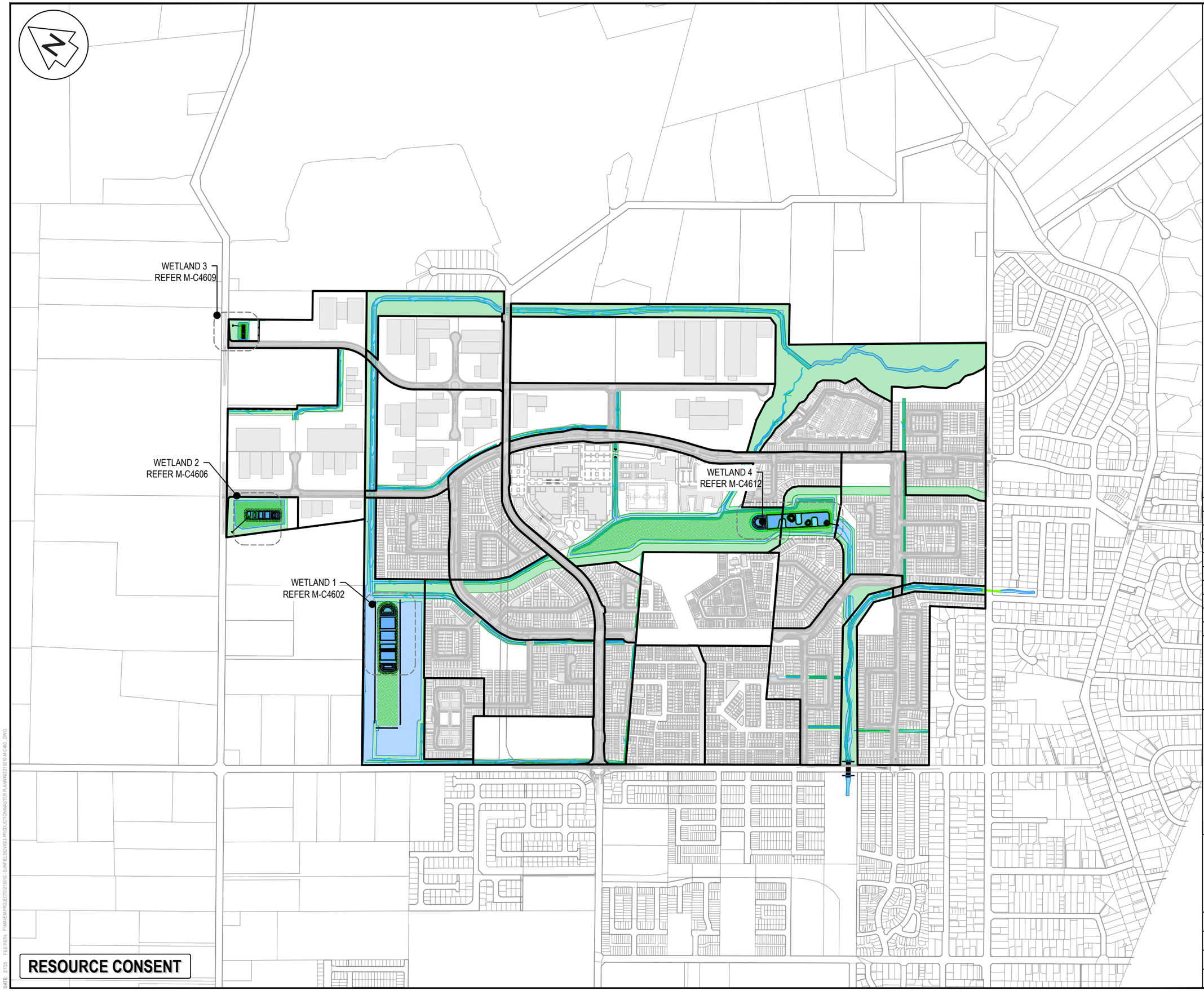


NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING,10 - 20% WEAK CONCRETE BEDDING.GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
5. EACH CONNECTION SHALL BE MARKED BY A 50MMX50MM TREATED PINE STAKE EXTENDING 600MM ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150MM BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
8. ALL MANHOLES ARE TO BE 1050MMØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0M.
10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

EX BDY

PROP SL BDY

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

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Project

SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title

PROPOSED WETLANDS - OVERVIEW PLAN

Project no.	215010
Scale	1:10000 @ A3
Cad file	215010-M-C460_.DWG
Drawing no.	M-C4601 Rev A

RESOURCE CONSENT

DATE 2/7/25 FILE PATH P:\MAVEN\PROJECTS\215010 SUNFIELD\DWGS\PRODUCTION\MASTER PLAN\215010-M-C460_.DWG

LOT 1 DP 109061

V DP 6

918

345ø SMAF ORIFICE @ IL = 20.70
750ø SW PIPE @ IL = 21.15 (POST STORM DRAINDOWN)

SPILL WAY TO BE LOCATED ALONG BOUNDARY BUND REFER TO DRAWING M-C4605

LOW FLOW BY PASS INTO WETLAND BOX CULVERT 0.4m X 1.2m

750ø SW PIPE @ IL = 20.70 w WASTOP CHECK VALVE OR SIMILAR FOR POST FLOOD DRAINDOWN

3.5m WIDE ACCESS TRACK AROUND WETLAND

2YR & 10YR FLOOD STORAGE AREA
PEAK 2YR WATER LEVEL = 22.37 mRL
PEAK 10YR WATER LEVEL = 22.55 mRL

PROPOSED DRYING AREA

WETLAND LOCATION AND SHAPE SHOWN IS INDICATIVE

3.5m SAFETY BENCH

SPILLWAY TO 100YR FLOOD STORAGE RL = 22.57

100YR FLOOD STORAGE AREA
PEAK 100YR WATER LEVEL = 22.60 mRL

INDICATIVE LOCATION OF 3.5m WIDE ACCESS WAY TO WETLAND WITH MAX 1:8 SLOPE

WETLAND 1 - PLAN
SCALE 1:1000

NOTES
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3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

LEGEND
PR WETLAND FGL

RESOURCE CONSENT

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

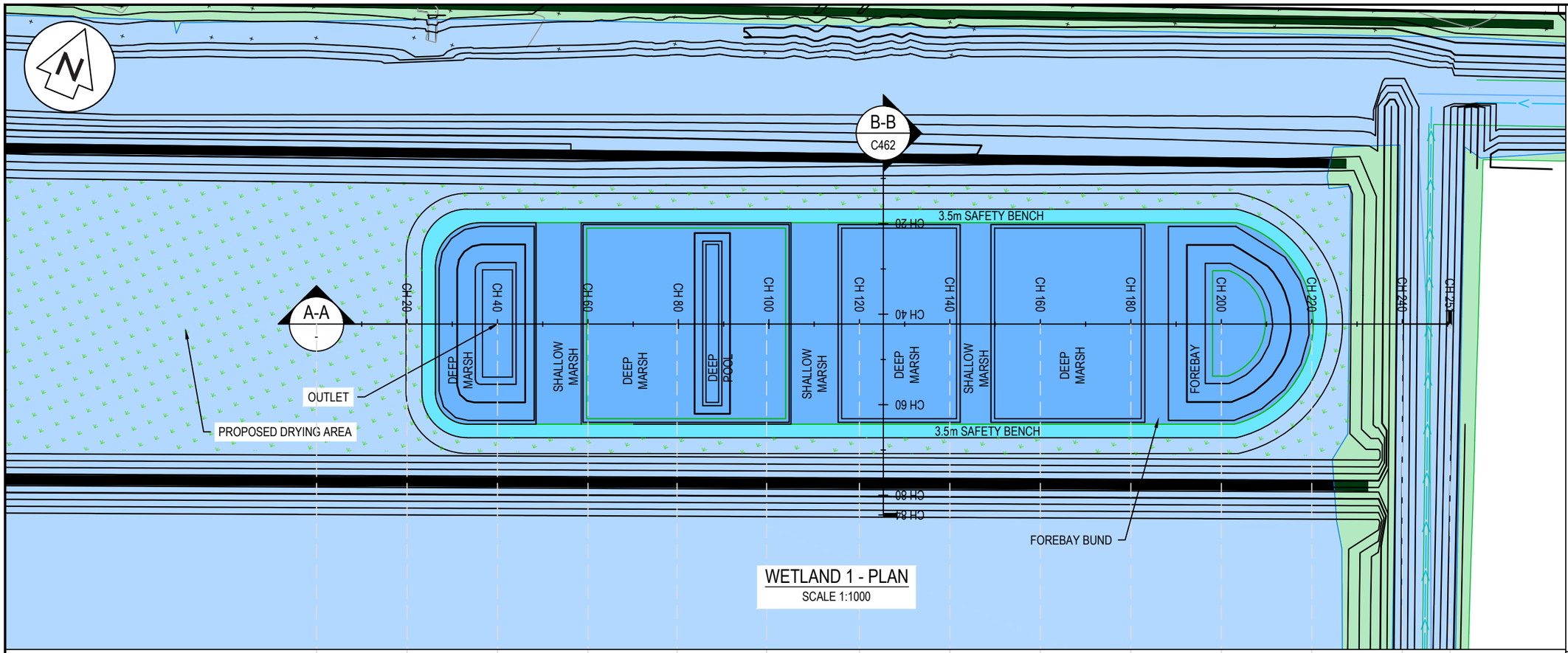
Maven Associates
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5 Owens Road, Epsom
Auckland 1023

Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

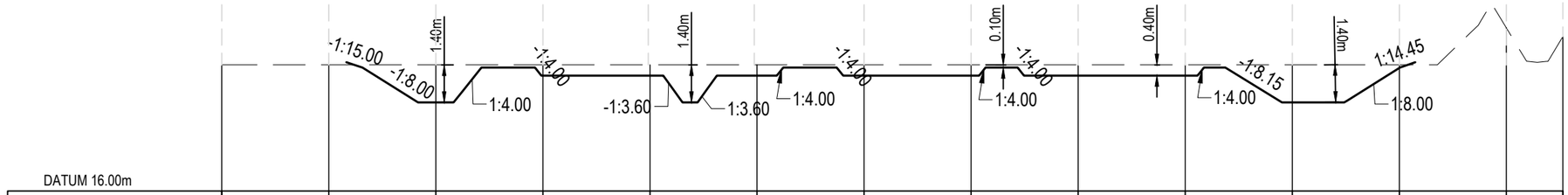
Title
PROPOSED WETLANDS - WETLAND 1 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460_.DWG
Drawing no.	M-C4602 Rev A

DATE: 2/025 FILE PATH: F:\MAVEN\PROJECTS\215010 SUNFIELD\DWGS\PRODUCTION\MASTER PLANNING\215010-M-C460_.DWG



WETLAND 1 - PLAN
SCALE 1:1000



DATUM 16.00m														
EXISTING LEVELS	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	20.70	22.08	21.76
DESIGN LEVELS			19.30	20.30	20.30	20.30	20.30	20.30	20.30	20.30	19.30	20.59		
CUT/FILL			-1.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-0.40	-1.40	-0.11		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	250.56

WETLAND 1 A-A
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
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LEGEND
PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

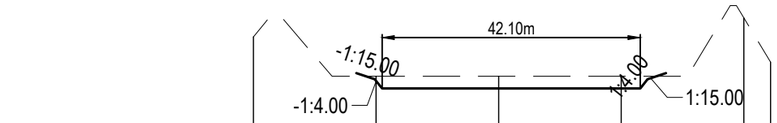
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www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 1 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460-SW WETLANDS.DWG
Drawing no.	M-C4603 Rev A

DATE 2/4/25 FILEPATH F:\MAVEN\PROJECTS\215010 SUNFIELD\DWGS\215010-M-C460-SW WETLANDS.DWG



DATUM 18.00m						
EXISTING LEVELS	21.98	20.70	20.70	20.70	22.60	21.16
DESIGN LEVELS		20.55	20.30	20.30		
CUT/FILL		-0.15	-0.40	-0.40		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	84.36

WETLAND 1 B-B
SCALE: HORI 1:1000 VERT 1:200

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND
PR WETLAND FGL

RESOURCE CONSENT

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

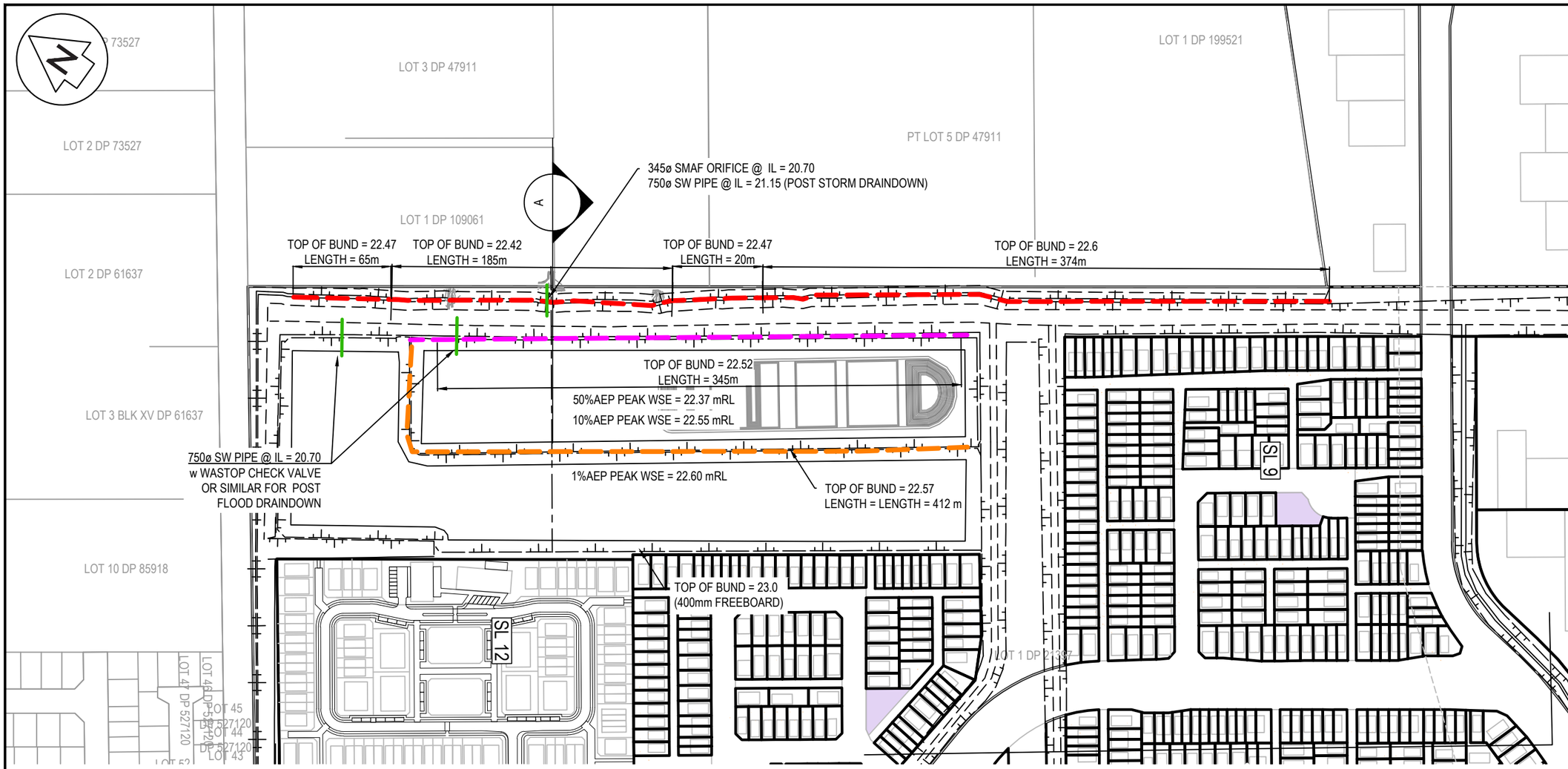
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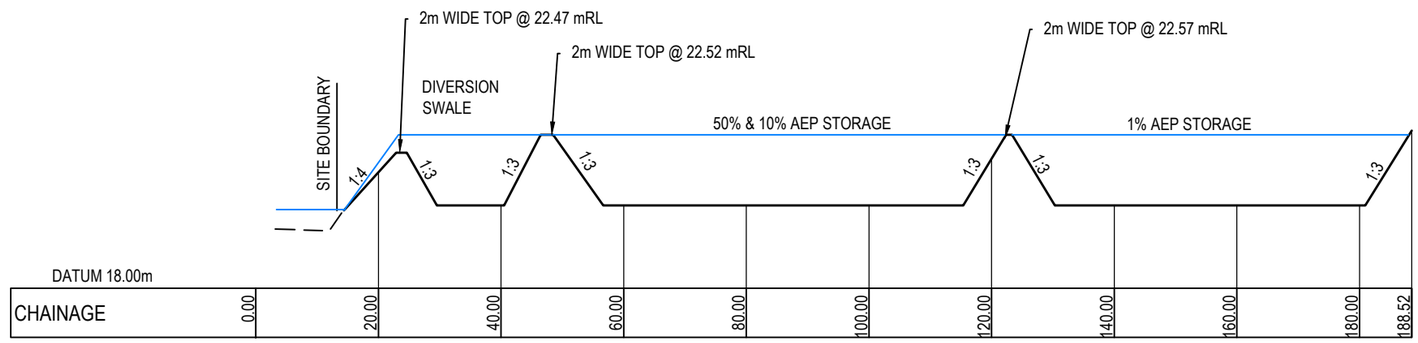
Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 1 CROSS SEC. & OUTLET

Project no.	215010		
Scale	AS SHOWN		
Cad file	215010-M-C460-SW WETLANDS.DWG		
Drawing no.	M-C4604	Rev	A

DATE: 2/4/25 FILEPATH: F:\MAVEN\PROJECTS\215010_SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG





CROSS SECTION A - NORTHERN POND 1
NOT TO SCALE

RESOURCE CONSENT

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING,10 - 20% WEAK CONCRETE BEDDING.GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6m CRS).
5. EACH CONNECTION SHALL BE MARKED BY A 50mmX50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
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9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

- EX BDY
- PR BDY
- OUTFLOW 1 SPILLWAY
- SPILLWAY 2
- SPILLWAY 3

Rev	Description	By	Date
A	RESOURCE CONSENT	YW	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	OQ	11/2024
Checked	JP/LC	02/2025

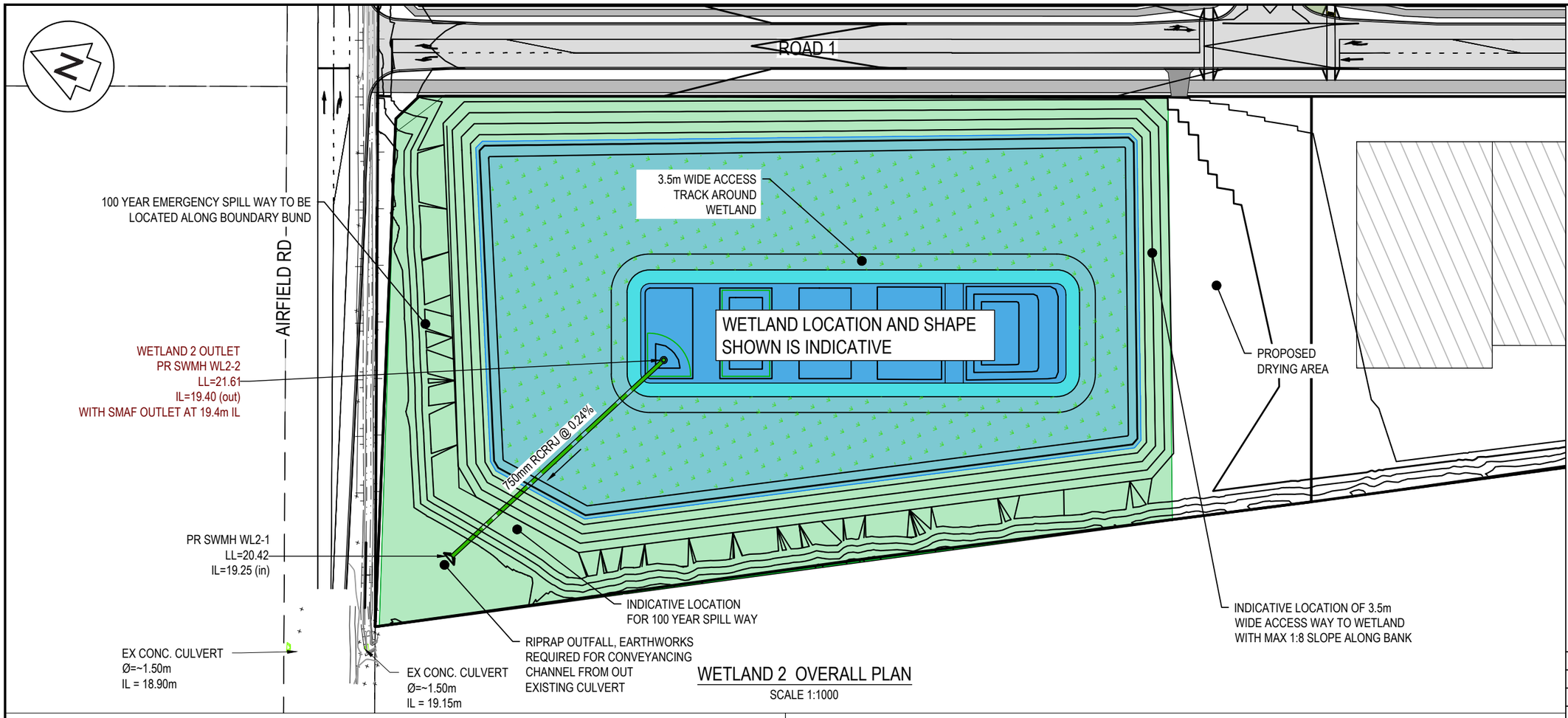
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Auckland 1023

Project
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

Title
PROPOSED NORTHERN POND 1 SPILLWAY PLAN

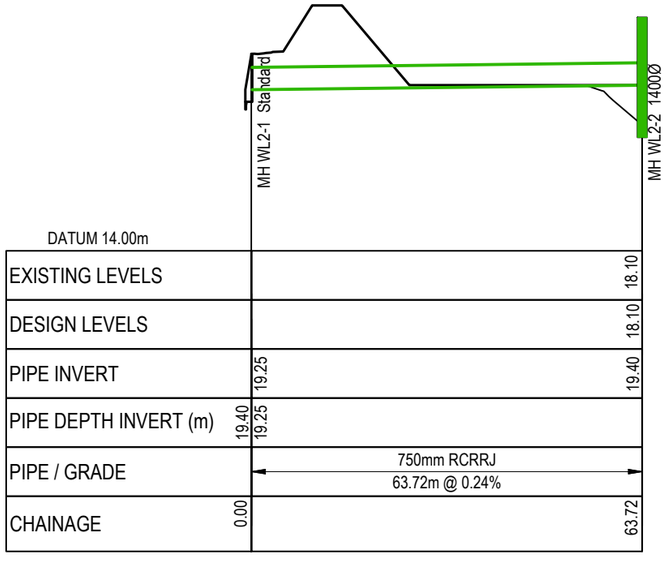
Project no.	215010
Scale	1:3000 @ A3
Cad file	215010-M-C460-SW SPILLWAY.DWG
Drawing no.	M-C4605 Rev A

DATE: 25/05 FILEPATH: F:\MAVEN\PROJECTS\215010 SUNFIELD\DWG\215010-M-C460-SW SPILLWAY.DWG



WETLAND 2 OVERALL PLAN

SCALE 1:1000



WETLAND 2 OUTLET

SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

STORMWATER QUALITY DETAILS	
PERNAMENT WATER LEVEL	19.4 mRL
OUTLET DETAILS	
SMAF OUTLET	180mm Ø
2YR/10YR OUTLET	2m @ 20.4mRL WEIR IN MANHOLE WITH SCRUFFY DOME
100YR SPILLWAY	4m LONG SPILLWAY @ RL 20.67m
100YR EMERGANCY SPILLWAY	70m LONG @ RL 21.5m

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

LEGEND

PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

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Project

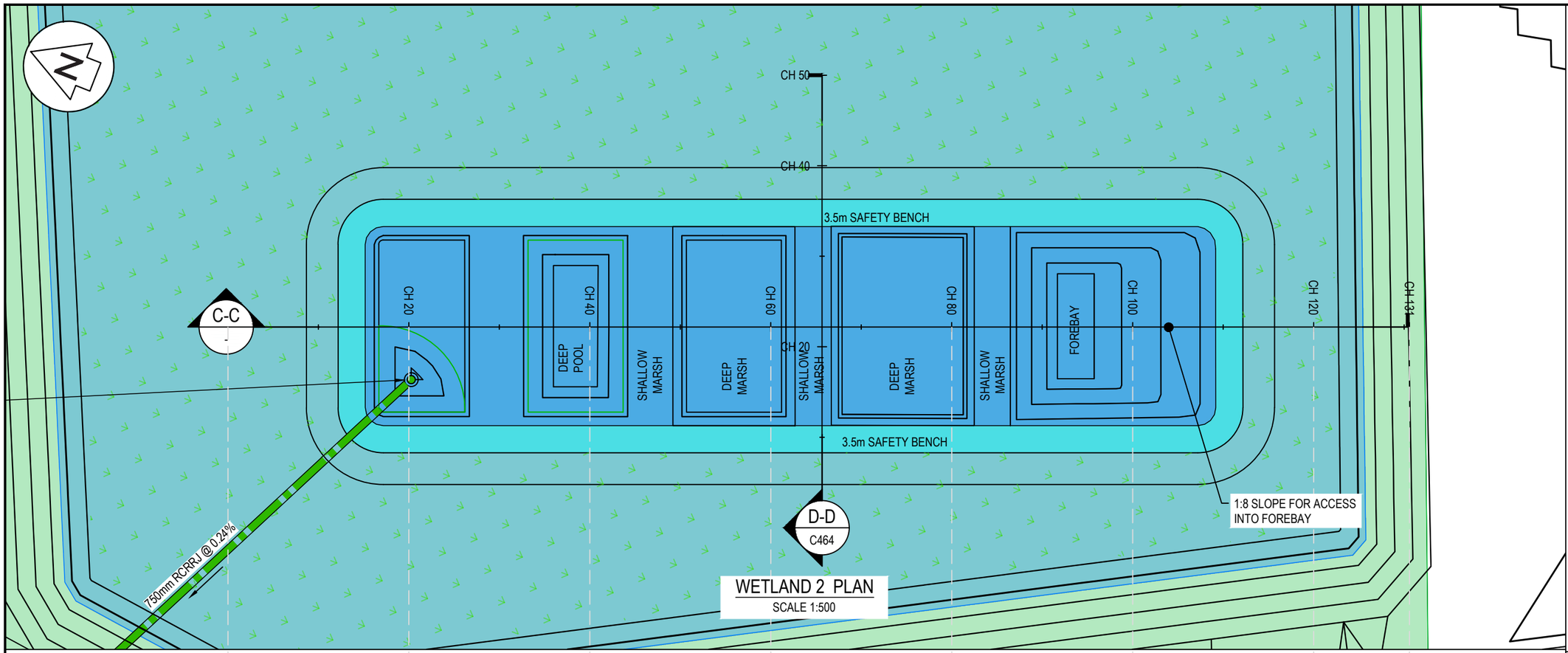
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title

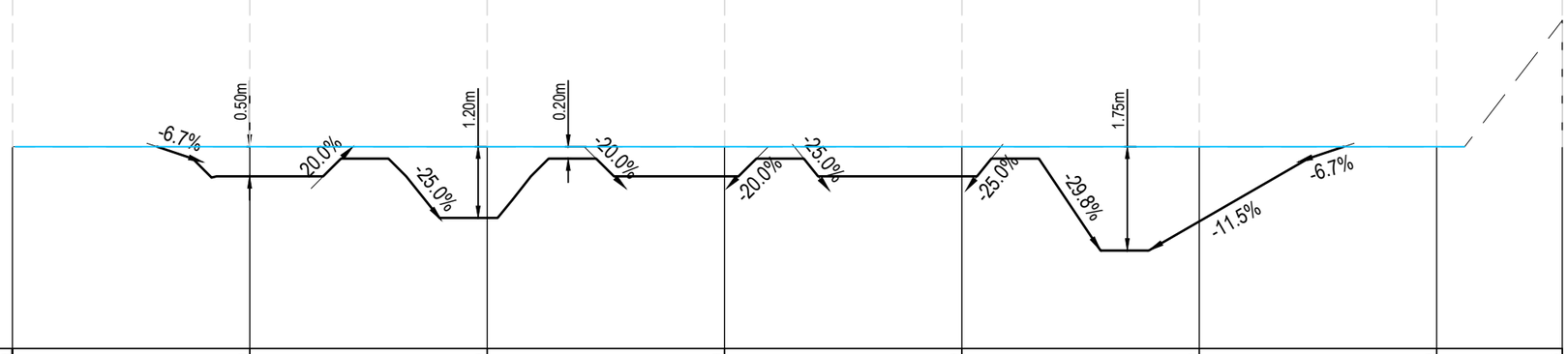
PROPOSED WETLANDS - WETLAND 2 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460-SW WETLANDS.DWG
Drawing no.	M-C4606 Rev A

DATE: 2/4/25 FILE PATH: P:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG



WETLAND 2 PLAN
SCALE 1:500



DATUM 16.00m

EXISTING LEVELS	19.40	19.40	19.40	19.40	19.40	19.40	19.40	21.53
DESIGN LEVELS		18.90	18.20	18.90	18.90	18.14		
CUT/FILL		-0.50	-1.20	-0.50	-0.50	-1.26		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	130.59

WETLAND 2 C-C
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND
PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

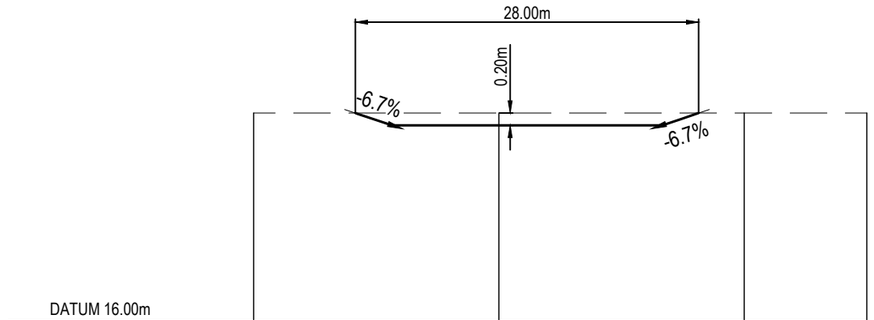
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Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 2 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460-SW WETLANDS.DWG
Drawing no.	M-C4607 Rev A

DATE: 2/4/25 FILEPATH: F:\MAVEN\PROJECTS\215010 SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG



DATUM 16.00m				
EXISTING LEVELS	19.40	19.40	19.40	19.40
DESIGN LEVELS		19.20		
CUT/FILL		-0.20		
CHAINAGE	0.00	20.00	40.00	50.00

WETLAND 2 D-D
SCALE: HORI 1:1000 VERT 1:200

NOTES
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LEGEND
PR WETLAND FGL

RESOURCE CONSENT

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

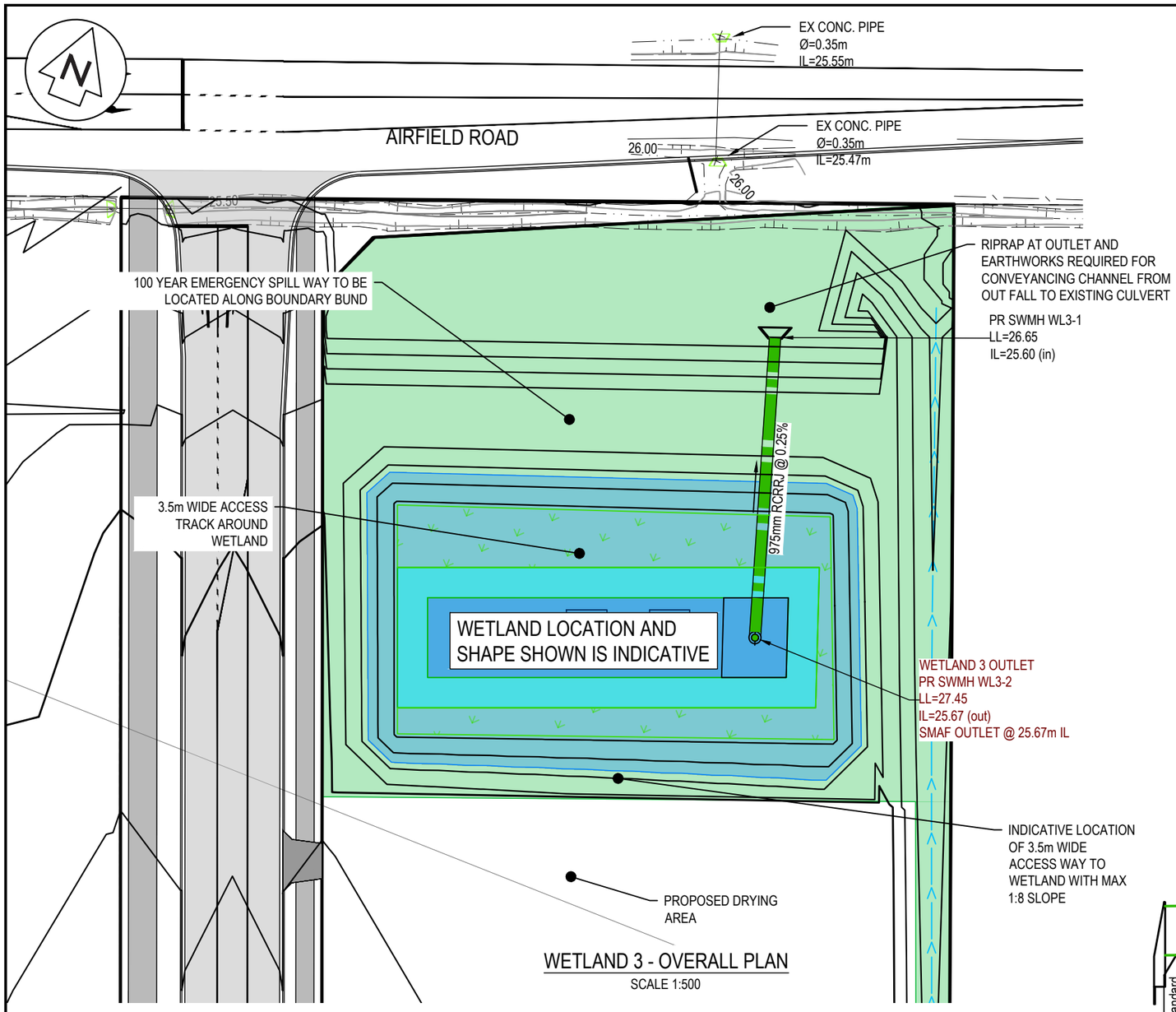
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Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 2 CROSS SEC. & OUTLET

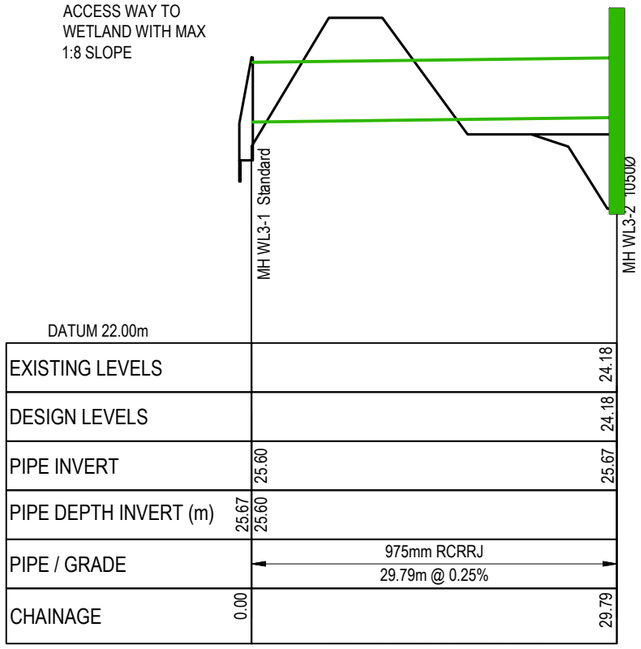
Project no.	215010		
Scale	AS SHOWN		
Cad file	215010-M-C460-SW WETLANDS.DWG		
Drawing no.	M-C4608	Rev	A

DATE: 2/4/25 FILE PATH: F:\MAVEN\PROJECTS\215010_SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG



WETLAND 3 - OVERALL PLAN

SCALE 1:500



WETLAND 3 OUTLET

SCALE: HORI 1:1000 VERT 1:200

STORMWATER QUALITY DETAILS	
PERNAMENT WATER LEVEL	25.67 mRL
OUTLET DETAILS	
SMAF OUTLET	68mm Ø
2YR/10YR/100YR OUTLET	SCRUFFY DOME MANHOLE WITH 0.7m WEIR @ RL26.43m
100YR EMERGANCY SPILLWAY	20m LONG @ 27.27m RL

RESOURCE CONSENT

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

LEGEND

PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

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Project

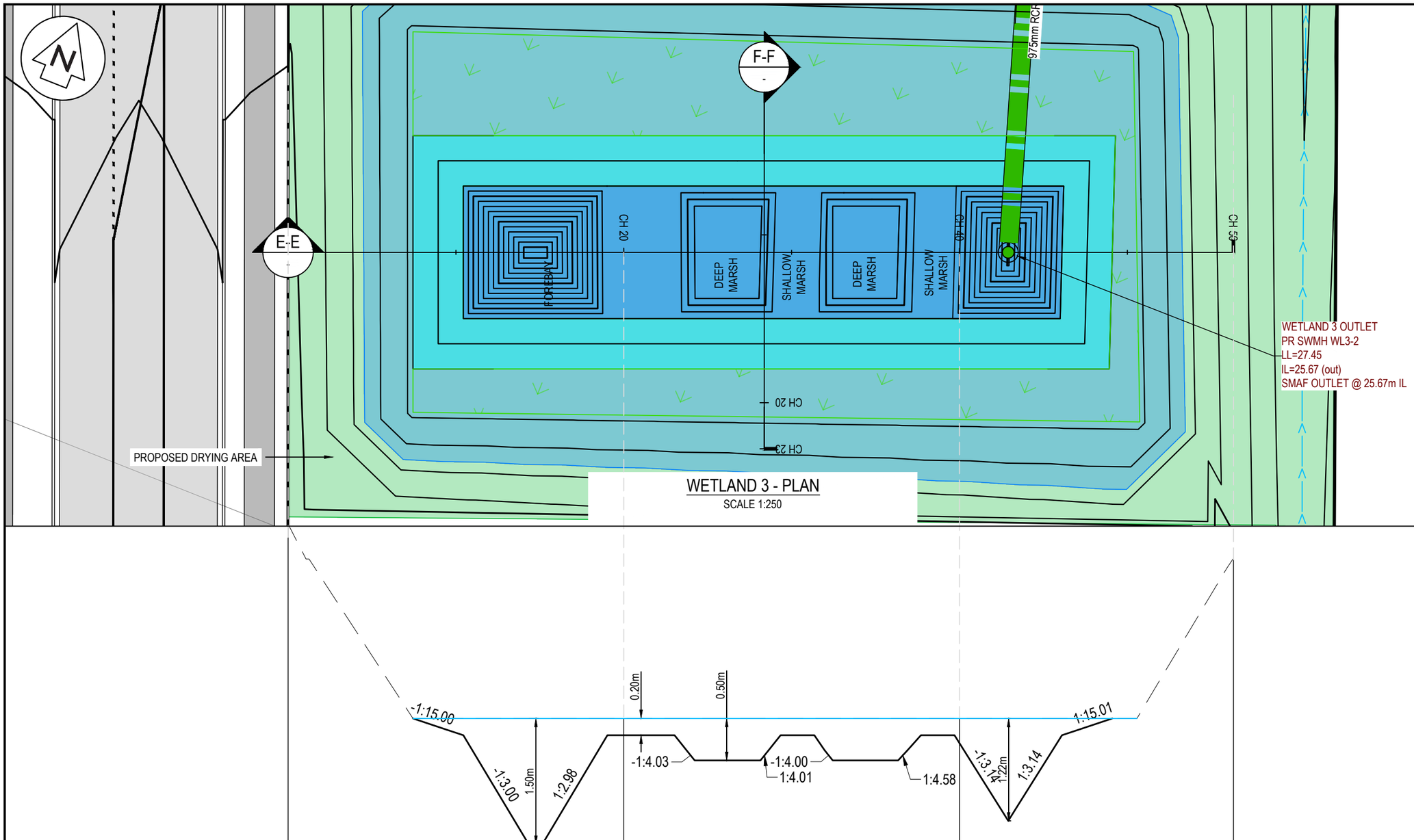
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title

PROPOSED WETLANDS - WETLAND 3 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460-SW WETLANDS.DWG
Drawing no.	M-C4609 Rev A

DATE: 2/025 FILE PATH: F:\MAVEN\PROJECTS\215010_SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG



WETLAND 3 - PLAN
SCALE 1:250

DATUM 22.00m

EXISTING LEVELS	27.70	25.40	25.40	27.29	
DESIGN LEVELS		25.20	25.11		
CUT/FILL		-0.20	-0.29		
CHAINAGE	0.00	20.00	40.00	56.32	

WETLAND 3 E-E
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND
PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

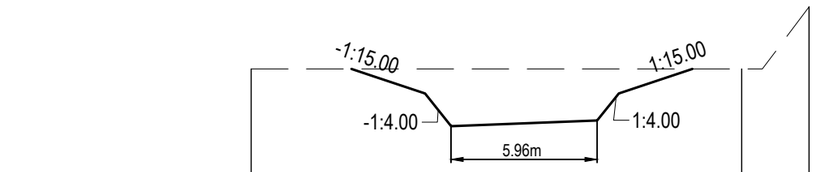
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Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 3 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460-SW WETLANDS.DWG
Drawing no.	M-C4610 Rev A

DATE 2/4/25 FILE PATH P:\MAVEN\PROJECTS\215010 SUNFIELD\DWGS\215010-M-C460-SW WETLANDS.DWG



DATUM 24.00m			
EXISTING LEVELS	25.40	25.40	25.91
DESIGN LEVELS			
CUT/FILL			
CHAINAGE	0.00	20.00	22.74

WETLAND 3 F-F
SCALE: HORI 1:1000 VERT 1:200

NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.

LEGEND
PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

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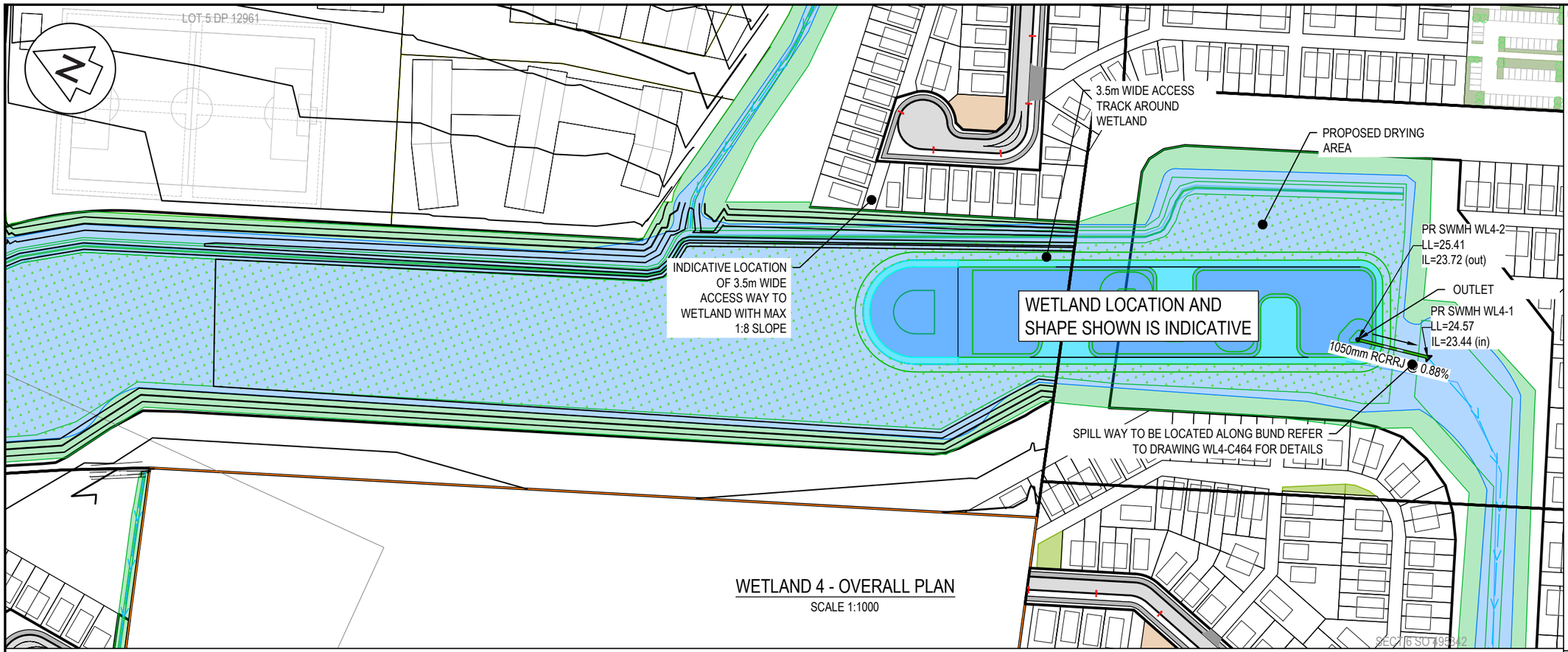
Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 3 CROSS SEC. & OUTLET

Project no.	215010		
Scale	AS SHOWN		
Cad file	215010-M-C460-SW WETLANDS.DWG		
Drawing no.	M-C4611	Rev	A

RESOURCE CONSENT

DATE 2/4/25 FILE PATH: F:\MAVEN\PROJECTS\215010_SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG



WETLAND 4 - OVERALL PLAN

SCALE 1:1000

NOTES

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LEGEND

PR WETLAND FGL

RESOURCE CONSENT

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

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Project

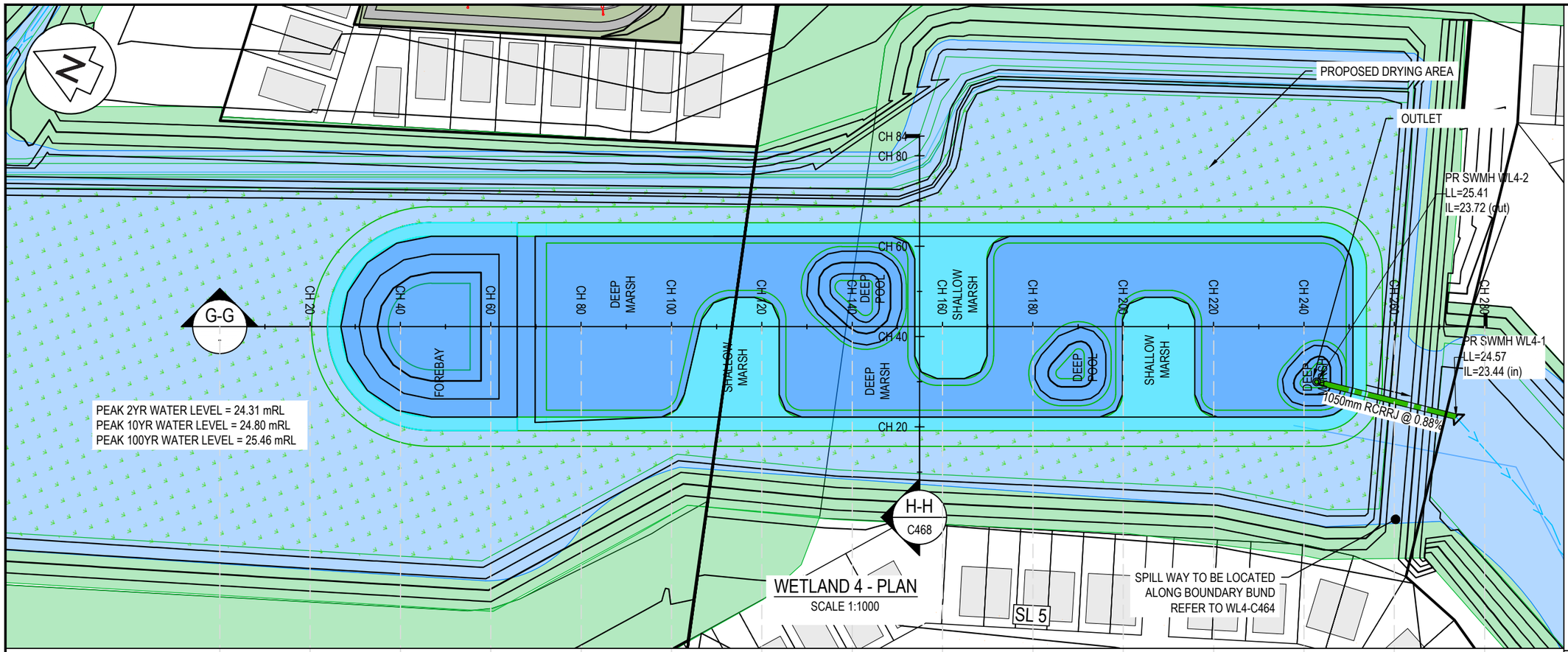
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title

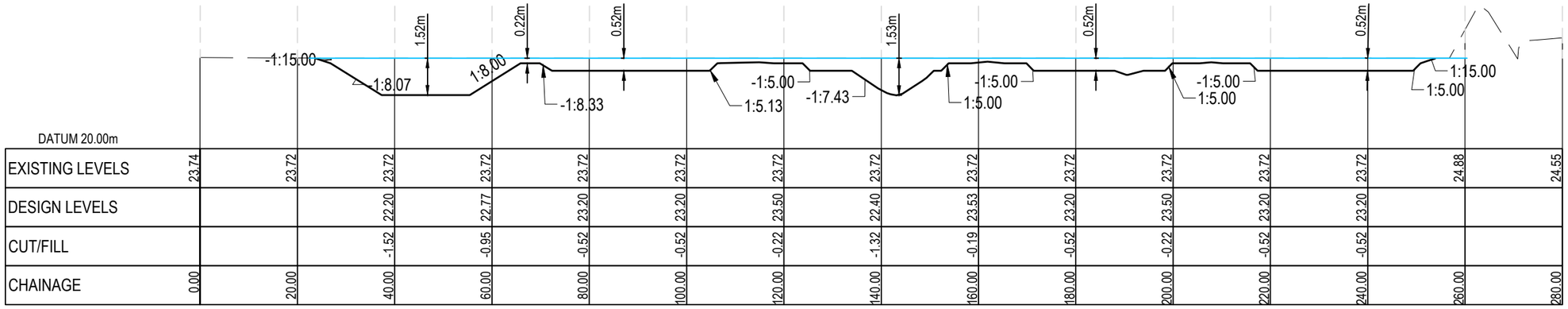
PROPOSED WETLANDS - WETLAND 4 PLAN & LONGSECTION

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C460-SW WETLANDS.DWG
Drawing no.	M-C4612 Rev A

DATE: 2/4/25 FILEPATH: F:\MAVEN\PROJECTS\215010_SUNFIELDS\V2\215010-M-C460-SW WETLANDS.DWG



WETLAND 4 - PLAN
SCALE 1:1000



DATUM 20.00m

EXISTING LEVELS	23.74	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	23.72	24.88	24.55
DESIGN LEVELS			22.20	22.77	23.20	23.20	23.50	22.40	23.53	23.20	23.50	23.20	23.20		
CUT/FILL			-1.52	-0.95	-0.52	-0.52	-0.22	-1.32	-0.19	-0.52	-0.22	-0.52	-0.52		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	100.00	120.00	140.00	160.00	180.00	200.00	220.00	240.00	260.00	280.00

WETLAND 4 G-G
SCALE: HORI 1:1000 VERT 1:200

RESOURCE CONSENT

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LEGEND
PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

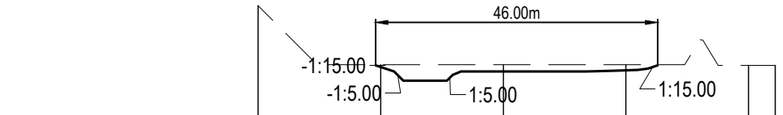
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Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 4 PLAN & LONGSECTION

Project no.	215010		
Scale	AS SHOWN		
Cad file	215010-M-C460_.DWG		
Drawing no.	M-C4613	Rev	A

DATE: 2/7/25 FILE PATH: F:\MAVEN\PROJECTS\215010 SUNFIELD\DWGS\PRODUCTION\MASTER PLANNING\215010-M-C460_.DWG



DATUM 20.00m						
EXISTING LEVELS	25.65	23.72	23.72	23.72	23.70	23.70
DESIGN LEVELS		23.65	23.50	23.54		
CUT/FILL		-0.07	-0.22	-0.18		
CHAINAGE	0.00	20.00	40.00	60.00	80.00	84.36

WETLAND 4 H-H
SCALE: HORI 1:1000 VERT 1:200

NOTES
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LEGEND
PR WETLAND FGL

Rev	Description	By	Date
A	RESOURCE CONSENT	AO	02/2025

	By	Date
Survey	MAVEN	11/2024
Design	AO	12/2024
Drawn	OE	01/2025
Checked	LC	02/2025

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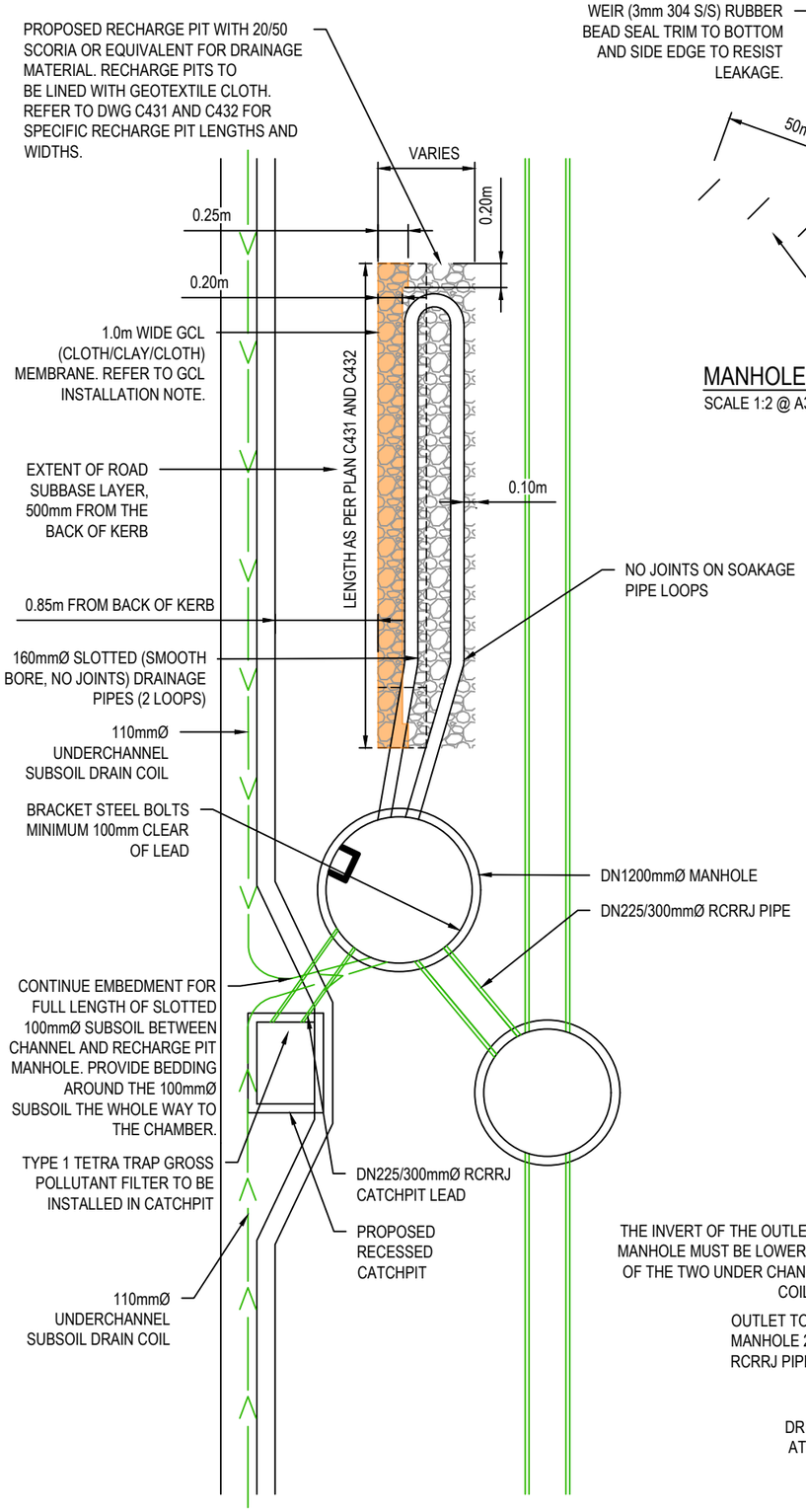
Project
SUNFIELD SUBDIVISION AUCKLAND FOR SUNFIELD DEVELOPMENTS LTD.

Title
PROPOSED WETLANDS - WETLAND 4 CROSS SEC. & OUTLET

Project no.	215010		
Scale	AS SHOWN		
Cad file	215010-M-C460-SW WETLANDS.DWG		
Drawing no.	M-C4614	Rev	A

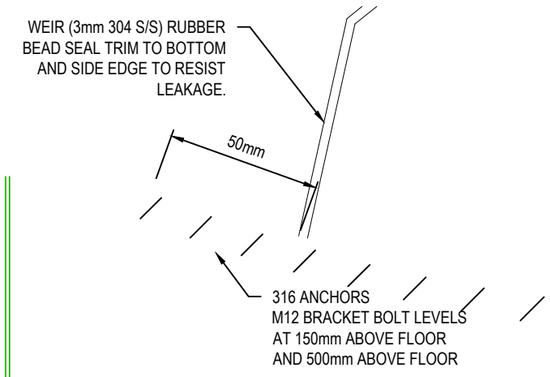
RESOURCE CONSENT

DATE: 2/4/25 FILEPATH: F:\MAVEN\PROJECTS\215010 SUNFIELD\DWG\215010-M-C460-SW WETLANDS.DWG



PROPOSED RECHARGE PIT DETAILS

SCALE 1:50 @ A3



MANHOLE WEIR AND BRACKET DETAIL

SCALE 1:2 @ A3

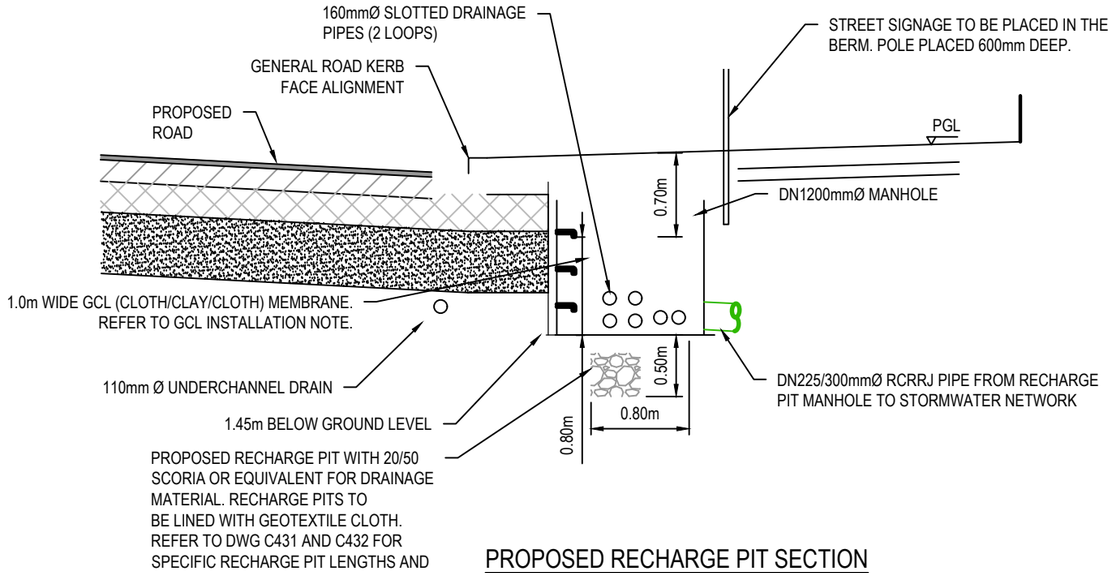
GCL INSTALLATION:

1.0m WIDE GCL (CLOTH/CLAY/CLOTH) MEMBRANE AS STRIP TO PREVENT HIGH FLOW RATES FROM RECHARGE PIT TO ROAD SUBBASE.

INSTALL GCL MEMBRANE BEFORE PLACING THE SCORIA'S BIDIM WRAP.

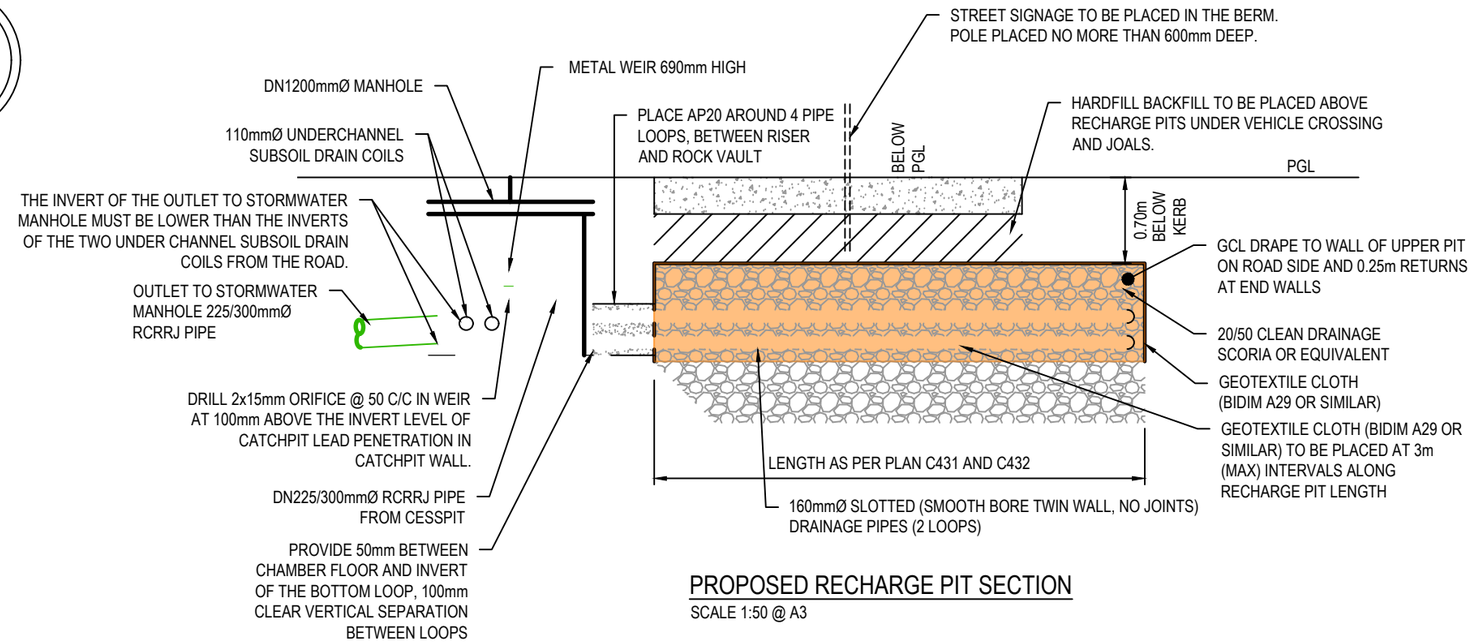
LAY 0.8m HIGH VERTICAL GCL WALL AGAINST SOIL FACE ALONG FULL PIT LENGTH ON THE ROAD SIDE OF UPPER PIT AND RETURN A MINIMUM OF 0.25m AROUND END WALLS OF UPPER PIT. BOTTOM EDGE OF GCL TO FINISH LEVEL WITH THE FLOOR OF THE UPPER PIT. ONCE THE ROCK FILL IS COMPLETED AND THE SCORIA'S BIDIM WRAP HAS BEEN LAID BACK DOWN OVER THE TOP OF THE ROCK, RETURN THE EXCESS GCL (0.20m) ACROSS THE TOP BIDIM LAYER.

INSTALL THE GCL SLIGHTLY LOOSE TO ENCOURAGE CONFORMING TO SOIL SURFACE.



PROPOSED RECHARGE PIT SECTION

SCALE 1:50 @ A3



PROPOSED RECHARGE PIT SECTION

SCALE 1:50 @ A3

RESOURCE CONSENT

NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING,10 - 20% WEAK CONCRETE BEDDING.GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6m CRS).
5. EACH CONNECTION SHALL BE MARKED BY A 50mmX50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
8. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

Rev	Description	By	Date
A	RESOURCE CONSENT	RK	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	YW	11/2024
Checked	JP/LC	02/2025

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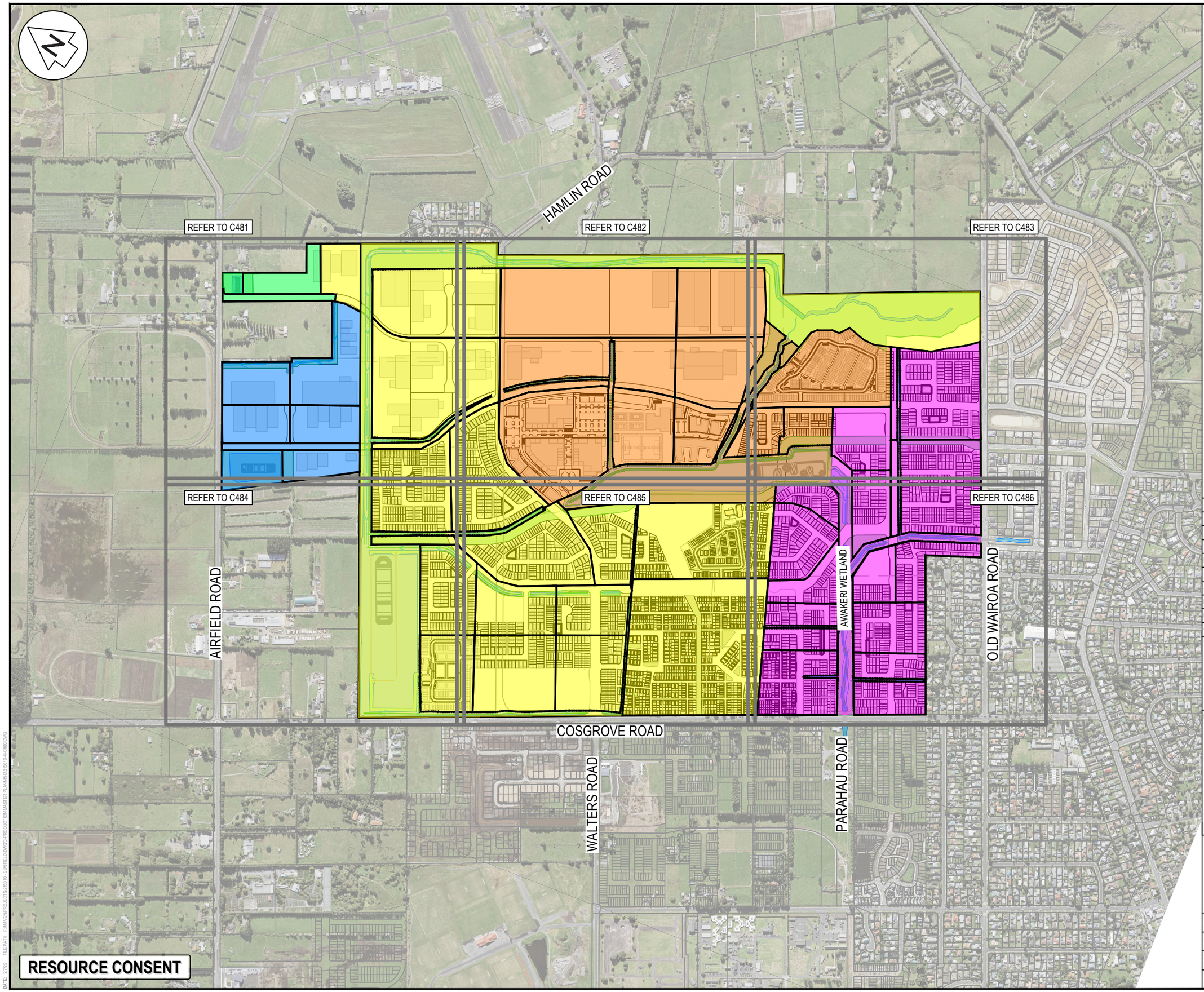
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

Title

PROPOSED PUBLIC ROAD STORMWATER RECHARGE PIT DETAIL

Project no.	215010
Scale	AS SHOWN
Cad file	215010-M-C470.DWG
Drawing no.	M-C470 Rev A

DATE: 2/7/25 FILEPATH: P:\MAVEN\PROJECTS\215010_SUNFIELD\DWG\3-PRODUCTION\MASTERPLANNING\215010-M-C470.DWG



NOTES

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3. PLEASE REFER TO MAVEN ASSOCIATES FLOOD MODELING REPORT REV G FOR FLOOD MODELLING OF CATCHMENTS
4. CATCHMENT AREAS SHOWN DO NOT INCLUDE SWALE AND POND AREAS

LEGEND

- EX BDY
- PR BDY
- CATCHMENT BDY
- C-39 CATCHMENT NUMBER
- SW POND 1 CATCHMENT
- SW POND 2 CATCHMENT
- SW POND 3 CATCHMENT
- SW POND 4 CATCHMENT
- DIRECTLY TO AWAKERI WETLAND

Rev	Description	By	Date
A	RESOURCE CONSENT	YW	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	SP	11/2024
Checked	LC	02/2025

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Project

SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

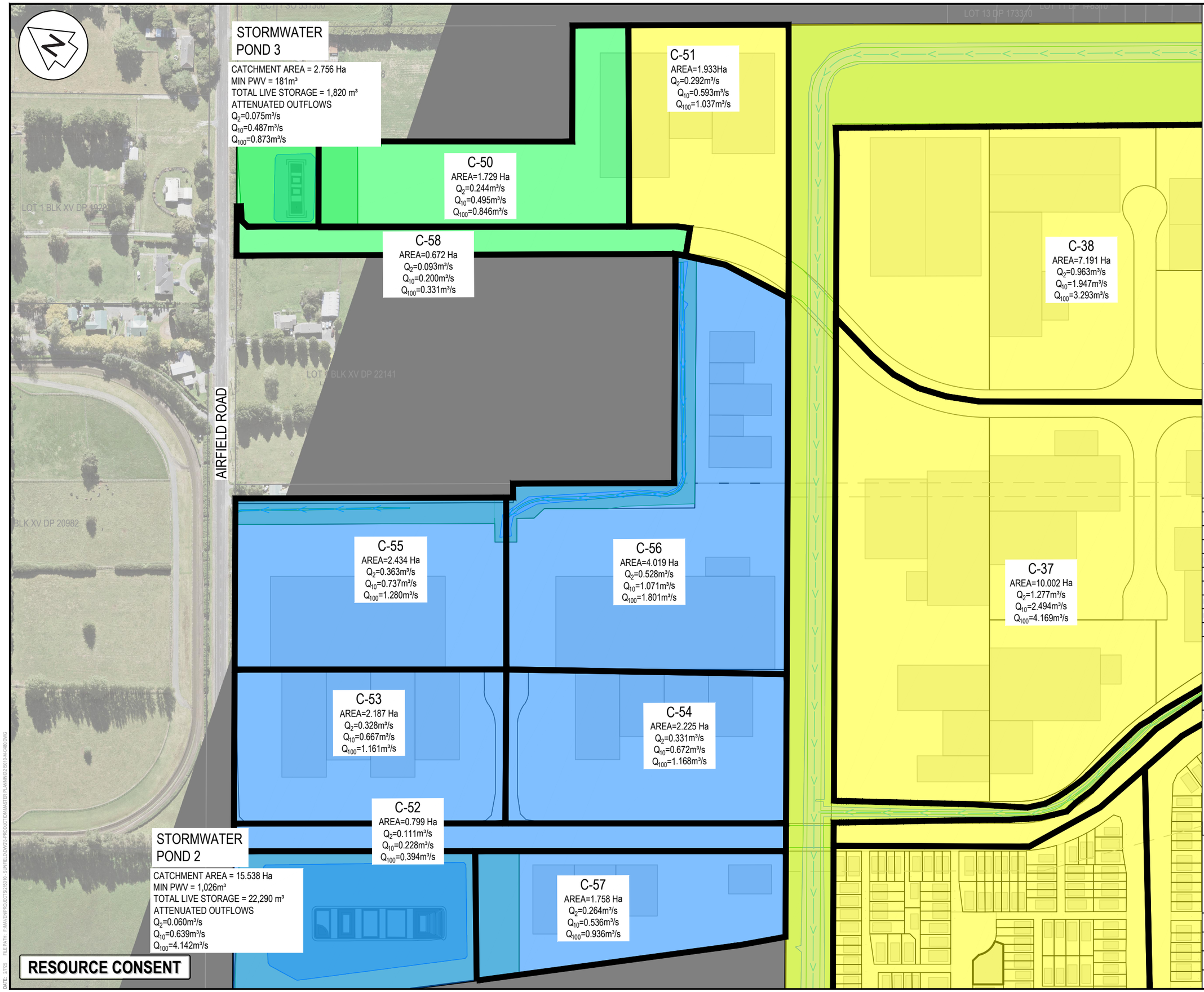
Title

PROPOSED OVERVIEW STORMWATER CATCHMENT PLAN

Project no.	215010
Scale	1:10000 @ A3
Cad file	215010-M-C480.DWG
Drawing no.	M-C480 Rev A

RESOURCE CONSENT

DATE: 2/7/25 FILE PATH: F:\MAVEN\PROJECTS\215010_SUNFIELD\DWGS\PRODUCTION\MASTER PLAN\M-C480.DWG



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- EX BDY
- PR BDY
- CATCHMENT BDY
- C-39 CATCHMENT NUMBER
- SW POND 1 CATCHMENT
- SW POND 2 CATCHMENT
- SW POND 3 CATCHMENT
- SW POND 4 CATCHMENT
- DIRECTLY TO AWAKERI WETLAND

Rev	Description	By	Date
A	RESOURCE CONSENT	YW	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	SP	11/2024
Checked	LC	02/2025

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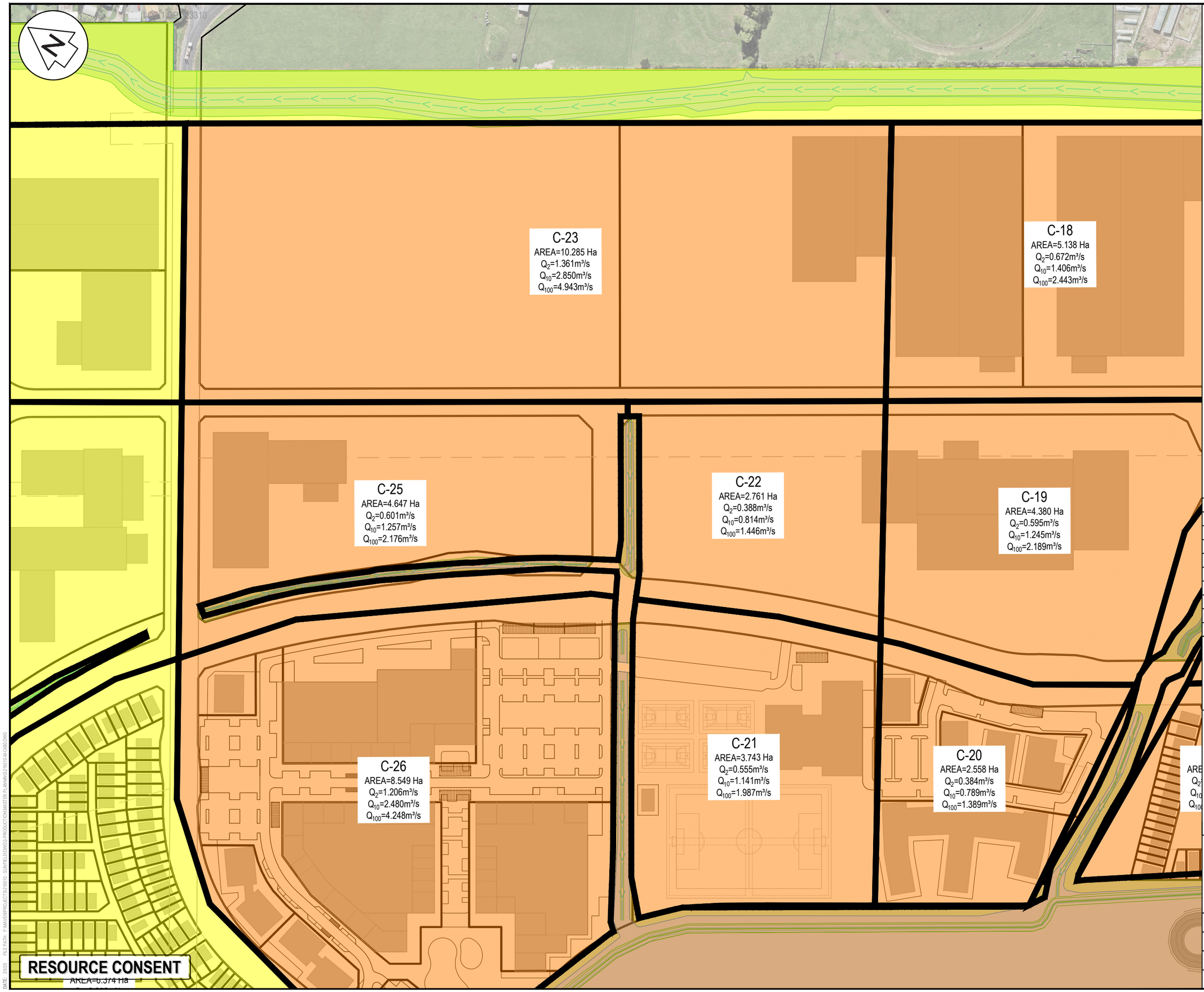
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

Title

PROPOSED STORMWATER CATCHMENT PLAN: SHEET 1

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C480.DWG		
Drawing no.	M-C481	Rev	A

DATE: 2/25 FILE PATH: P:\MAVEN\PROJECTS\215010_SUNFIELD\CWO3-PRODUCTION\MASTER PLANNING\215010-M-C480.DWG



NOTES

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LEGEND

- EX BDY
- PR BDY
- CATCHMENT BDY
- C-39 CATCHMENT NUMBER
- SW POND 1 CATCHMENT
- SW POND 2 CATCHMENT
- SW POND 3 CATCHMENT
- SW POND 4 CATCHMENT
- DIRECTLY TO AWAKERI WETLAND

Rev	Description	By	Date
A	RESOURCE CONSENT	YW	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	SP	11/2024
Checked	LC	02/2025

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Project

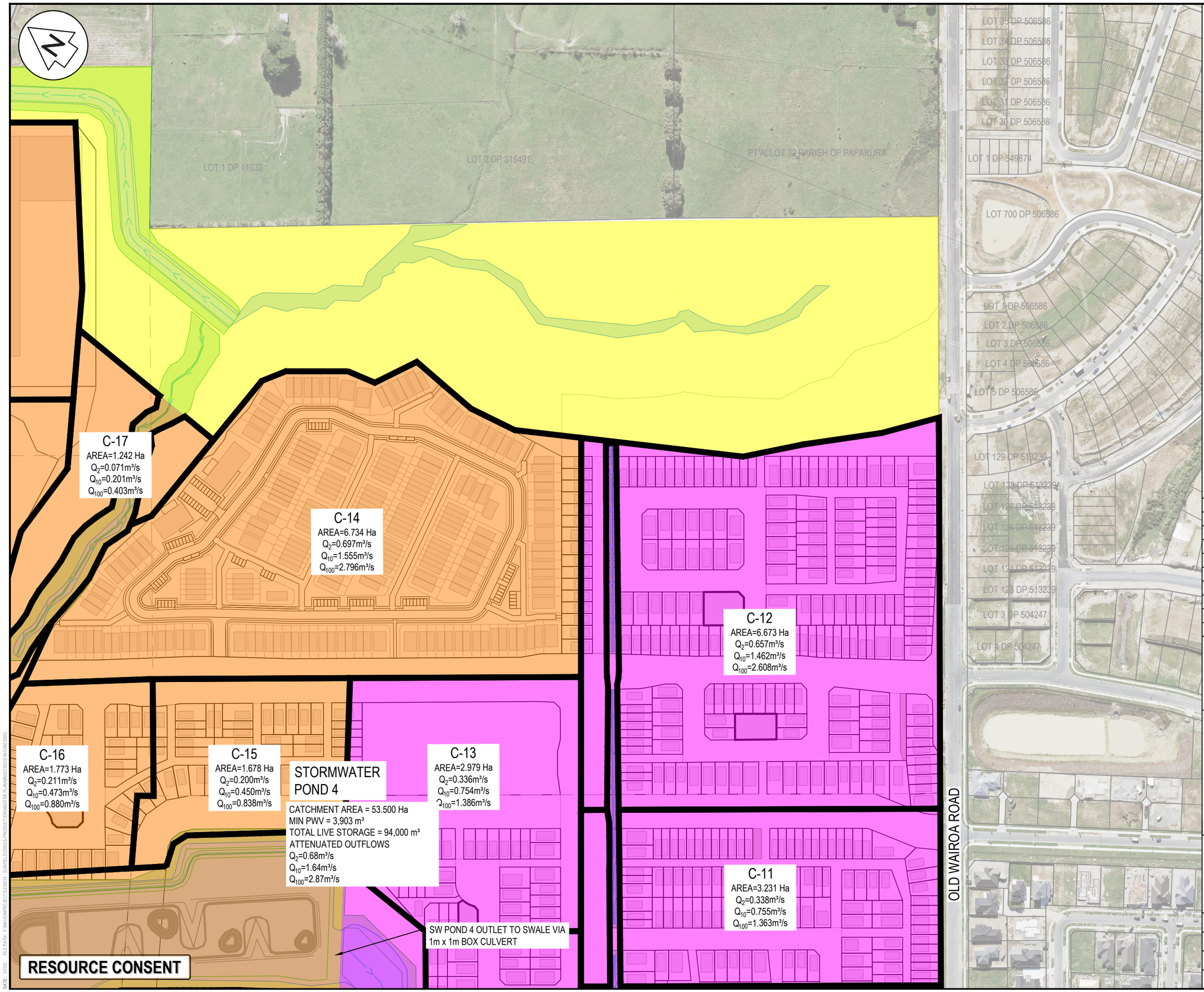
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

Title

PROPOSED STORMWATER CATCHMENT PLAN: SHEET 2

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C480.DWG		
Drawing no.	M-C482	Rev	A

DATE: 26/05 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWGS\PRODUCT\MASTERPLAN\M02\215010-M-C480.DWG



NOTES

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4. CATCHMENT AREAS SHOWN DO NOT INCLUDE SWALE AND POND AREAS

LEGEND

- EX BDY
- PR BDY
- CATCHMENT BDY
- C-39 CATCHMENT NUMBER
- SW POND 1 CATCHMENT
- SW POND 2 CATCHMENT
- SW POND 3 CATCHMENT
- SW POND 4 CATCHMENT
- DIRECTLY TO AWAKERI WETLAND

Rev	Description	By	Date
A	RESOURCE CONSENT	YW	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	SP	11/2024
Checked	LC	02/2025

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Project

SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

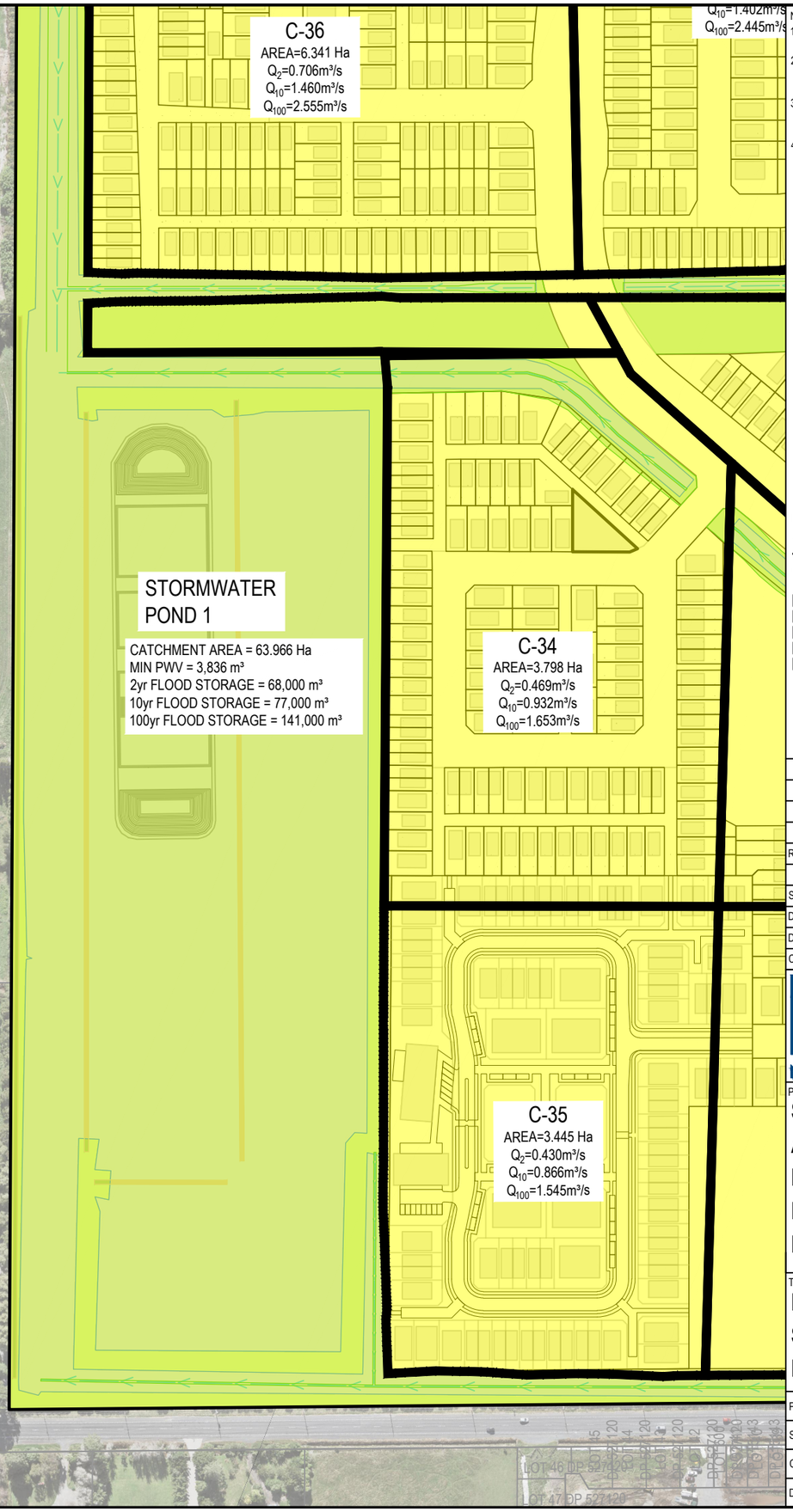
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PROPOSED STORMWATER CATCHMENT PLAN: SHEET 3

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C480.DWG
Drawing no.	M-C483 Rev A

DATE: 2/7/25 FILE PATH: F:\MAVEN\PROJECTS\215010_SUNFIELD\DWGS\PRODUCT\MASTER PLAN\M\215010-M-C480.DWG





NOTES
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LEGEND
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- PR BDY
- CATCHMENT BDY
- C-39 CATCHMENT NUMBER
- SW POND 1 CATCHMENT
- SW POND 2 CATCHMENT
- SW POND 3 CATCHMENT
- SW POND 4 CATCHMENT
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Rev	Description	By	Date
A	RESOURCE CONSENT	YW	02/2025

	By	Date
Survey	SURVEYWORX	02/2021
Design	YW	11/2024
Drawn	SP	11/2024
Checked	LC	02/2025

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Project
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED

Title
PROPOSED STORMWATER CATCHMENT PLAN: SHEET 4

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C480.DWG		
Drawing no.	M-C484	Rev	A

RESOURCE CONSENT

DATE: 2/05/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWGS\PRODUCTION\MASTERPLAN\M-C484.DWG