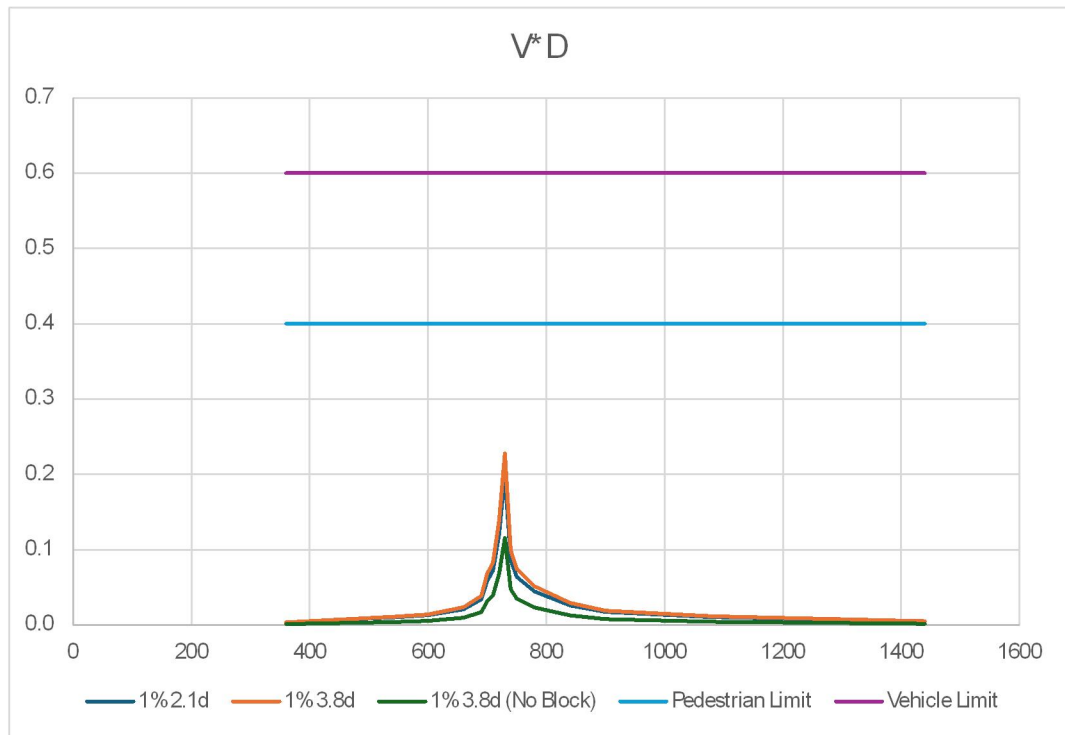
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3021-DR	



ROAD-SECTION A-A
Scale: 1:40@A1 - 1:80@A3



CATCHMENT B PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION B-B VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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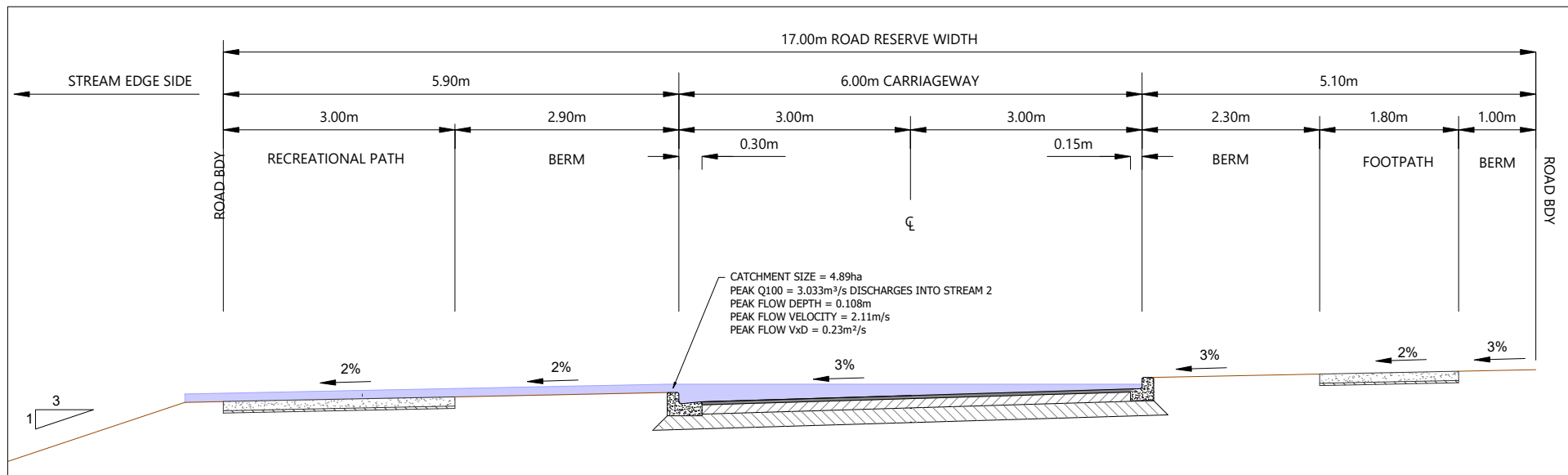
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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

--	--

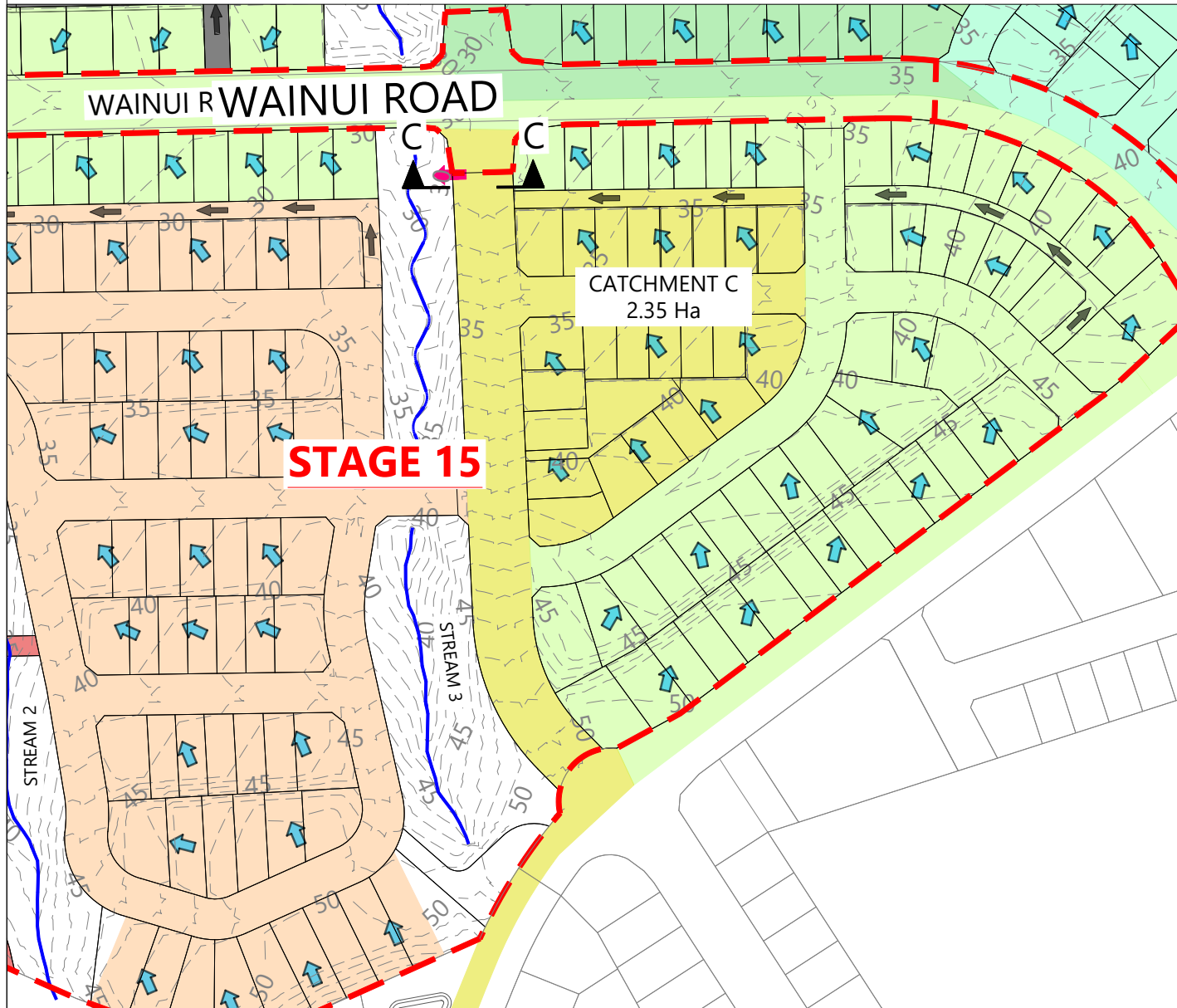
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 2

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3022-DR	



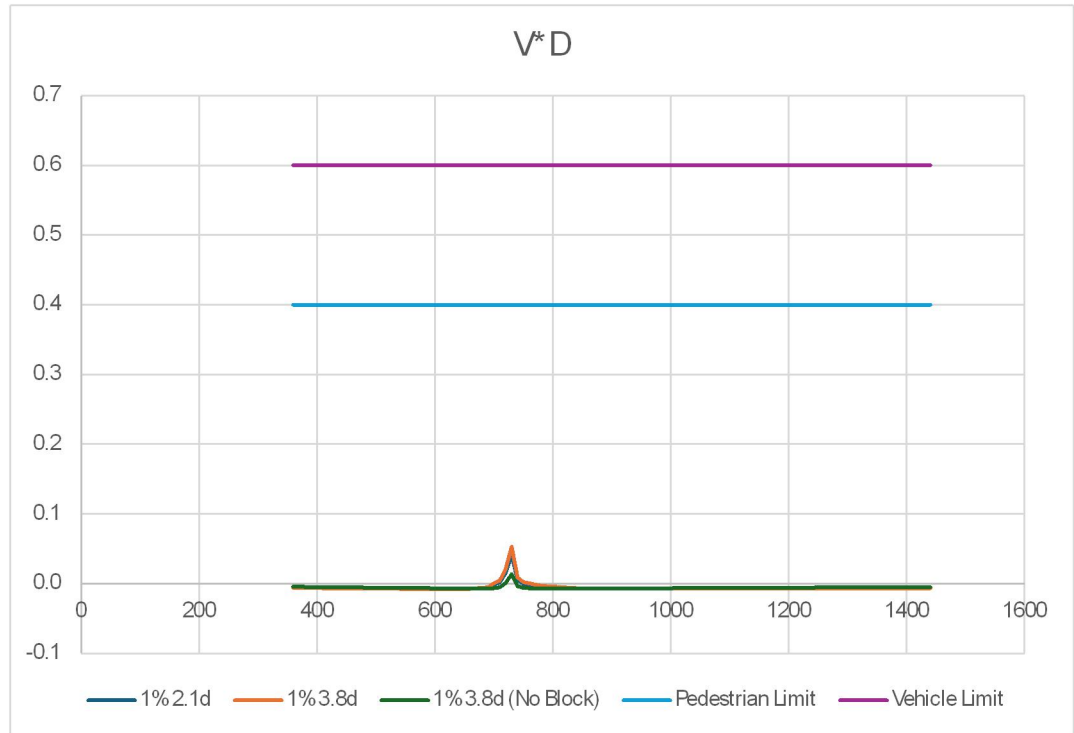
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Scale: 1:40@A1 - 1:80@A3





CATCHMENT C PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION C-C VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

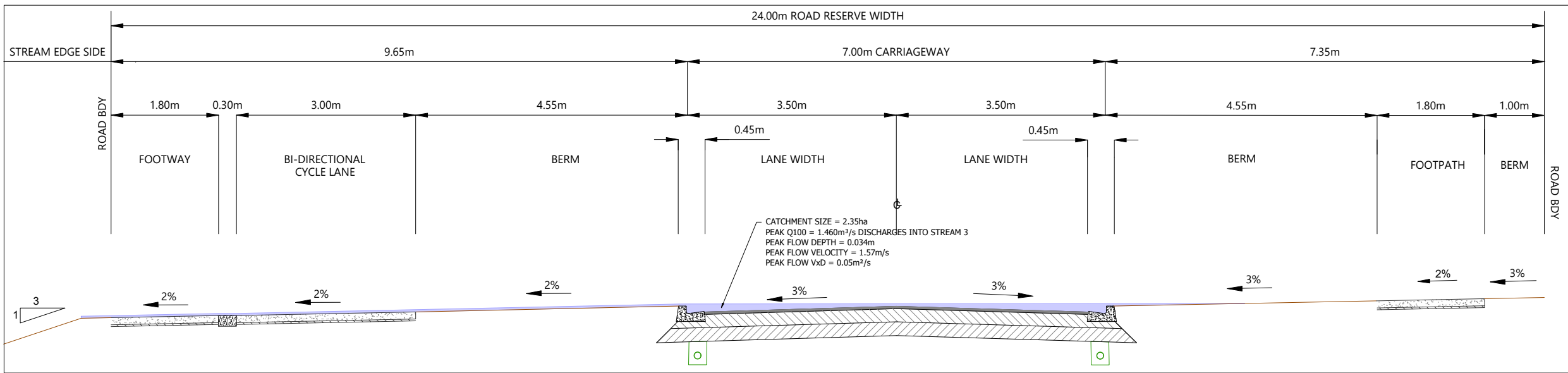
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

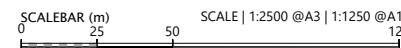
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 3

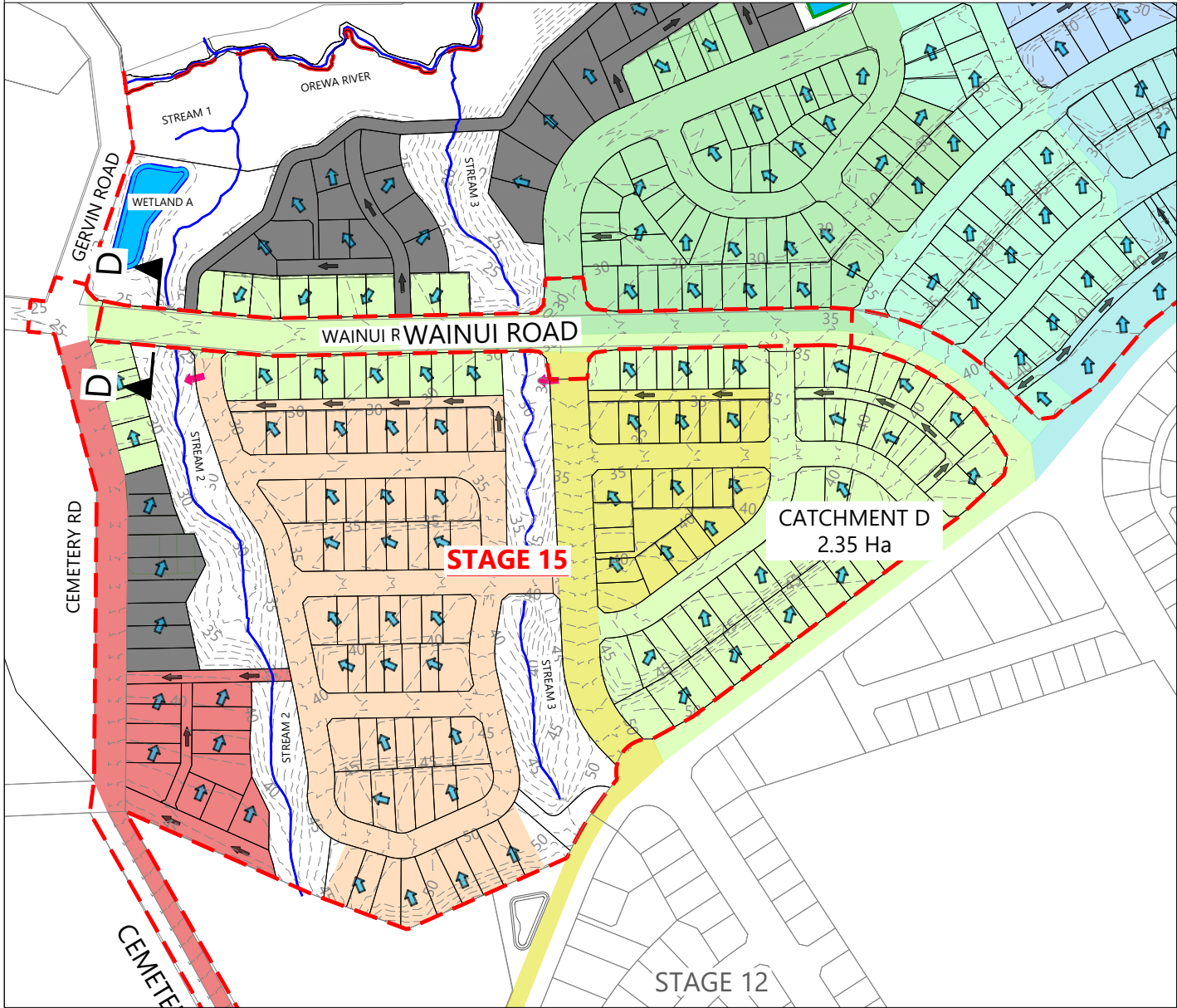
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SCALE	AS SHOWN	1
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DWG NO	P25-609-01-3023-DR	



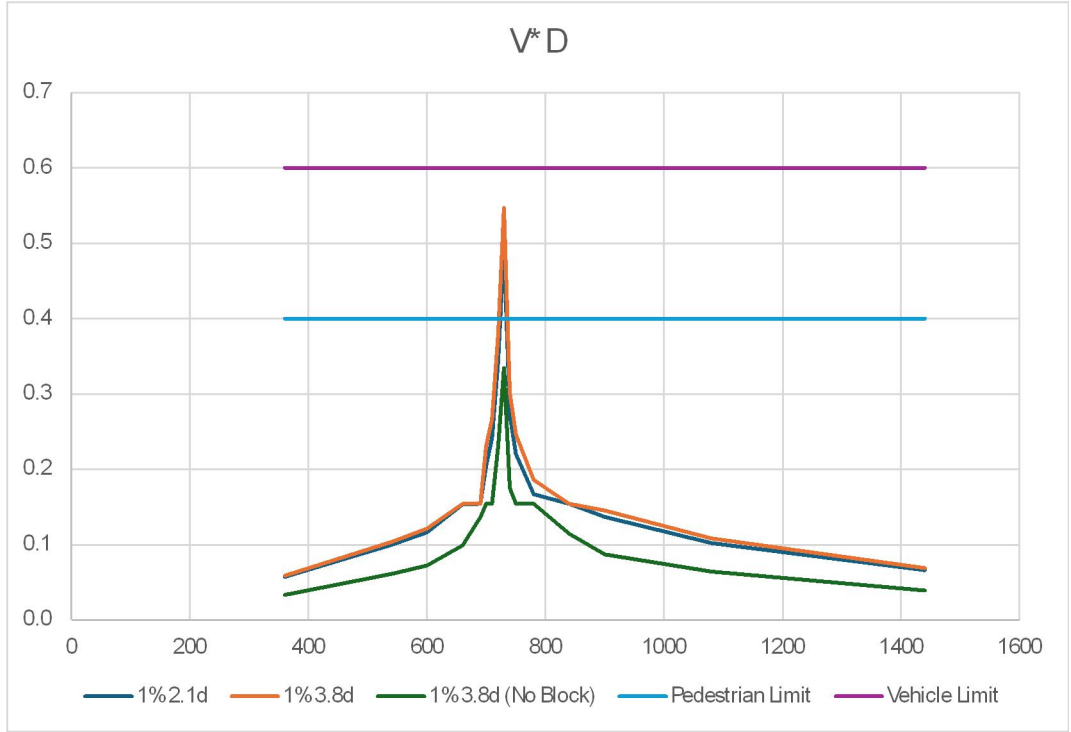
ROAD-SECTION C-C

Scale: 1:40@A1 - 1:80@A3





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



ROAD-SECTION D-D VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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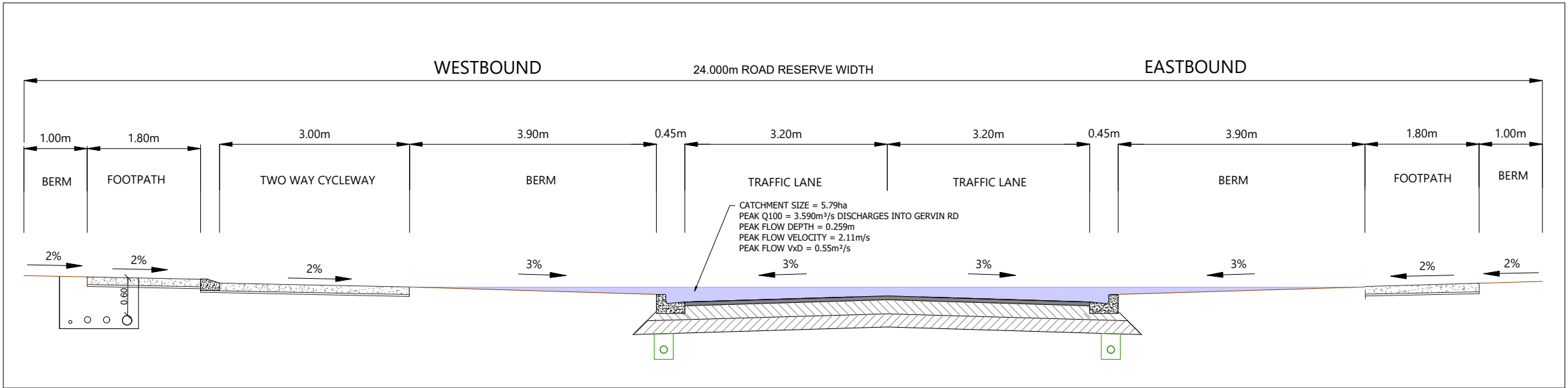
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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

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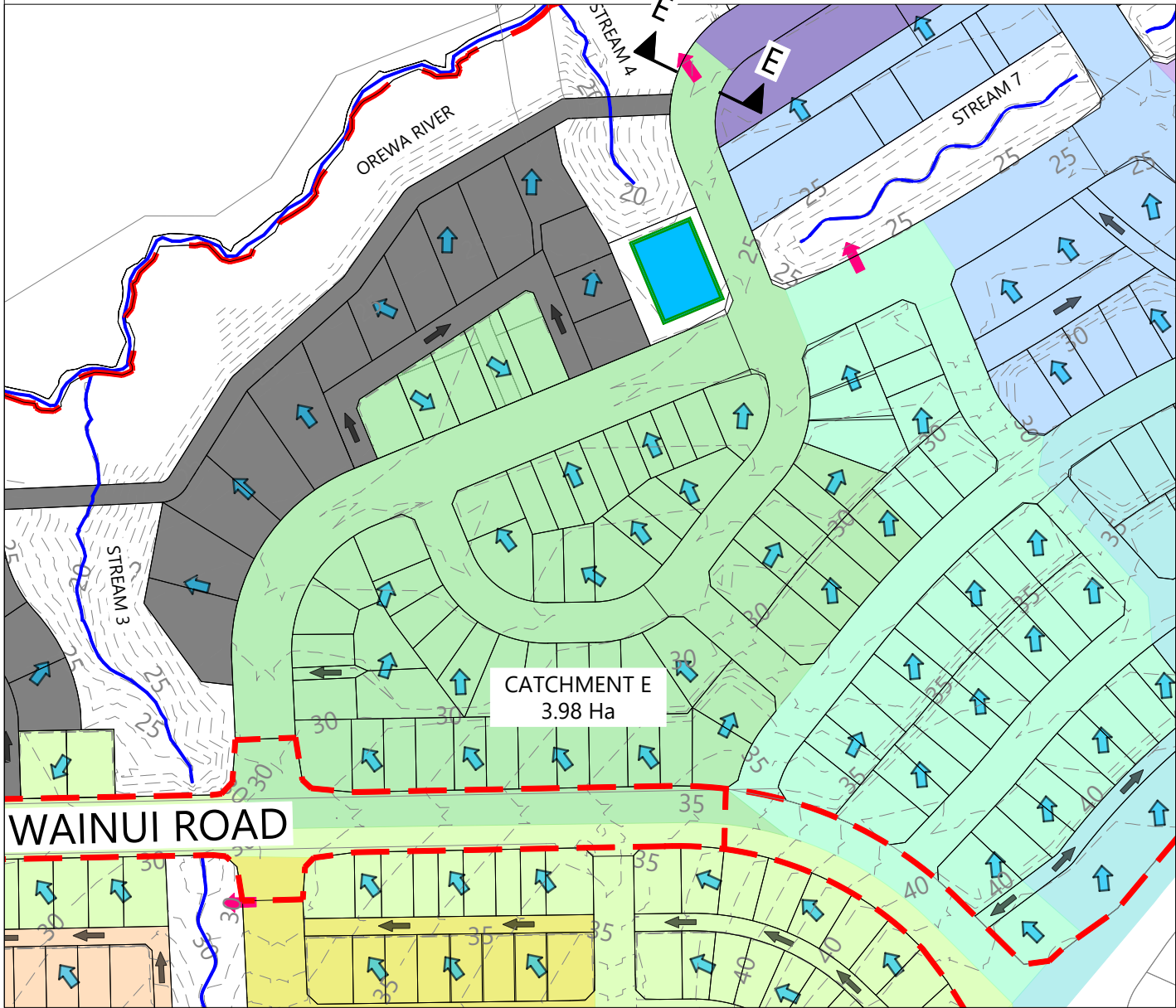
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 4

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3024-DR	



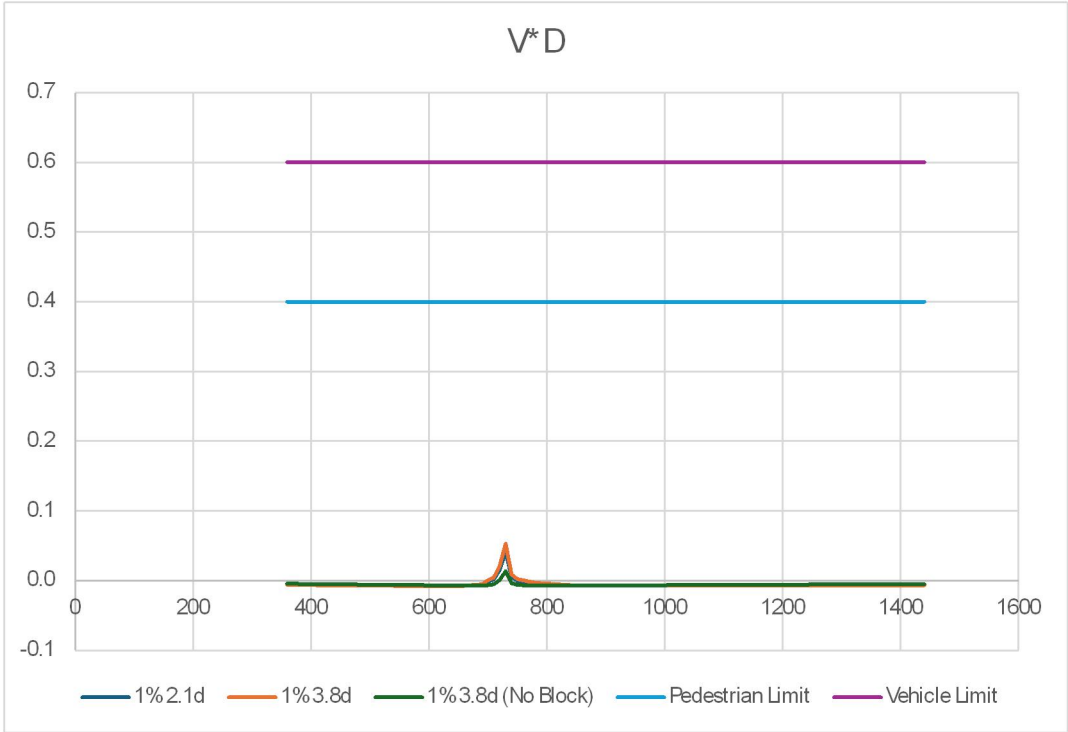
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Scale: 1:40@A1 - 1:80@A3





CATCHMENT E PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION E-E VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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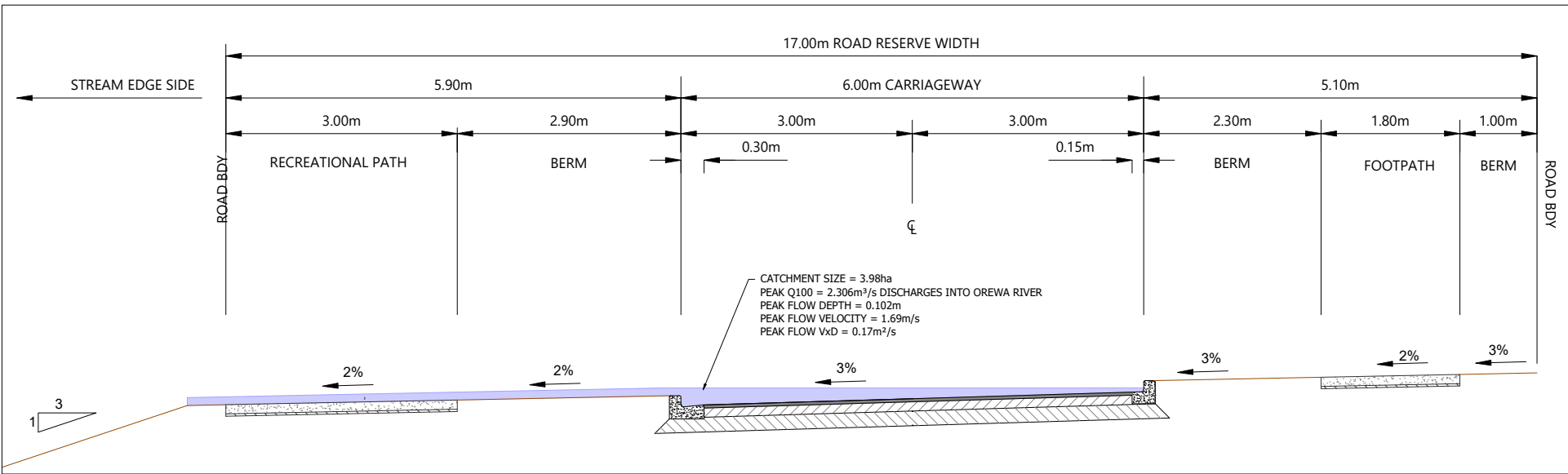
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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

--	--

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 5

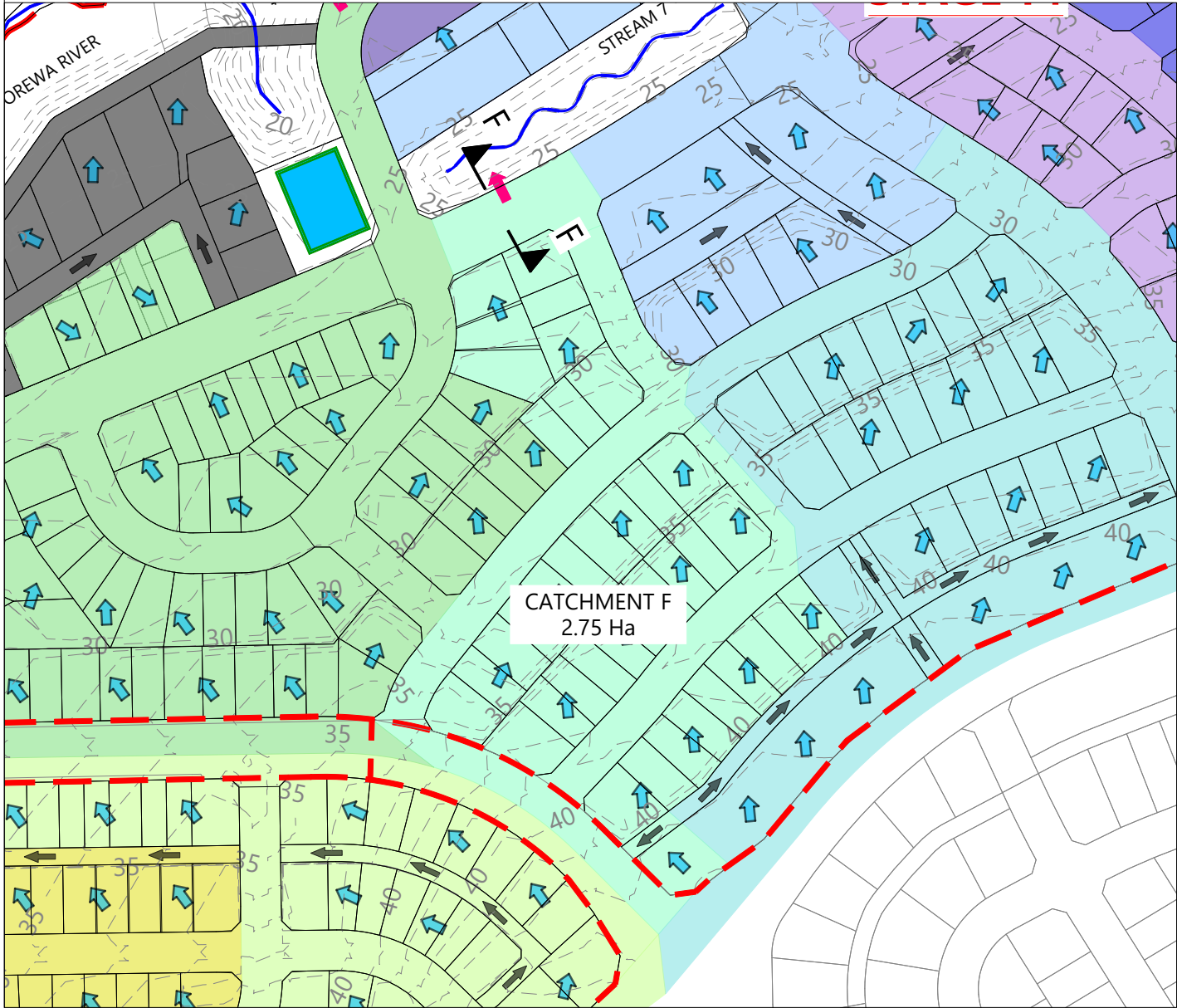
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DWG NO	P25-609-01-3025-DR	



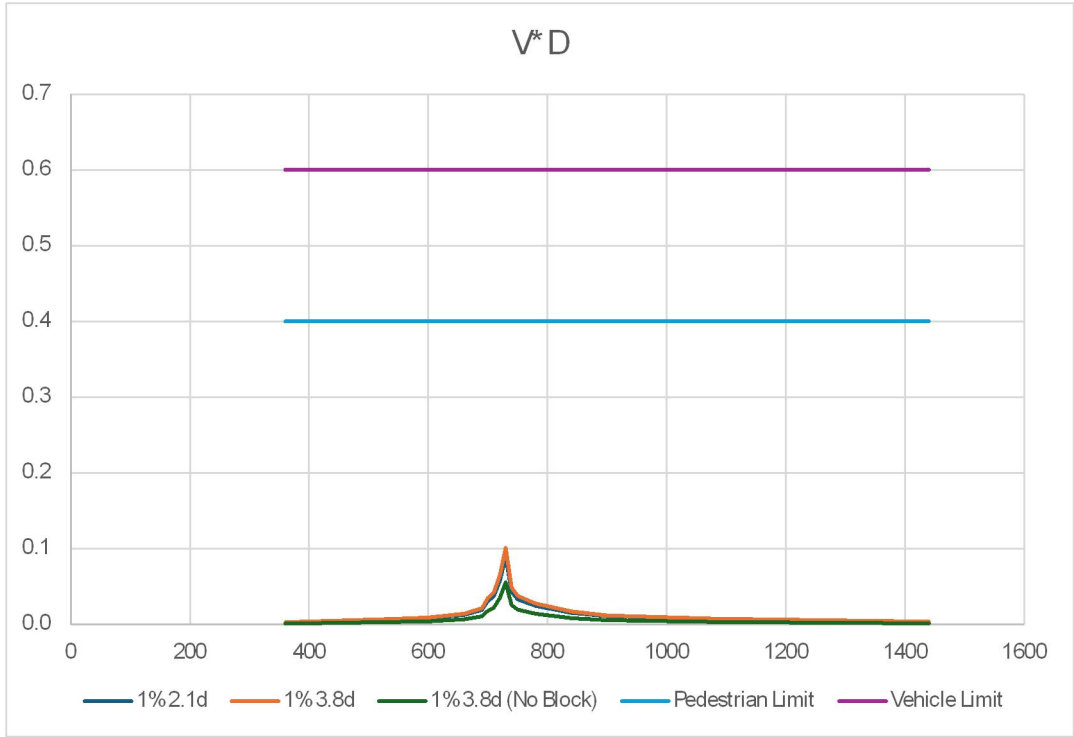
ROAD-SECTION E-E

Scale: 1:40@A1 - 1:80@A3





CATCHMENT F PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION F-F VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

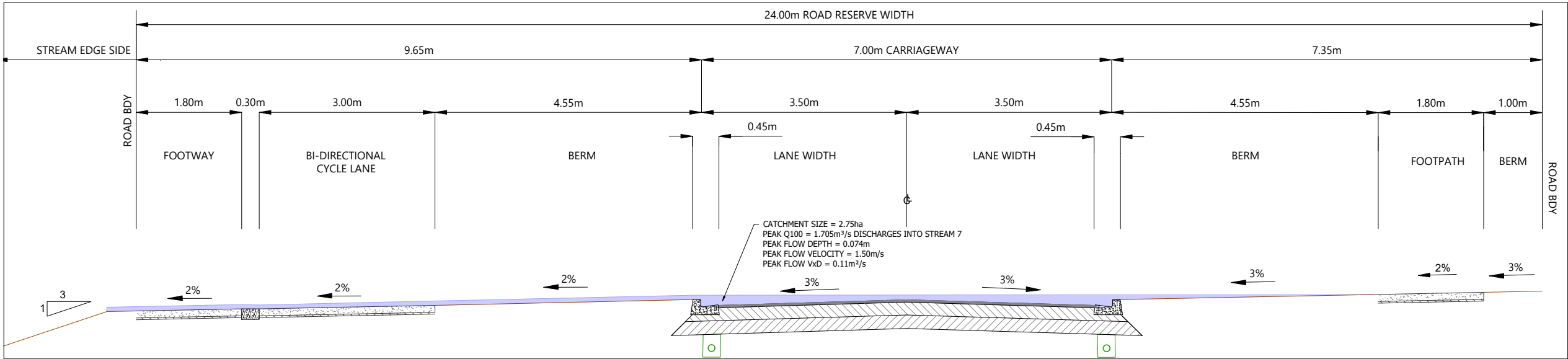
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

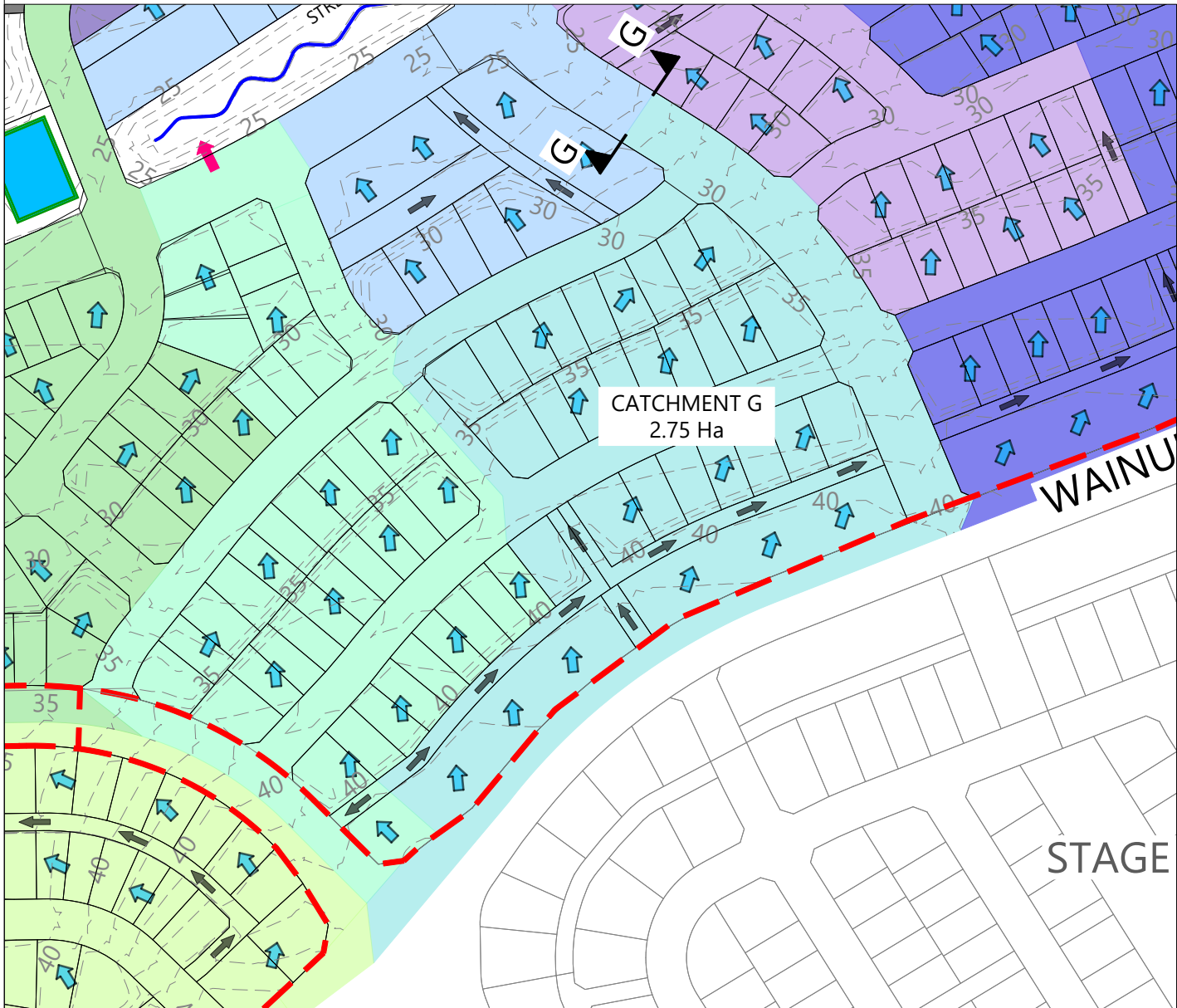
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 6

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3026-DR	



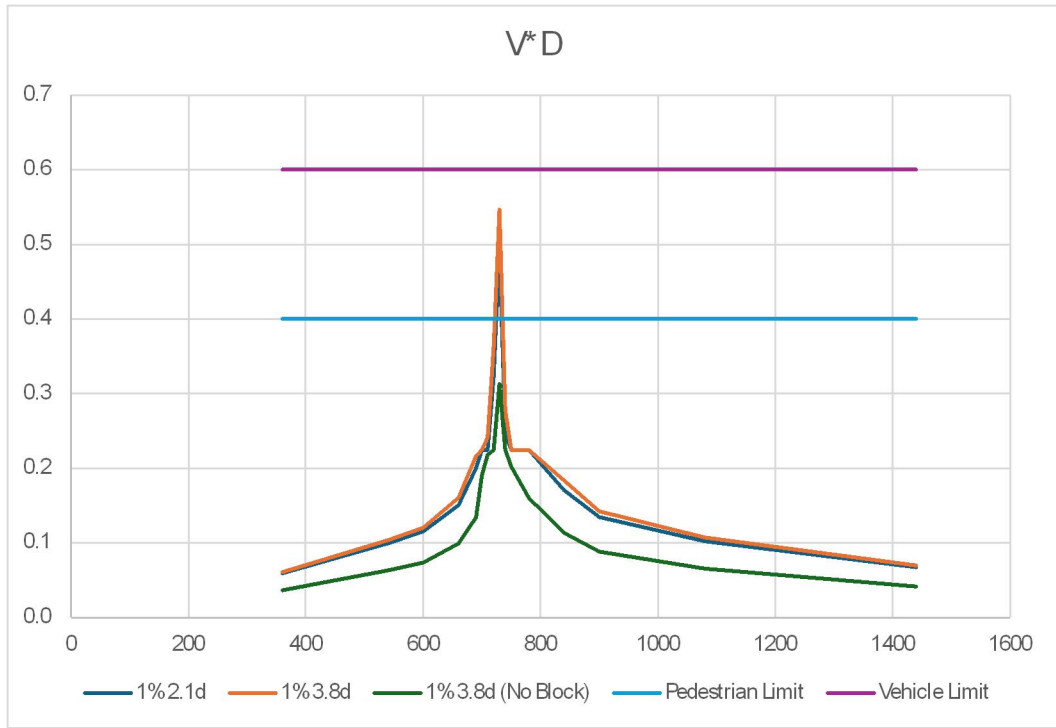
ROAD-SECTION F-F
Scale: 1:40@A1 - 1:80@A3





CATCHMENT G PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION G-G VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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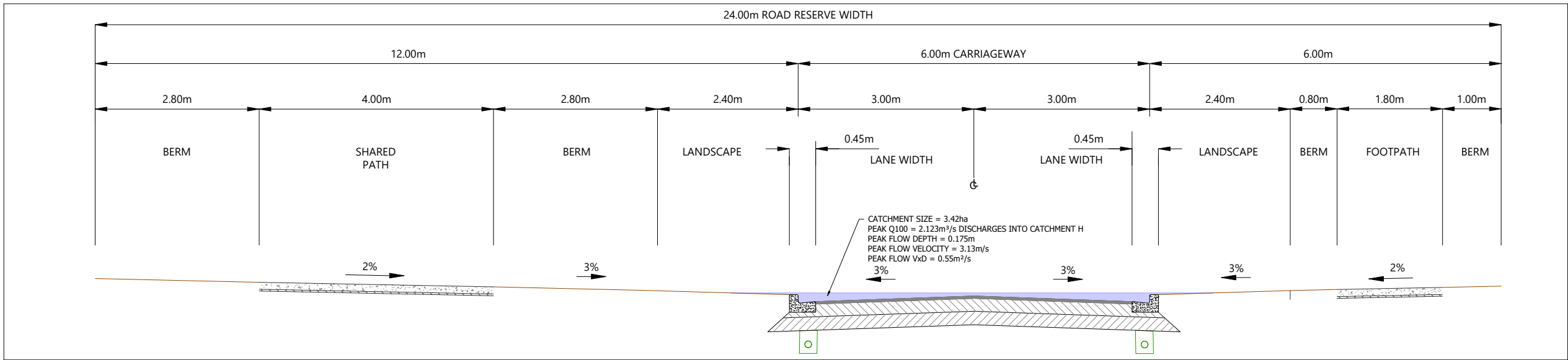
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

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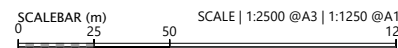
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 7

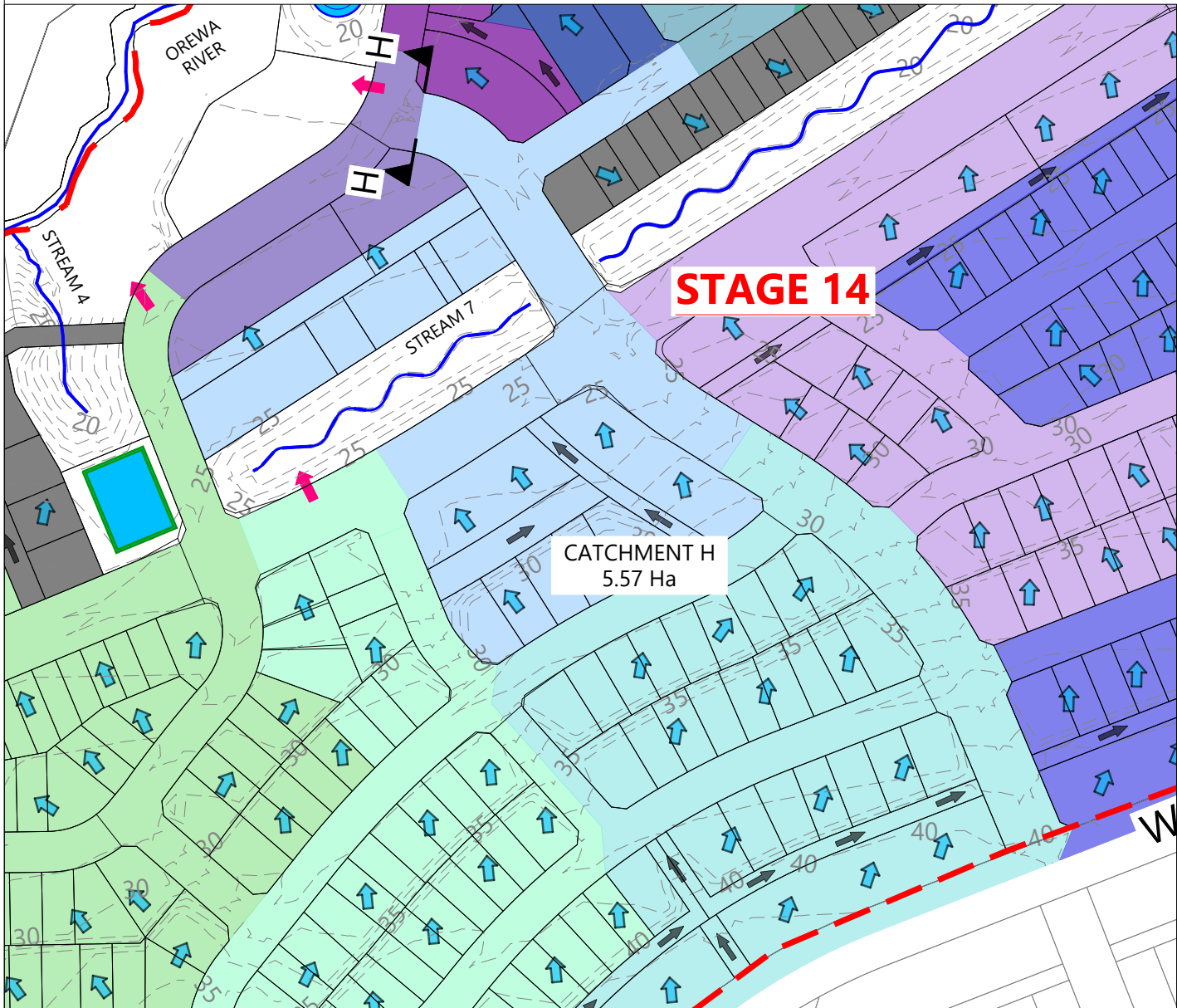
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3027-DR	



ROAD-SECTION G-G

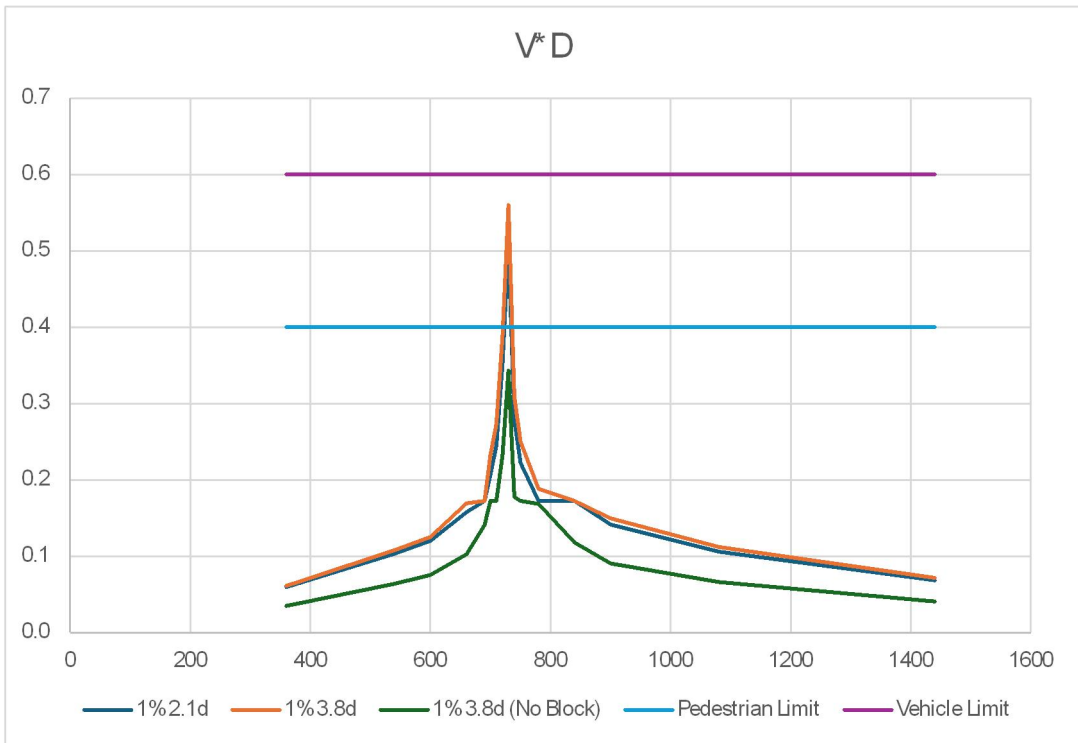
Scale: 1:40@A1 - 1:80@A3





CATCHMENT H PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION H-H VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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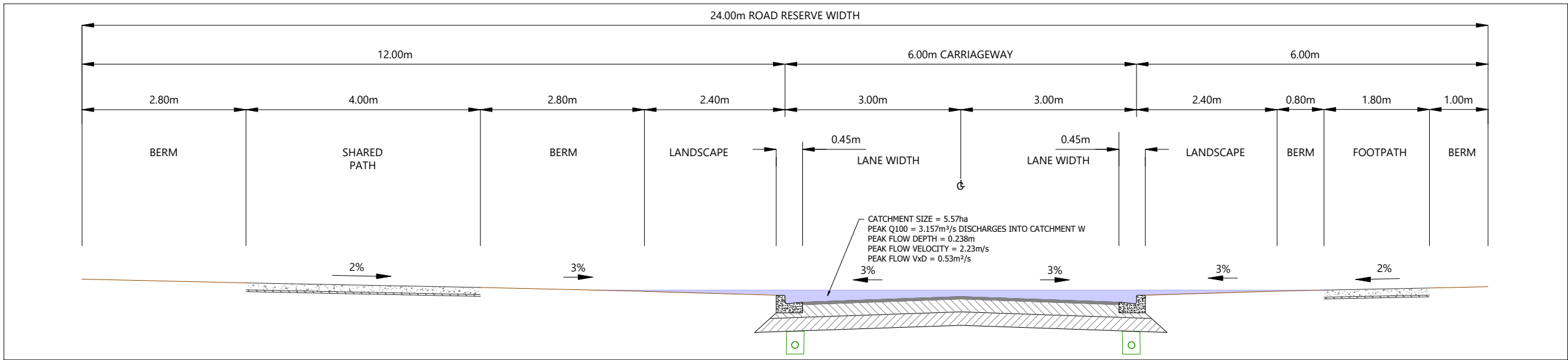
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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



MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 8

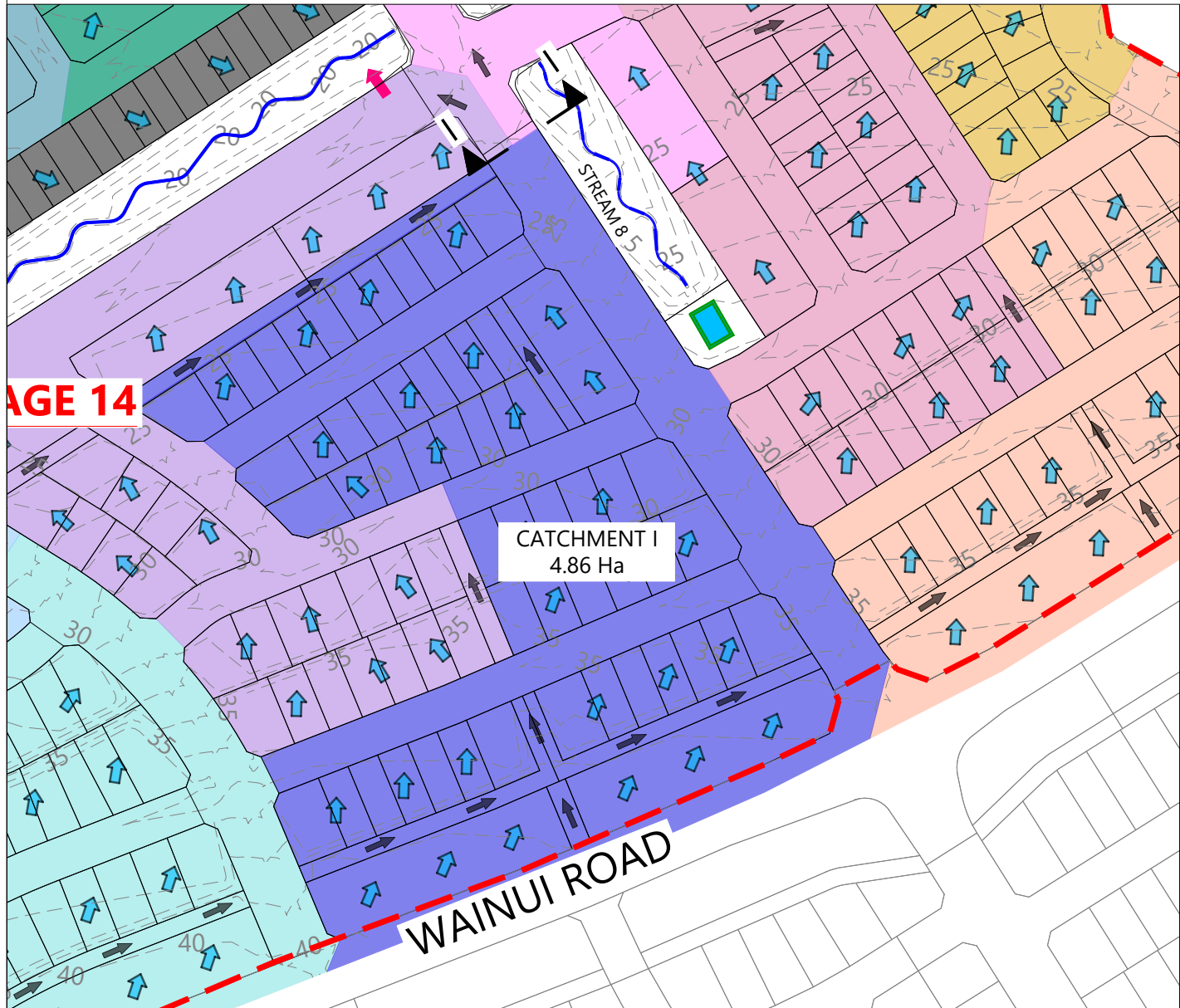
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SCALE	AS SHOWN	1
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DWG NO	P25-609-01-3028-DR	



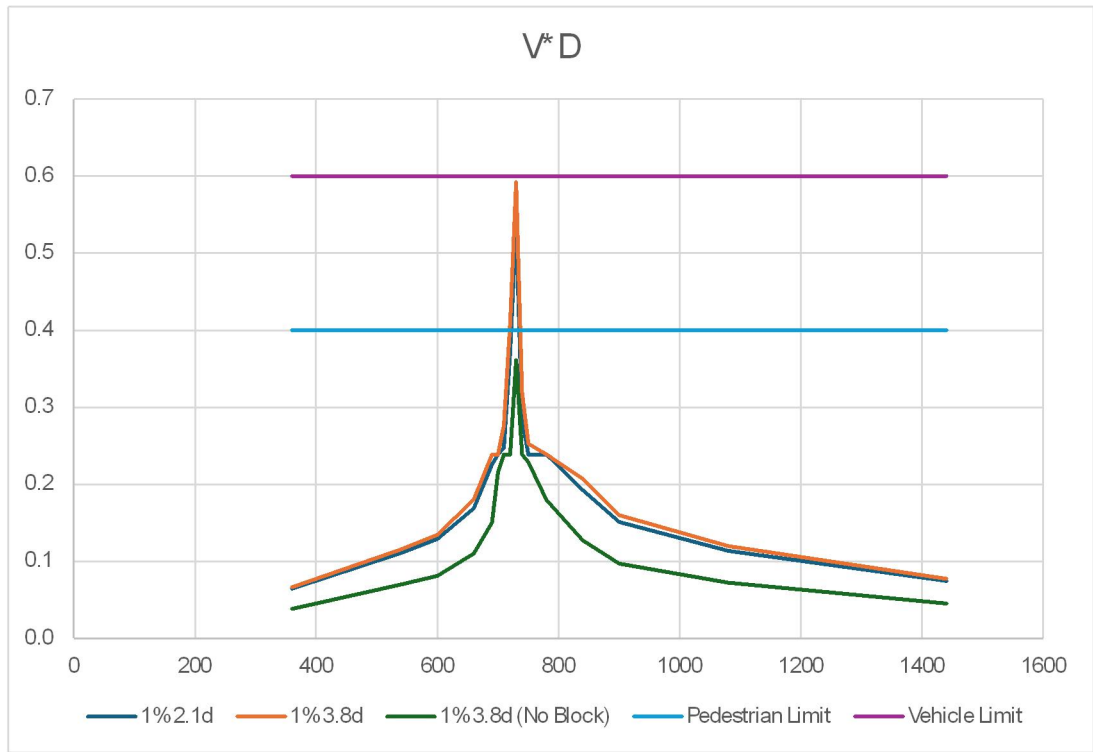
ROAD-SECTION H-H

Scale: 1:40@A1 - 1:80@A3





CATCHMENT I PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION I-I VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

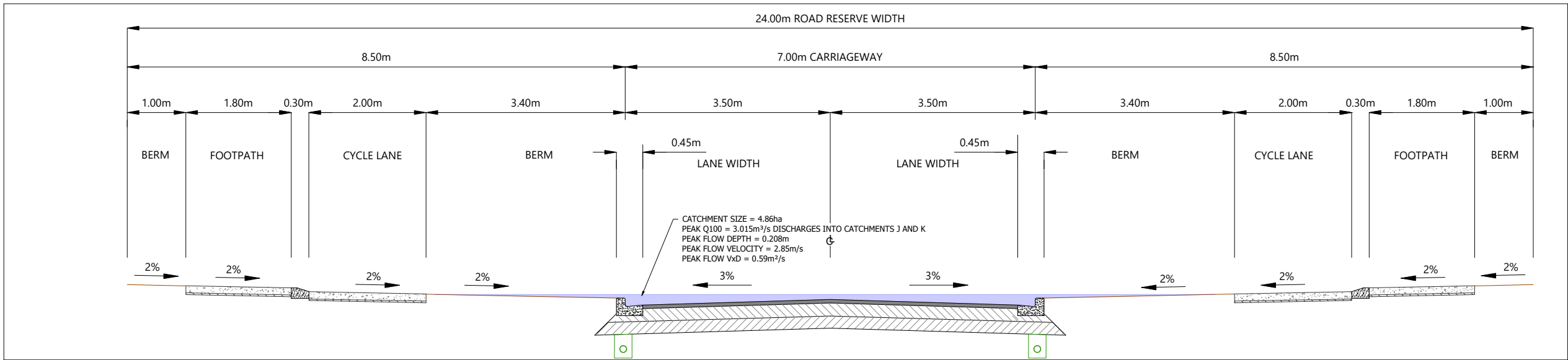
SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	MW	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

N

MILLDALE
Connecting Lives & Places

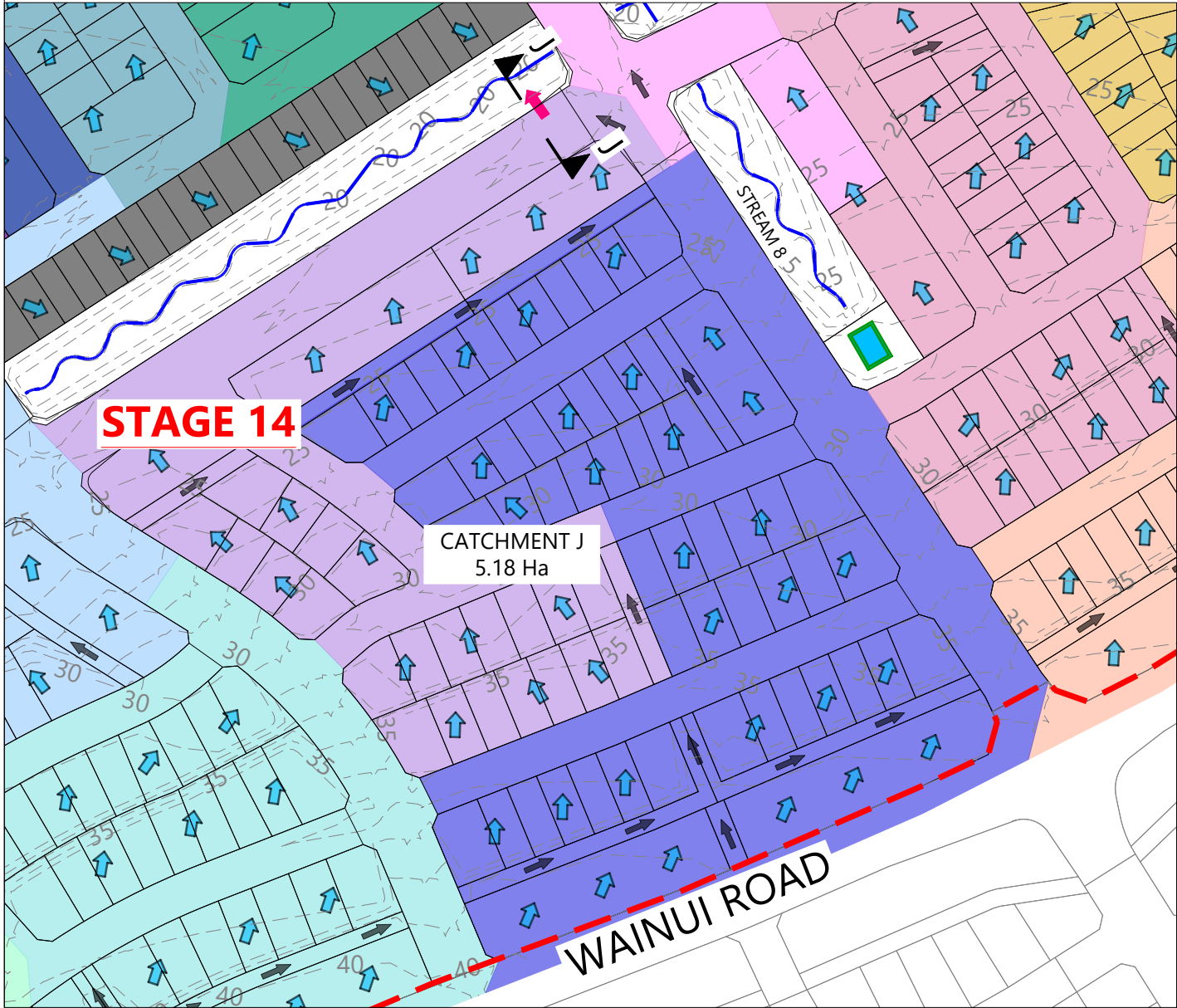
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 9

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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3029-DR	

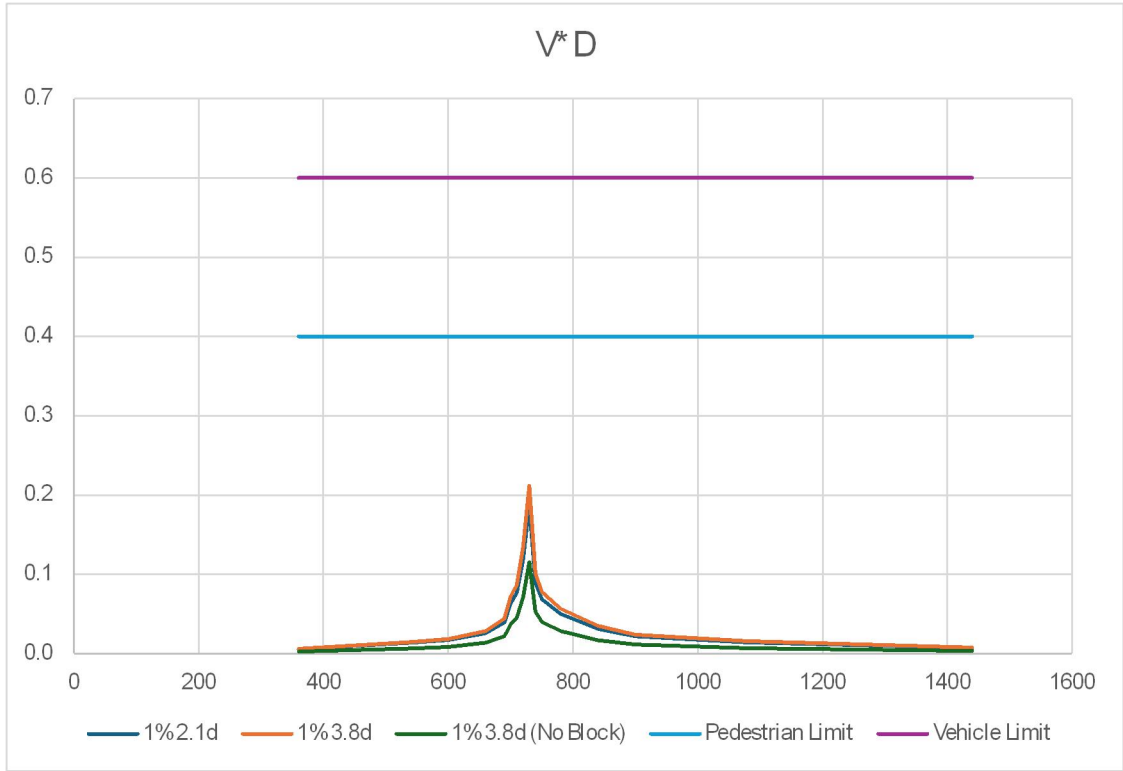


ROAD-SECTION I-I
Scale: 1:40@A1 - 1:80@A3





CATCHMENT J PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION J-J VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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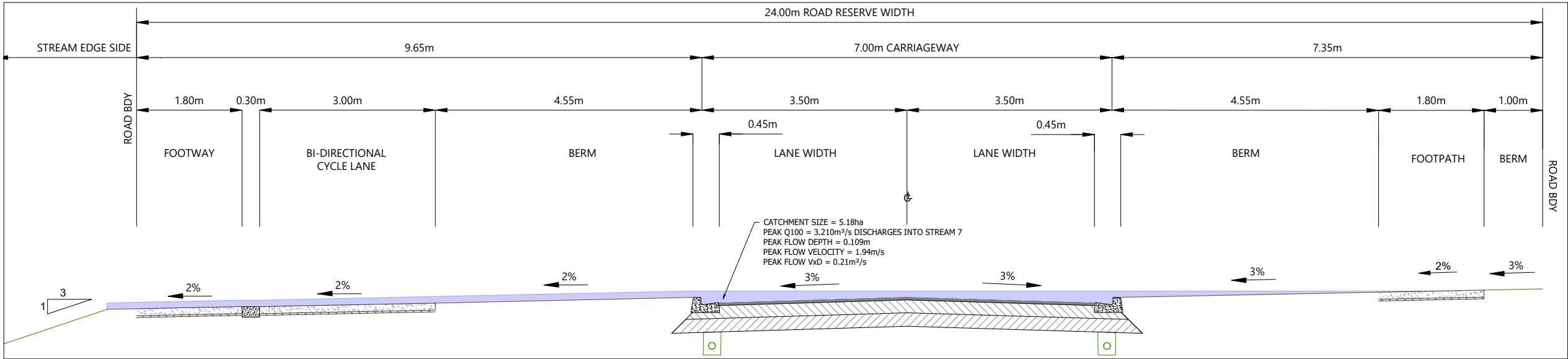
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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

Connecting Lifelines

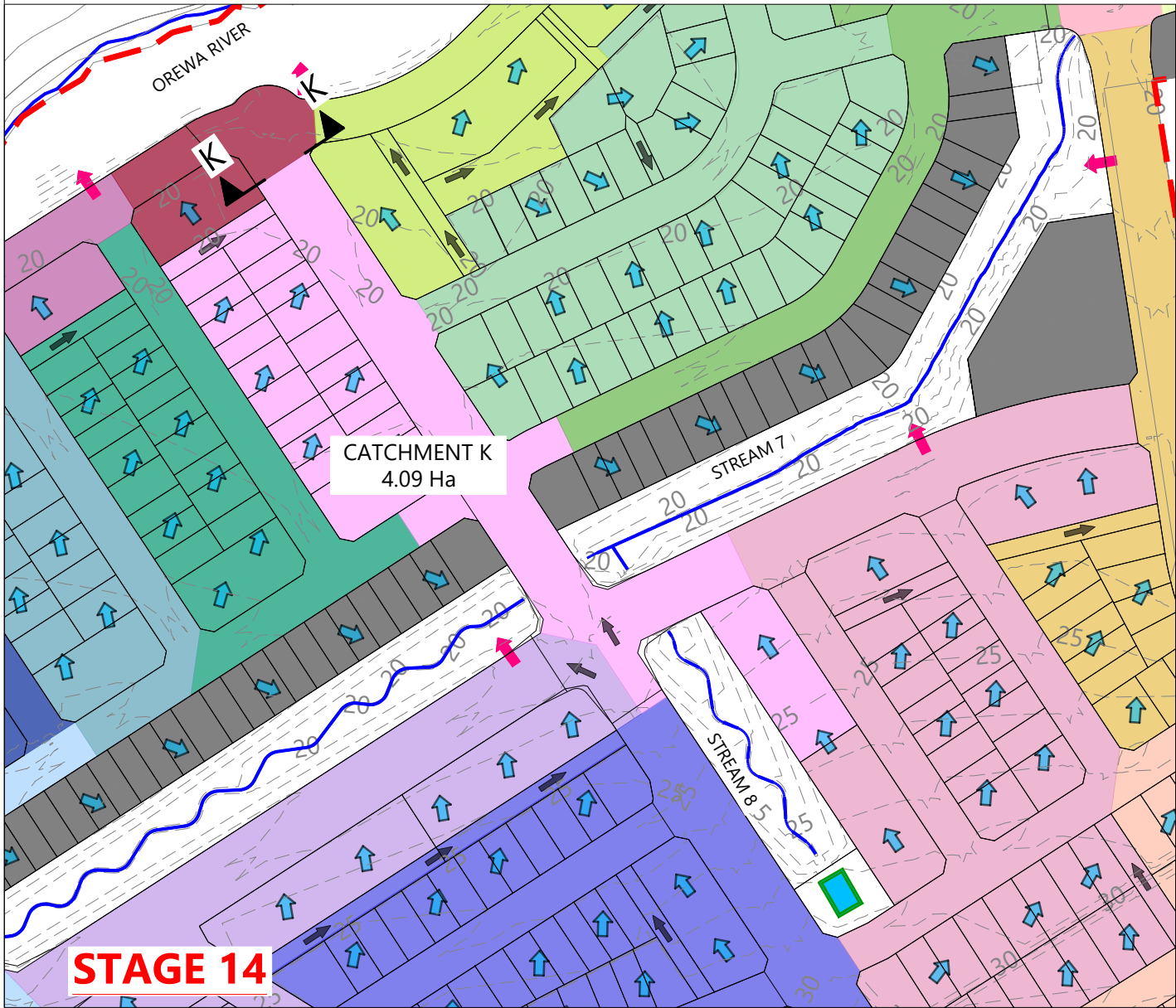
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 10

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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3030-DR	



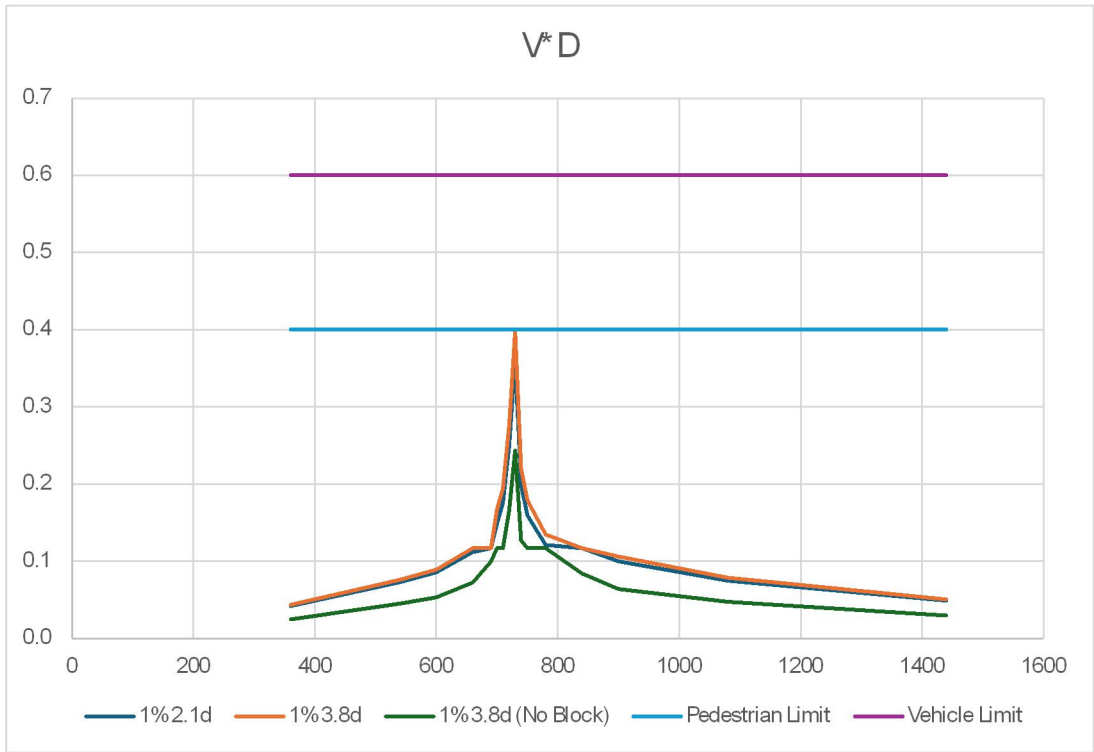
ROAD-SECTION J-J
Scale: 1:40@A1 - 1:80@A3





CATCHMENT K PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION K-K VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

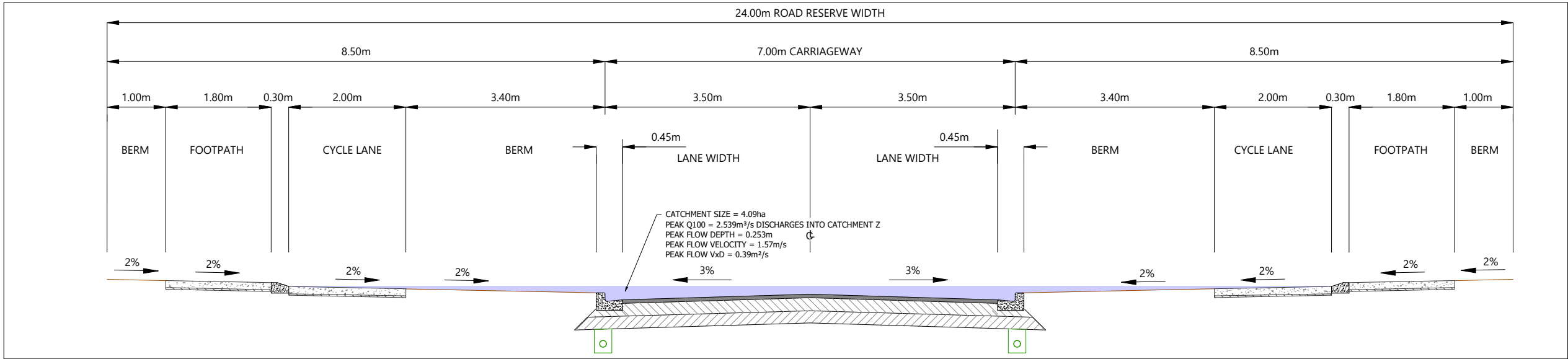
- STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 11

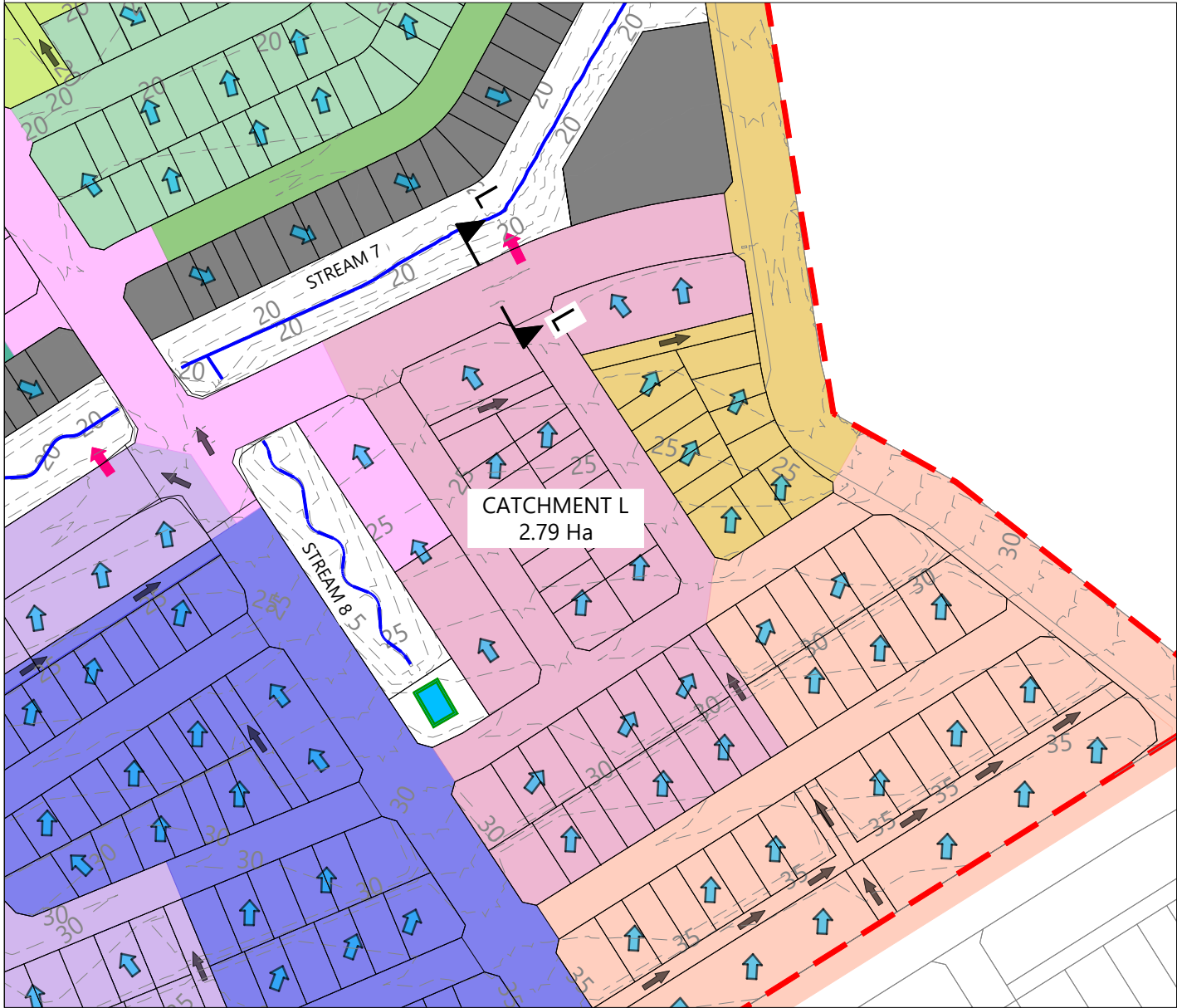
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SCALE	AS SHOWN	1
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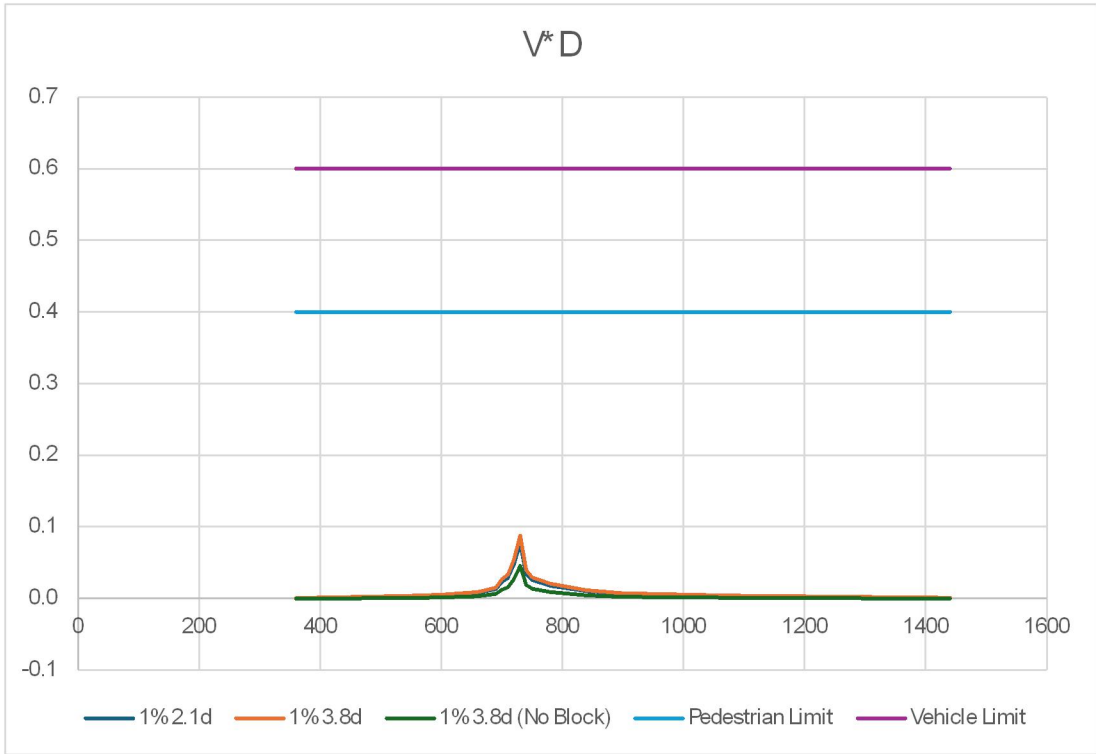
ROAD-SECTION K-K

Scale: 1:40@A1 - 1:80@A3





CATCHMENT L PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION L-L VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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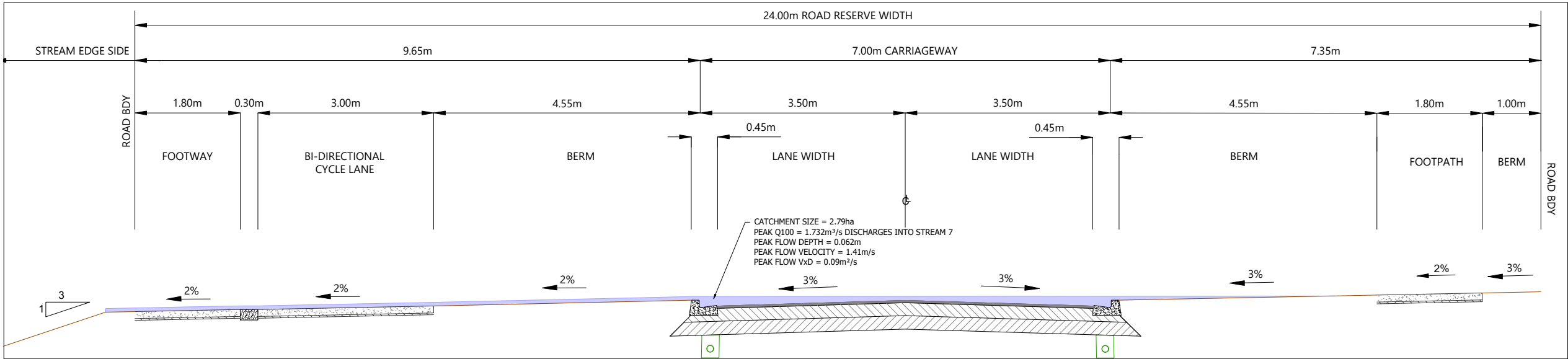
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

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MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 12

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3032-DR	



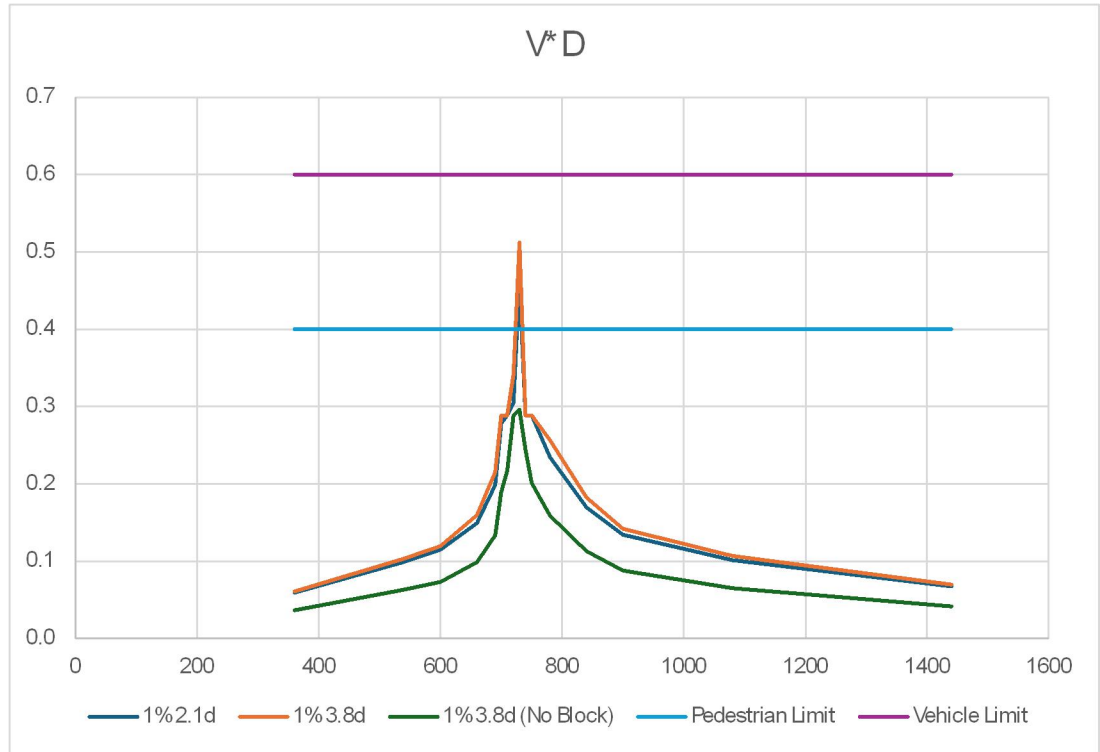
ROAD-SECTION L-L
Scale: 1:40@A1 - 1:80@A3





CATCHMENT M PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION M-M VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

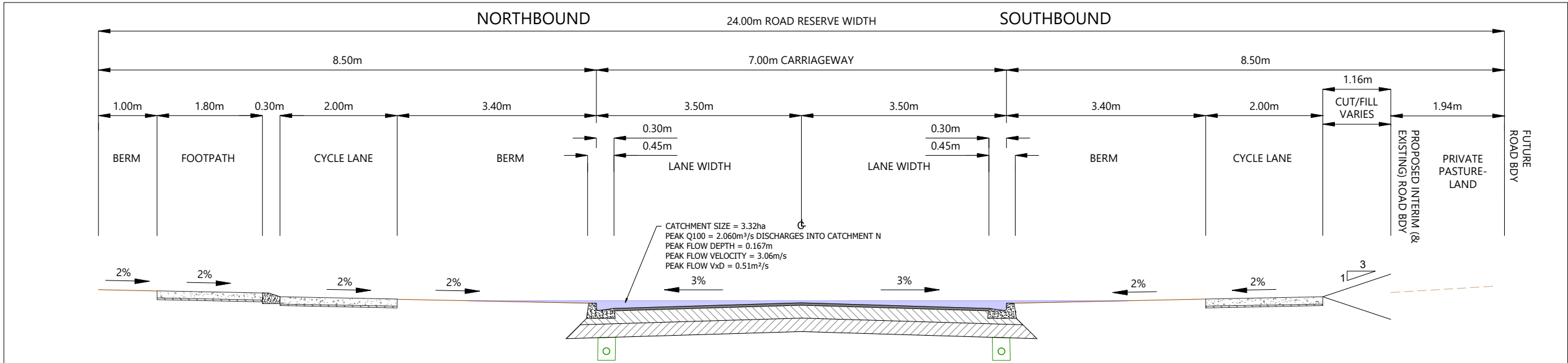
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 13

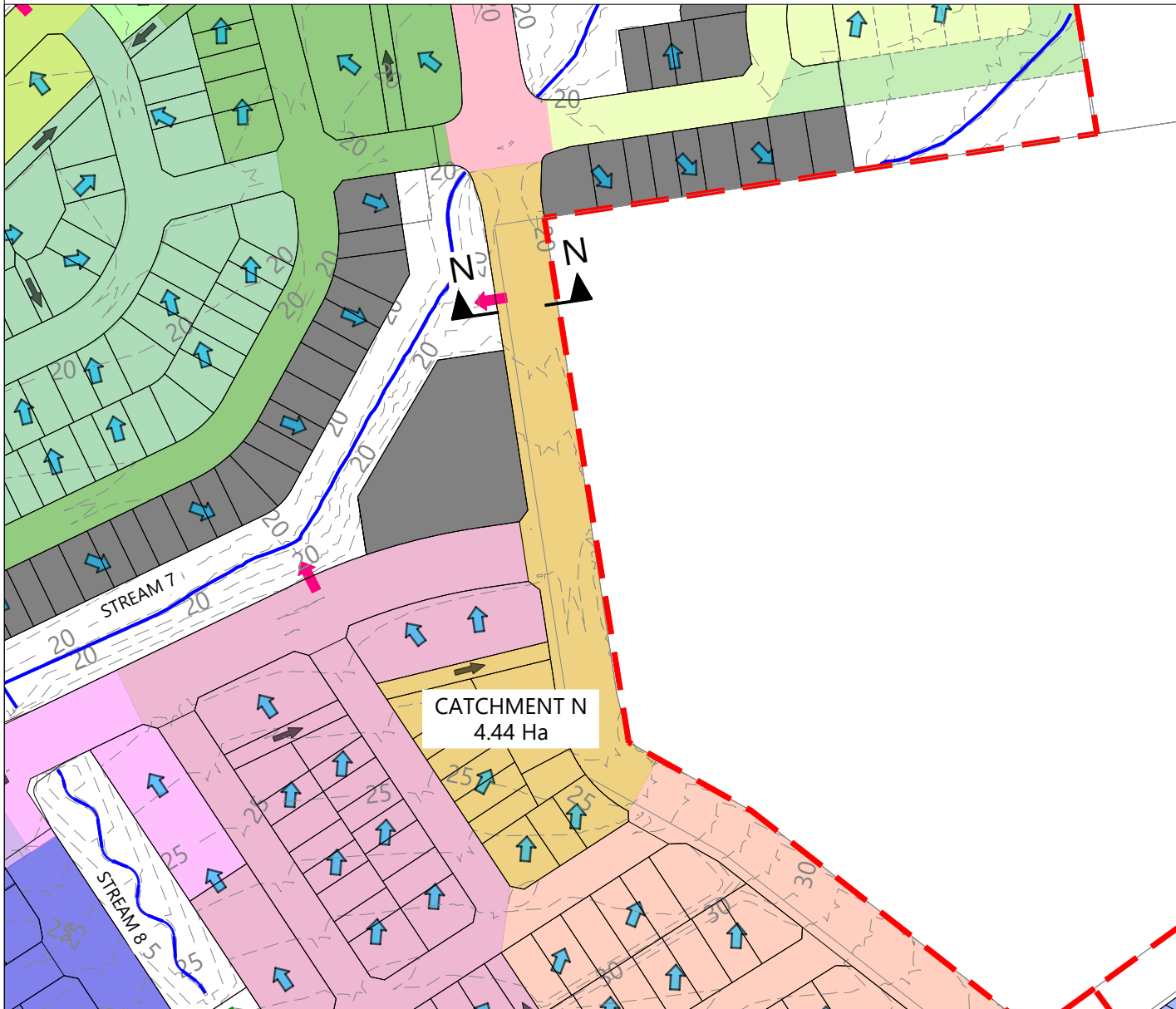
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3033-DR	



ROAD-SECTION M-M

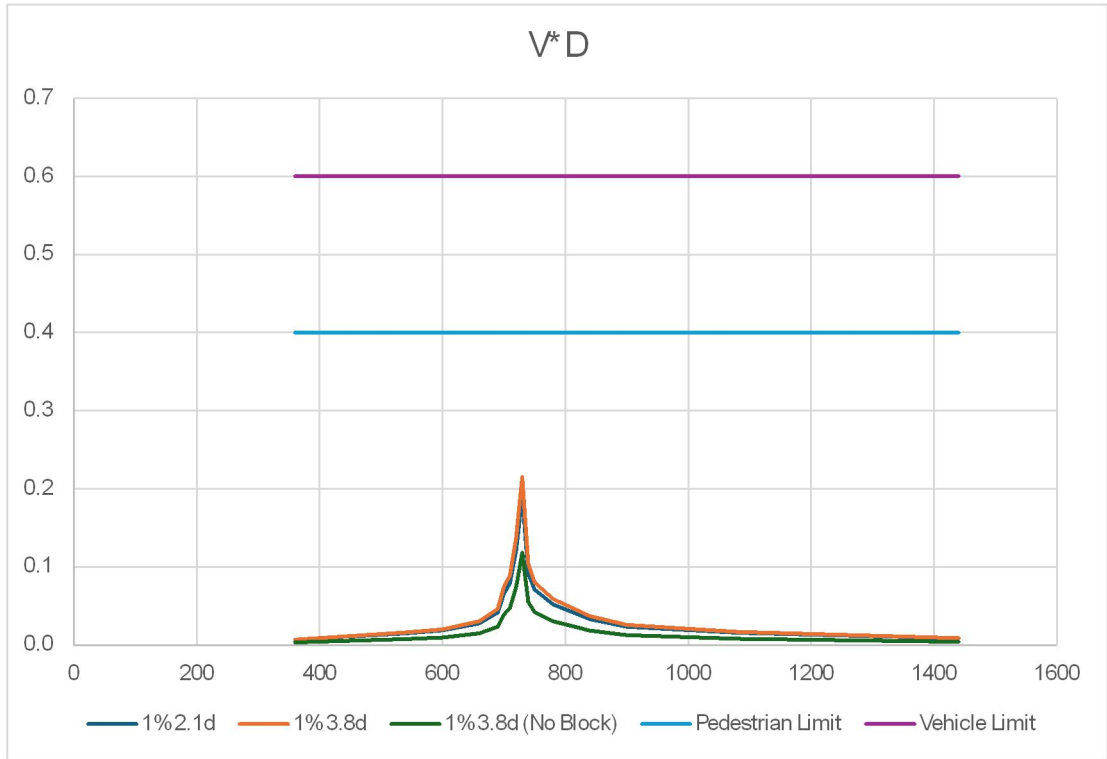
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CATCHMENT N PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION N-N VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

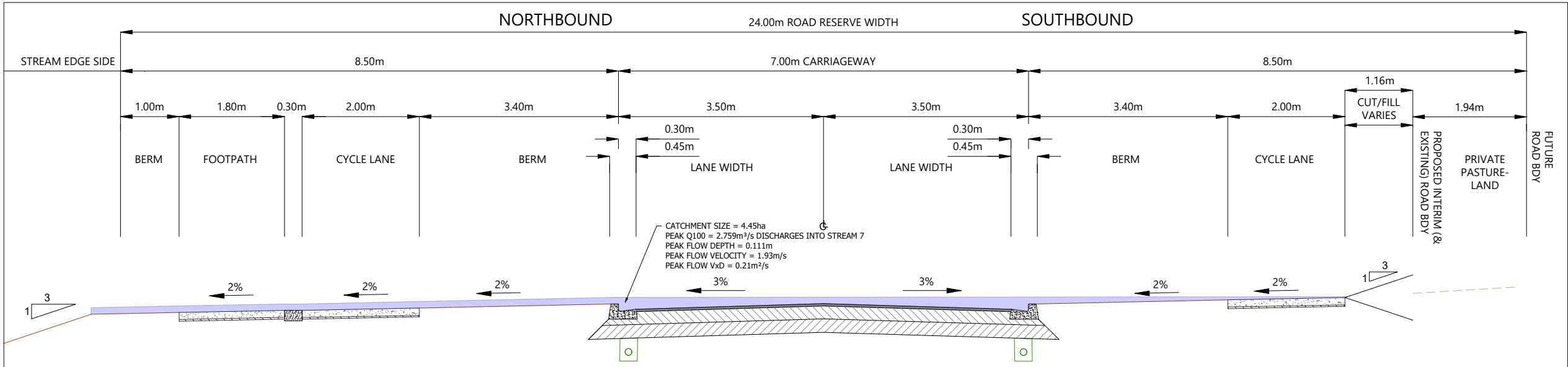
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 14

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3034-DR	

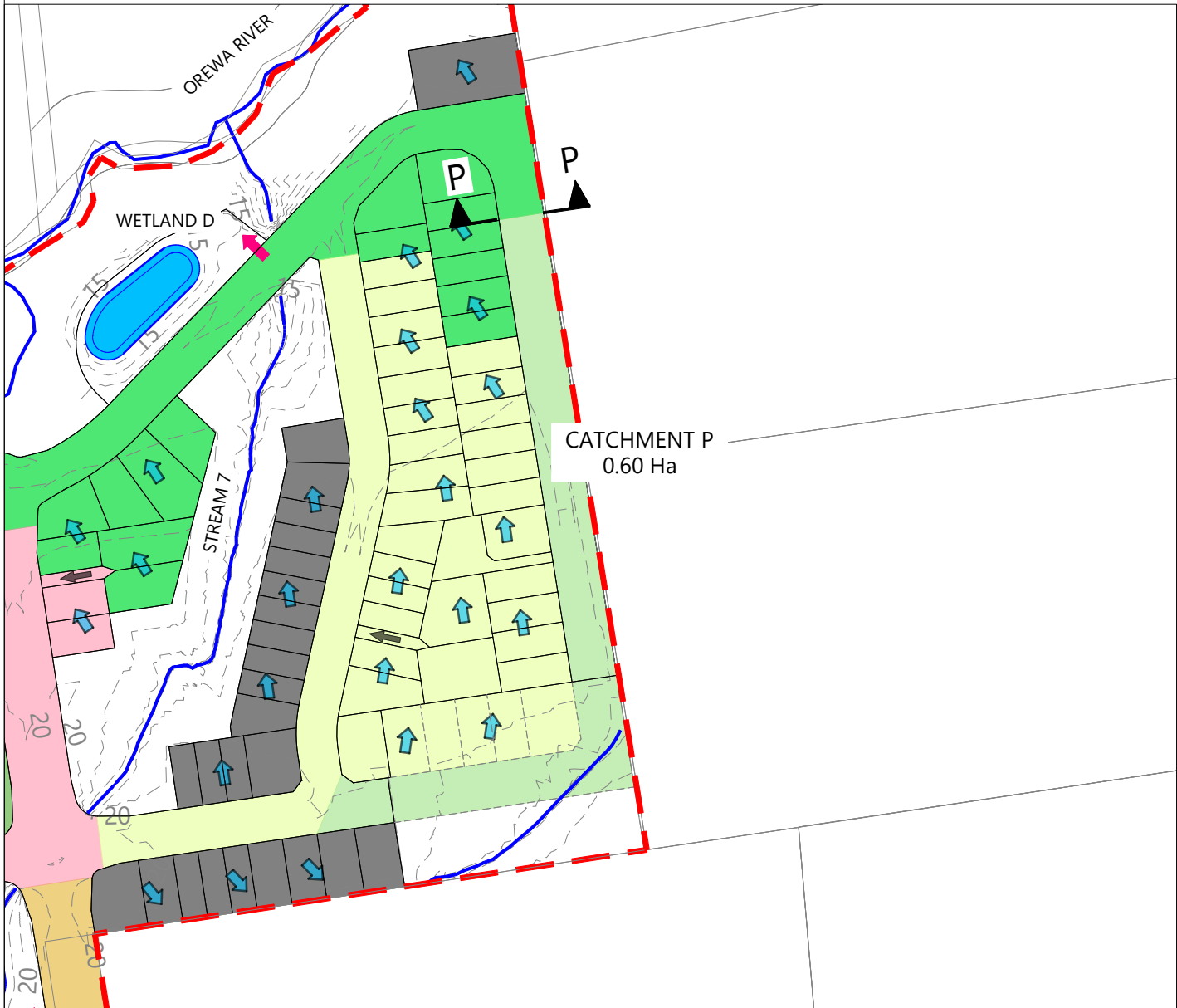


ROAD-SECTION N-N

Scale: 1:40@A1 - 1:80@A3

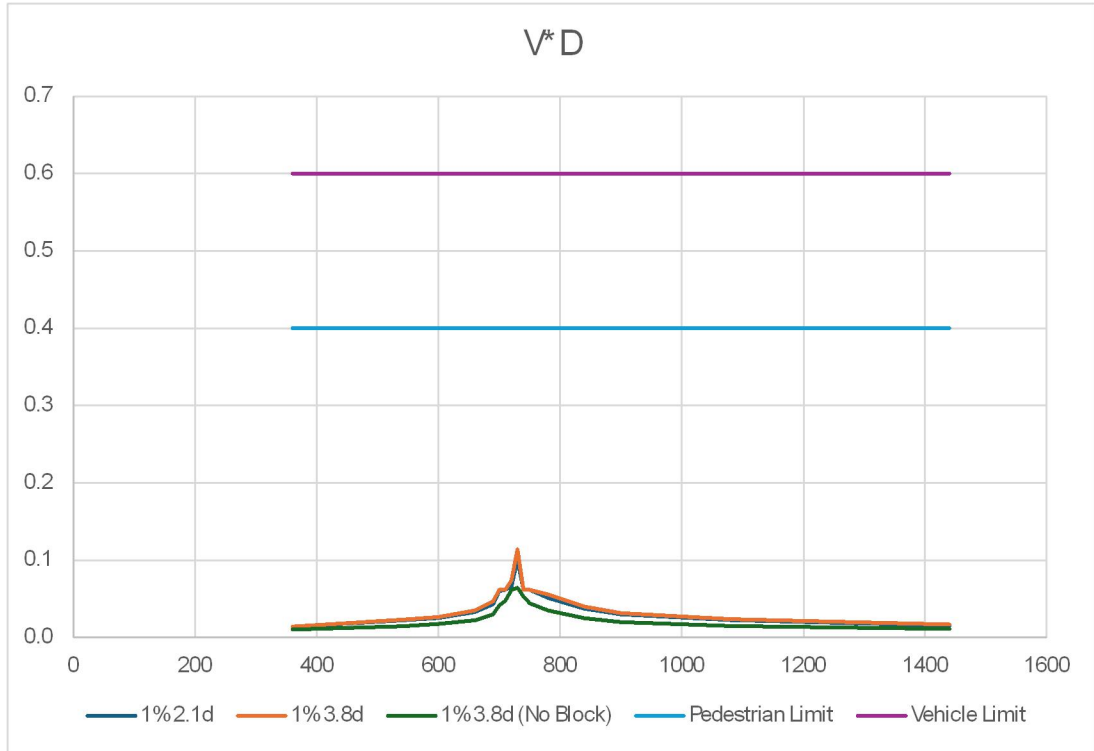






CATCHMENT P PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION P-P VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

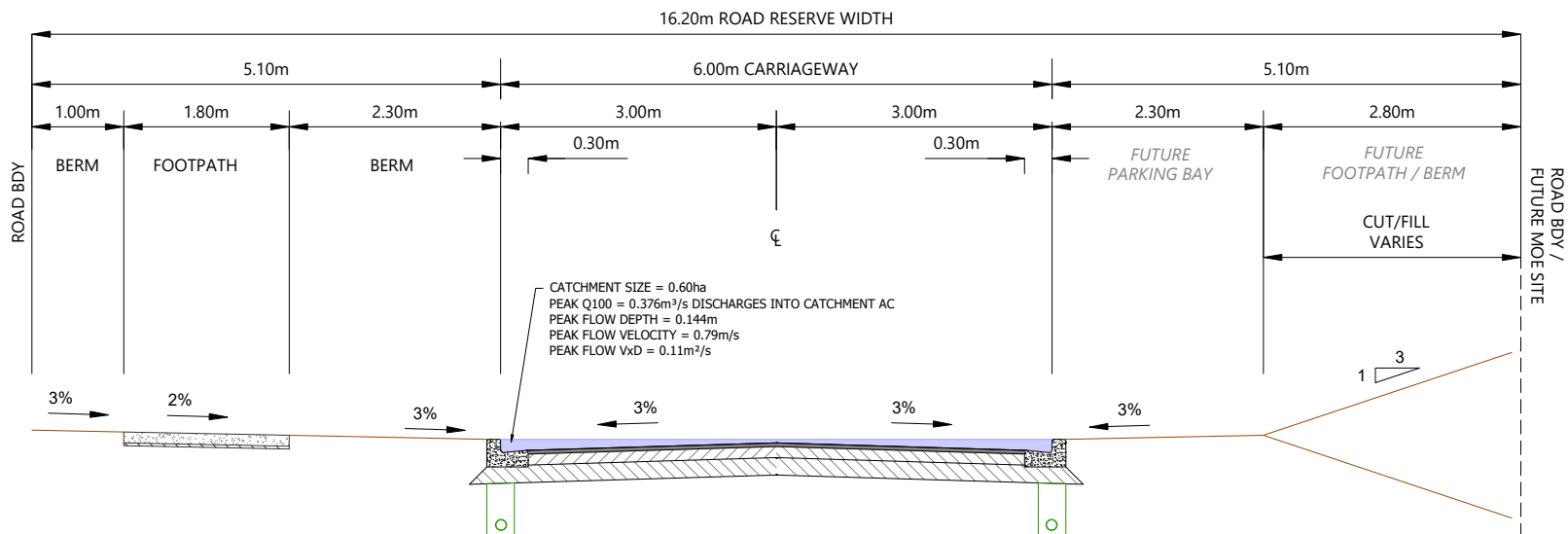
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 16

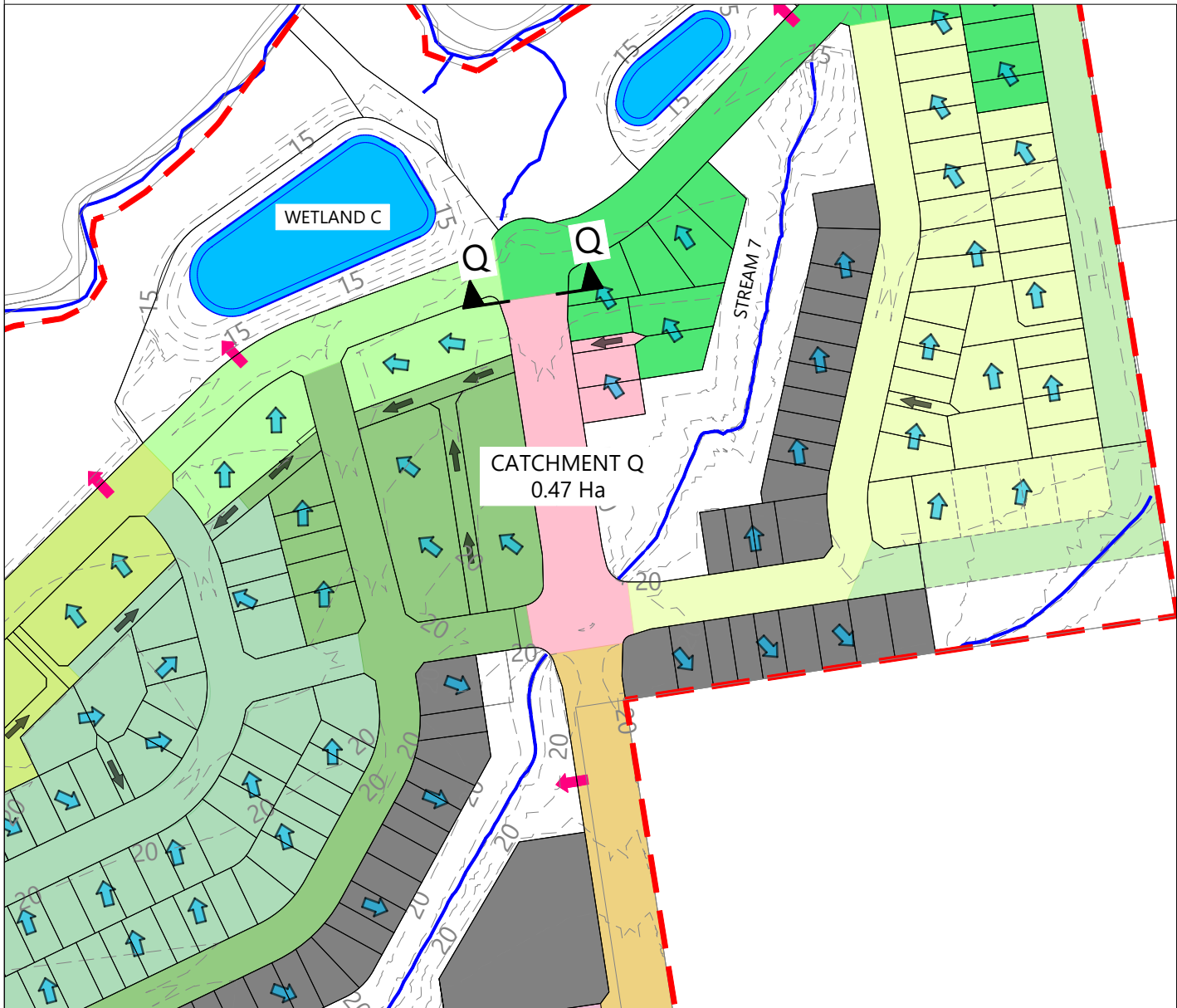
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COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3036-DR	



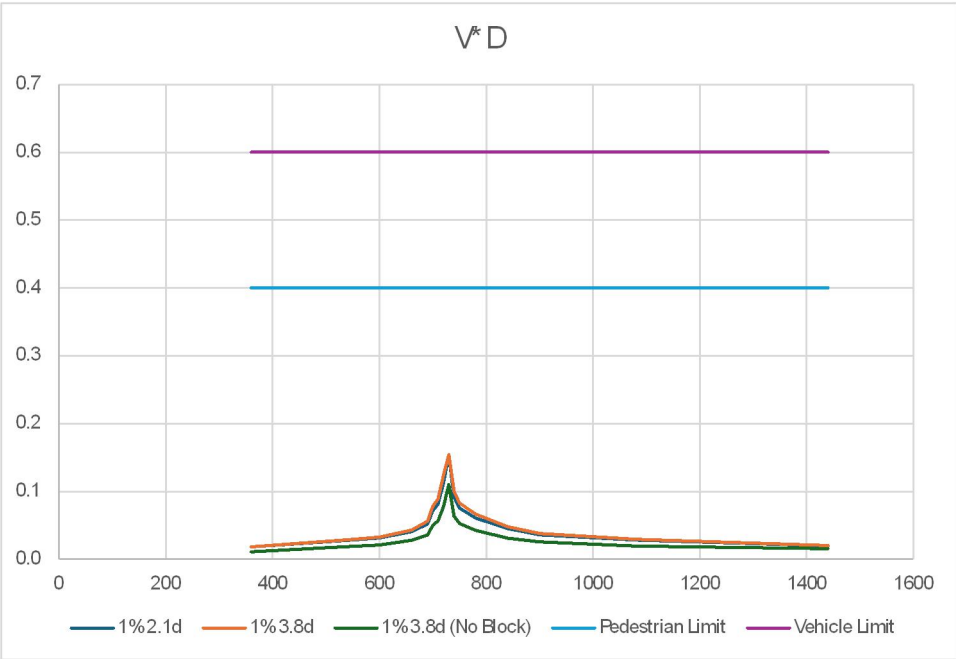
ROAD-SECTION P-P

Scale: 1:40@A1 - 1:80@A3





CATCHMENT Q PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION Q-Q VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

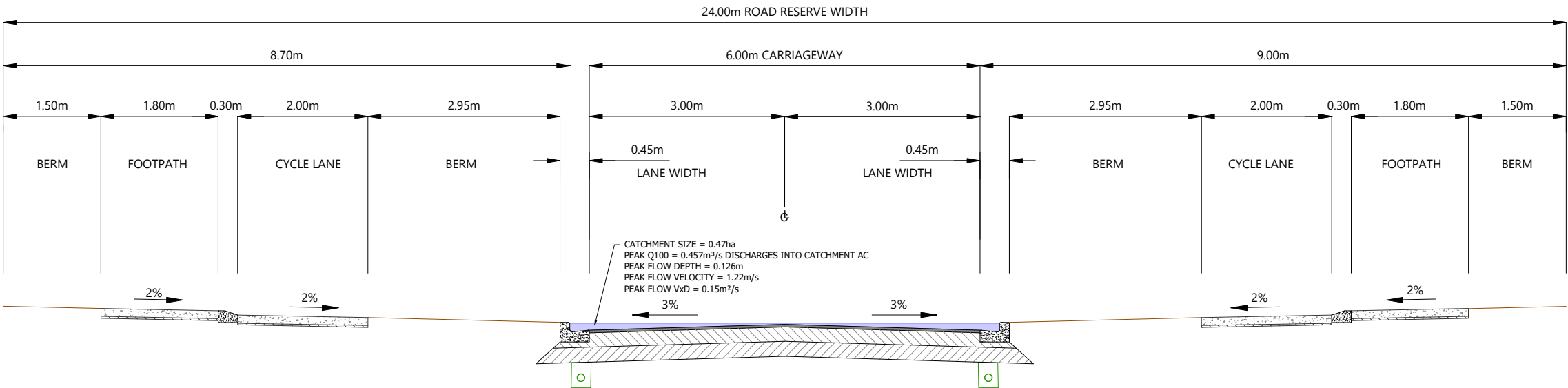
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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



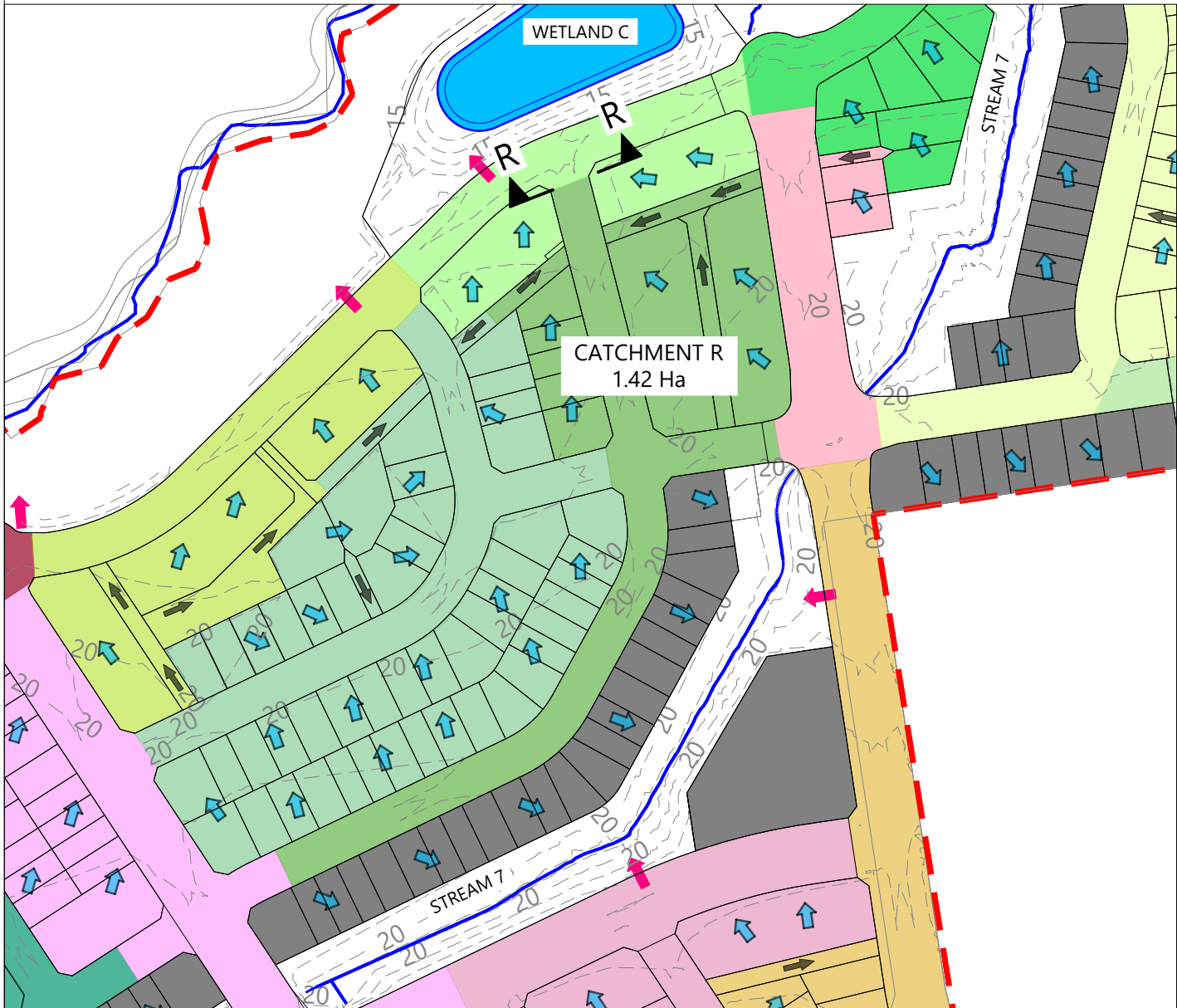
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 17

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3037-DR	

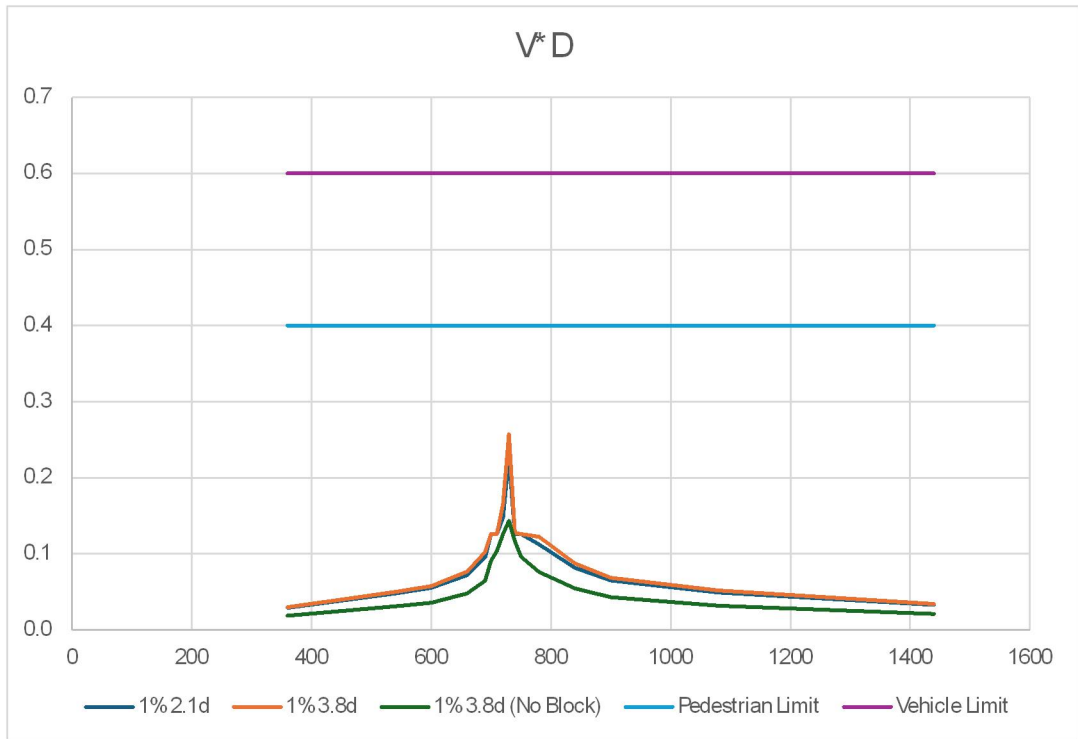


ROAD-SECTION Q-Q
Scale: 1:40@A1 - 1:80@A3





CATCHMENT R PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION R-R VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

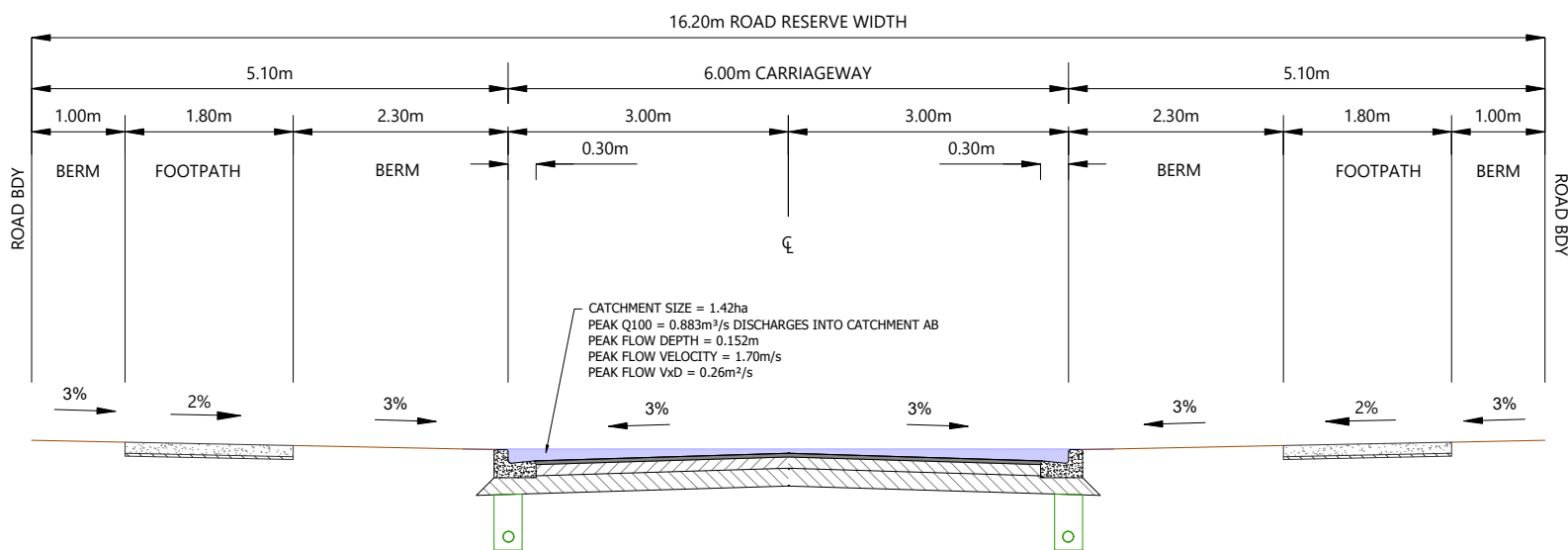
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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



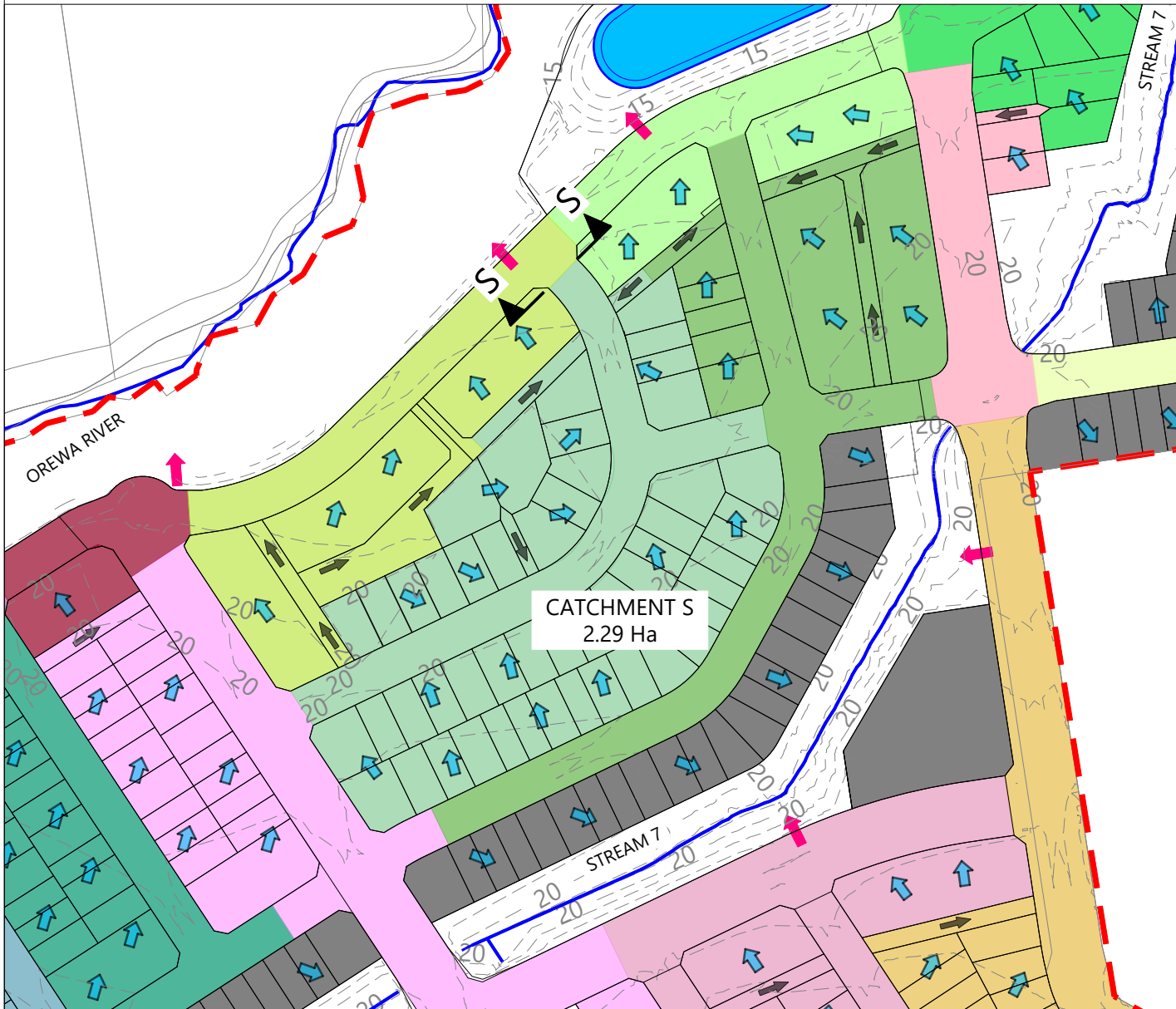
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 18

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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3038-DR	



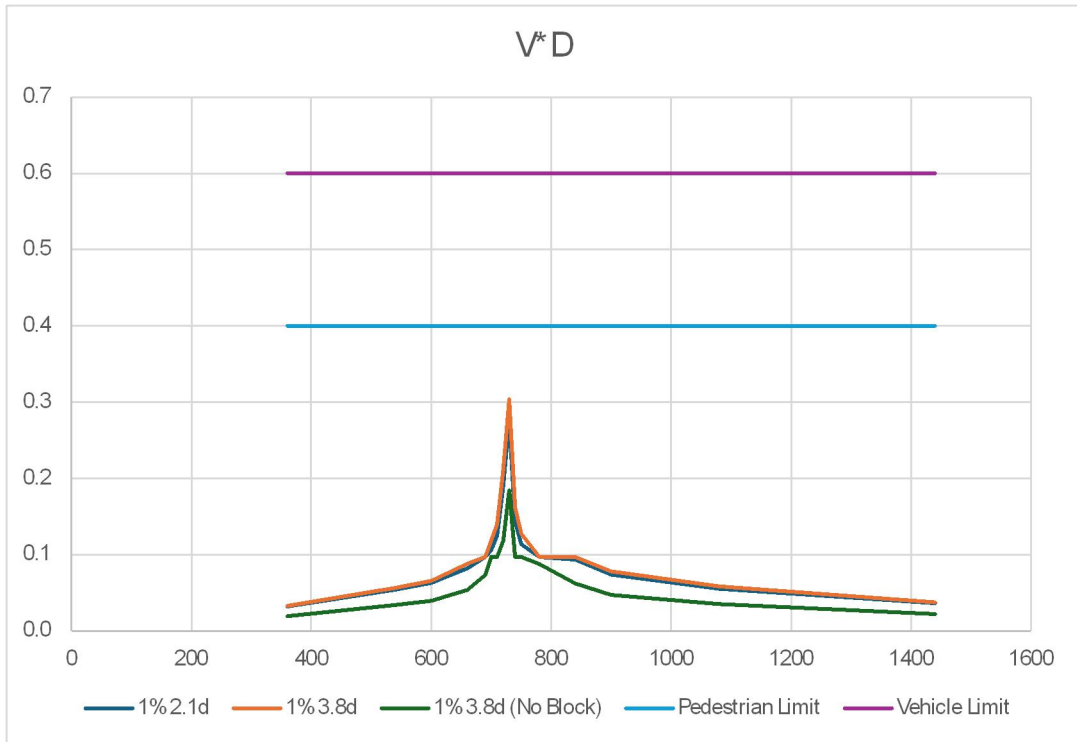
ROAD-SECTION R-R
Scale: 1:40@A1 - 1:80@A3





CATCHMENT S PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION S-S VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

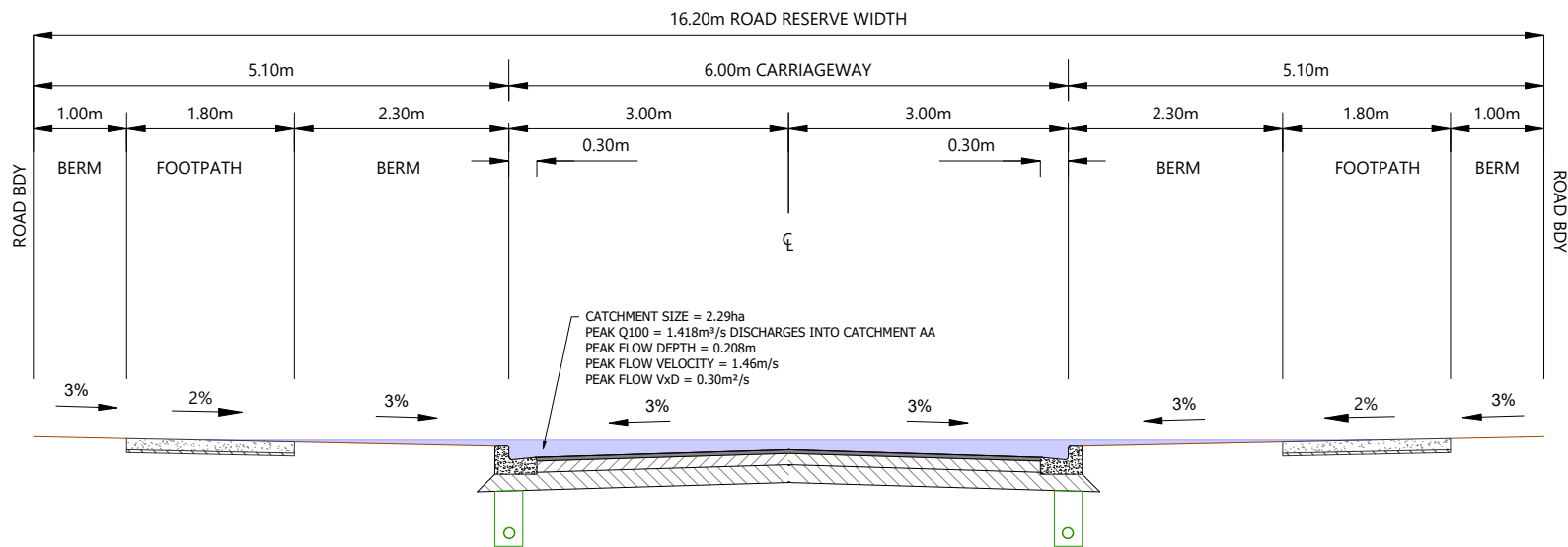
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 19

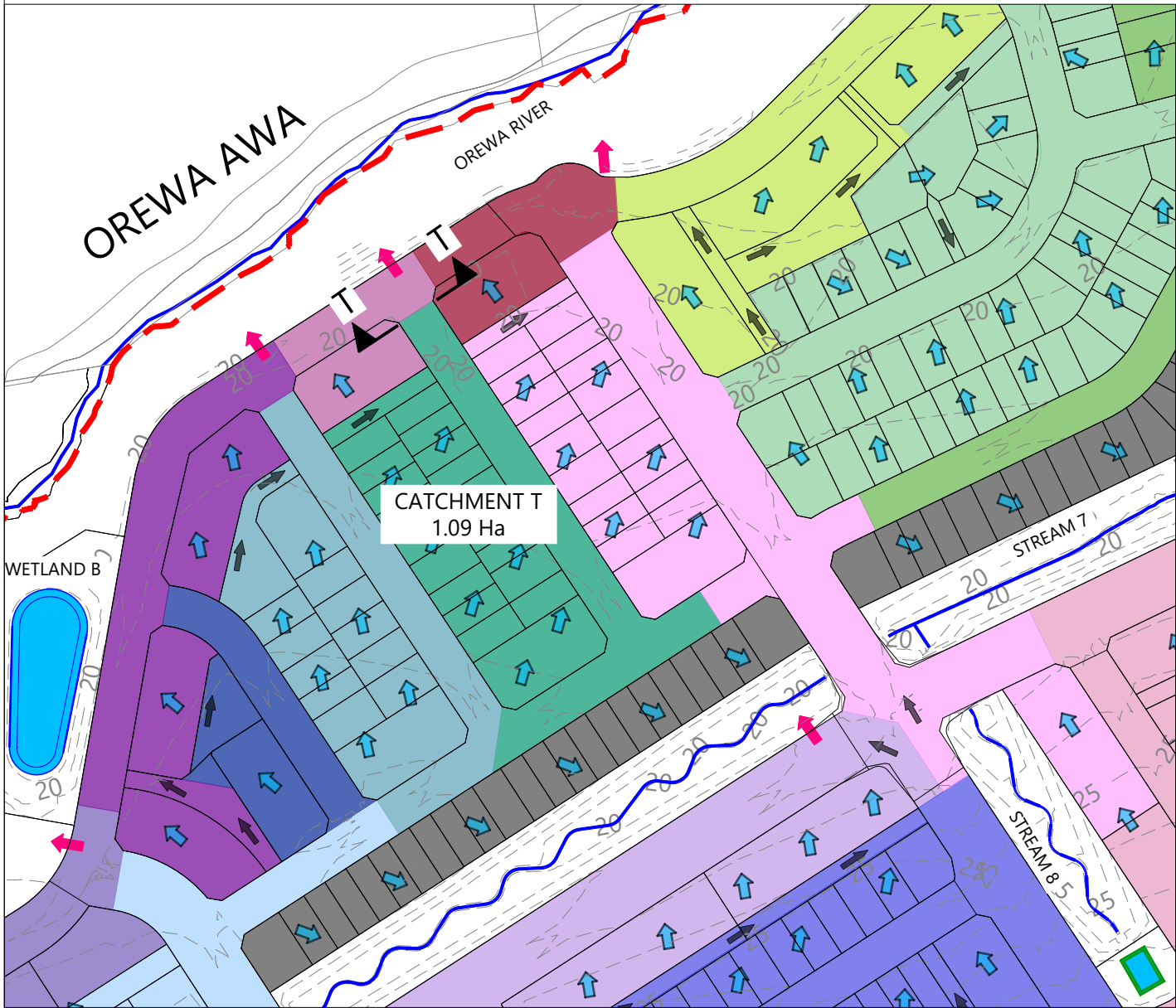
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3039-DR	



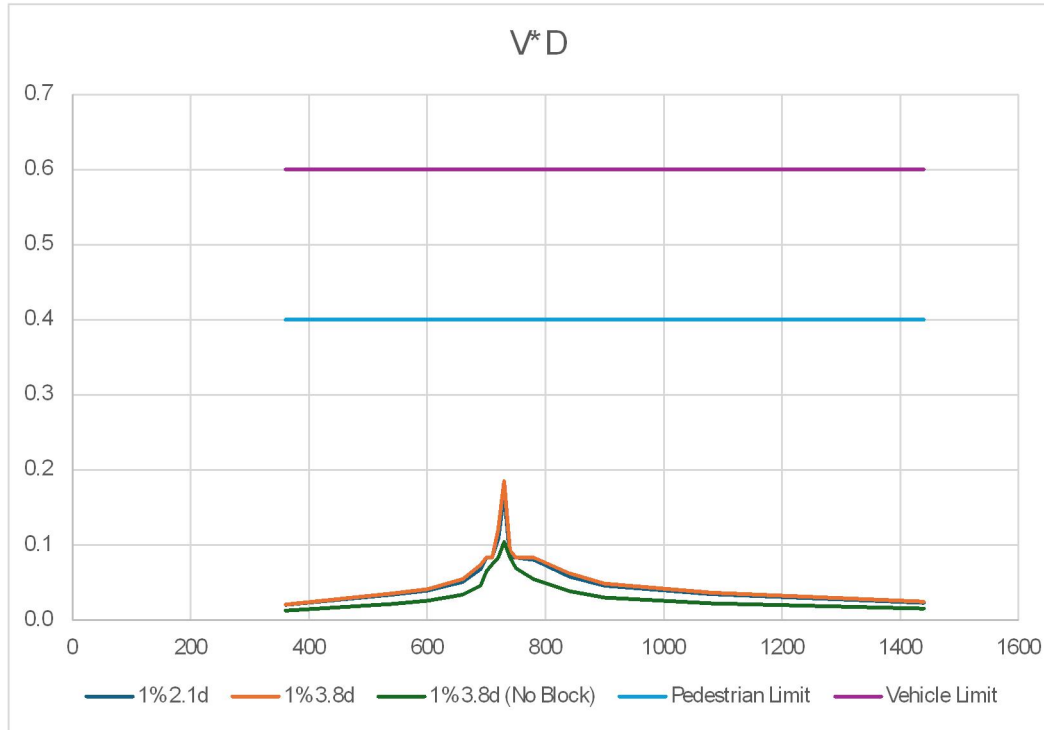
ROAD-SECTION S-S

Scale: 1:40@A1 - 1:80@A3





CATCHMENT T PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION T-T VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

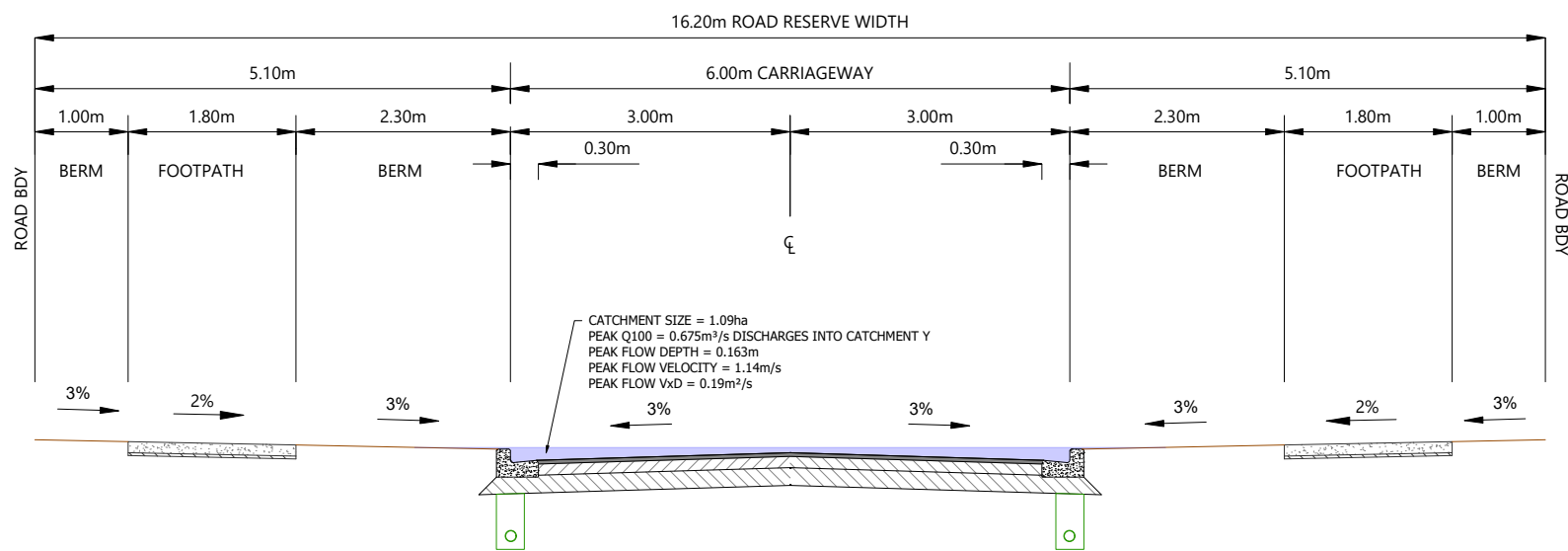
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

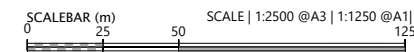


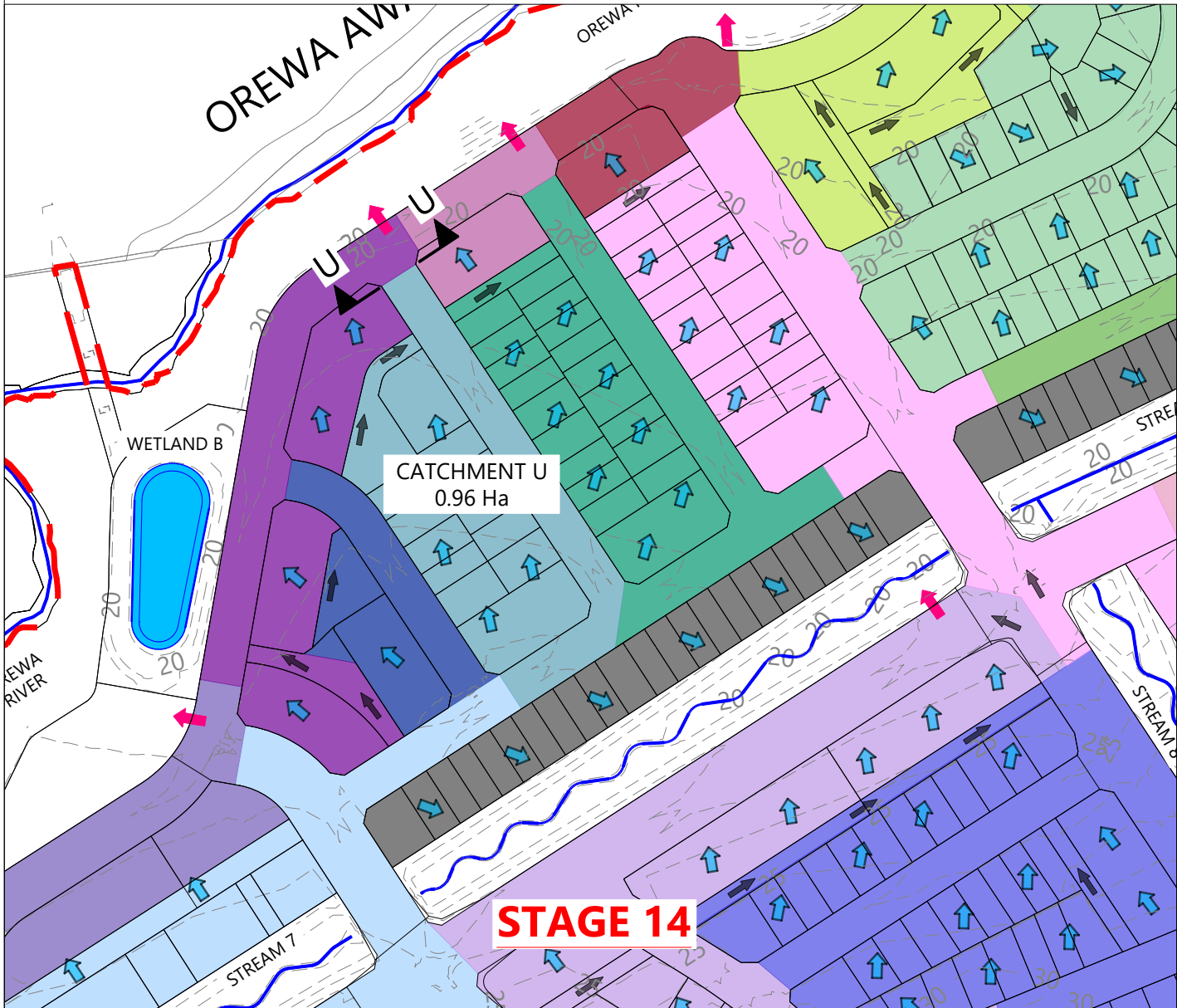
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 20

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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3040-DR	



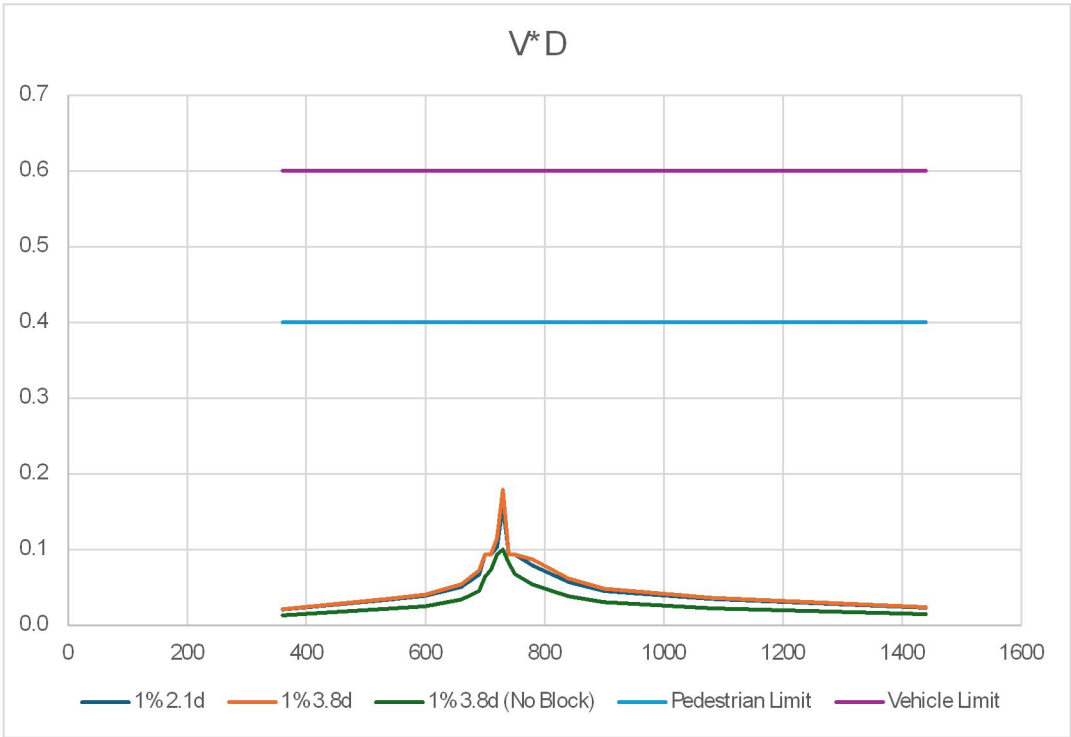
ROAD-SECTION T-T
Scale: 1:40@A1 - 1:80@A3





CATCHMENT U PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION U-U VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

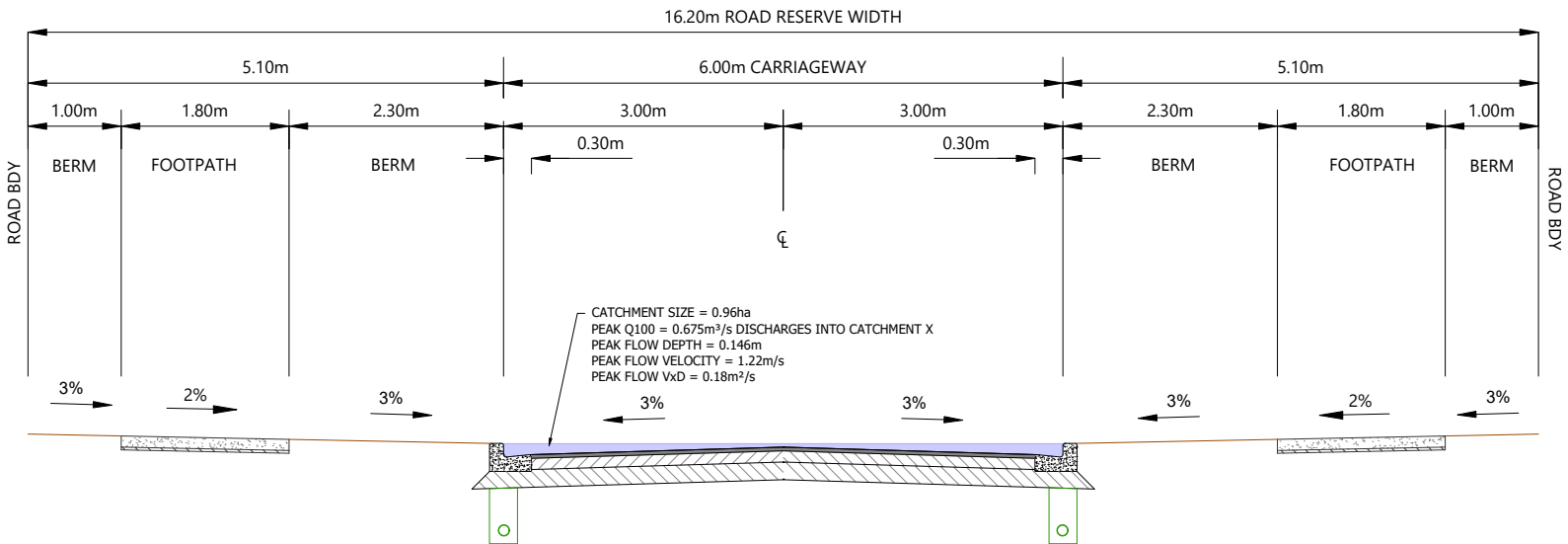
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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



MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 21

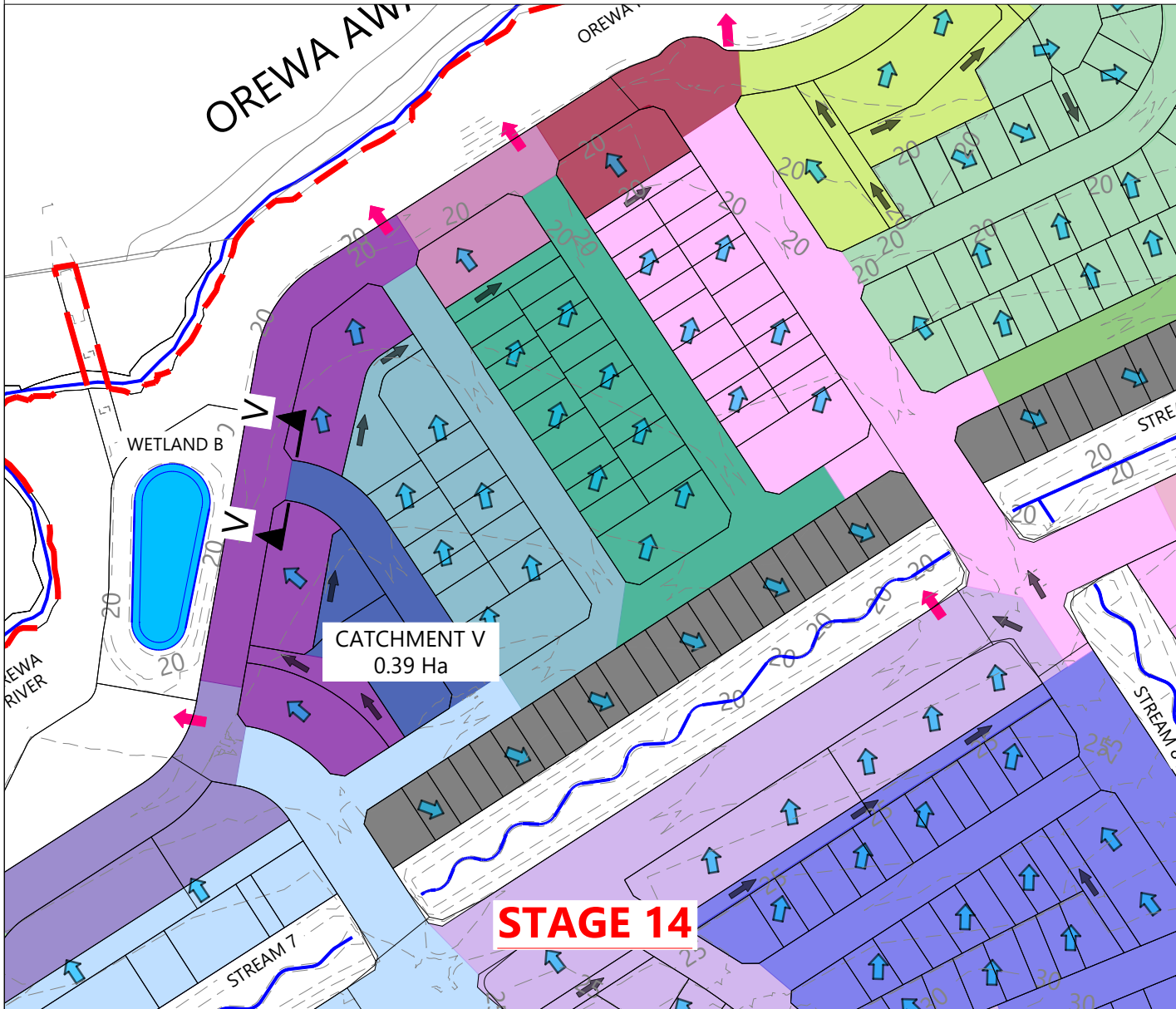
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COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3041-DR	



ROAD-SECTION U-U

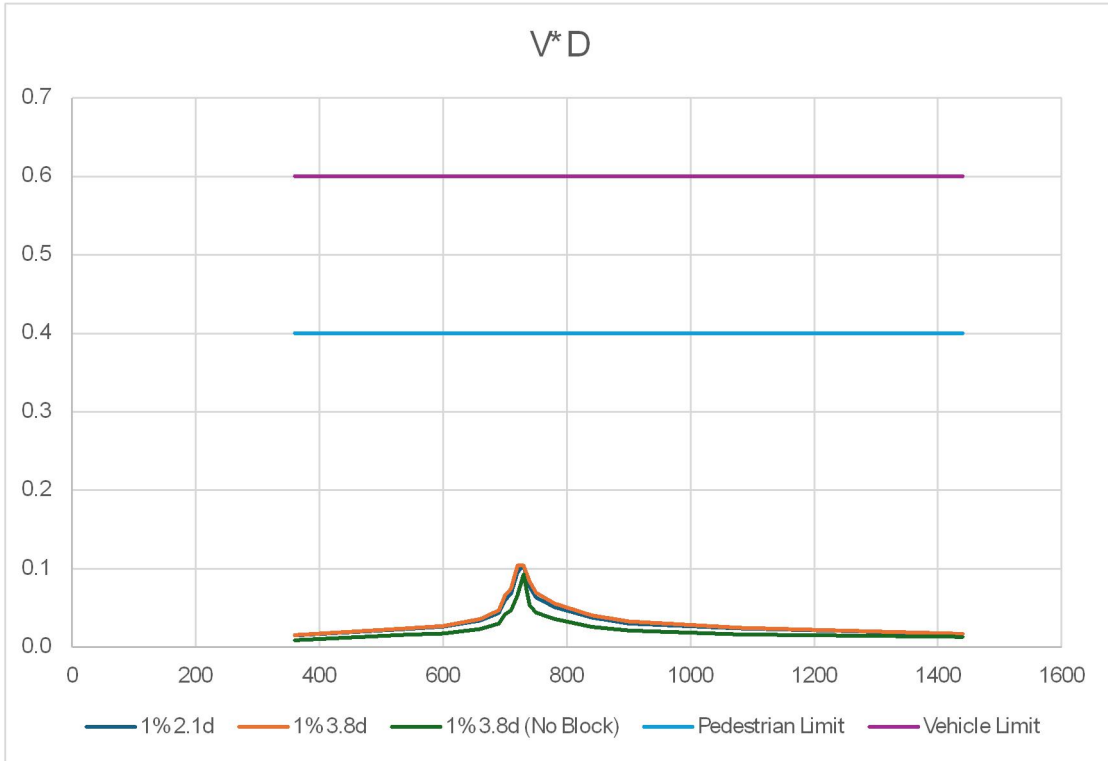
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CATCHMENT V PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION V-V VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

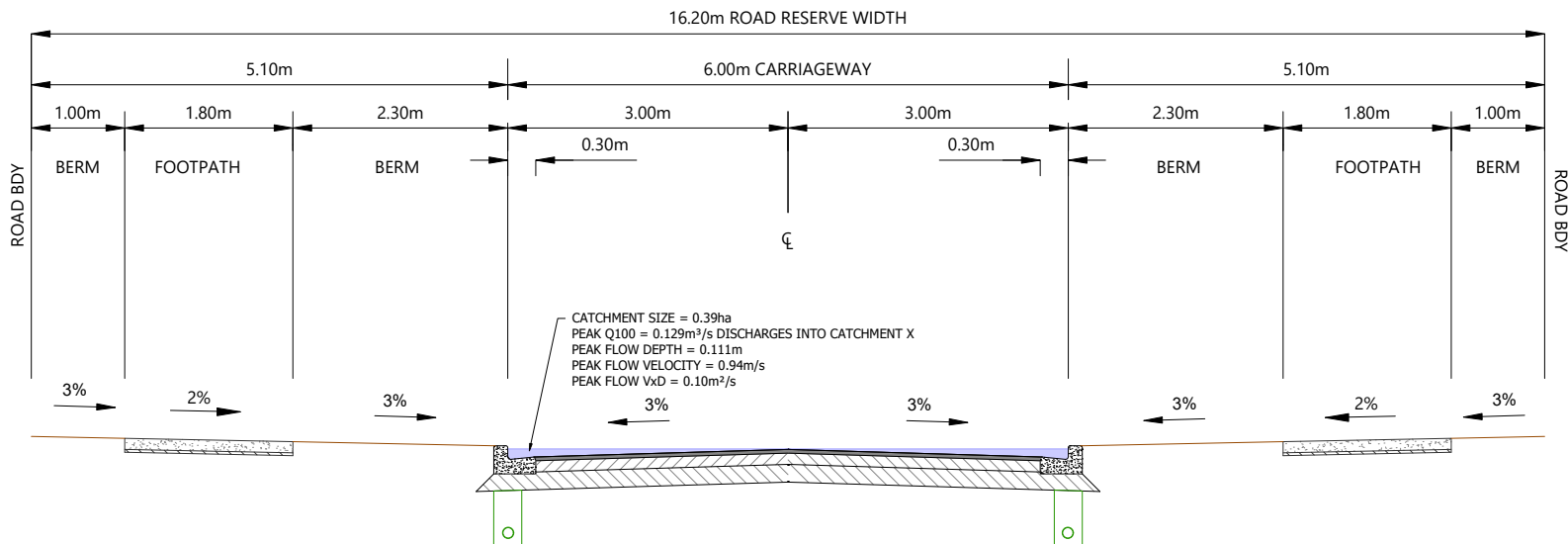
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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



MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 22

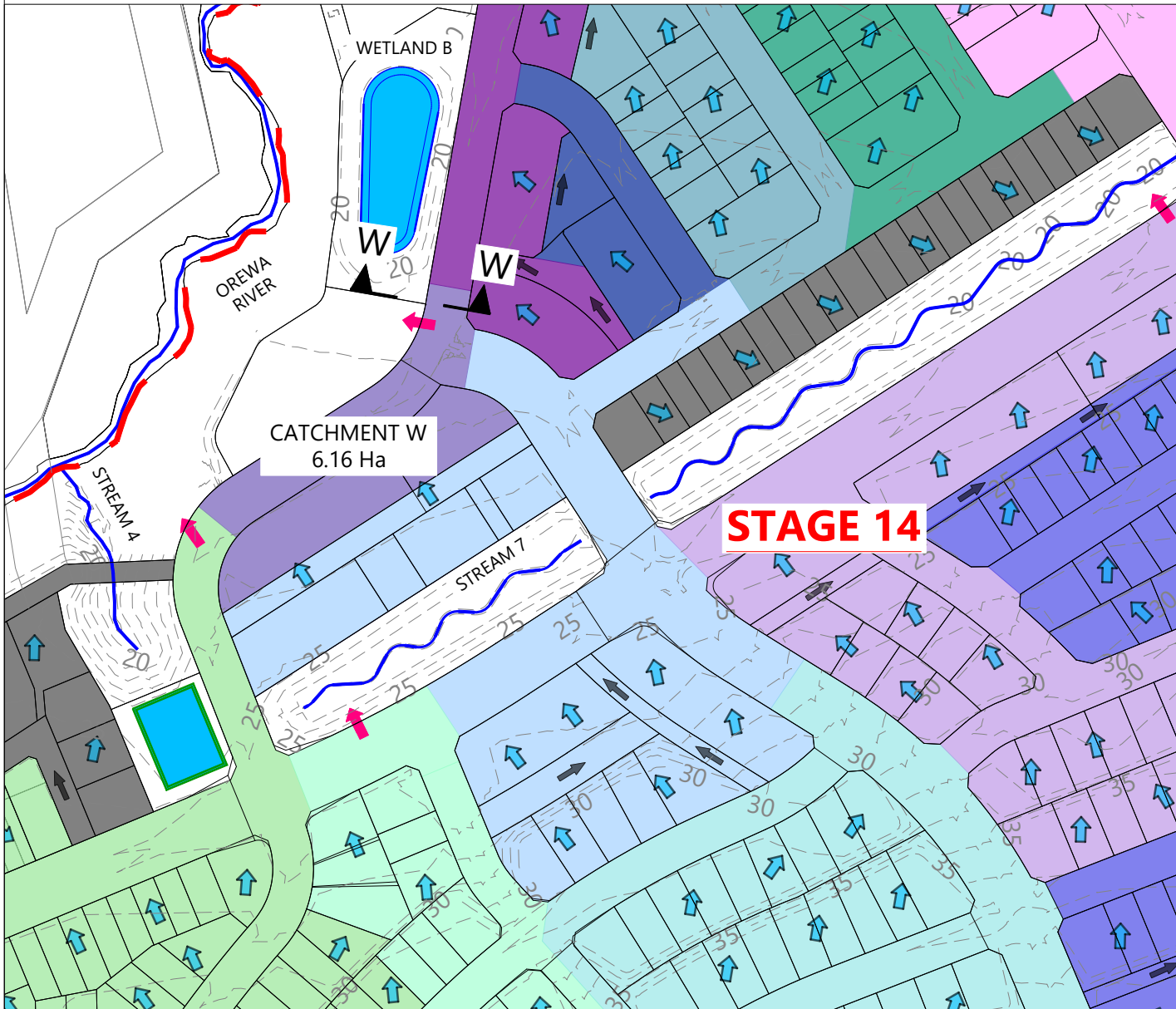
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3042-DR	



ROAD-SECTION V-V

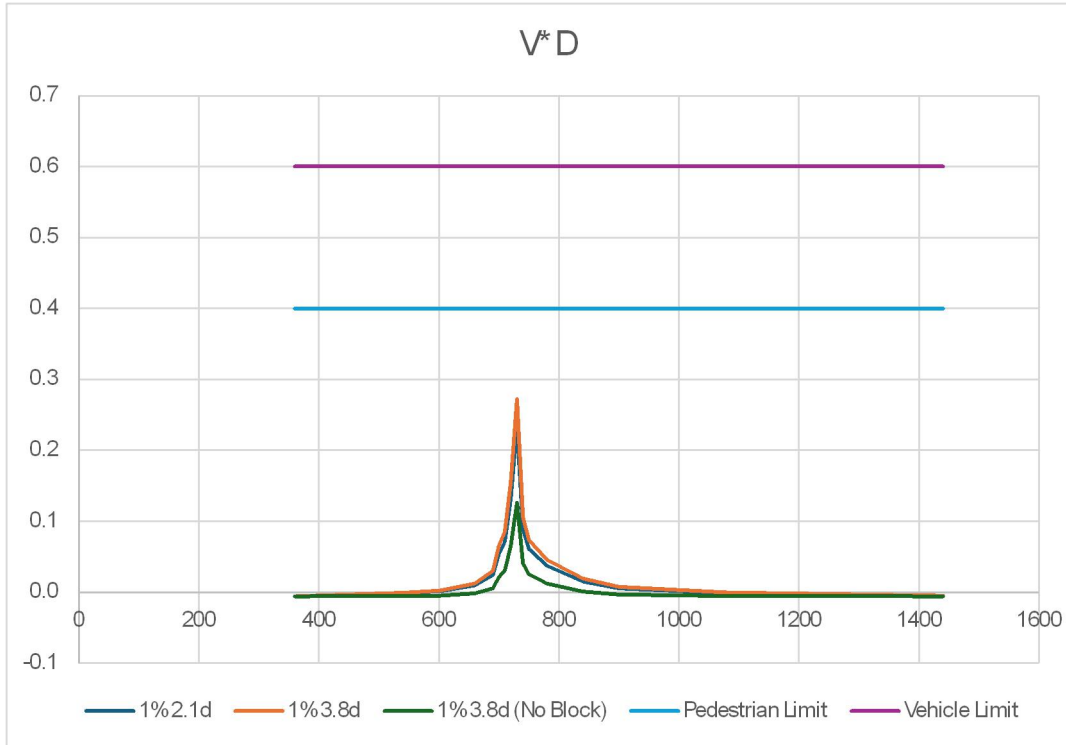
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CATCHMENT W PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION W-W VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

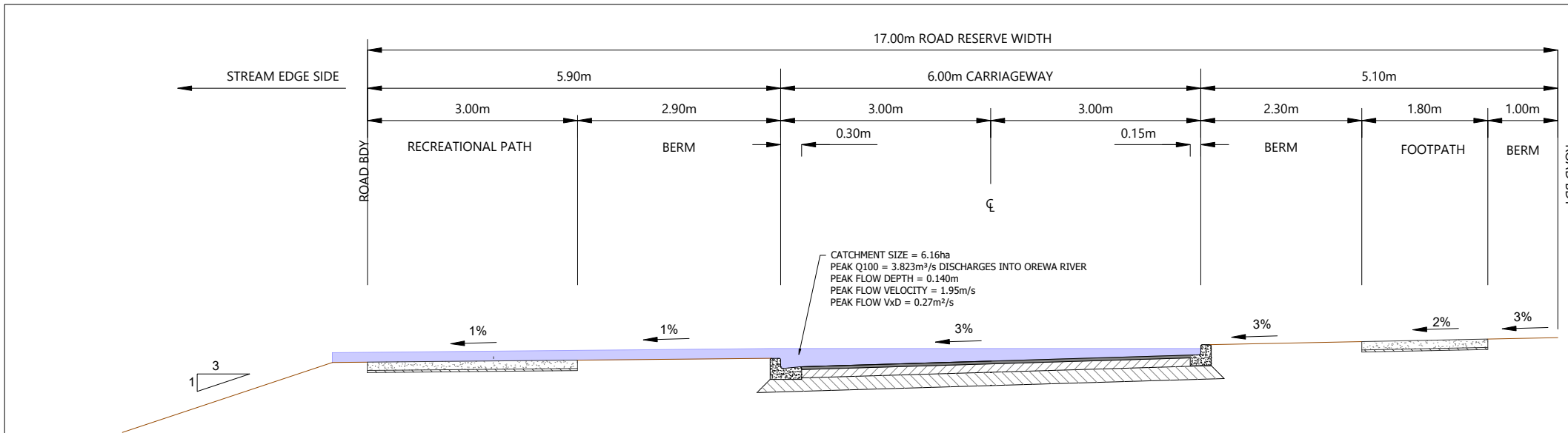
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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



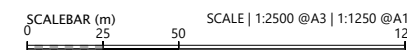
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 23

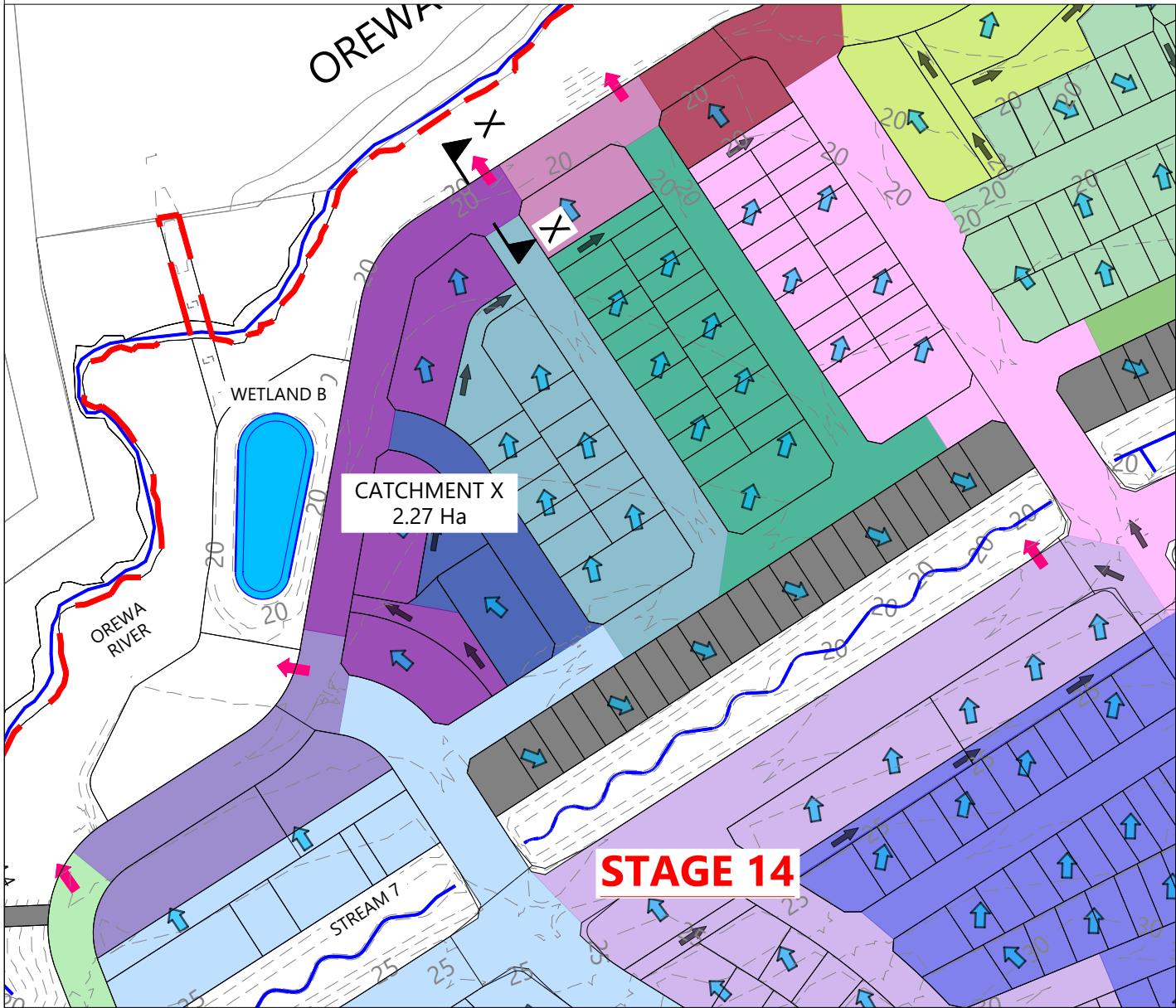
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DWG NO	P25-609-01-3043-DR	



ROAD-SECTION W-W

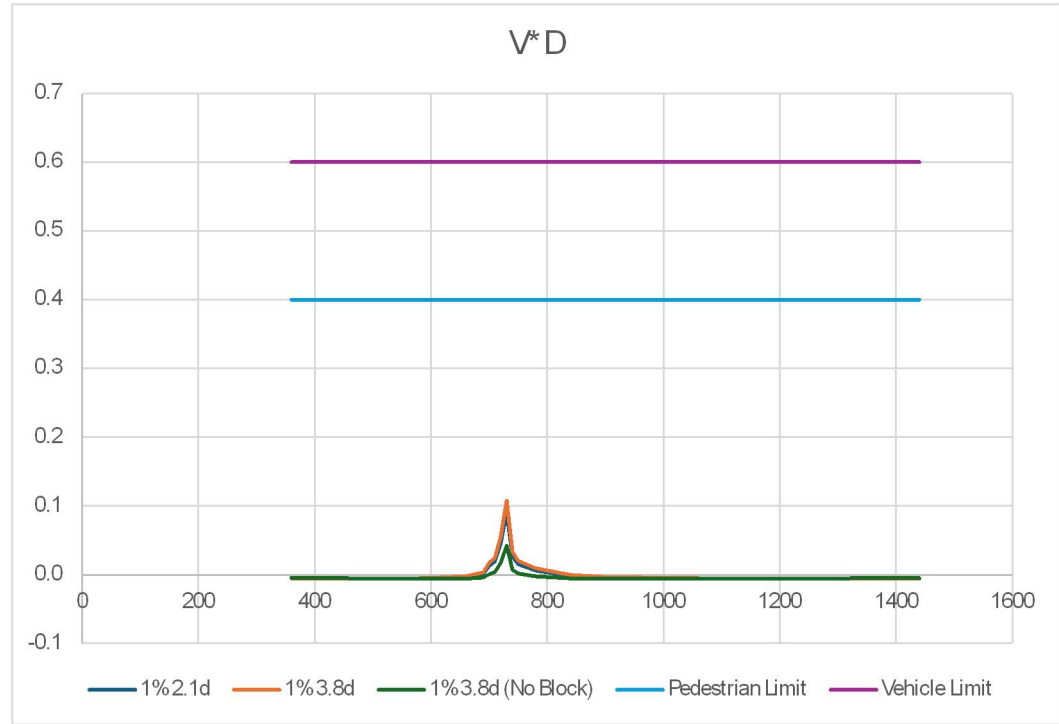
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CATCHMENT X PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION X-X VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

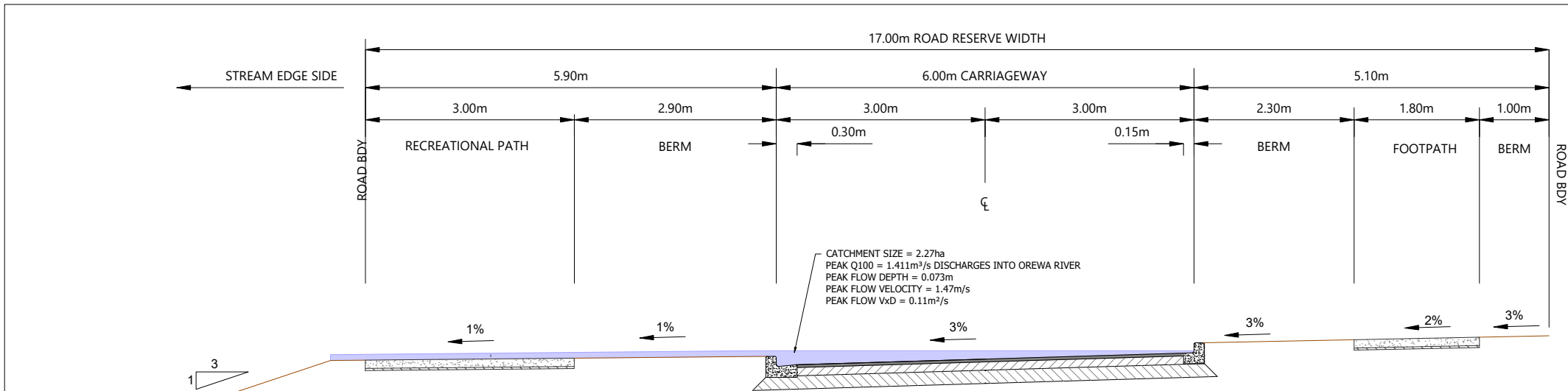
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 24

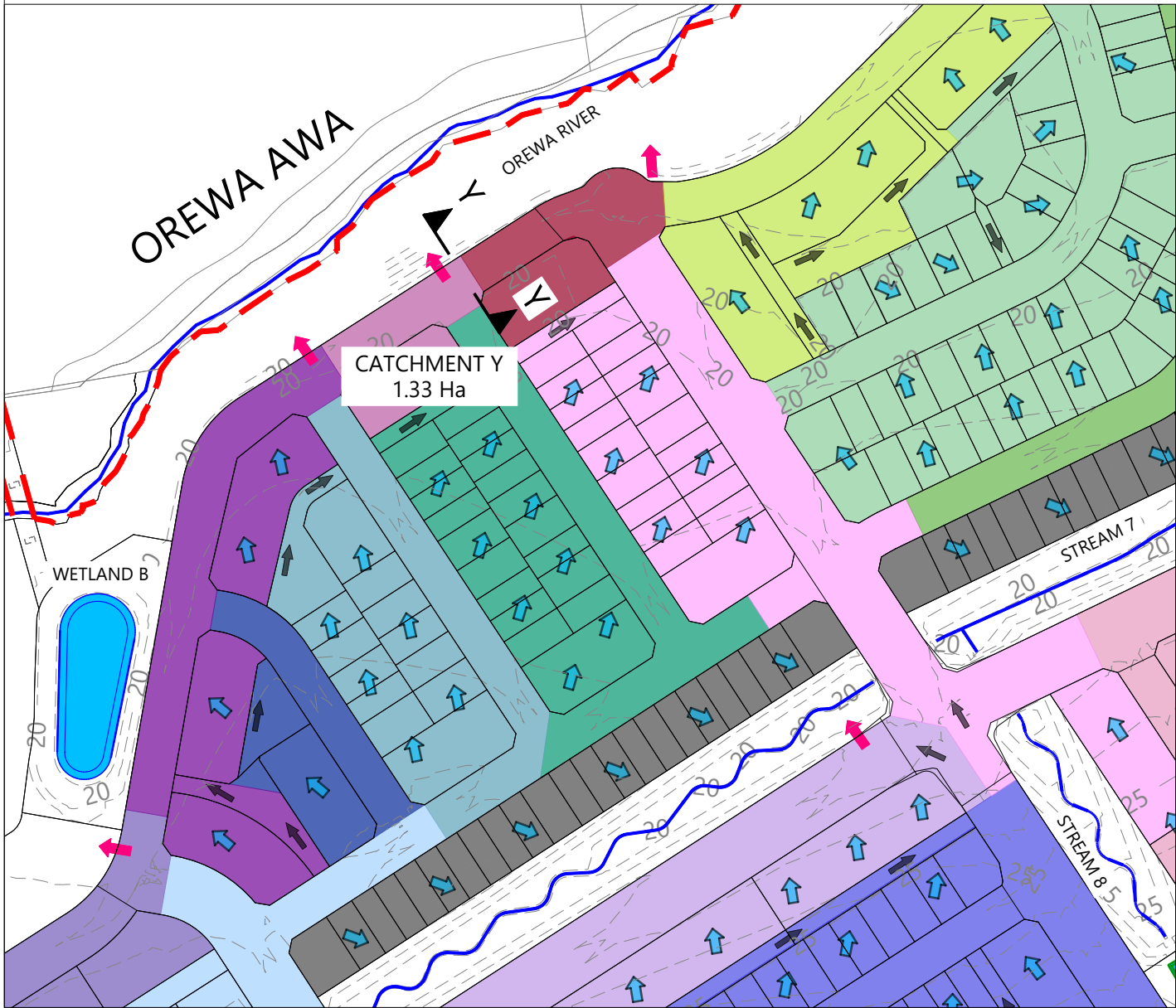
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COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3044-DR	



ROAD-SECTION X-X

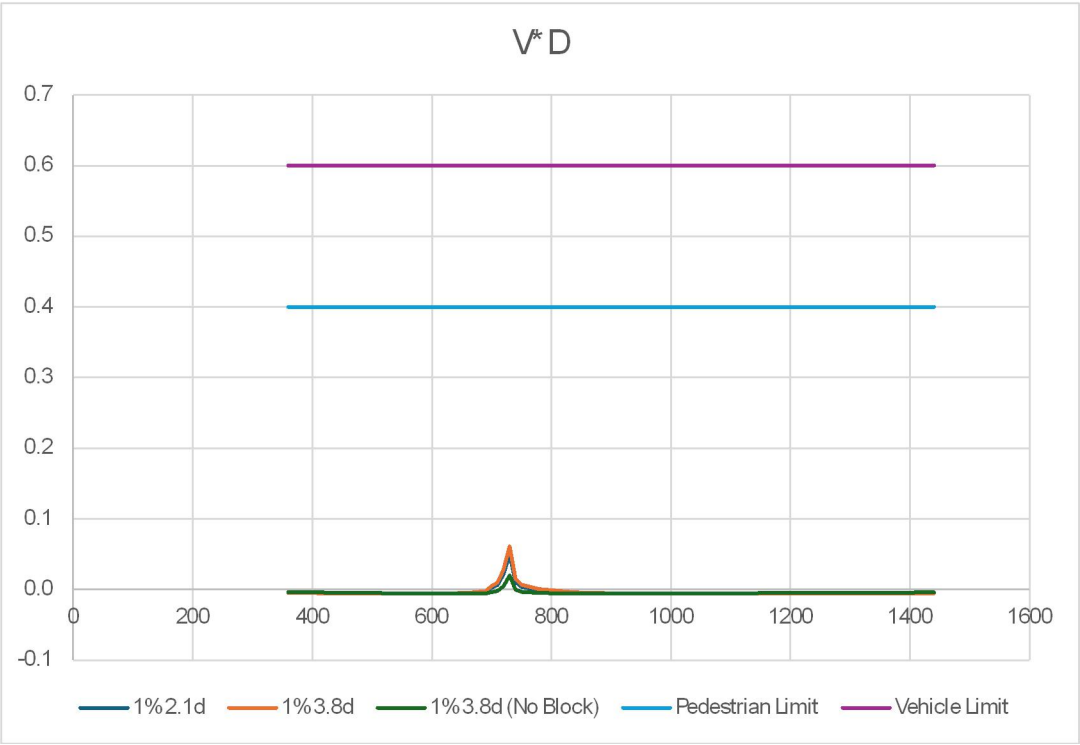
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CATCHMENT Y PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION Y-Y VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

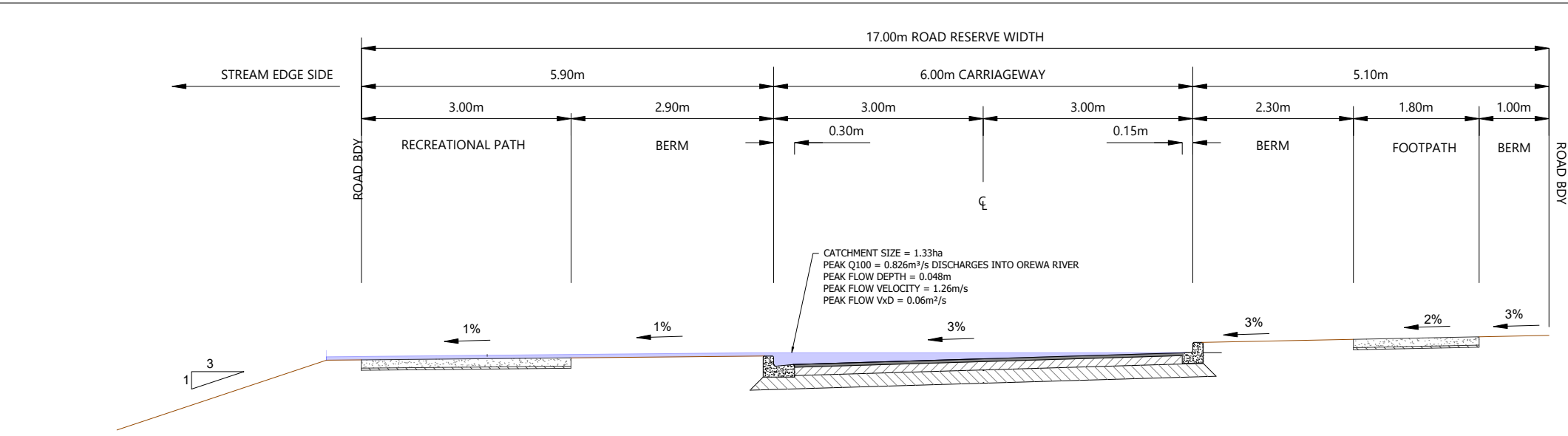
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 25

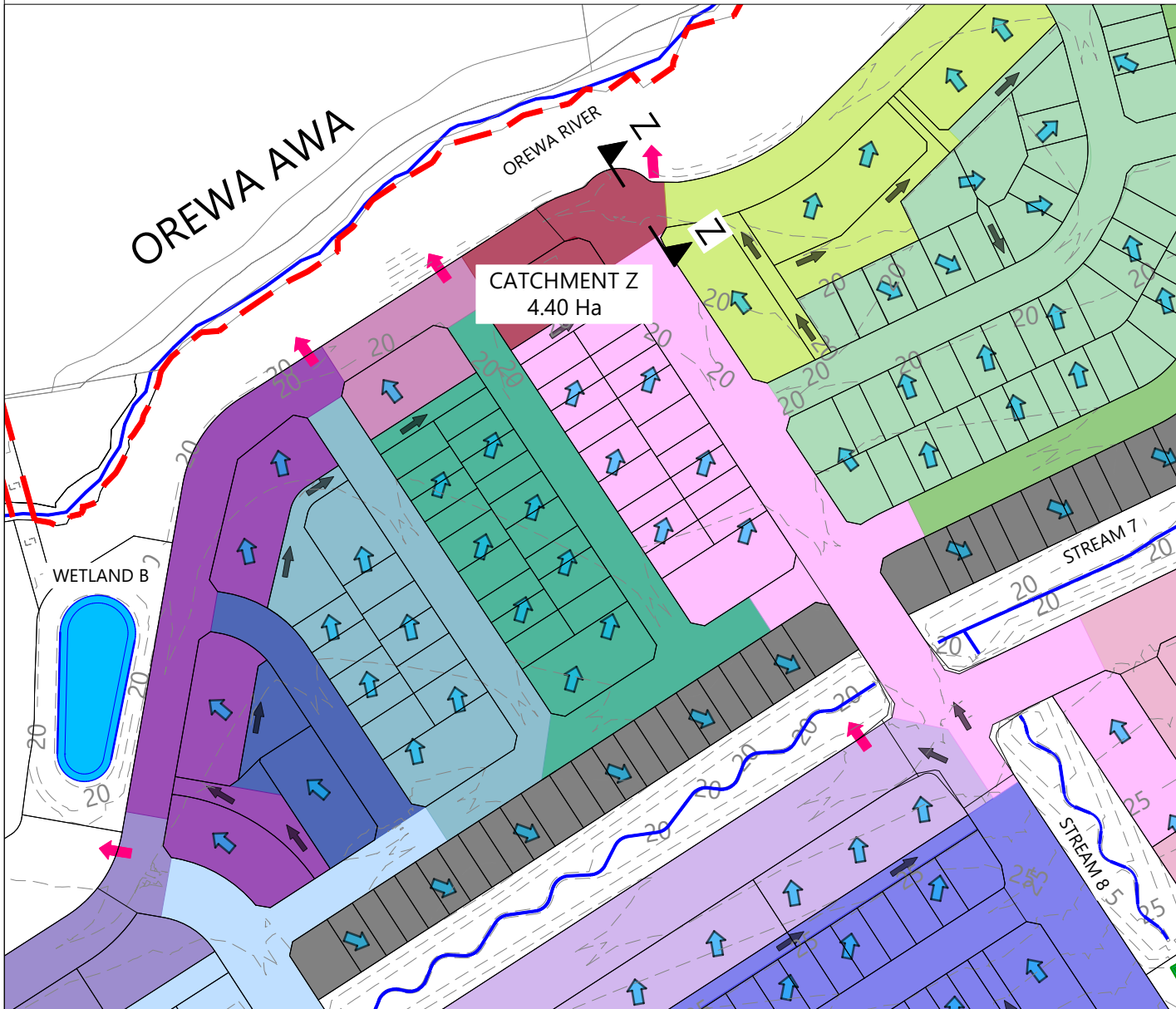
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3045-DR	



ROAD-SECTION Y-Y

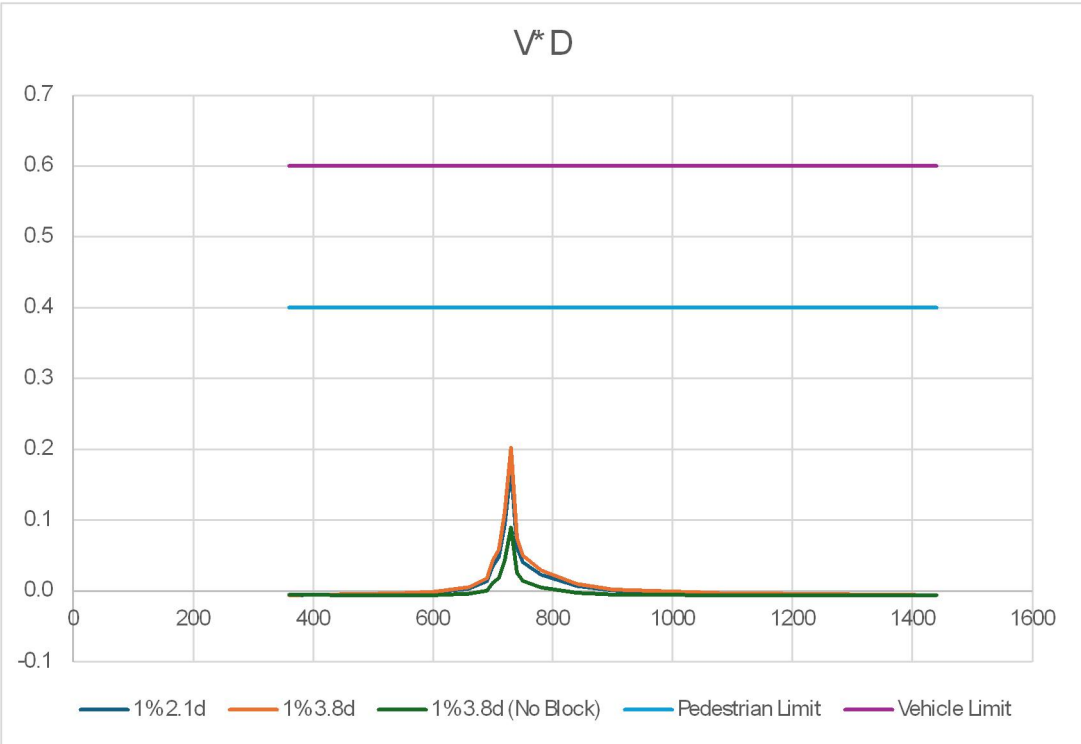
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CATCHMENT Z PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION Z-Z VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

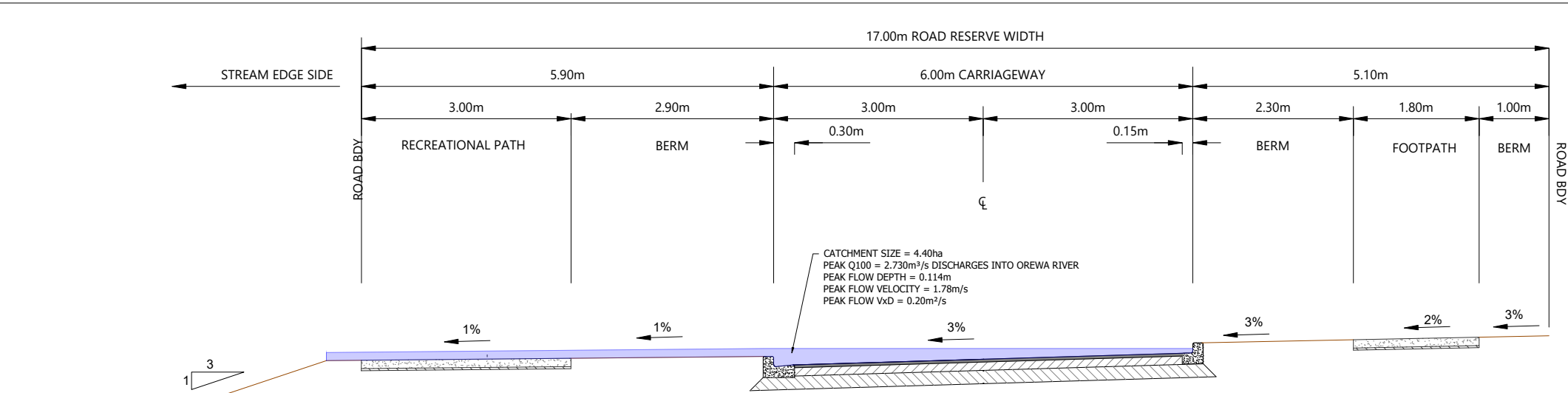
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 26

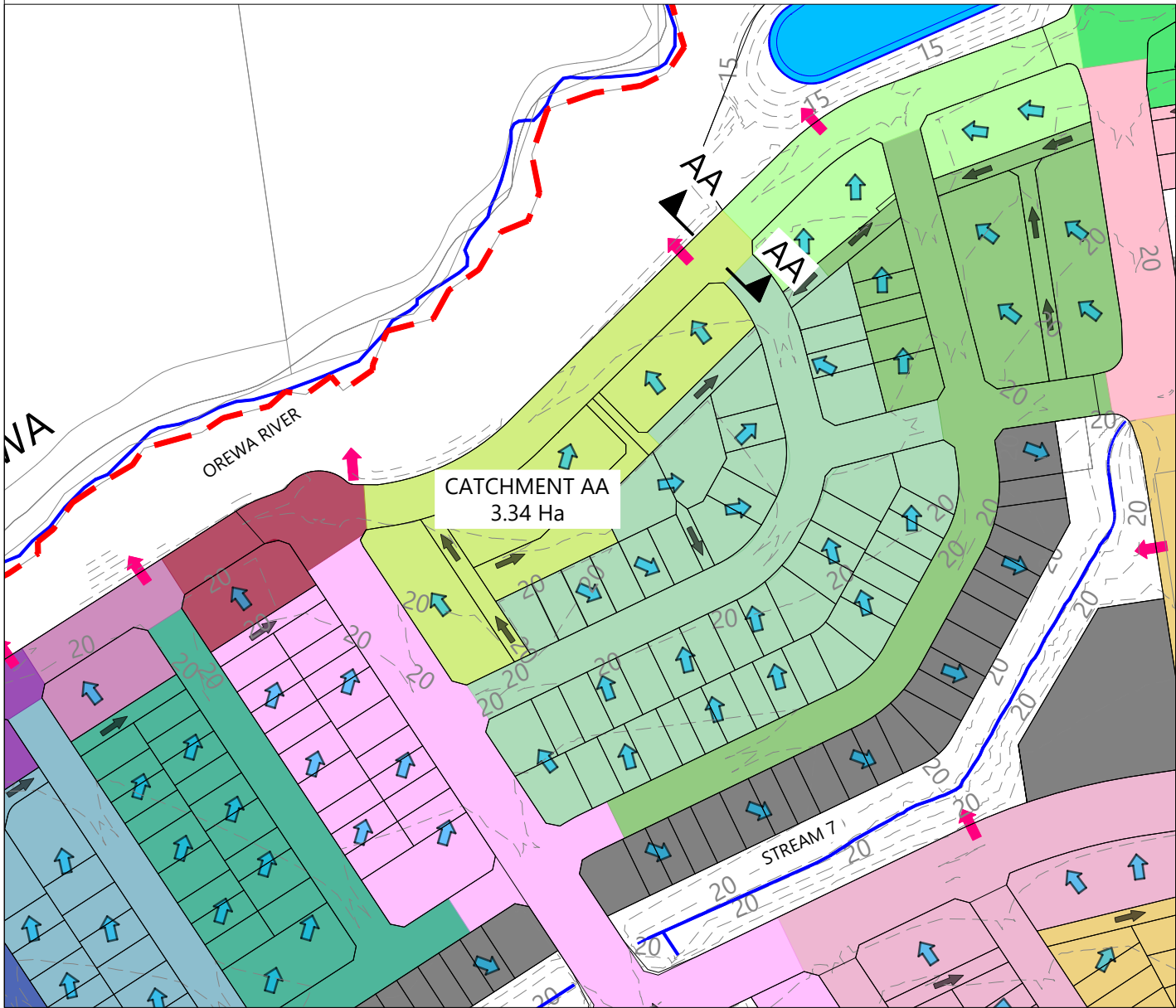
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3046-DR	



ROAD-SECTION Z-Z

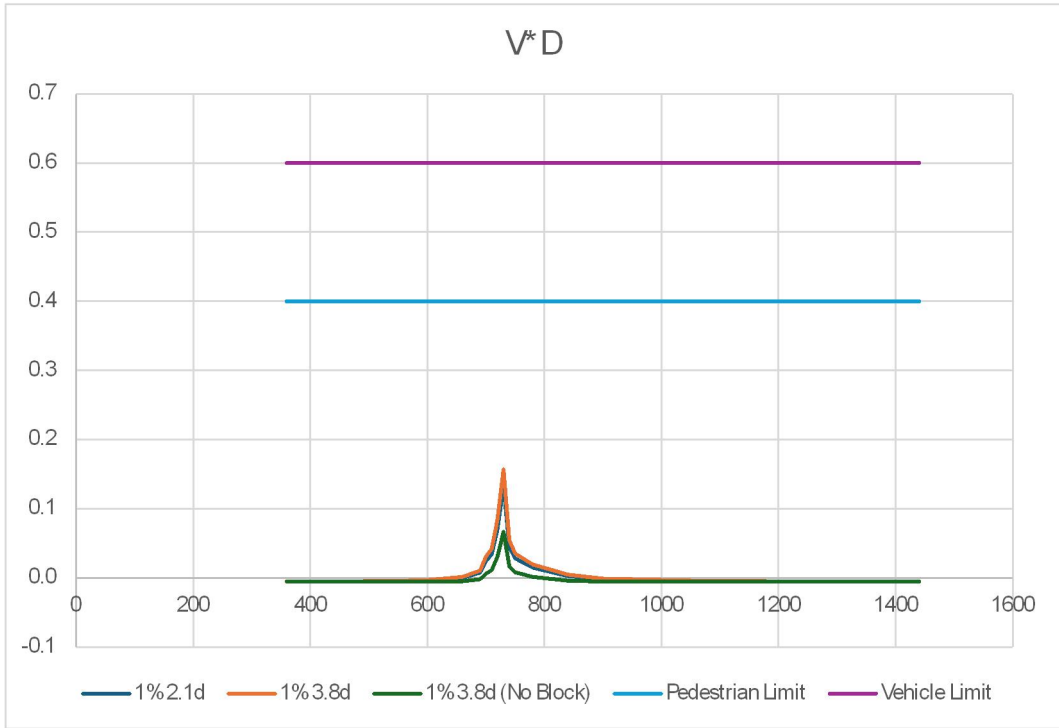
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CATCHMENT AA PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AA-AA VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

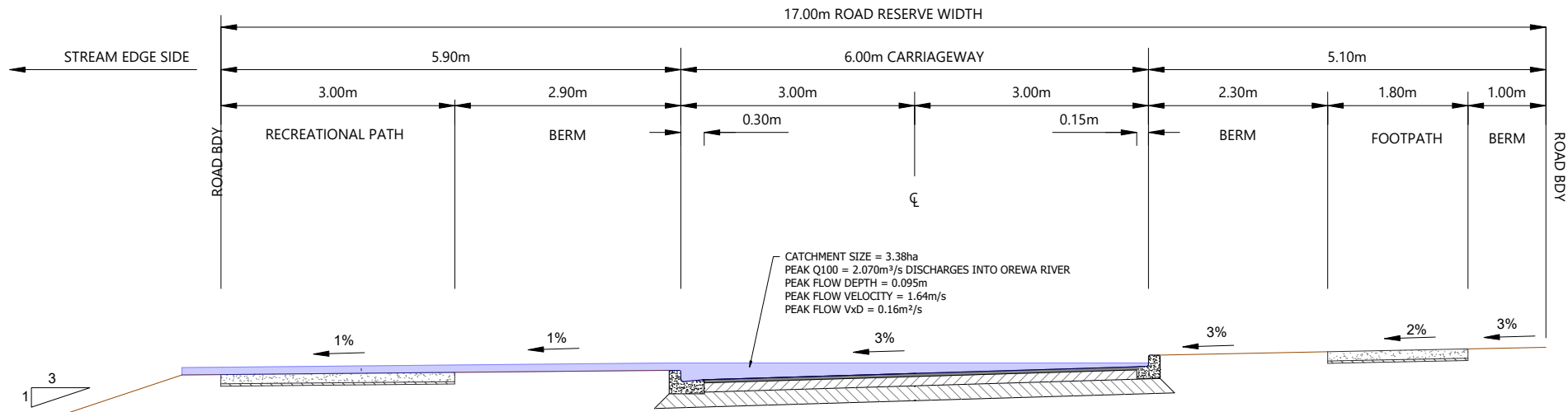
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

--	--

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 27

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3047-DR	



ROAD-SECTION AA-AA

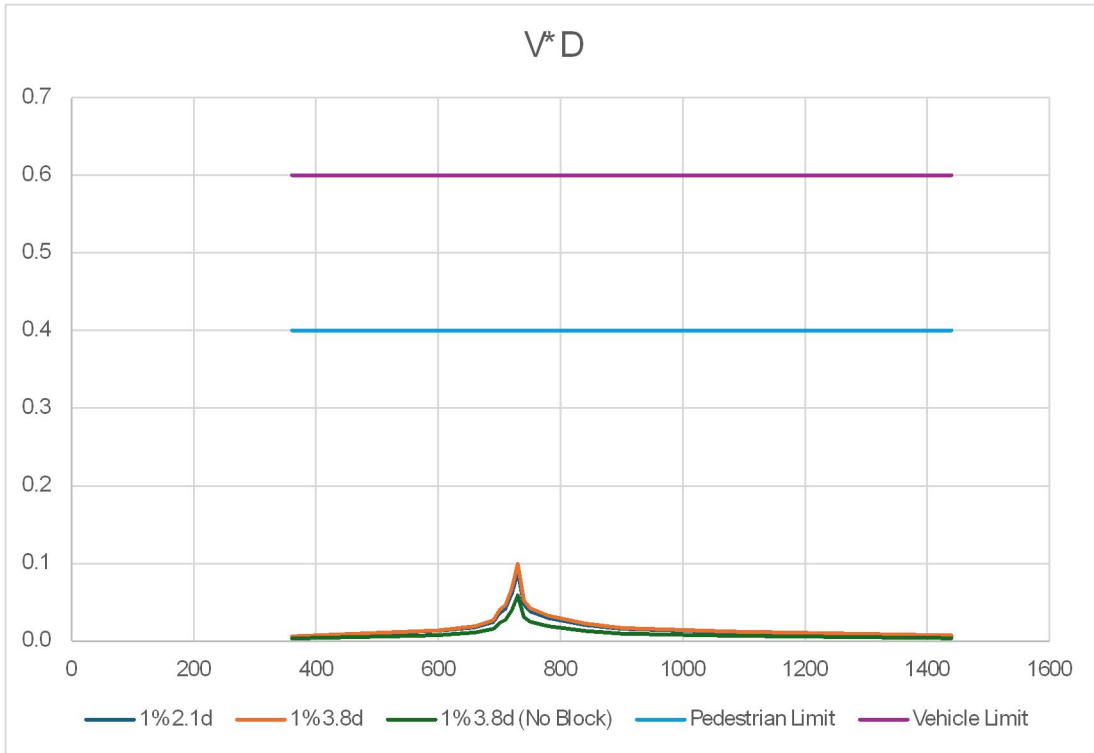
Scale: 1:40@A1 - 1:80@A3





CATCHMENT AB PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AB-AB VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

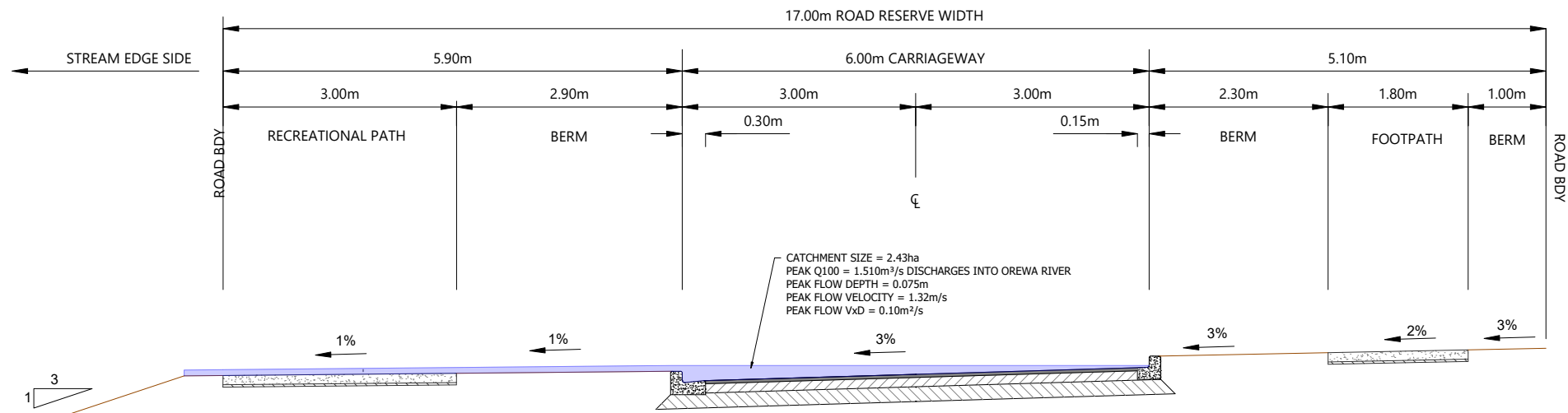
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

--	--

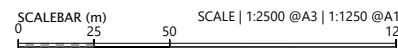
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 28

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3048-DR	



ROAD-SECTION AB-AB

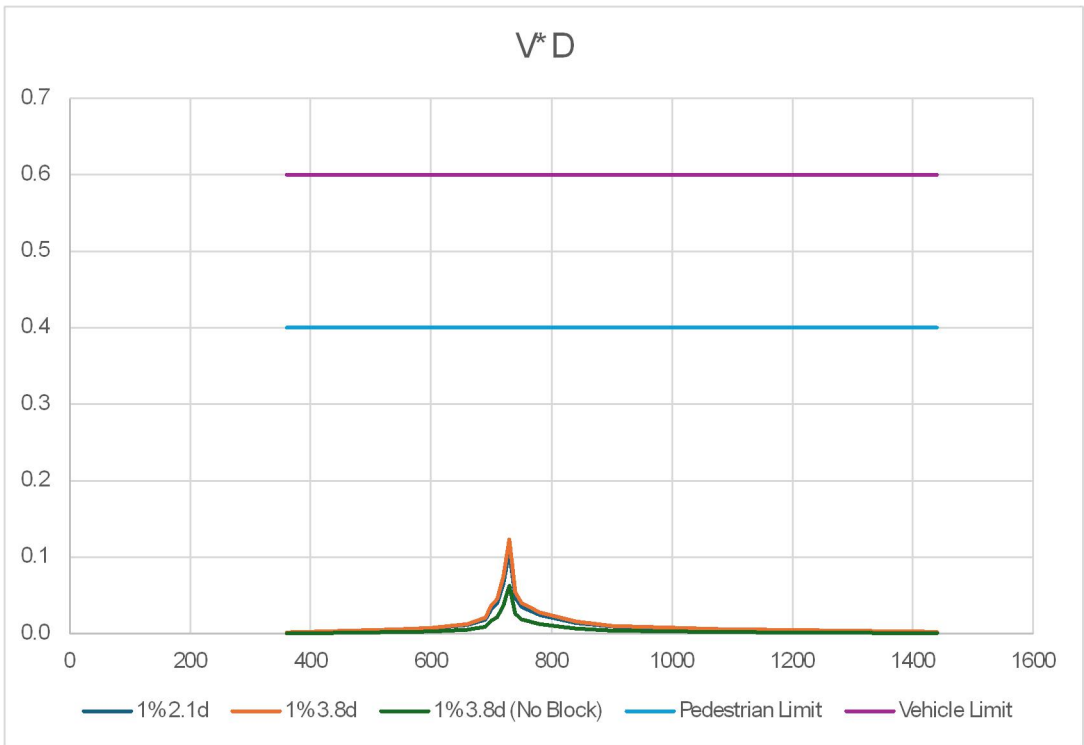
Scale: 1:40@A1 - 1:80@A3





CATCHMENT AC PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AC-AC VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

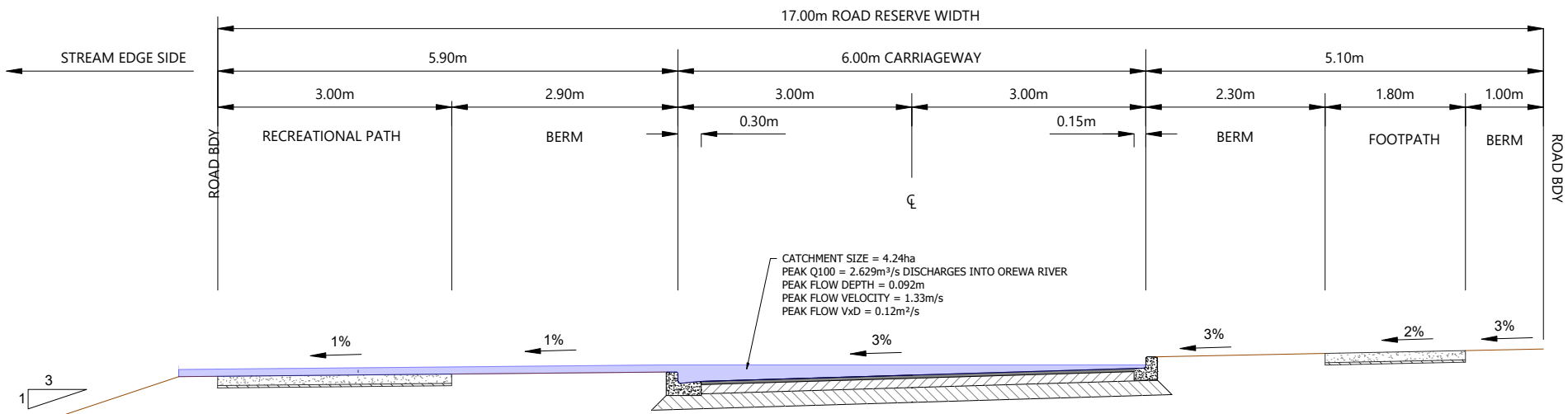
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

--	--

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 29

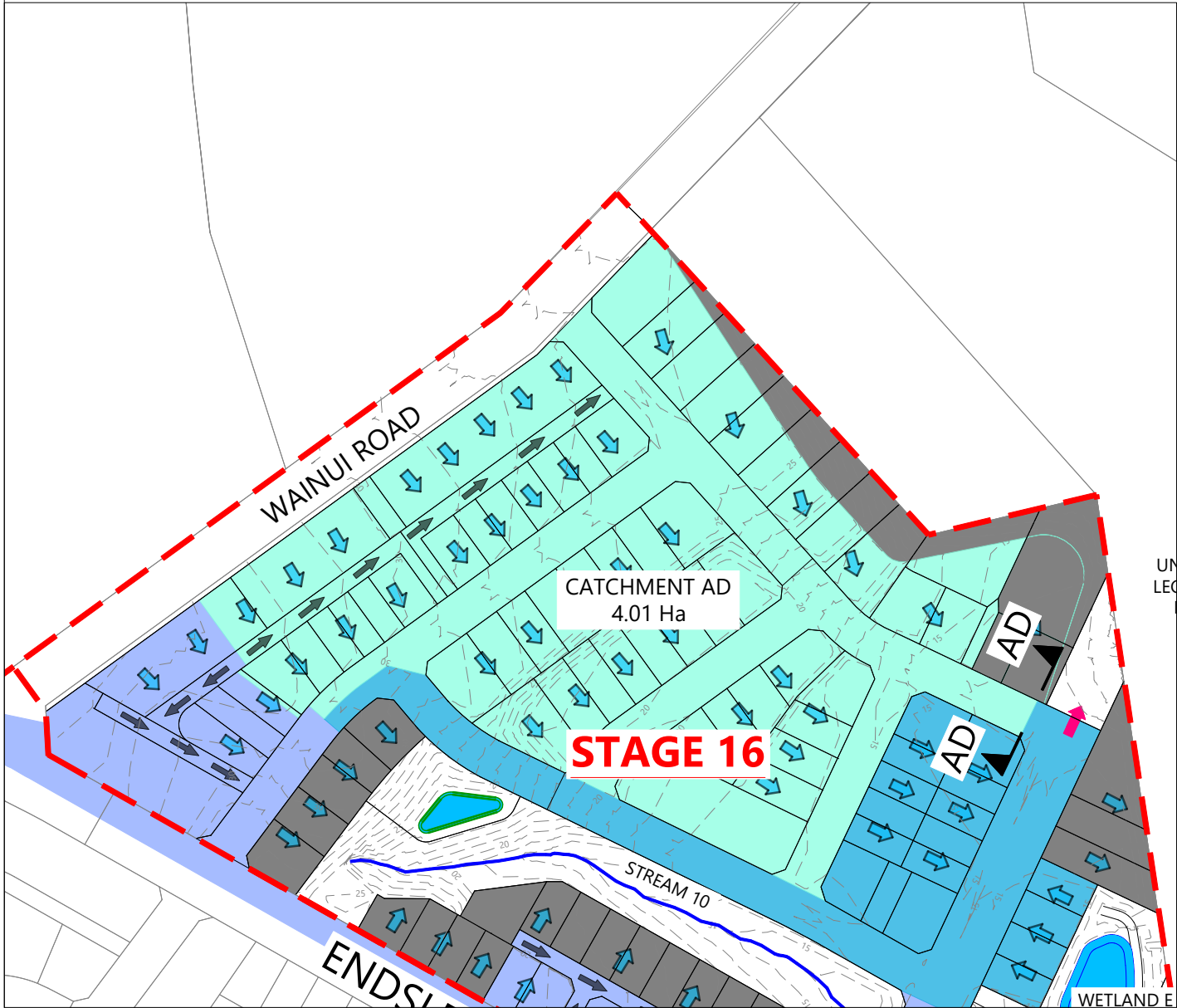
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3049-DR	



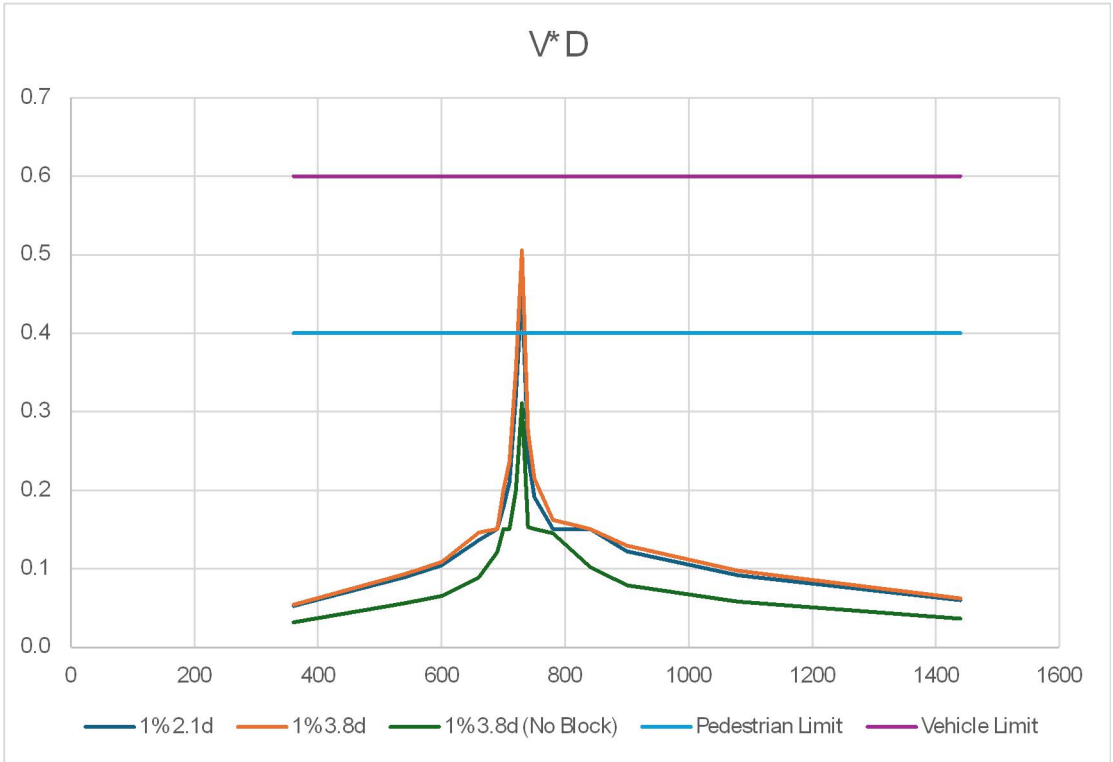
ROAD-SECTION AC-AC

Scale: 1:40@A1 - 1:80@A3





CATCHMENT AD PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AD-AD VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

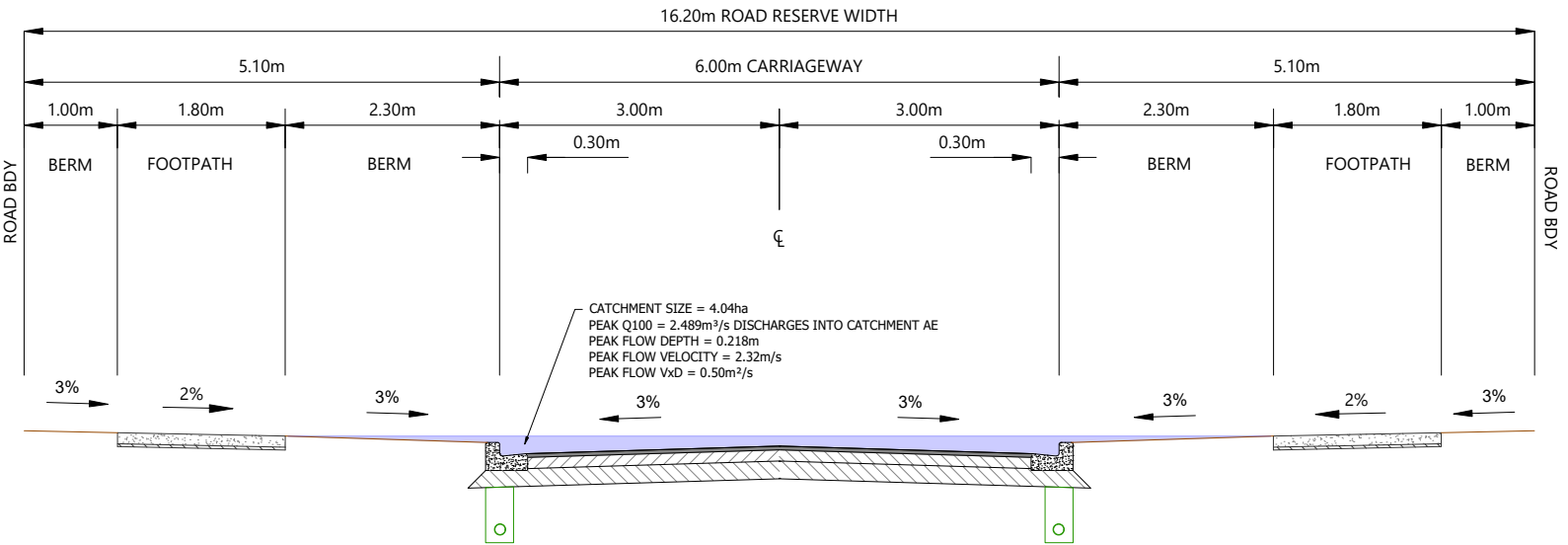
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

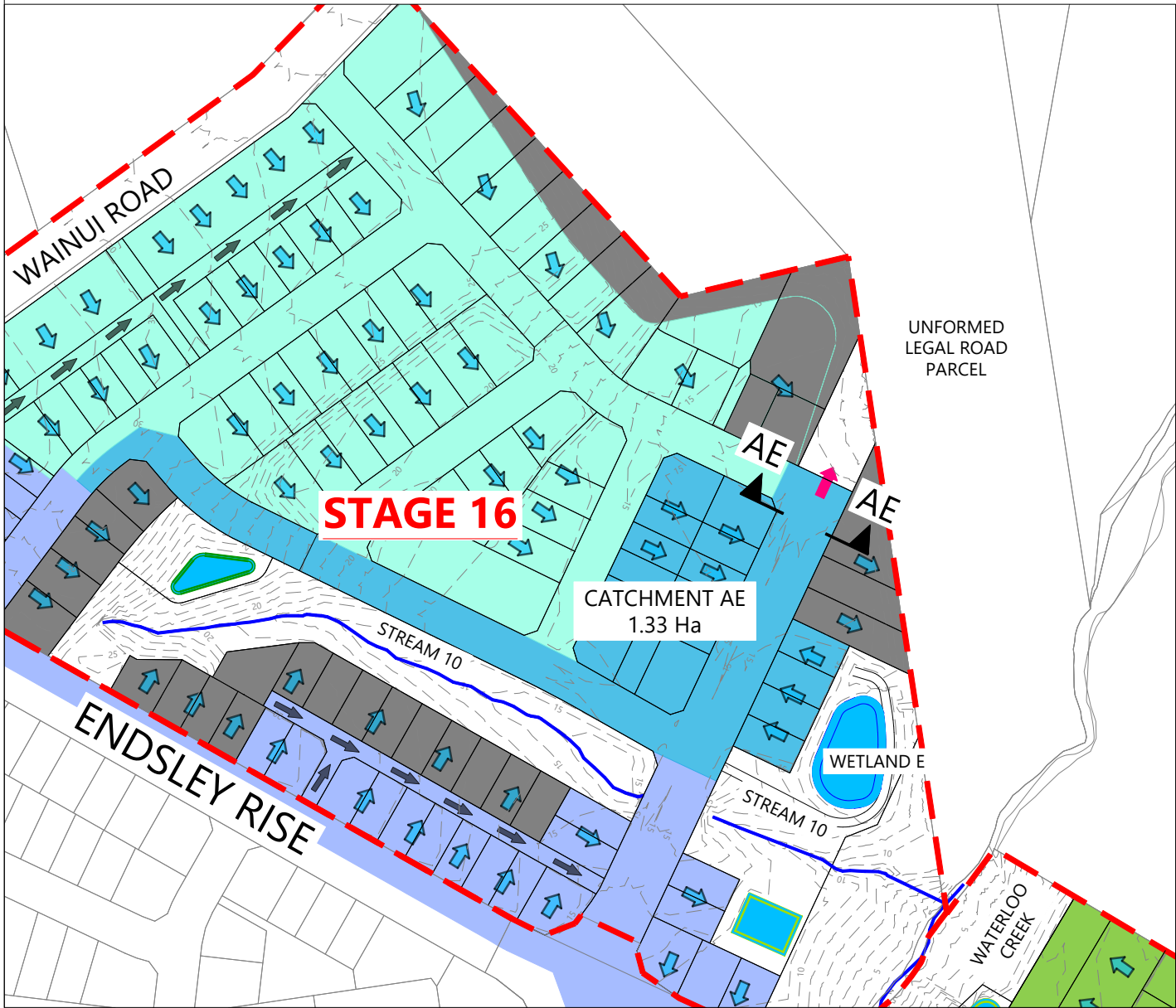
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 30

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3050-DR	

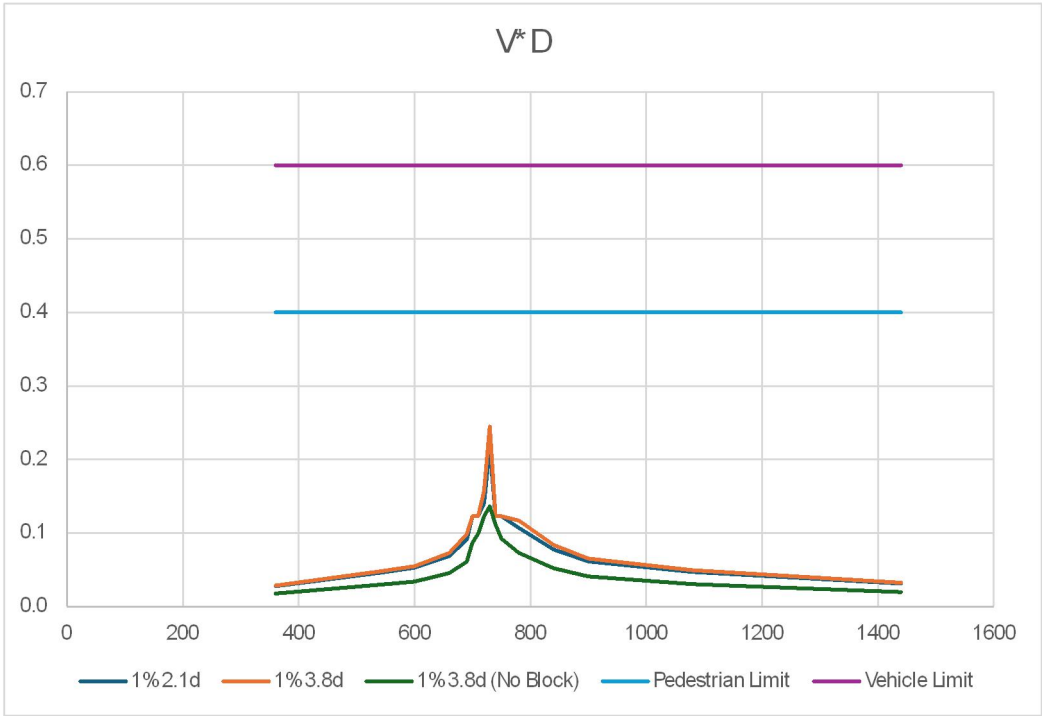


ROAD-SECTION AD-AD
Scale: 1:40@A1 - 1:80@A3





CATCHMENT AE PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AE-AE VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

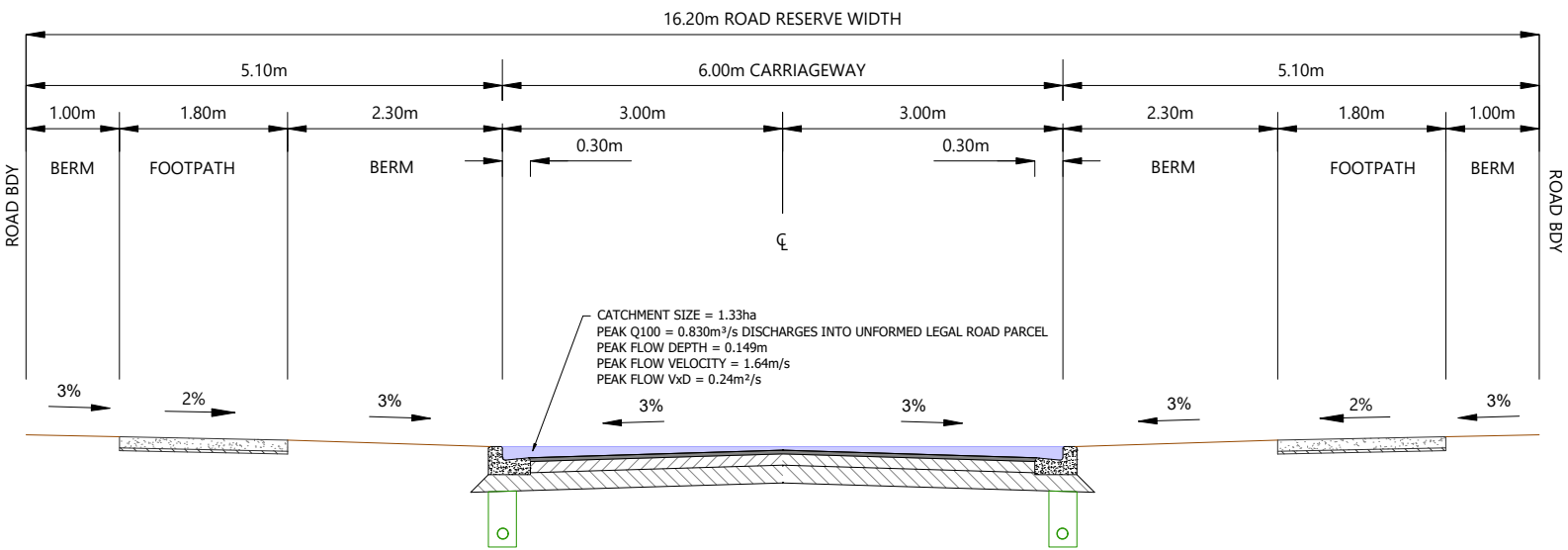
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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



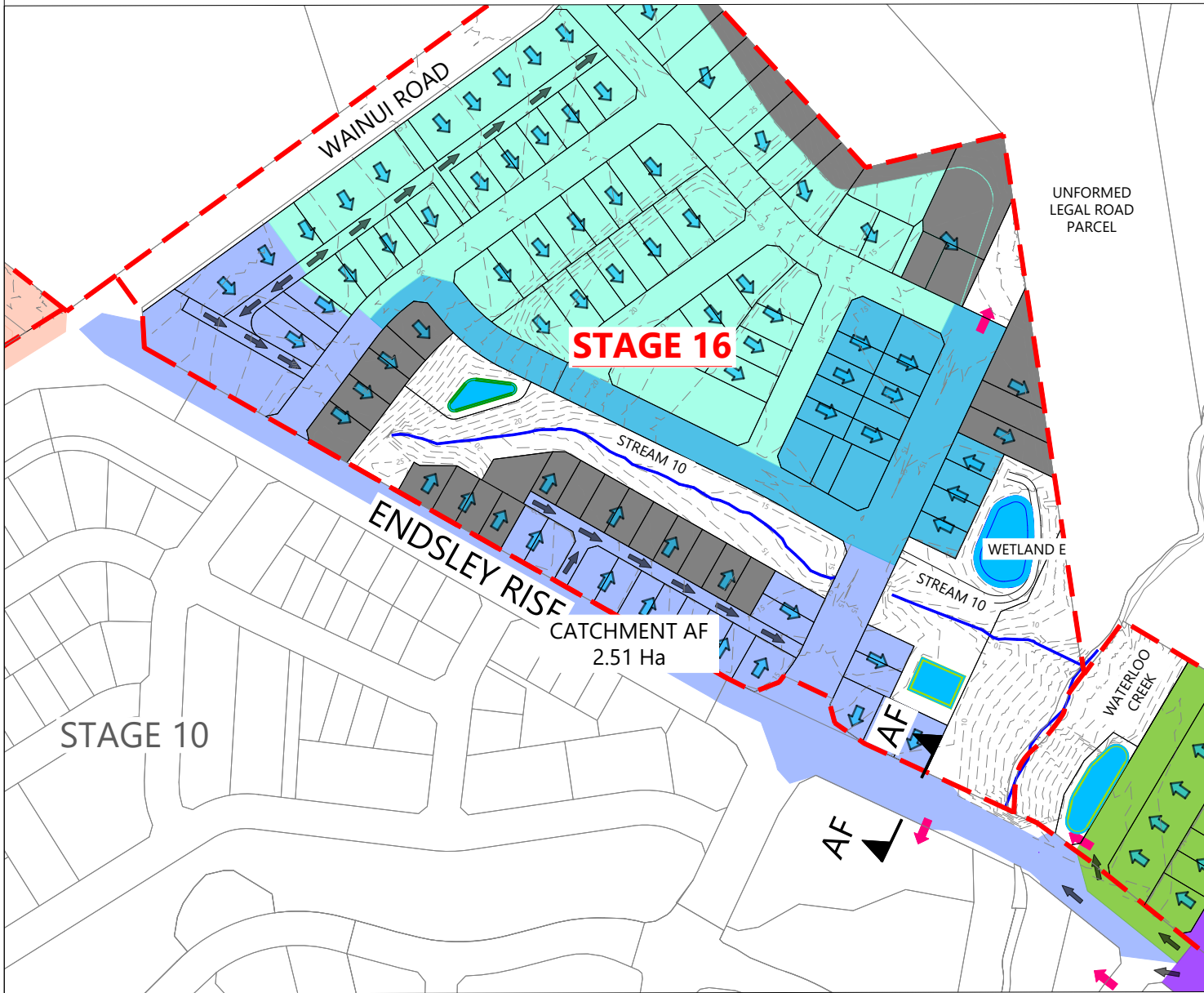
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 31

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3051-DR	



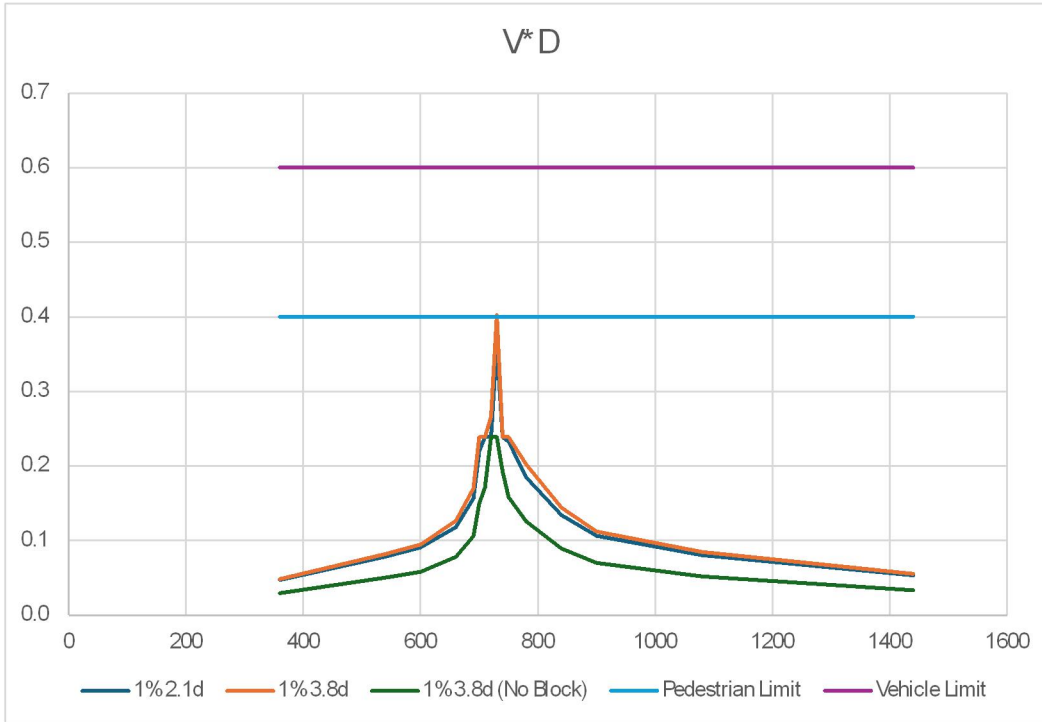
ROAD-SECTION AE-AE
Scale: 1:40@A1 - 1:80@A3





CATCHMENT AF PLAN

Scale: 1:1500@A1 - 1:3000@A3



ROAD-SECTION AF-AF VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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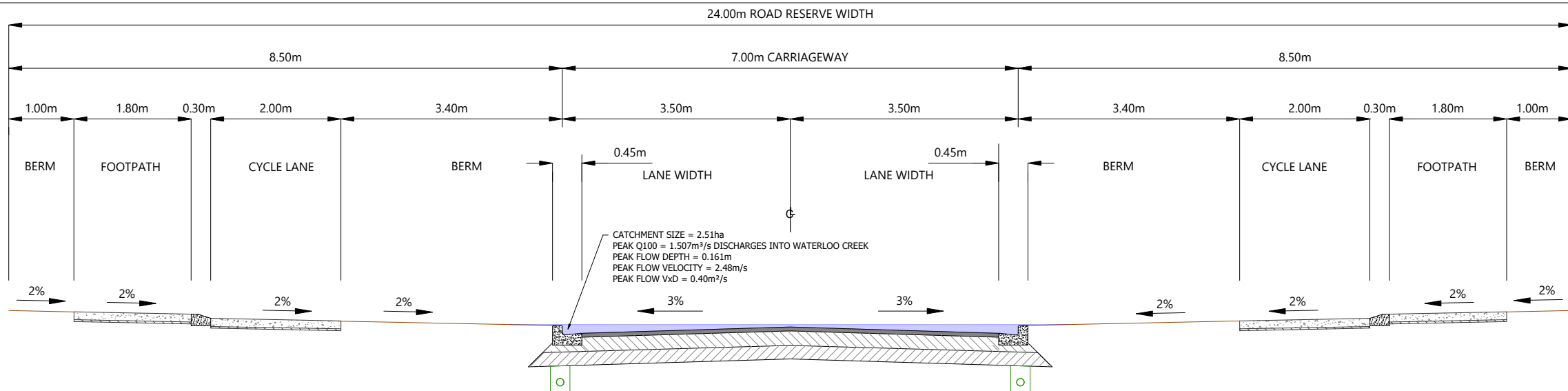
REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

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

Connecting Lives & Places

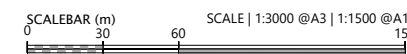
MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 32

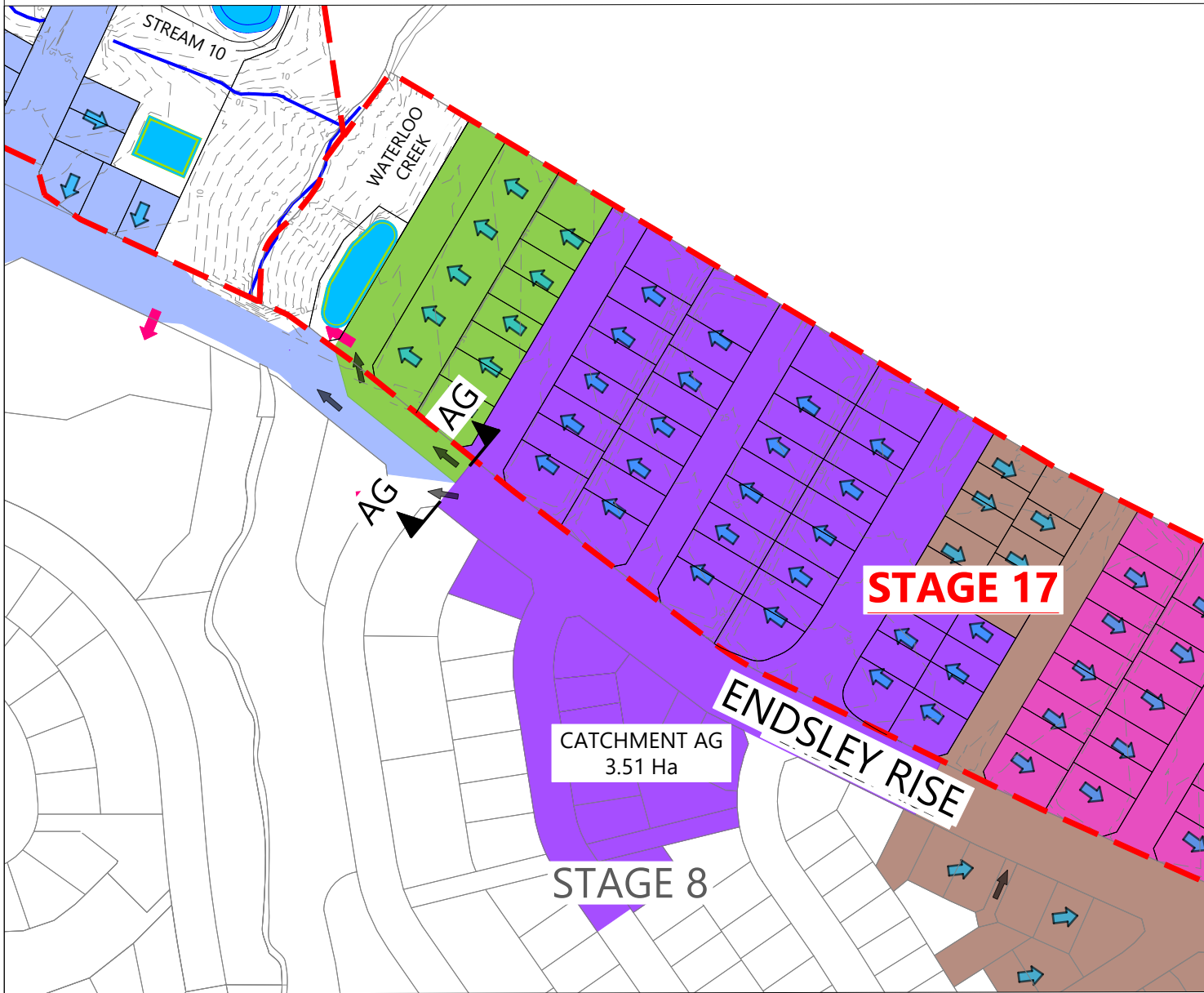
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3052-DR	



ROAD-SECTION AF-AF

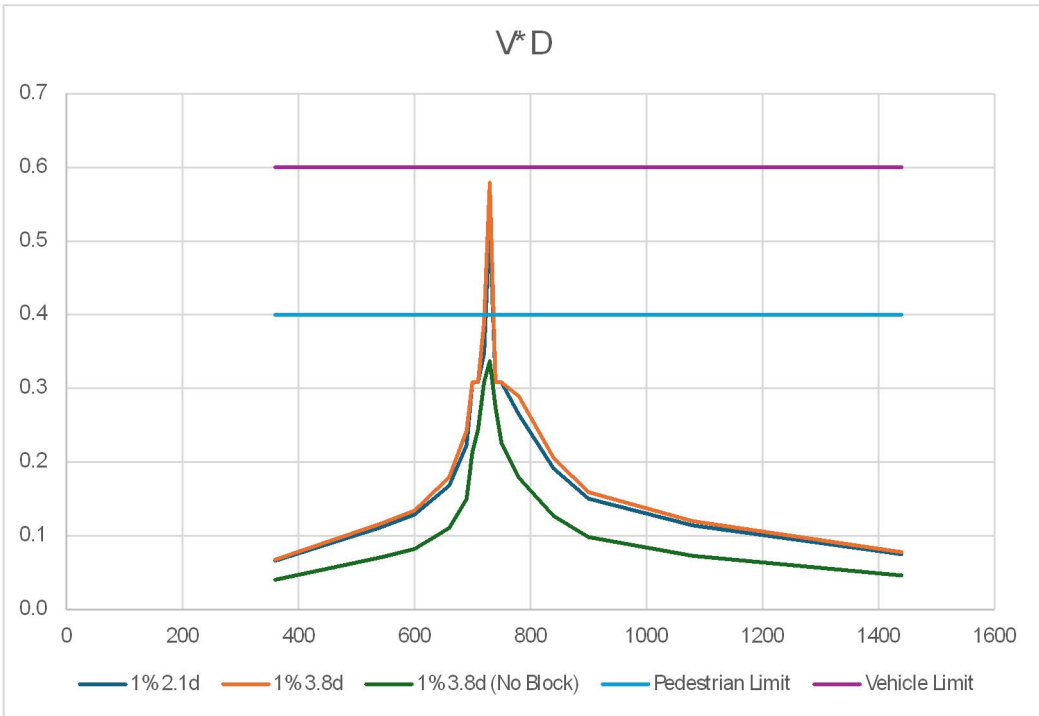
Scale: 1:40@A1 - 1:80@A3





CATCHMENT AG PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AG-AG VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

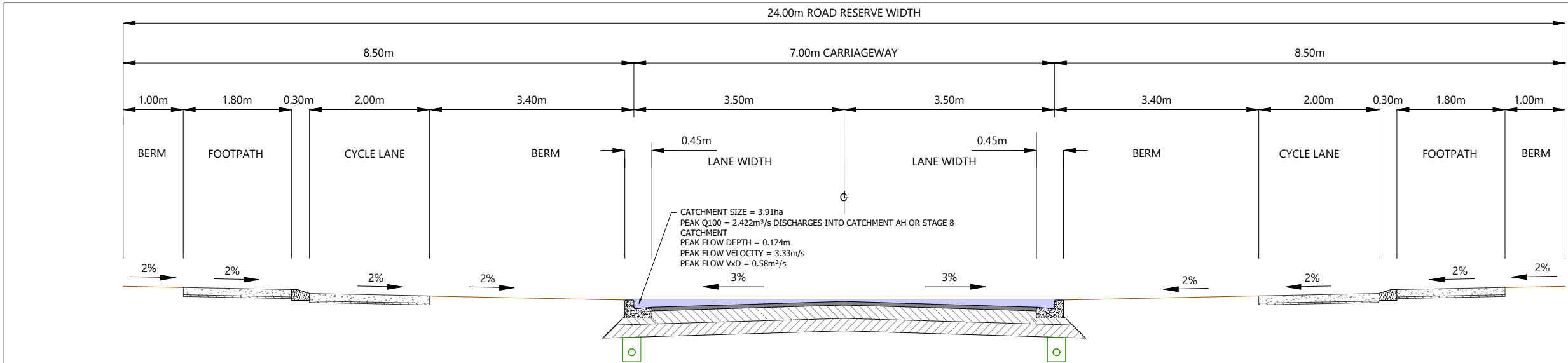
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 33

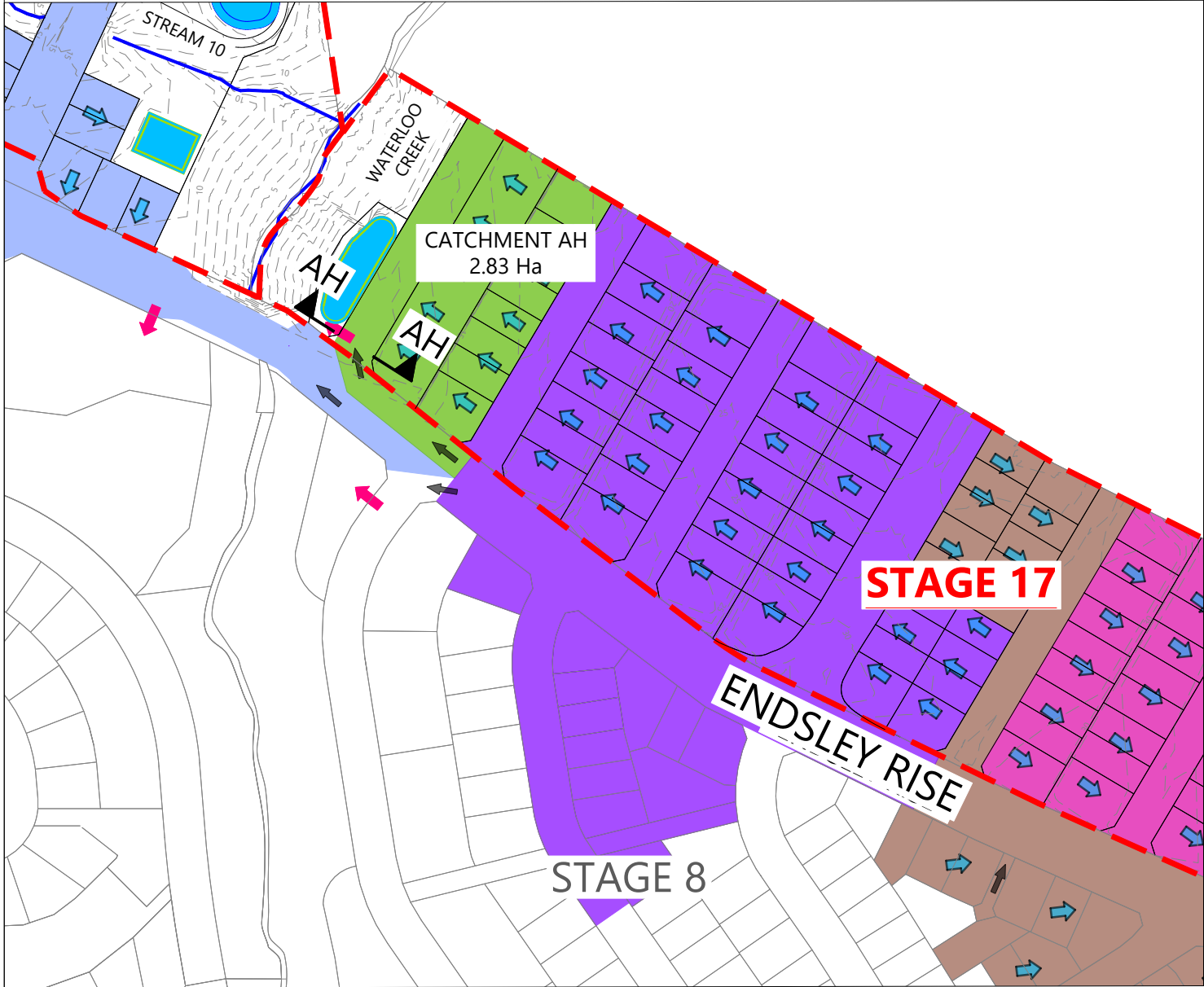
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SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3053-DR	



ROAD-SECTION AG-AG

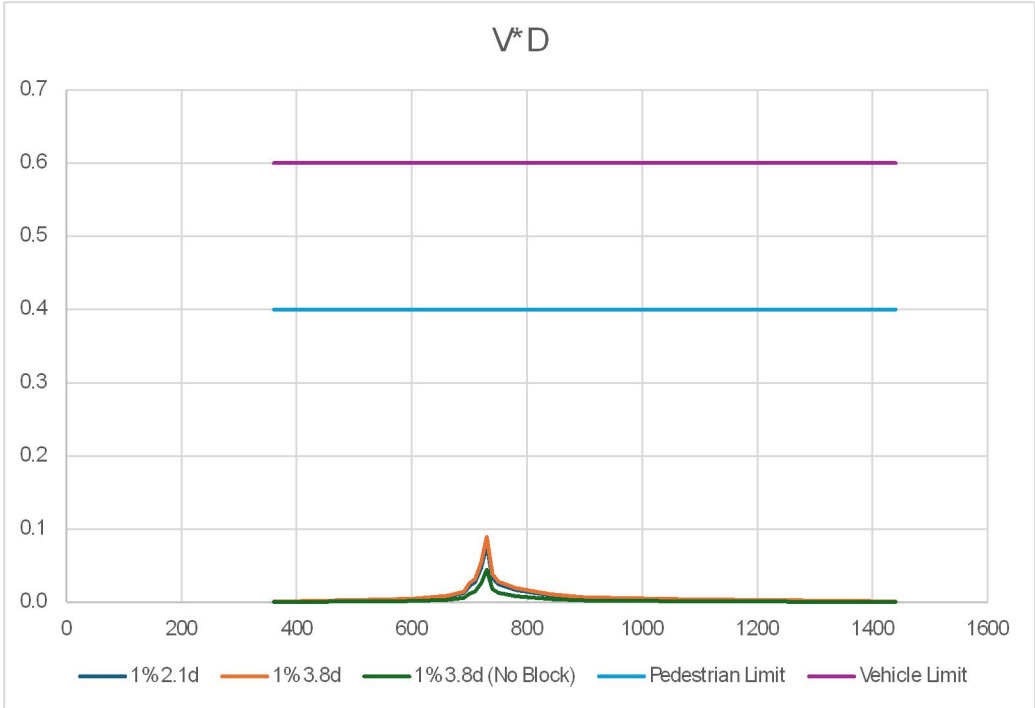
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CATCHMENT AH PLAN

Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AH-AH VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
PROPOSED STORMWATER DRY BASIN	

NOTES

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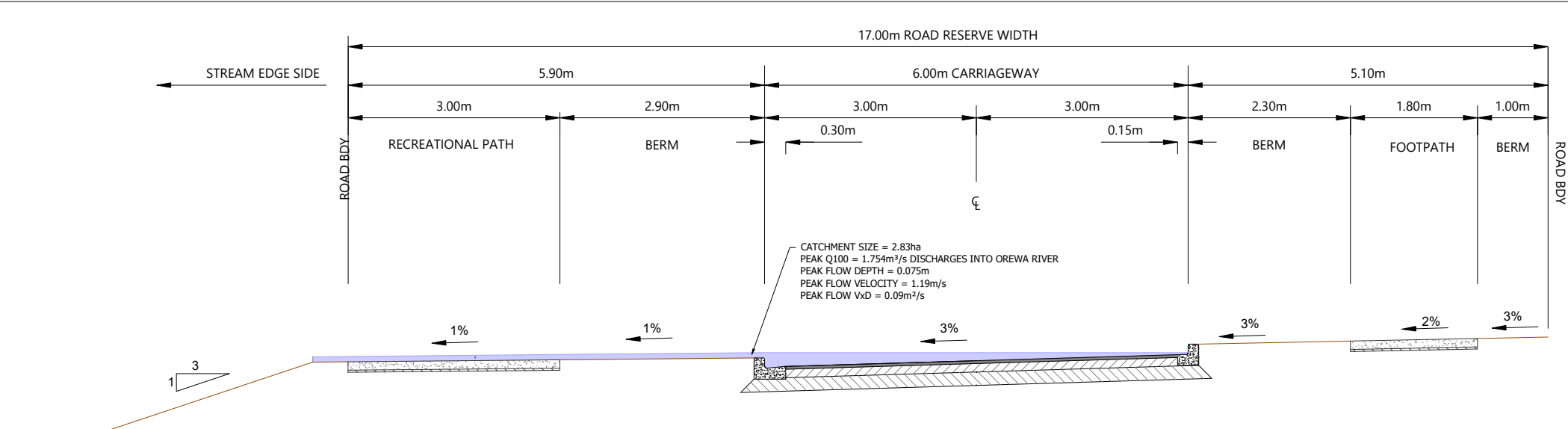
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

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MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 34

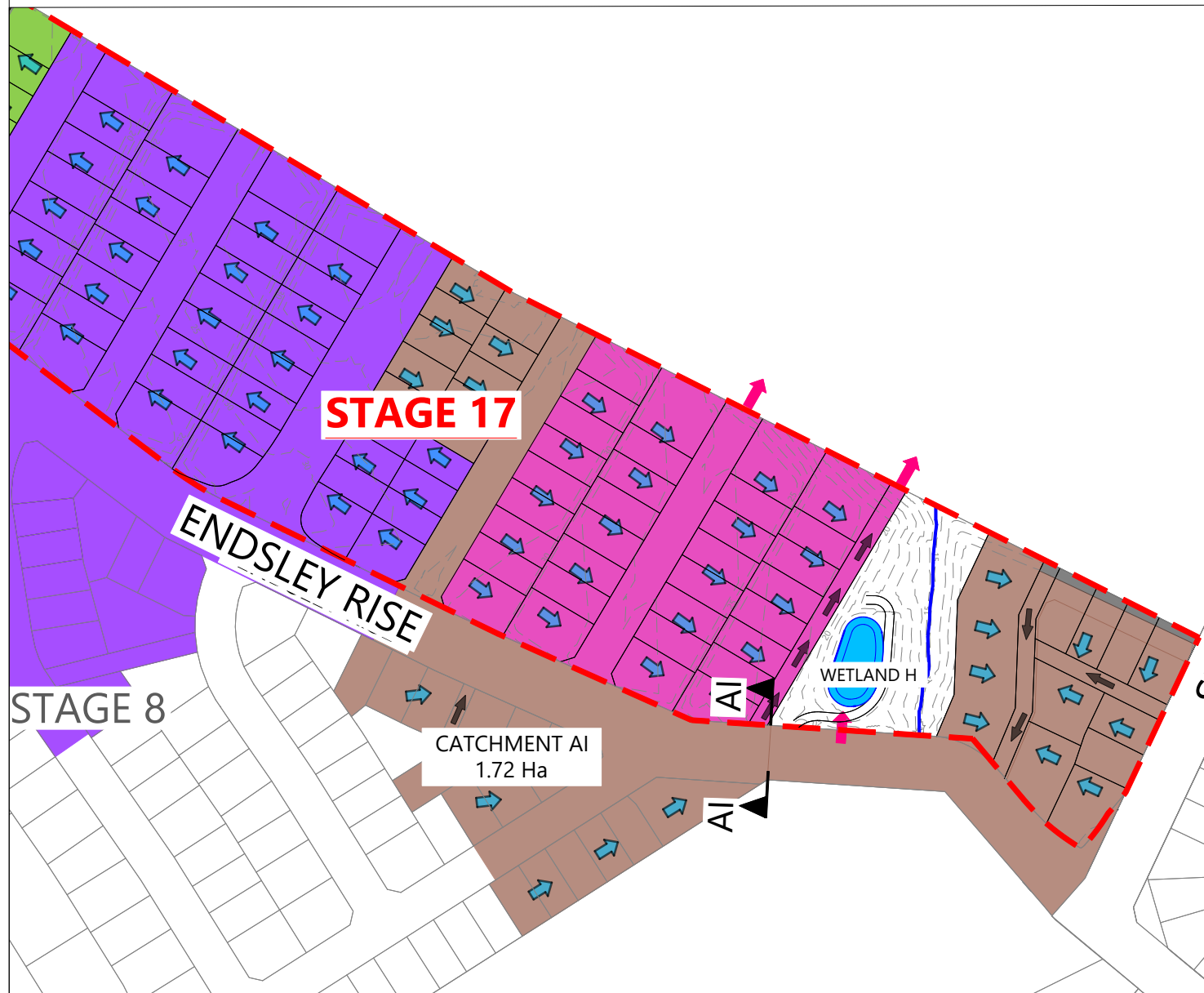
STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3054-DR	



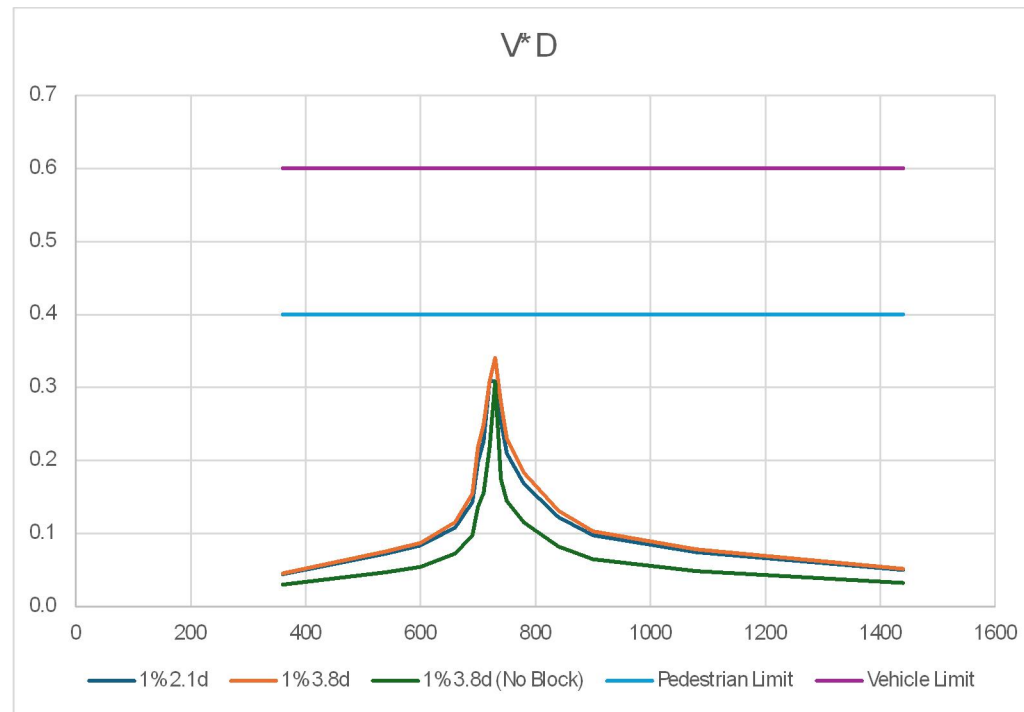
ROAD-SECTION AH-AH

Scale: 1:40@A1 - 1:80@A3





CATCHMENT AI PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AI-AI VxD GRAPH

LEGEND

EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA	
PROPOSED BOUNDARIES	
EXISTING BOUNDARIES	
WATERCOURSE	
DESIGN CONTOURS (1m INTERVAL)	
LOT OVERLAND FLOW	
ROAD OVERLAND FLOW	
JOAL OVERLAND FLOW	
OVERLAND FLOW SPILL POINT	
OLFP CATCHMENT DIRECT TO STREAM	
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.

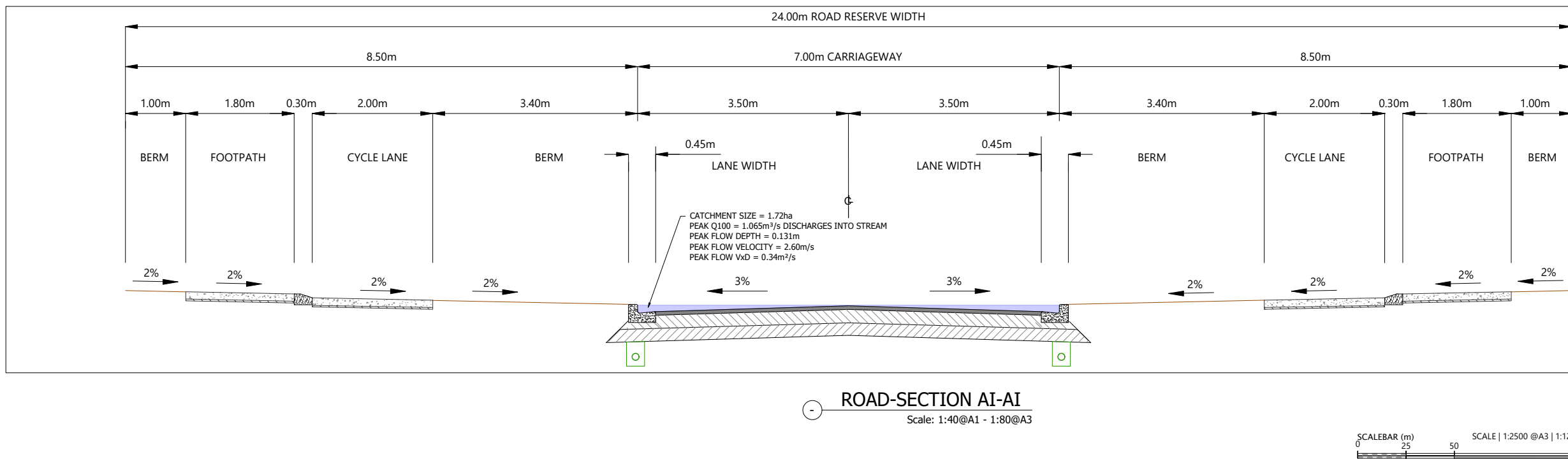
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

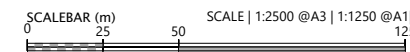


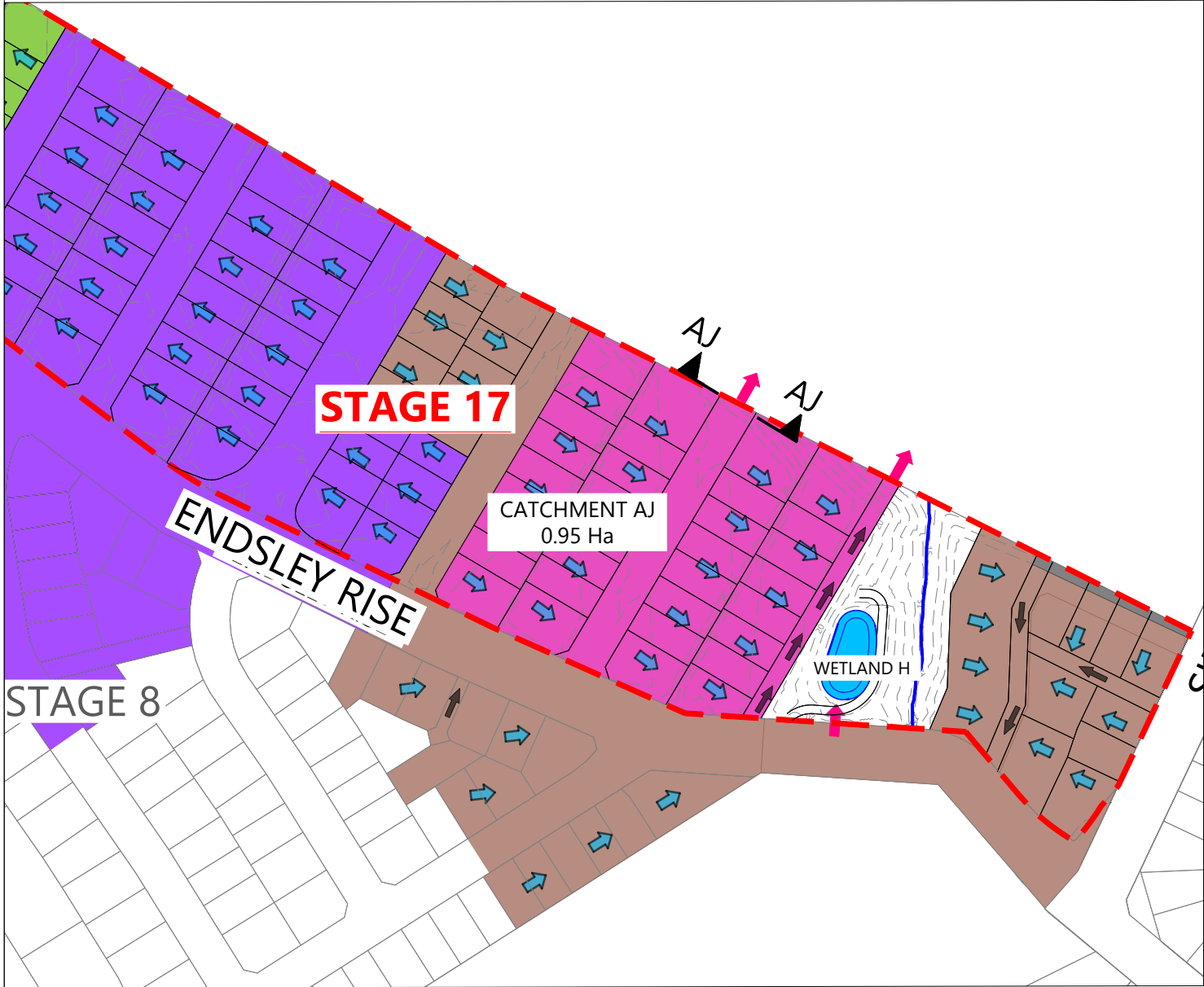
MILLDALE STAGES 14-17 FAST-TRACK PHASE 1: STORMWATER 100 YEAR OVERLAND FLOW PATH CATCHMENTS OVERALL PLAN SHEET 35

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3055-DR	

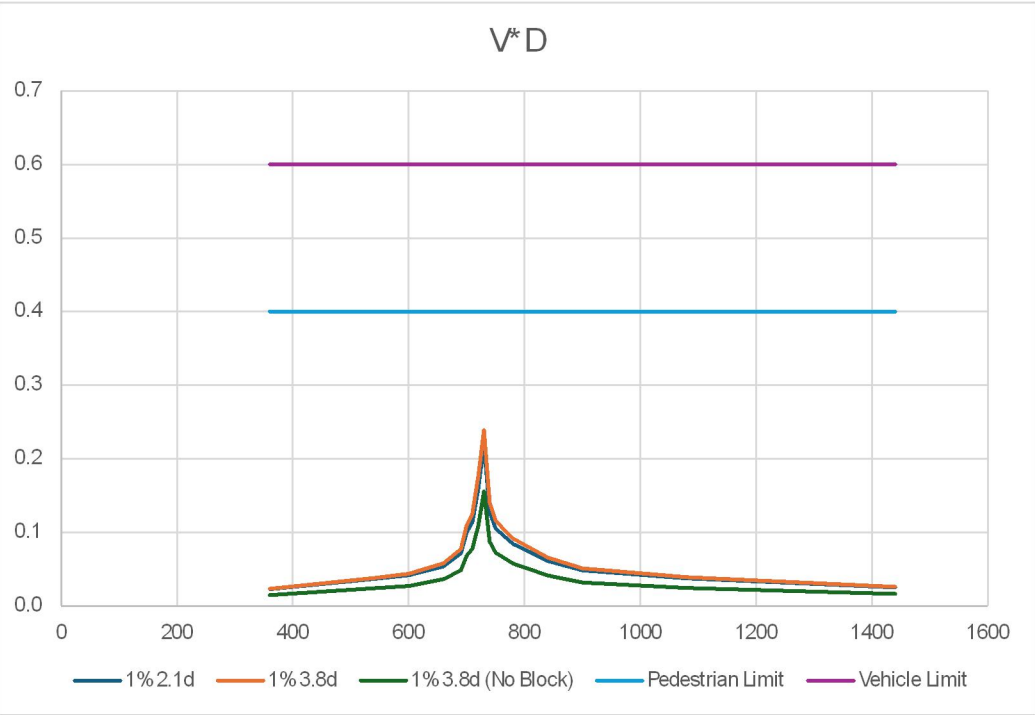


ROAD-SECTION AI-AI
Scale: 1:40@A1 - 1:80@A3





CATCHMENT AJ PLAN
Scale: 1:1250@A1 - 1:2500@A3



ROAD-SECTION AJ-AJ VxD GRAPH

LEGEND

- EXTENTS OF MILLDALE NORTH DEVELOPMENT AREA
PROPOSED BOUNDARIES
EXISTING BOUNDARIES
WATERCOURSE
DESIGN CONTOURS (1m INTERVAL)
LOT OVERLAND FLOW
ROAD OVERLAND FLOW
JOAL OVERLAND FLOW
OVERLAND FLOW SPILL POINT
OLFP CATCHMENT DIRECT TO STREAM
PROPOSED STORMWATER DRY BASIN

NOTES

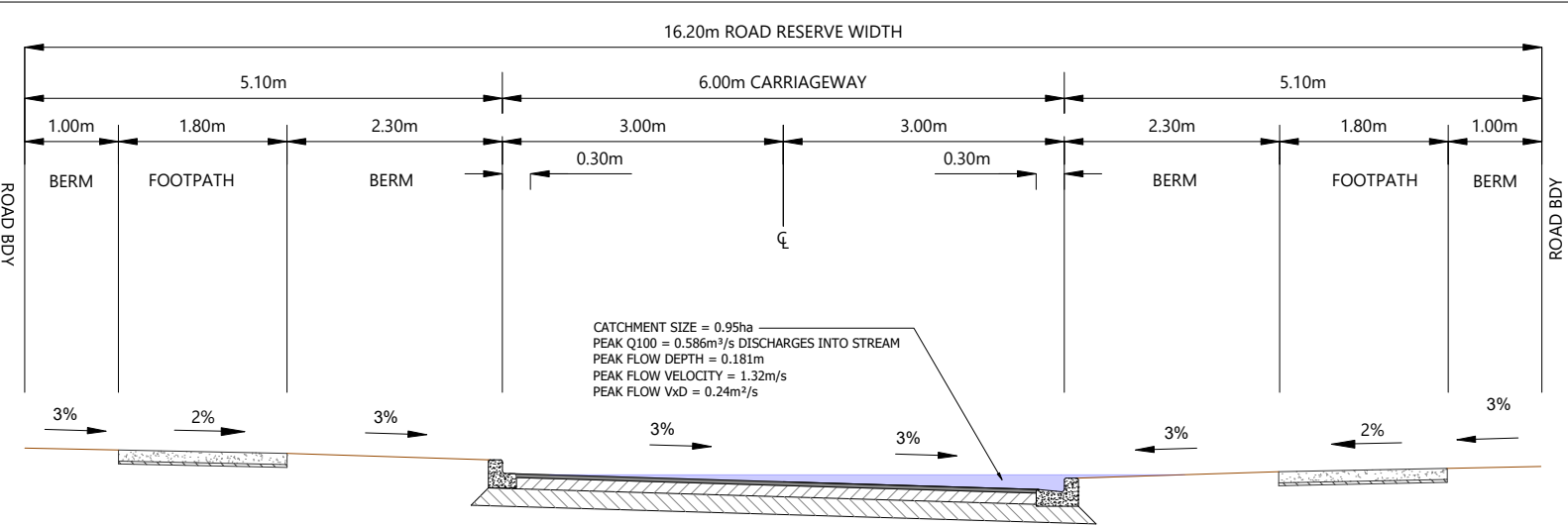
1. STORMWATER DESIGN AND LAYOUT SHOWN ARE INDICATIVE ONLY. FINAL DETAILED DESIGN AND LAYOUT ARE TO BE DETERMINED AT EPA STAGE.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

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

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER 100 YEAR
OVERLAND FLOW PATH
CATCHMENTS OVERALL PLAN
SHEET 36

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3056-DR	



ROAD-SECTION AJ-AJ
Scale: 1:40@A1 - 1:80@A3



LEGEND:

EXTENTS OF MILLDALE STAGES 14-17 DEVELOPMENT AREA	
EXTENTS OF ECOLOGICAL RESTORATION AREA	
EXISTING BOUNDARIES	
PROPOSED BOUNDARIES	
DESIGN CONTOUR (1m)	30
POST-DEVELOPMENT WATERCOURSE	
PROPOSED CULVERT	

NOTES

1. EXISTING BOUNDARIES SHOWN INCLUDES FUTURE BOUNDARIES CONSENTED UNDER BUN60446761 AND BUN60430899. THESE BOUNDARIES ARE SUBJECT TO FINAL SURVEY APPROVAL.

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

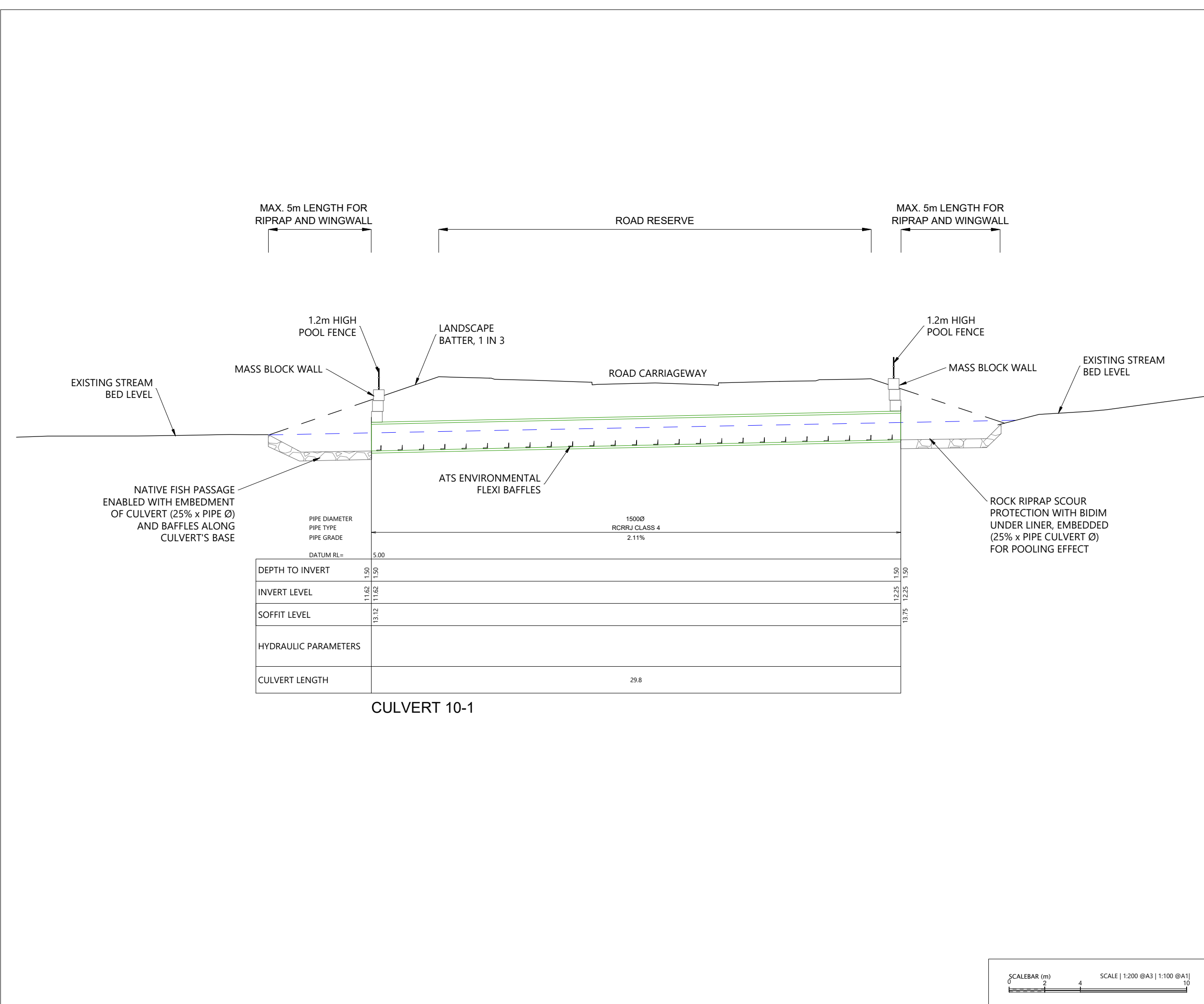
SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	



MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERTS LOCATION
PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	1:8000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3060-DR	





LEGEND:

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

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. SUBJECT TO ECOLOGICAL INPUTS AT THE EPA STAGE. FLEXI BAFFLES ARE TO BE CONSTRUCTED AND INSTALLED AS PER *ATS ENVIRONMENTAL* SPECIFICATIONS, i.e. REQUIRED BAFFLE LENGTH AND SPACINGS.
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- 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.

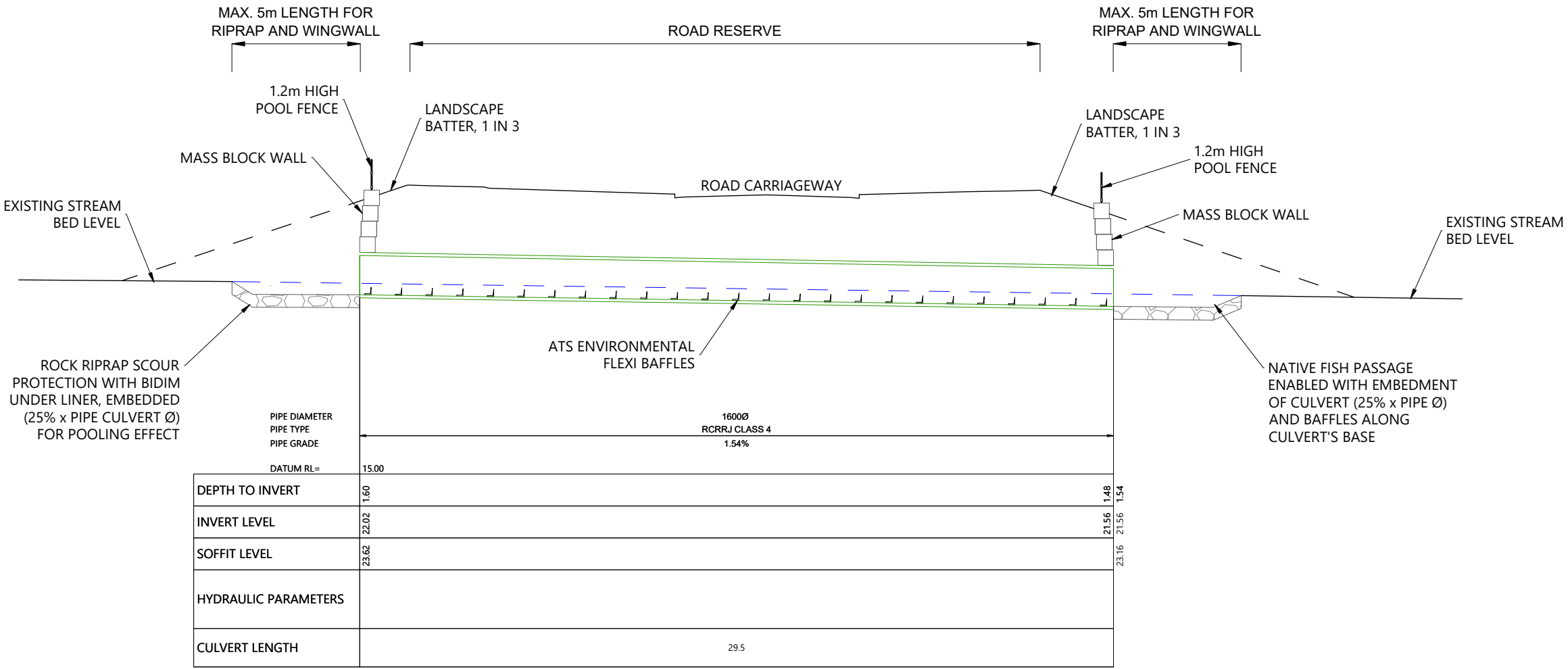
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	WOODS.CO.NZ

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 10-1
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3061-DR	





CULVERT 2-1

LEGEND:

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

NOTES:

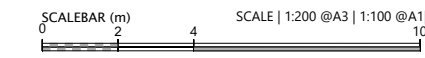
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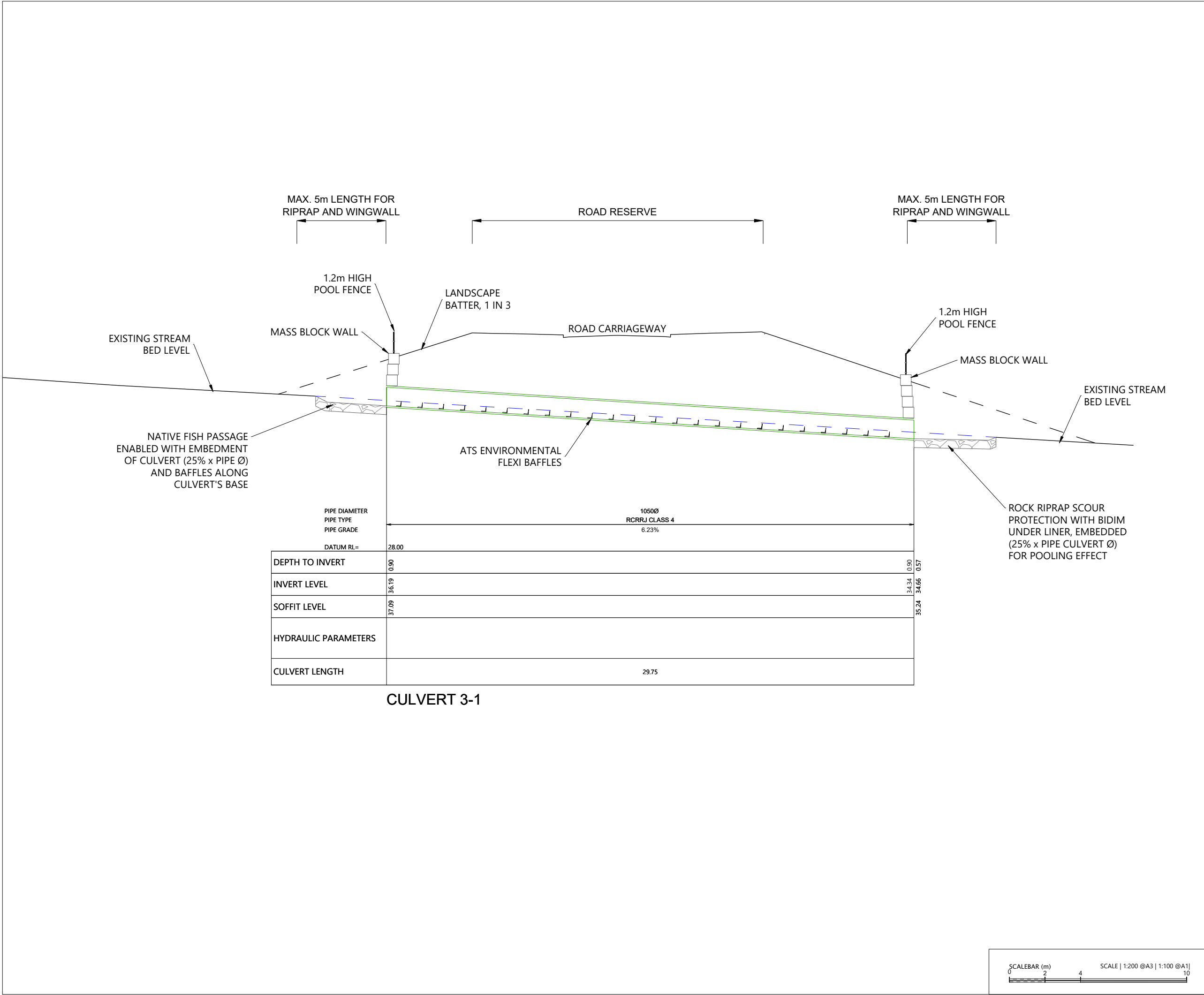
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	WOODS.CO.NZ
APPROVED	JW	

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 2-1
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3062-DR	





LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED RIPRAP	
ATS-ENVIRONMENTAL FLEXI BAFFLES	
CULVERT WINGWALL	

NOTES:

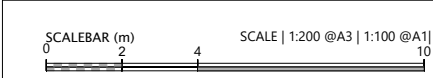
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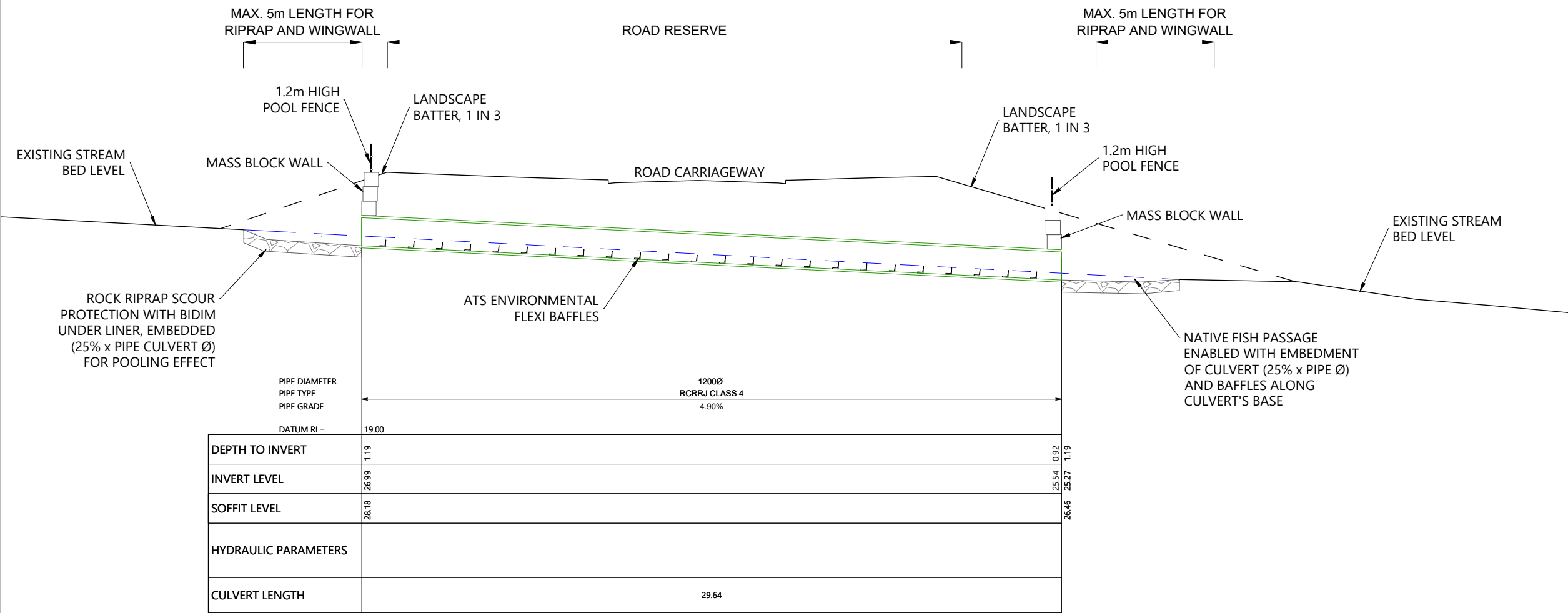
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	WOODS.CO.NZ

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 3-1
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3063-DR	





CULVERT 3-2

LEGEND:

DESIGN SURFACE	
STREAM EMBEDMENT LEVEL	
PROPOSED RIPRAP	
ATS-ENVIRONMENTAL FLEXI BAFFLES	
CULVERT WINGWALL	

NOTES:

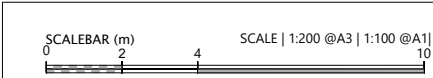
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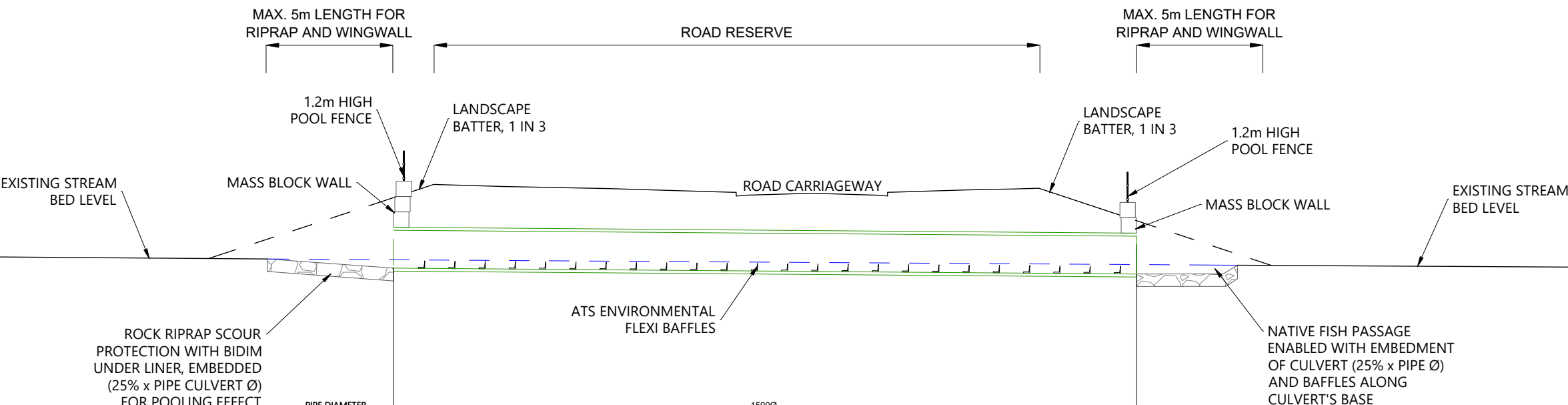
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	WOODS.CO.NZ
APPROVED	JW	

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 3-2
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3064-DR	





PIPE DIAMETER	1500Ø	
PIPE TYPE	RCRRJ CLASS 4	
PIPE GRADE	0.79%	
DATUM RL=	13.00	
DEPTH TO INVERT	1.50	1.50
INVERT LEVEL	20.69	20.45
SOFFIT LEVEL	22.19	21.95
HYDRAULIC PARAMETERS		
CULVERT LENGTH	29.48	

CULVERT 7-1

LEGEND:

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

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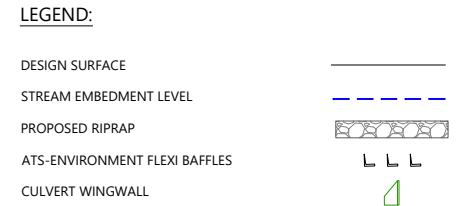
SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	WOODS.CO.NZ



MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 7-1
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3065-DR	

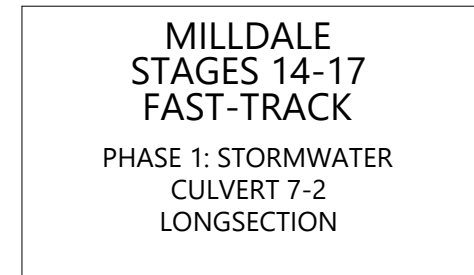




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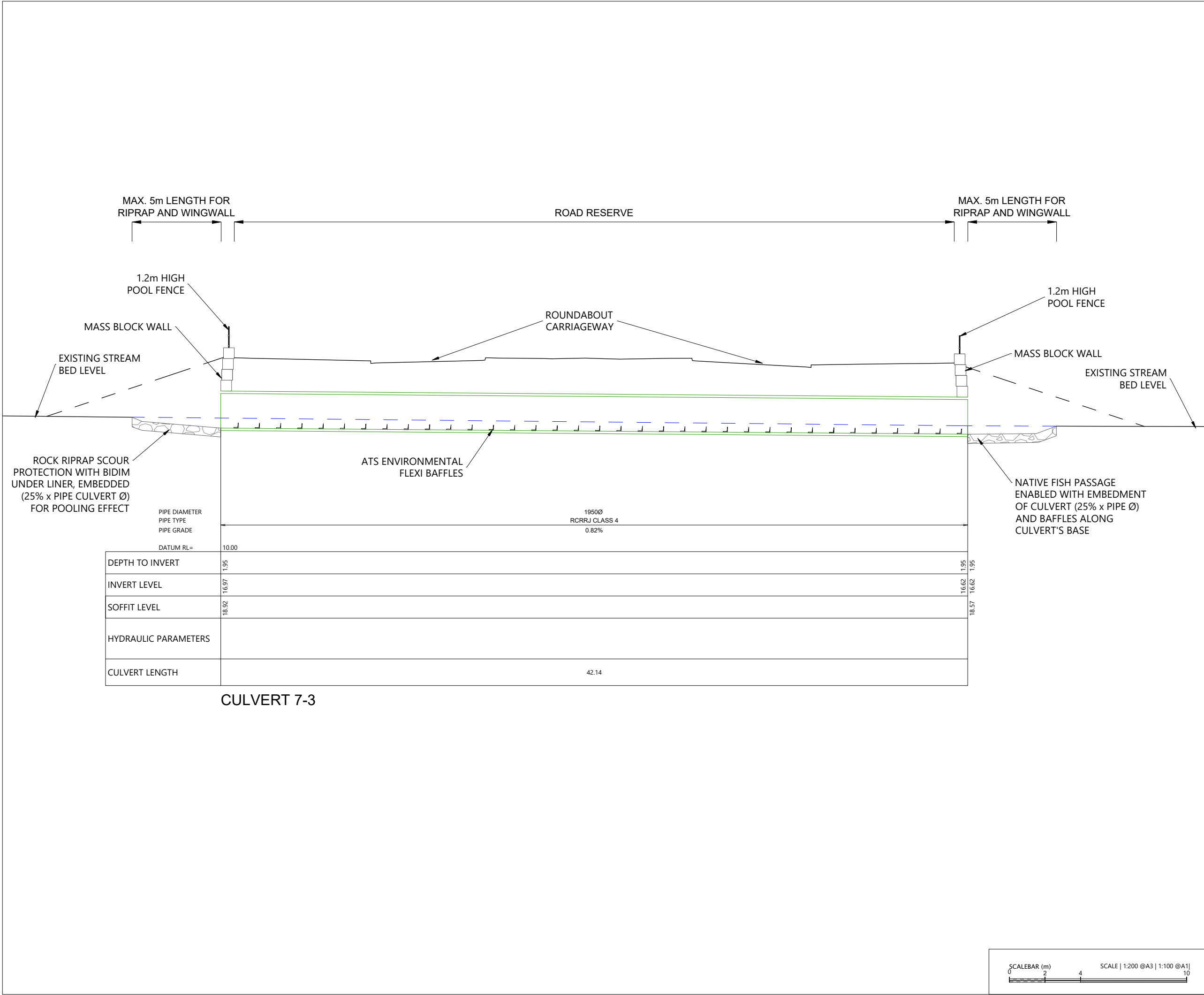
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SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	WOODS.CO.NZ



SCALEBAR (m) SCALE | 1:200 @A3 | 1:100 @A1 |

A horizontal scale bar with tick marks at 0, 2, 4, and 10 meters. The text 'SCALEBAR (m)' is positioned above the 0 mark, and 'SCALE | 1:200 @A3 | 1:100 @A1 |' is positioned above the 10 mark.



LEGEND:

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

NOTES:

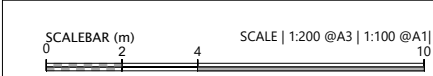
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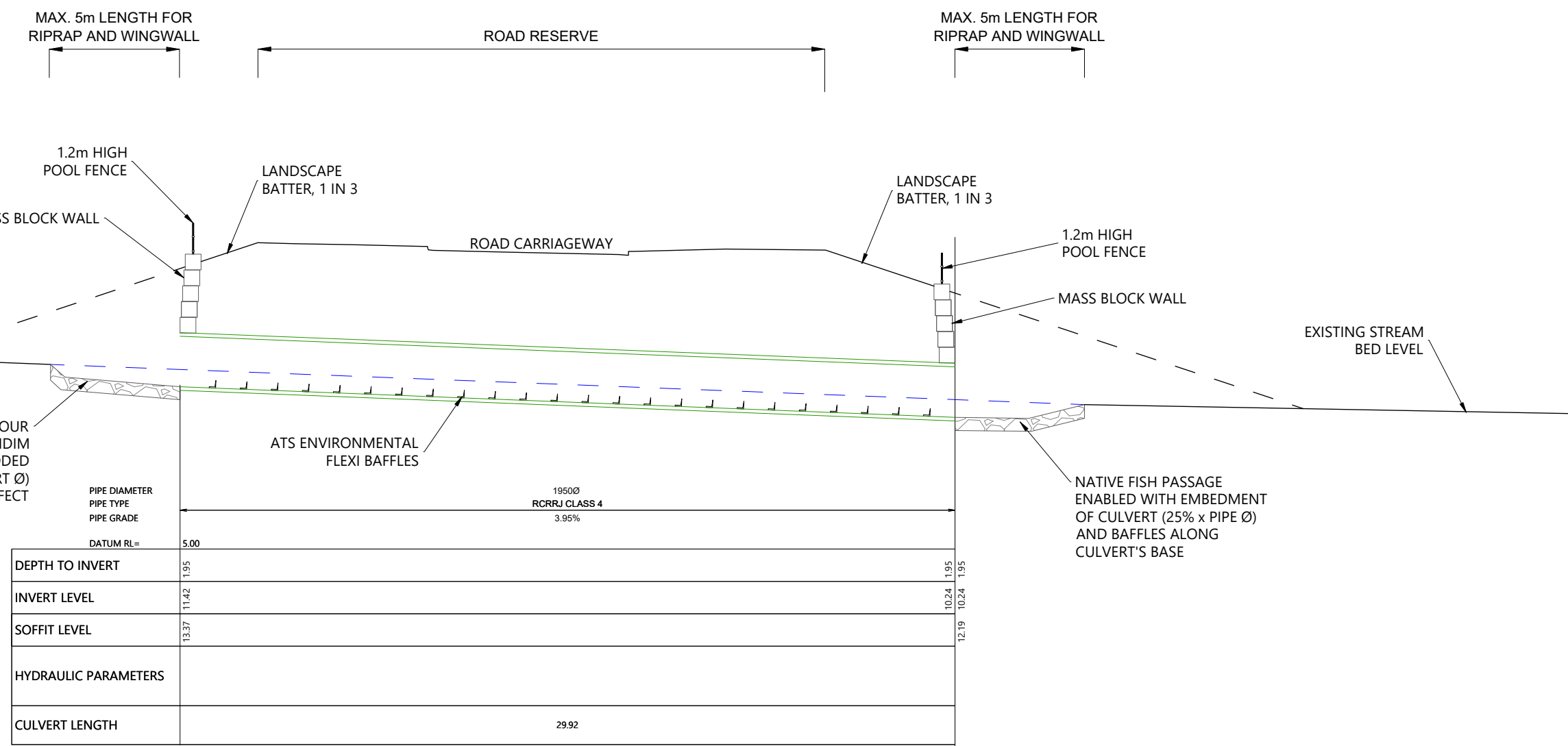
REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	WOODS.CO.NZ
APPROVED	JW	

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 7-3
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3067-DR	





CULVERT 7-4

LEGEND:

DESIGN SURFACE

STREAM EMBEDMENT LEVEL

PROPOSED RIPRAP

ATS-ENVIRONMENT FLEXI BAFFLES

CULVERT WINGWALL

- NOTES:**
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DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	WOODS.CO.NZ

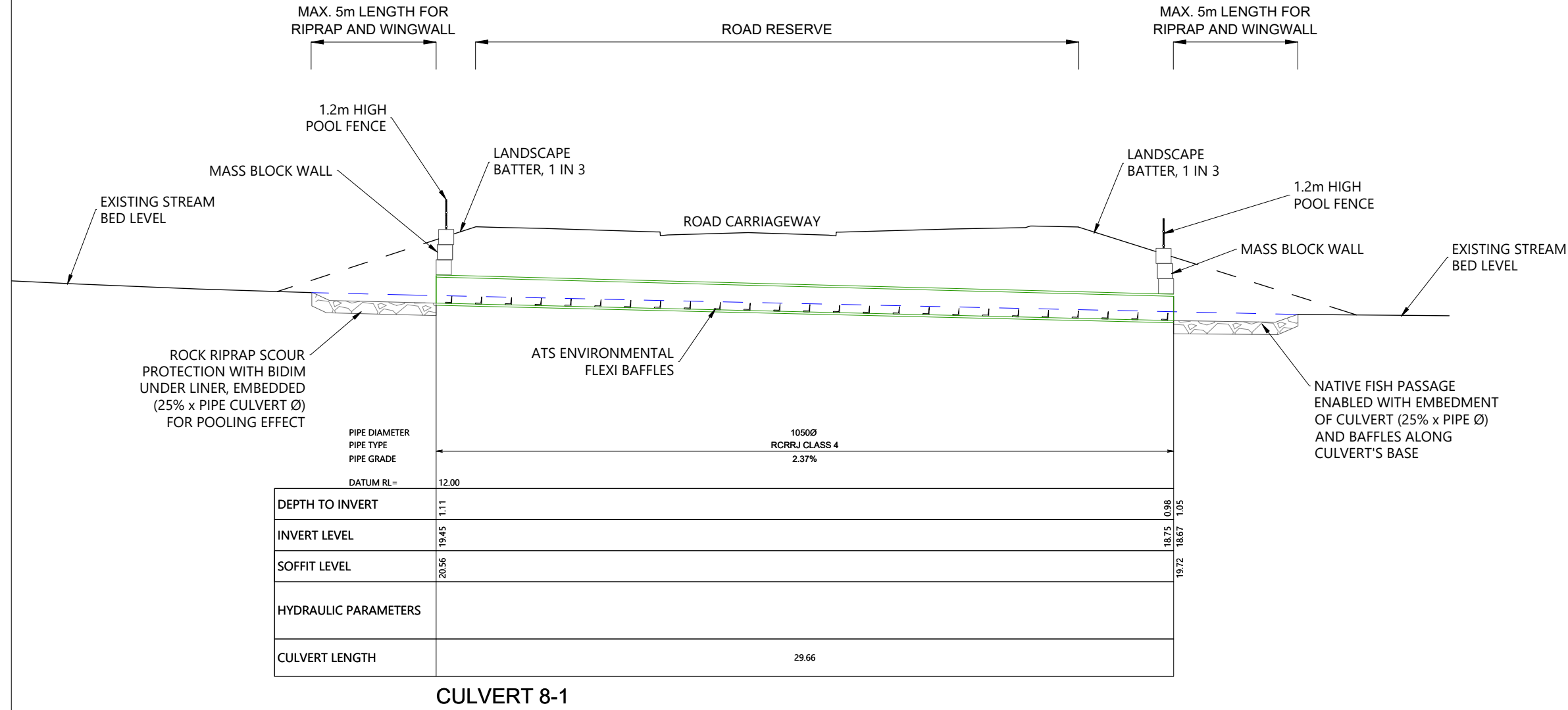
Connecting Lifesystems

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 7-4
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3068-DR	



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LEGEND:

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

NOTES:

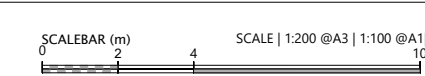
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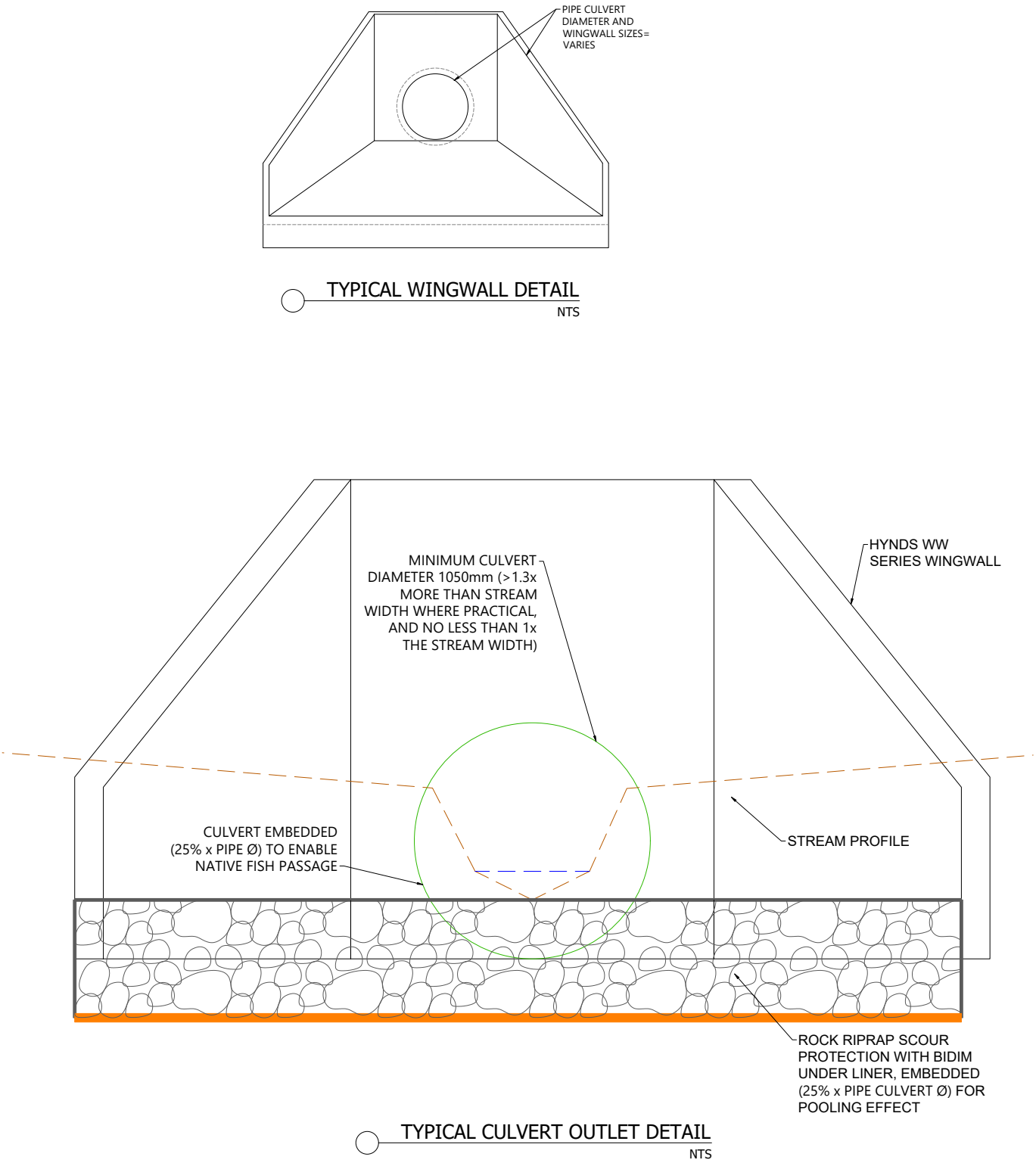
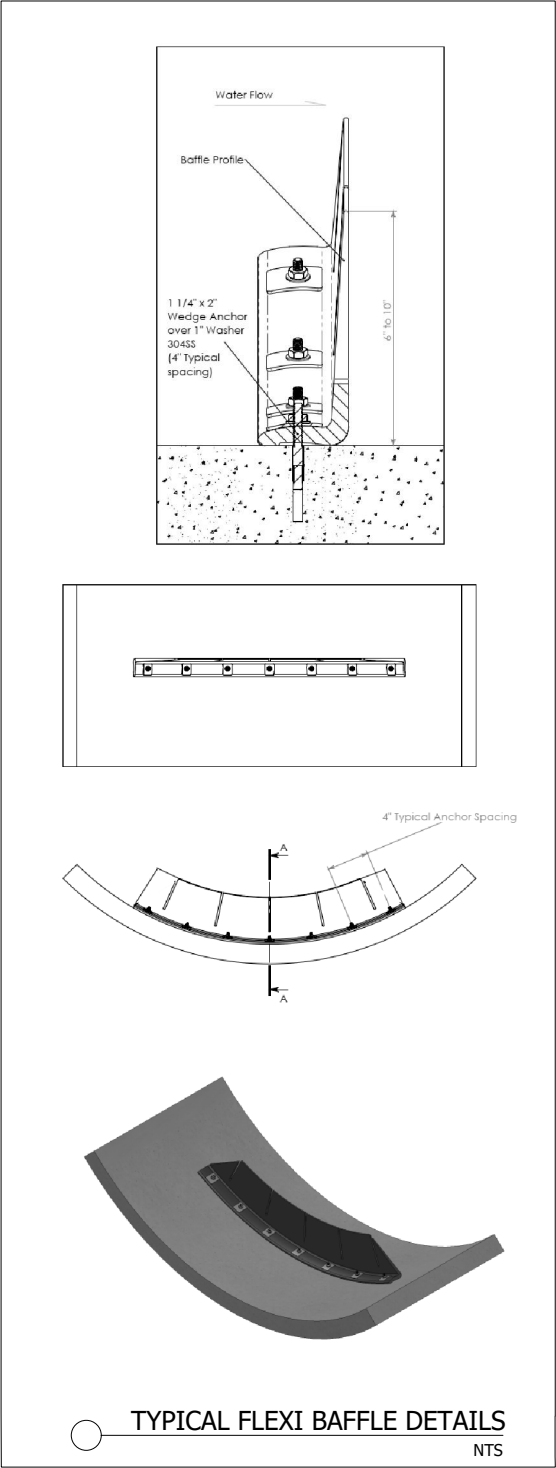
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1 ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	WOODS.CO.NZ

MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERT 8-1
LONGSECTION

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3069-DR	





- NOTES:
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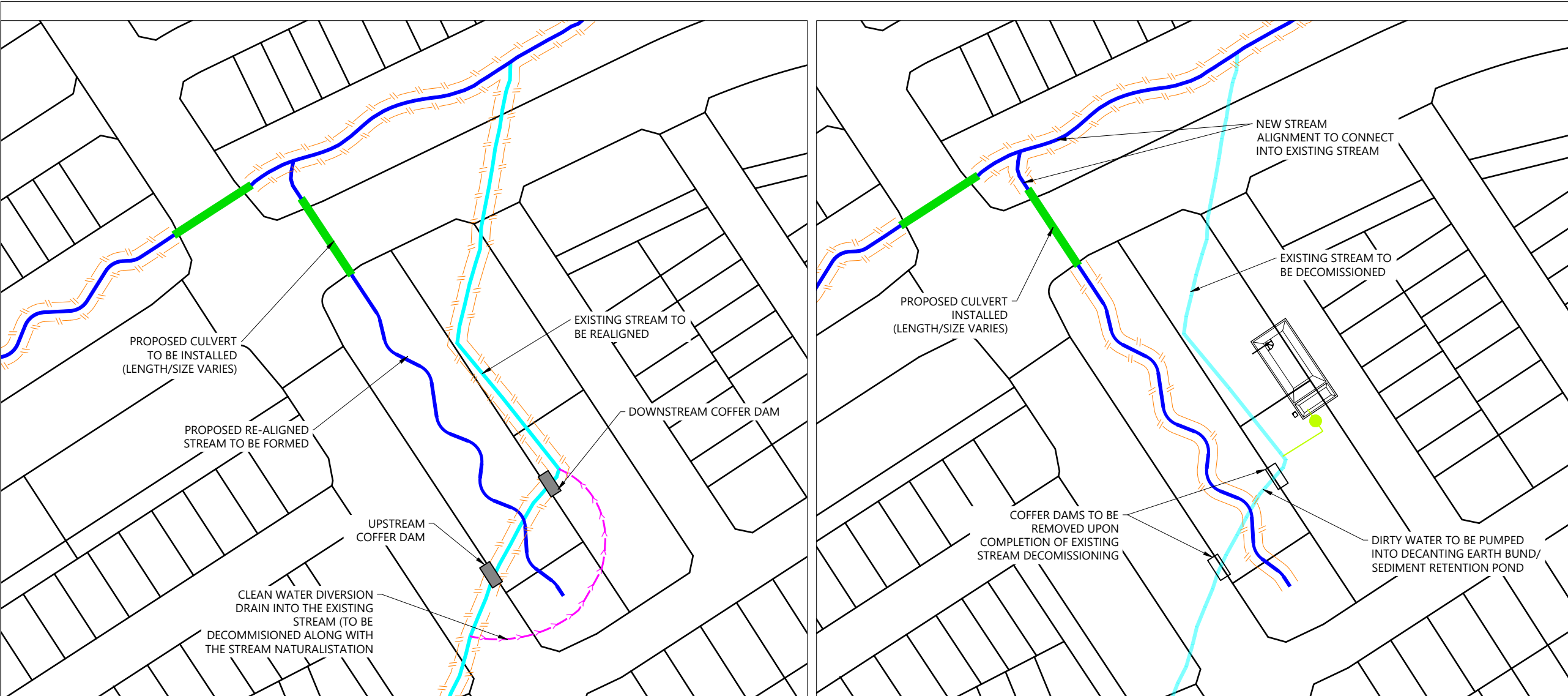
SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	WOODS.CO.NZ
APPROVED	JW	



MILLDALE
STAGES 14-17
FAST-TRACK

PHASE 1: TYPICAL STORMWATER
PIPE CULVERT DETAIL PLAN

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3070-DR	



PHASE 1 & 2: ESTABLISH CONTROLS & CULVERT INSTALLATION

SCALE: 1:1500 @A3

PHASE 3: DECOMISSION EXISTING STREAM

SCALE: 1:1500 @A3

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:

PROPOSED BOUNDARIES	
POST-DEVELOPMENT WATERCOURSE	
PRE-DEVELOPMENT WATERCOURSE	
PROPOSED CULVERT	
SILT FENCE	
COFFER DAM	
CLEAN WATER DIVERSION	

REVISION DETAILS		BY	DATE
1	ISSUED FOR CONSENT	SK	AUG 2026

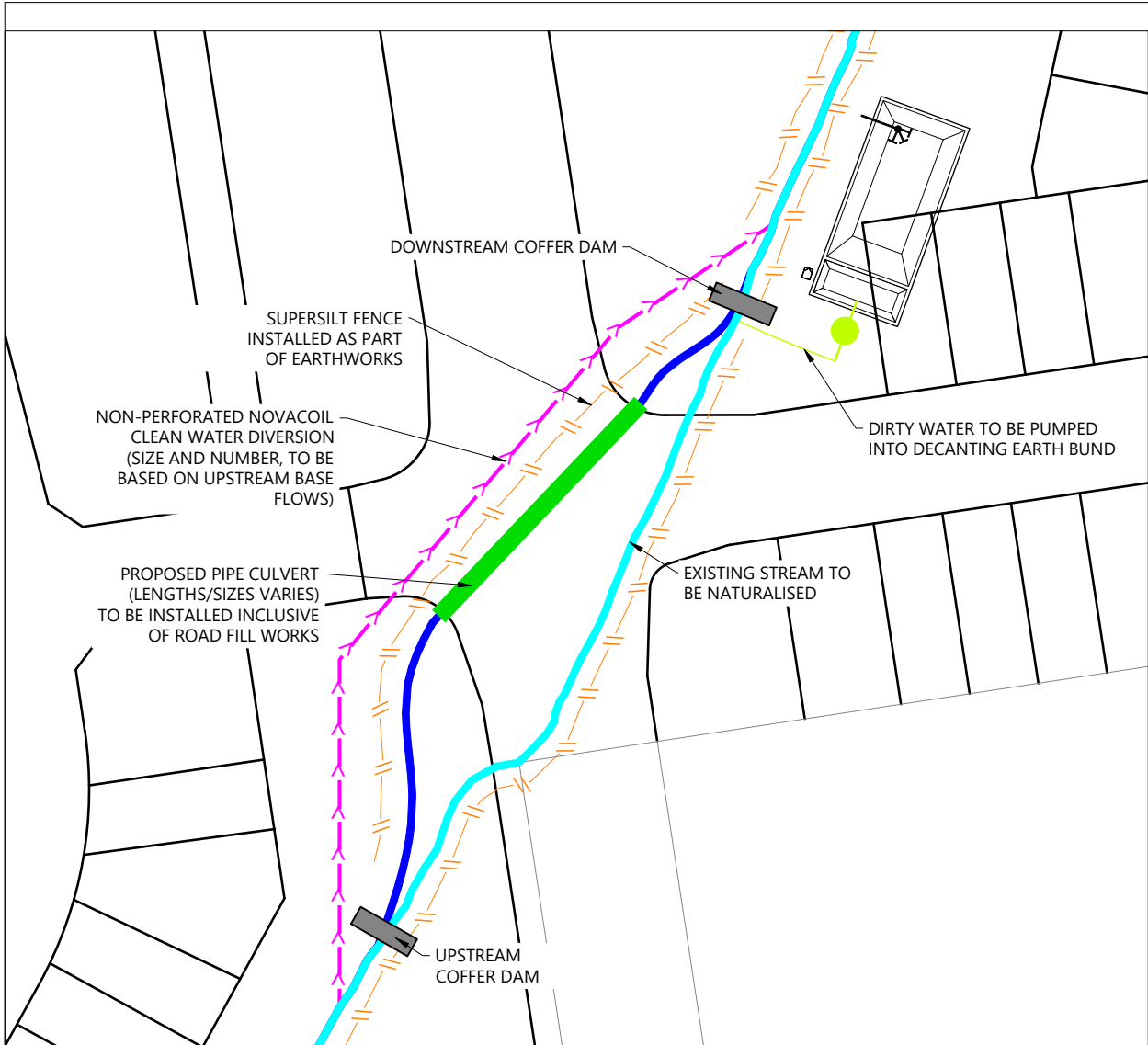
SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ



MILLDALE
STAGES 14-17
FAST-TRACK
PHASE 1: STORMWATER
CULVERTS TYPICAL INSTALLATION
PLAN - OFF LINE CULVERT

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3075-DR	

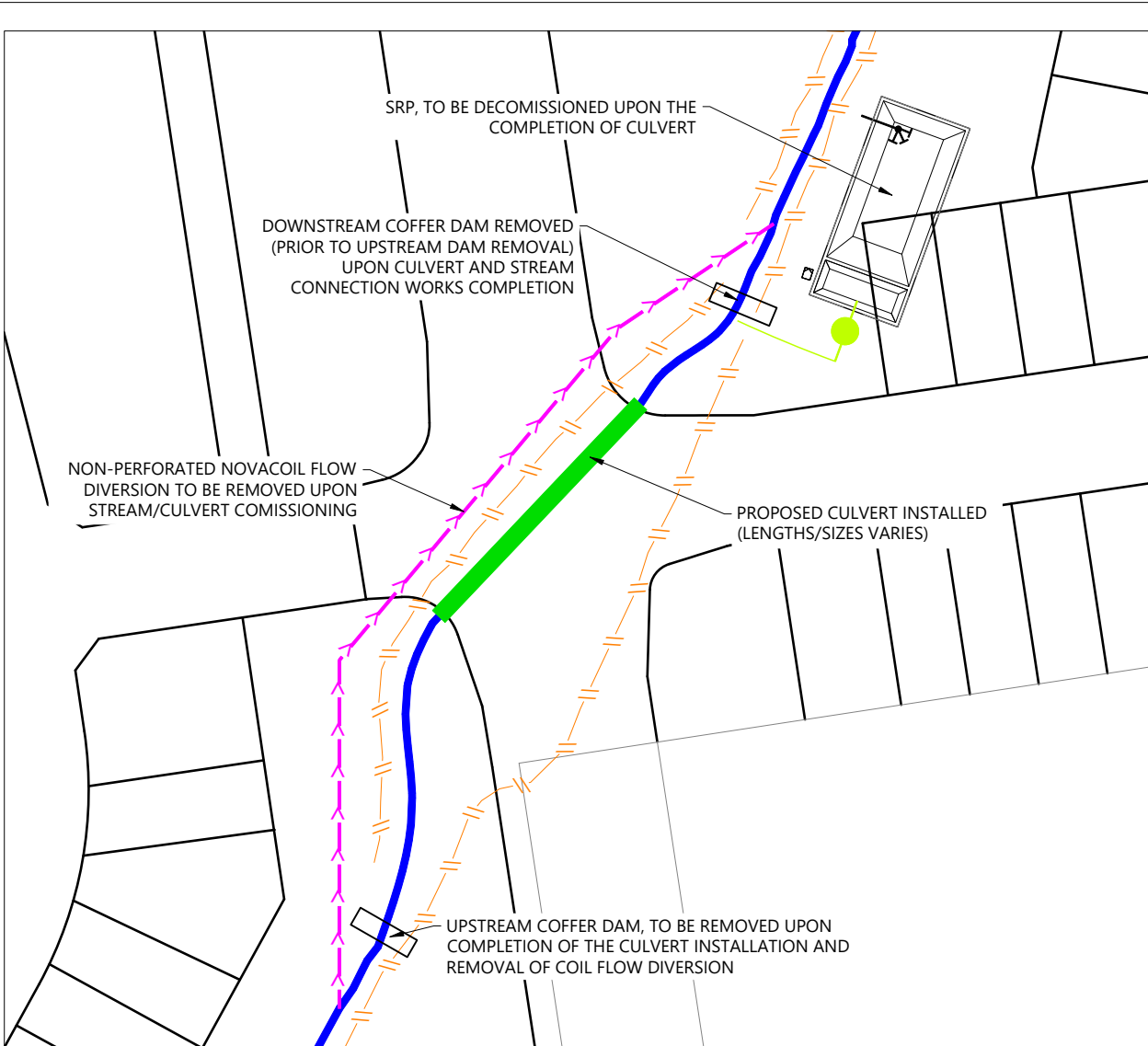




○ PHASE 1: ESTABLISH CONTROLS
SCALE: 1:800

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:

PROPOSED BOUNDARIES	---
POST-DEVELOPMENT WATERCOURSE	—
PRE-DEVELOPMENT WATERCOURSE	---
PROPOSED CULVERT	—
SILT FENCE	---
COFFER DAM	■
CLEAN WATER DIVERSION	---

REVISION DETAILS	BY	DATE
1 ISSUED FOR CONSENT	SK	AUG 2026

SURVEYED	WOODS	WAINUI ROAD MILLDALE AUCKLAND
DESIGNED	WOODS	
DRAWN	DH	
CHECKED	SK	
APPROVED	JW	
		WOODS.CO.NZ

MILLDALE STAGES 14-17 FAST-TRACK

PHASE 1: STORMWATER CULVERTS TYPICAL INSTALLATON PLAN - ON LINE CULVERT

STATUS	ISSUED FOR CONSENT	REV
SCALE	AS SHOWN	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P25-609-01-3076-DR	

