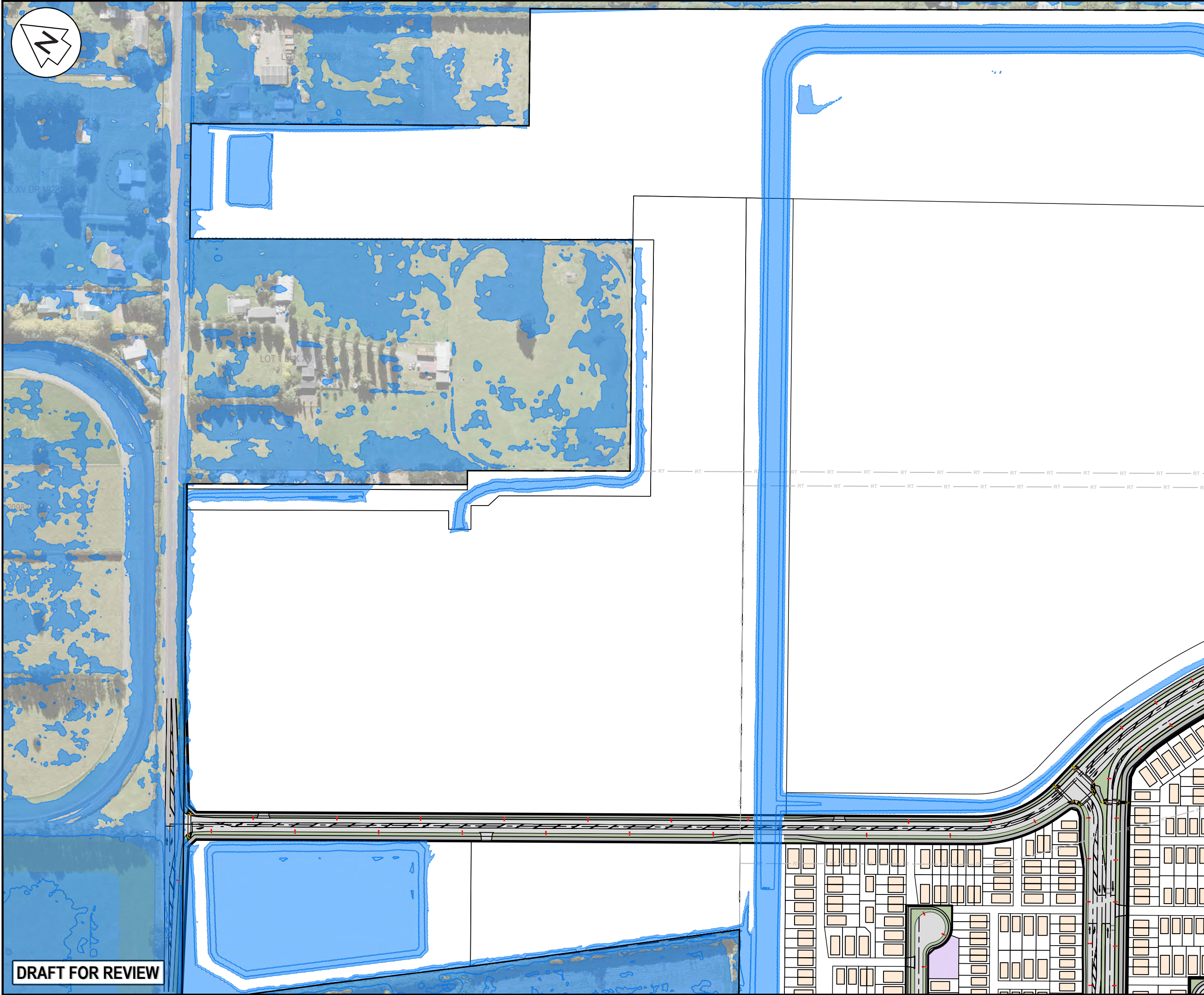




- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM (NZVD) 2016.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 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
---	SITE BDY
---	1% AEP FLOOD PLAIN
---	EX FIRST GAS EASEMENT

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	



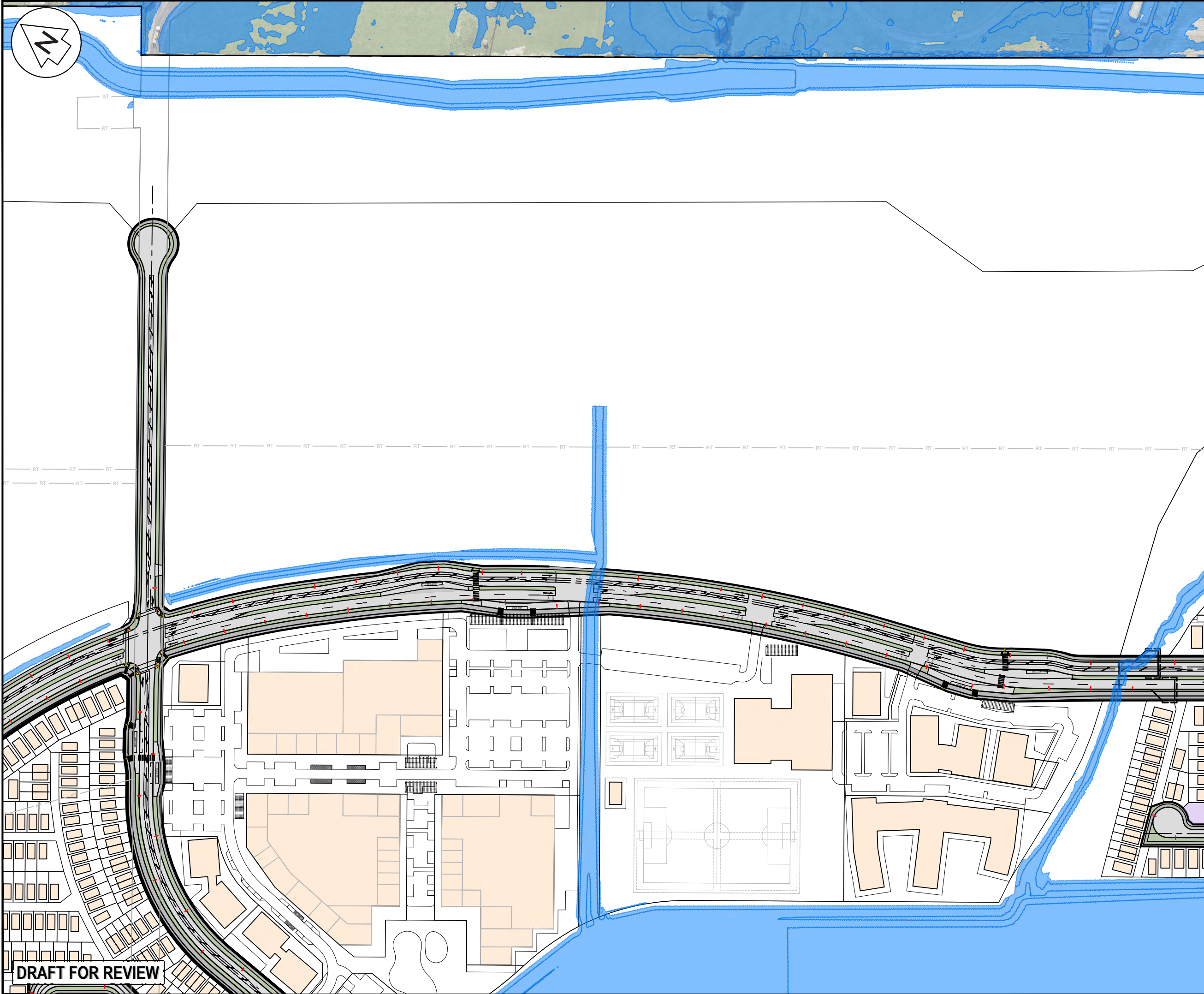
Maven Associates
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info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED STORMWATER
FLOODING PRE & POST
PLAN: SHEET 1**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C491.DWG
Drawing no.	M-C491(SS)
Rev	A

DRAFT FOR REVIEW



- 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 (NZVD) 2016.
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LEGEND

---	EX BDY
---	SITE BDY
---	1% AEP FLOOD PLAIN
---	EX FIRST GAS EASEMENT

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	



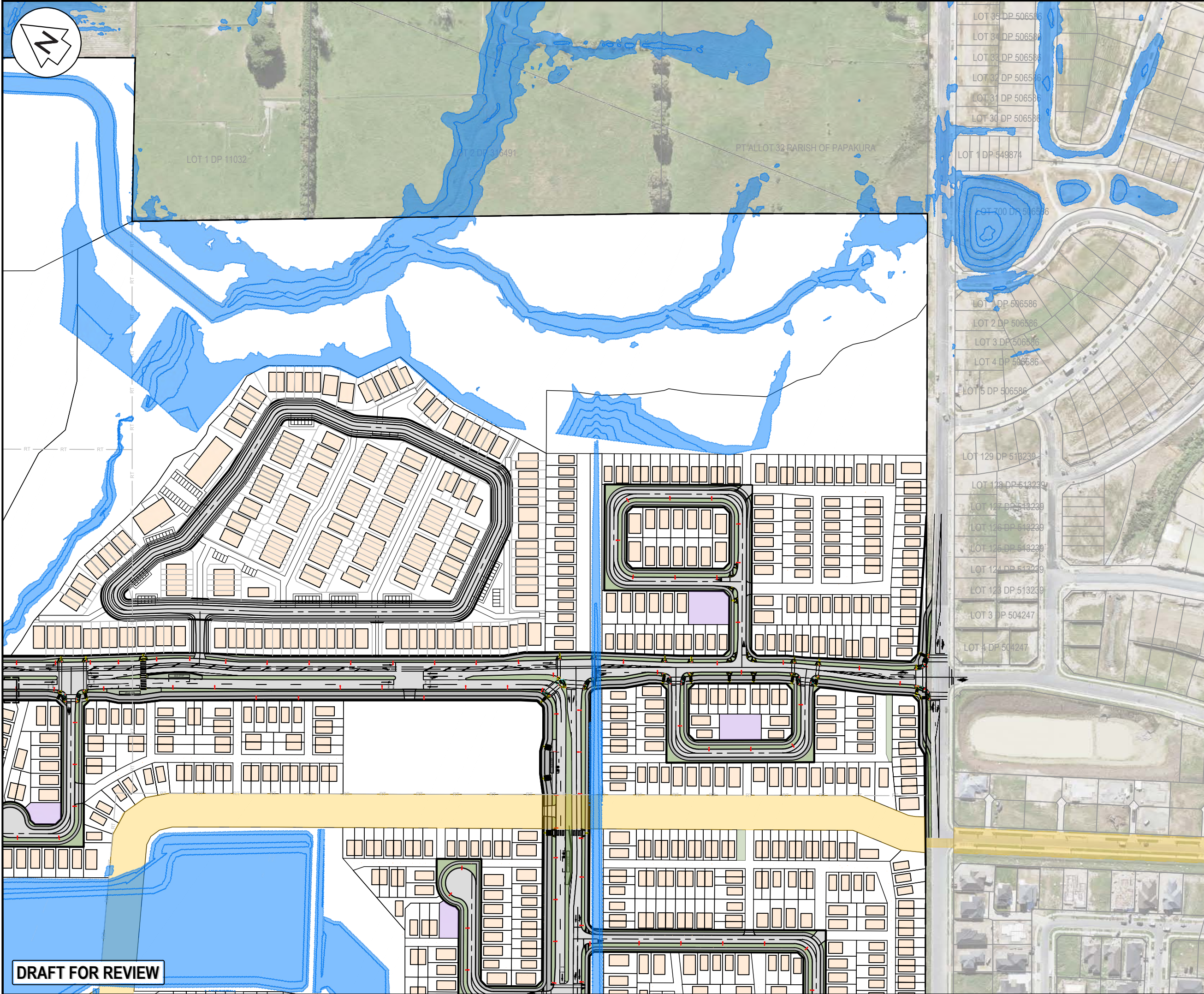
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Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED STORMWATER
FLOODING PRE & POST
PLAN: SHEET 2**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C491.DWG		
Drawing no.	M-C492	Rev	A

DATE: 8/1/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C491.DWG



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

- EX BDY
- SITE BDY
- 1% AEP FLOOD PLAIN
- EX FIRST GAS EASEMENT

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	

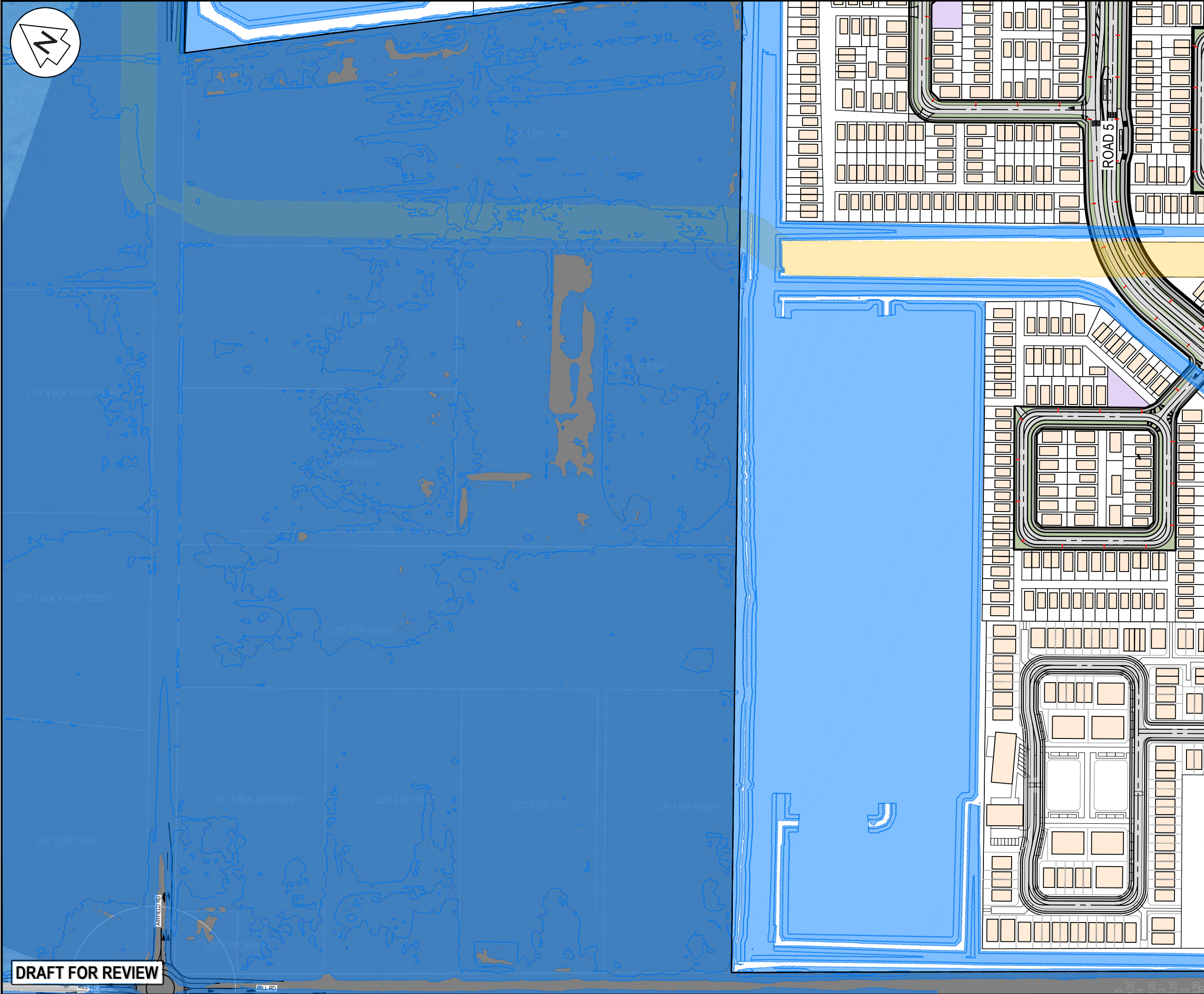
M Maven Associates
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5 Owens Road, Epsom
Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED STORMWATER
FLOODING PRE & POST
PLAN: SHEET 3**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C491.DWG		
Drawing no.	M-C493	Rev	A

DRAFT FOR REVIEW



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 (NZVD) 2016.

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11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

EX BDY

SITE BDY

1% AEP FLOOD PLAIN

EX FIRST GAS EASEMENT

A	DRAFT	SP	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	YW		11/2024
Drawn	OQ		11/2024
Checked	JP/LC		02/2025

M

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Project

SUNFIELD DEVELOPMENT

ARDMORE, AUCKLAND

MASTERPLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

Title

PROPOSED STORMWATER

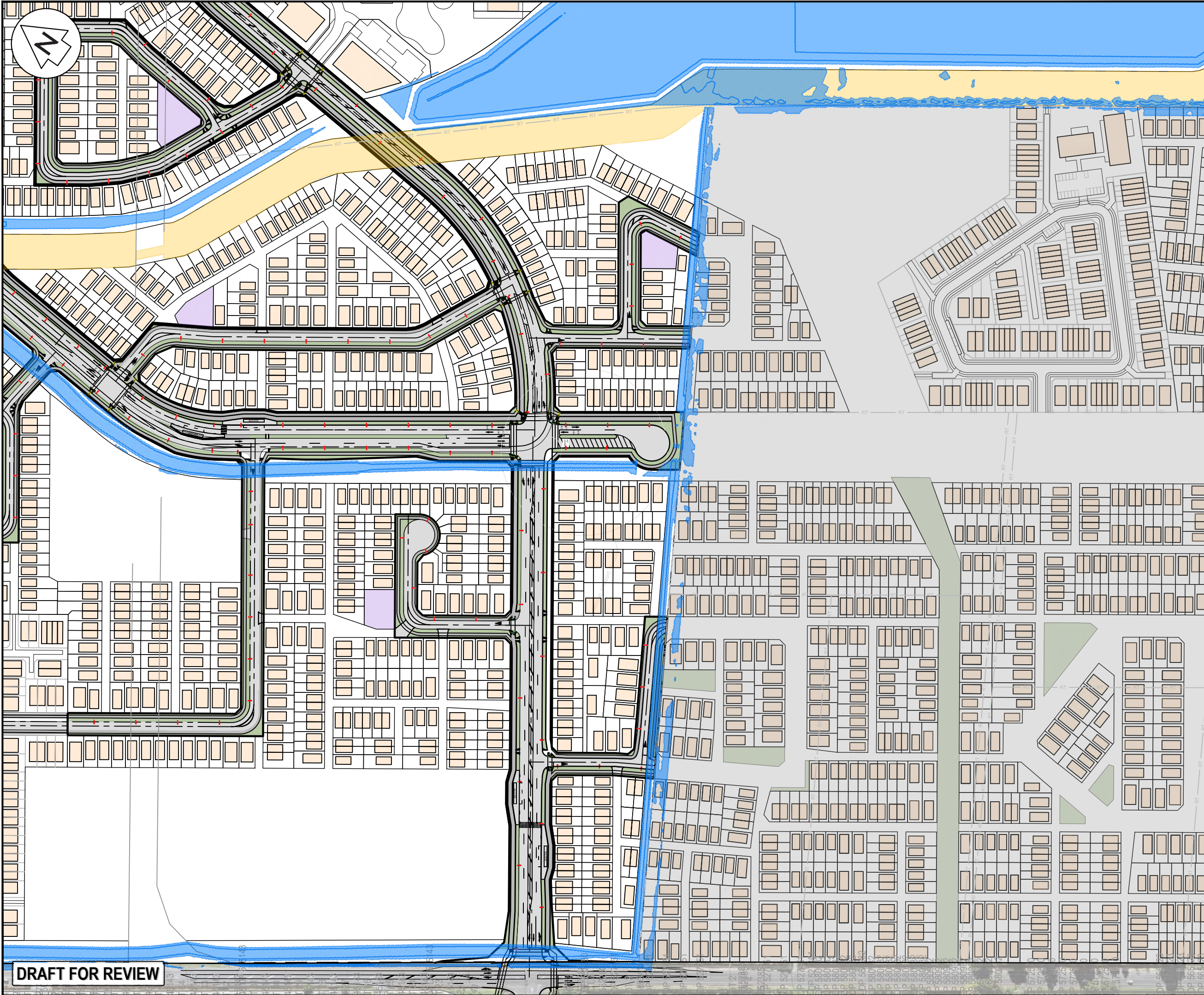
FLOODING PRE & POST

PLAN: SHEET 4

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C491.DWG
Drawing no.	M-C494
Rev	A

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C491.DWG

DRAFT FOR REVIEW



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND

- EX BDY
- SITE BDY
- 1% AEP FLOOD PLAIN
- EX FIRST GAS EASEMENT

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	

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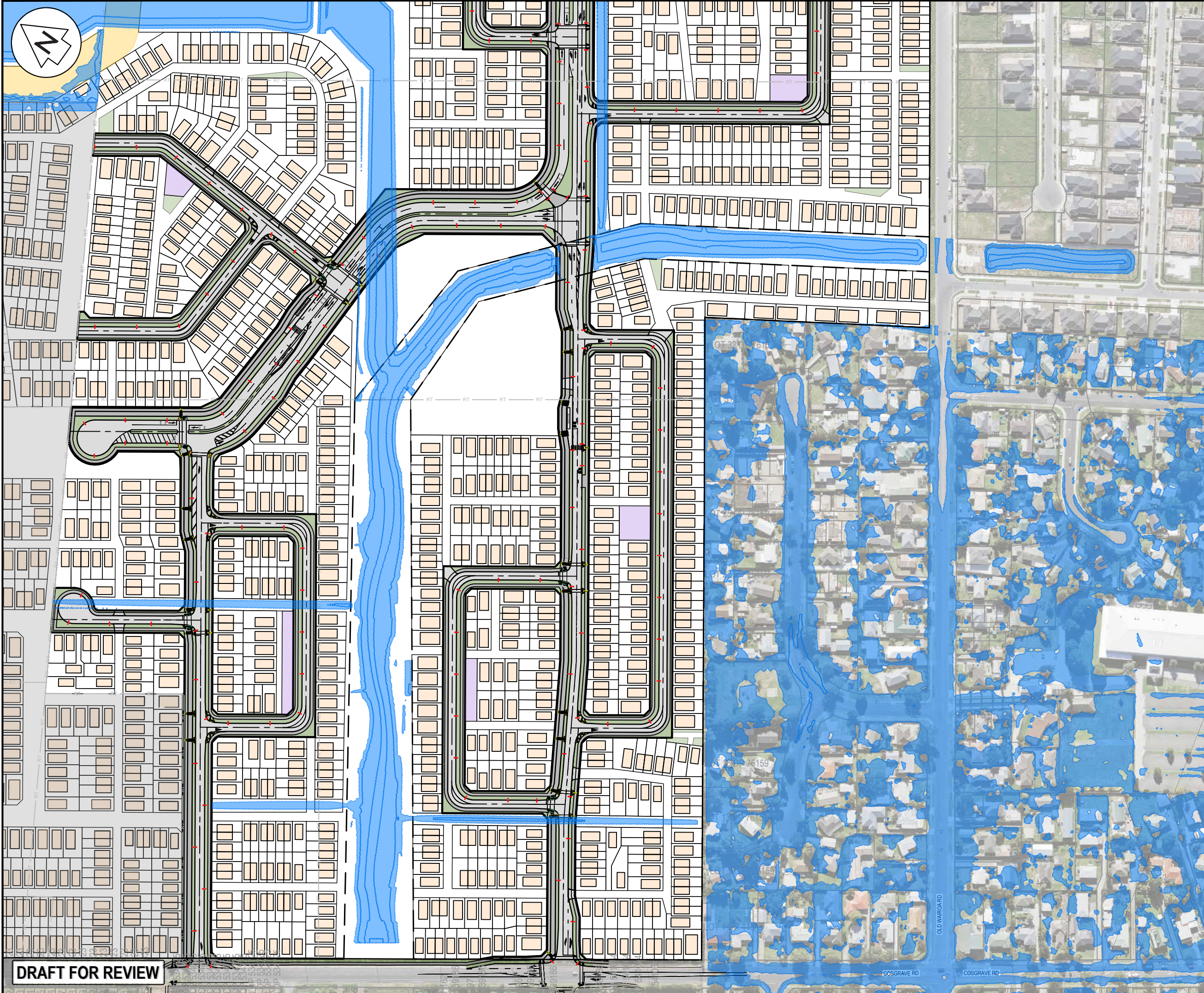
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED STORMWATER
FLOODING PRE & POST
PLAN: SHEET 5**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C491.DWG
Drawing no.	M-C495
Rev	A

DRAFT FOR REVIEW

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C491.DWG



NOTES

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

- EX BDY
- SITE BDY
- 1% AEP FLOOD PLAIN
- EX FIRST GAS EASEMENT

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	



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Project

**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

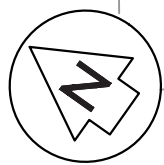
Title

**PROPOSED STORMWATER
FLOODING PRE & POST
PLAN: SHEET 6**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C491.DWG		
Drawing no.	M-C496	Rev	A

DRAFT FOR REVIEW

DATE: 8/10/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCT\MASTER PLAN\215010-M-C491.DWG



- LEGEND
- EXISTING BDY
 - PROPOSED BDY
 - EX WASTEWATER
 - PR WASTEWATER PRIV
 - PR WASTEWATER
 - PR WASTEWATER GRAVITY
 - EX/PR WWMH
 - PR WASTEWATER BULK MAIN LPS
 - PR BDY KIT - SINGLE
 - PR BDY KIT - DOUBLE
 - EX FIRSTGAS EASEMENT

- WASTEWATER NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM (NZVD) 2016.
 3. ALL PRIVATE DRAINAGE WORKS TO COMPLY WITH THE NEW ZEALAND BUILDING CODE.
 4. ALL DRAINAGE WORKS SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A REGISTERED DRAIN LAYER AND IN ACCORDANCE WITH CURRENT HEALTH AND SAFETY PRACTICES. WHERE REQUIRED, DRAINAGE WORKS ARE TO BE UNDERTAKEN BY AN APPROVED LICENSED CONTRACTOR (A.L.C.).
 5. ALL ORDINARY TRENCH BACKFILL SHALL COMPRISE SUITABLE EARTHFILL FREE OF TOPSOIL/ORGANICS AND SHALL BE WELL COMPACTED IN LAYERS NOT EXCEEDING 200mm TO ACHIEVE MINIMUM SHEAR STRENGTHS OF 100 kPa / MAX. 10% AIR Voids OR AS PER THE EARTHWORKS SPECIFICATION.
 6. ALL PIPE CROSSINGS UNDER CARRIAGEWAYS/ TRAFFIC AREAS TO BE HARDFILL BACKFILLED WITH APPROVED GAP65 TO 1.0m BEYOND EXTENT CARRIAGEWAY. TRENCH HARDFILL BACKFILL TO BE WELL COMPACTED TO ACHIEVE MIN. CLEGG HAMMER CIV = 25.
 7. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NZVD 2016
 8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	RK	01/2025	
Checked	JP/LC	02/2025	



Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED OVERVIEW
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:10000 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C500
Rev	A

RESOURCE CONSENT

92819

LK XV DP 192819

20982

AIRFIELD RD

LOT 1 DP 47508

LOT 1 BLK XV DP 22141

- LEGEND
- EXISTING BDY
 - PROPOSED BDY
 - EX WASTEWATER
 - PR WASTEWATER PRIV
 - PR WASTEWATER
 - PR WASTEWATER GRAVITY
 - EX/PR WWMH
 - PR WASTEWATER BULK MAIN LPS
 - PR BDY KIT - SINGLE
 - PR BDY KIT - DOUBLE
 - EX FIRSTGAS EASEMENT

- WASTEWATER NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	RK	01/2025	
Checked	JP/LC	02/2025	

M

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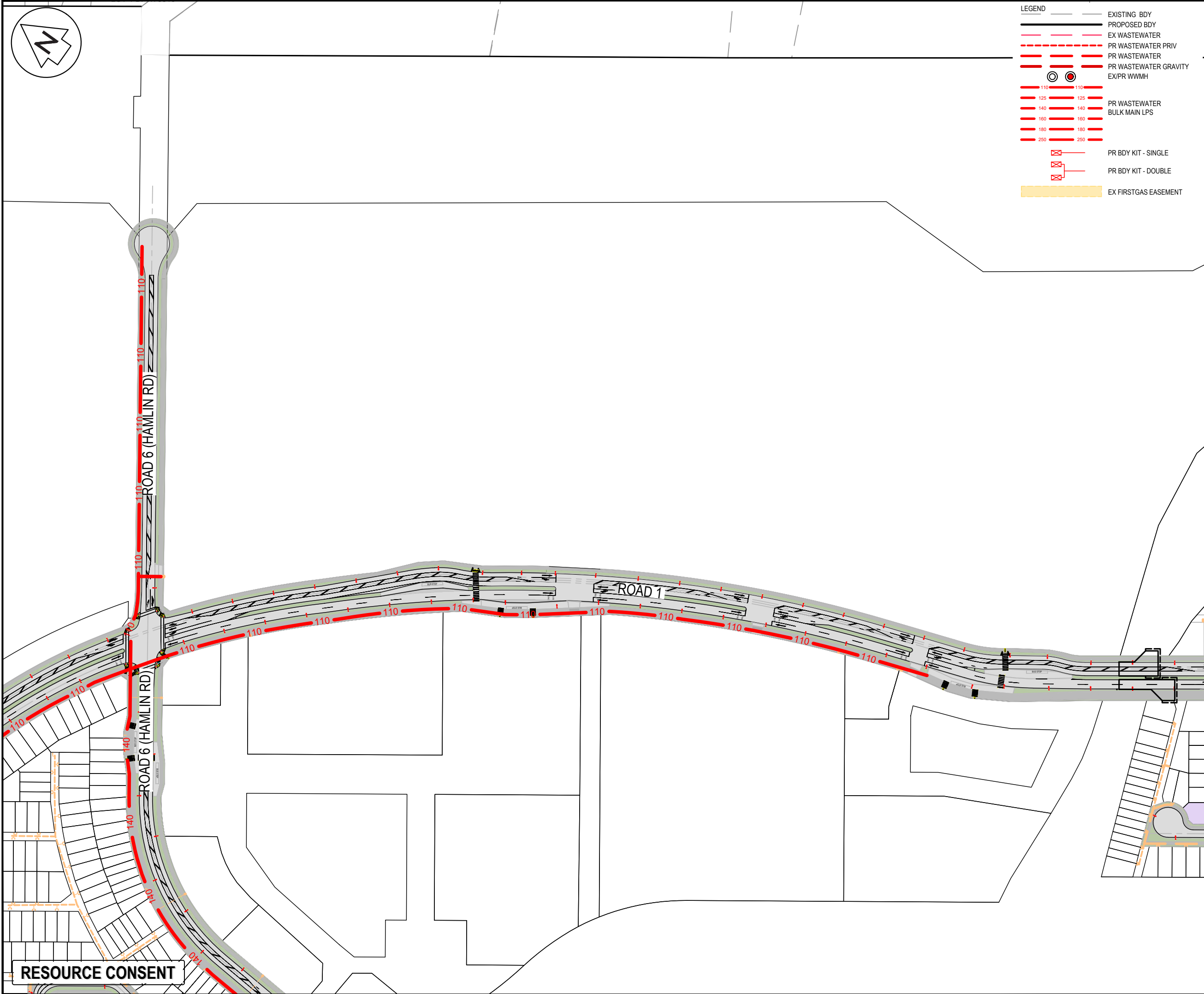
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Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C501
Rev	A

RESOURCE CONSENT



LEGEND

	EXISTING BDY
	PROPOSED BDY
	EX WASTEWATER
	PR WASTEWATER PRIV
	PR WASTEWATER
	PR WASTEWATER GRAVITY
	EX/PR WWMH
	110
	125
	140
	160
	180
	250
	PR BDY KIT - SINGLE
	PR BDY KIT - DOUBLE
	EX FIRSTGAS EASEMENT

- WASTEWATER NOTES**
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 7. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NZVD 2016
 8. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 9. 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).
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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	RK	01/2025	
Checked	JP/LC	02/2025	

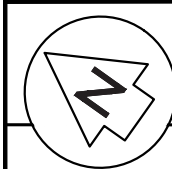


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Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C500.DWG		
Drawing no.	M-C502	Rev	A



LOT 1 DP 11032

LOT 2 DP 316491

PT ALLOT 32 PARISH OF PAKAKURA

LEGEND

- EXISTING BDY
- PROPOSED BDY
- EX WASTEWATER
- PR WASTEWATER PRIV
- PR WASTEWATER
- PR WASTEWATER GRAVITY
- EX/PR WWMH
- PR WASTEWATER BULK MAIN LPS
- PR BDY KIT - SINGLE
- PR BDY KIT - DOUBLE
- EX FIRSTGAS EASEMENT

- WASTEWATER NOTES
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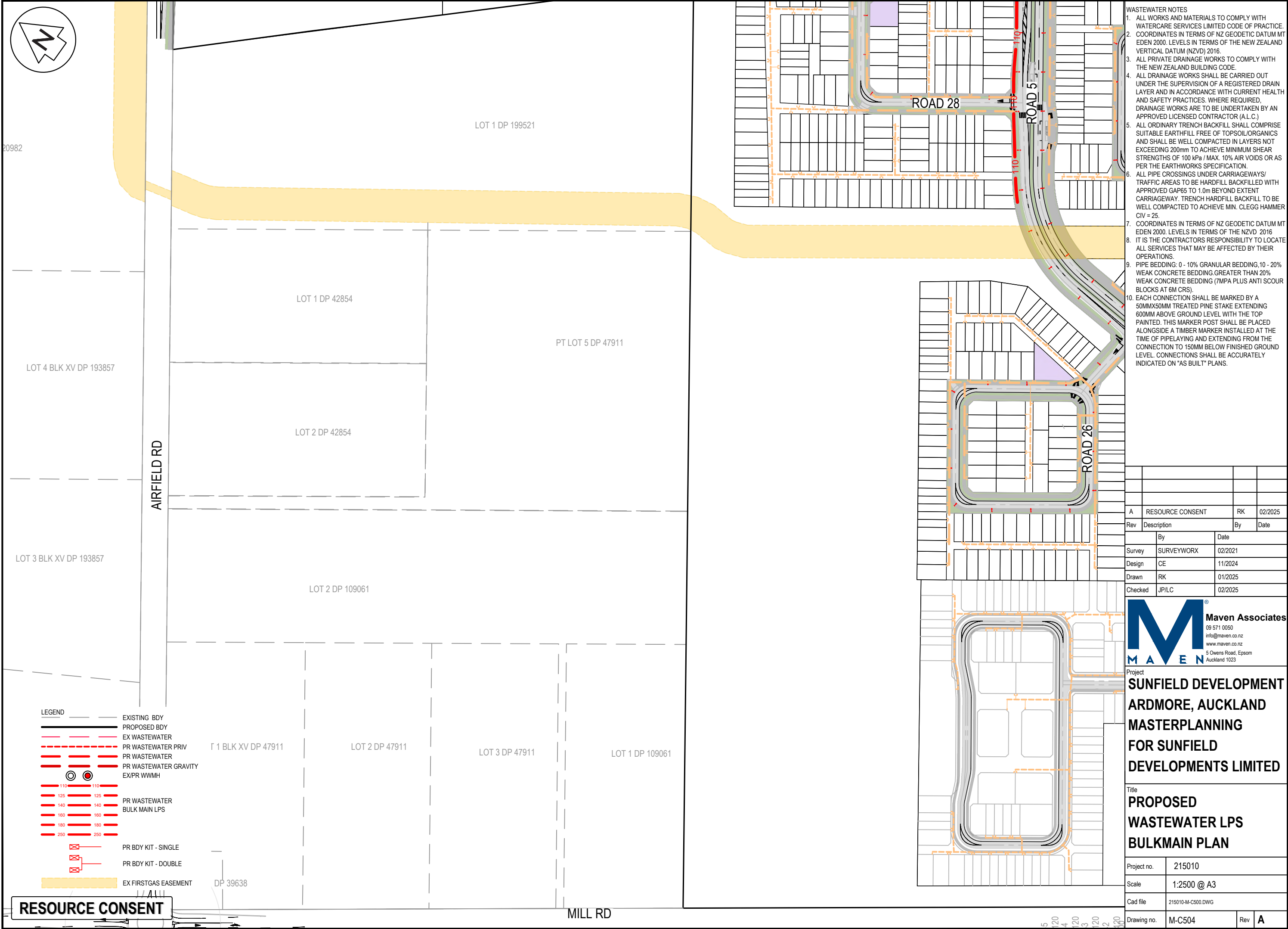
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C503
Rev	A

RESOURCE CONSENT

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C500.DWG



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Drawn	RK		01/2025
Checked	JP/LC		02/2025



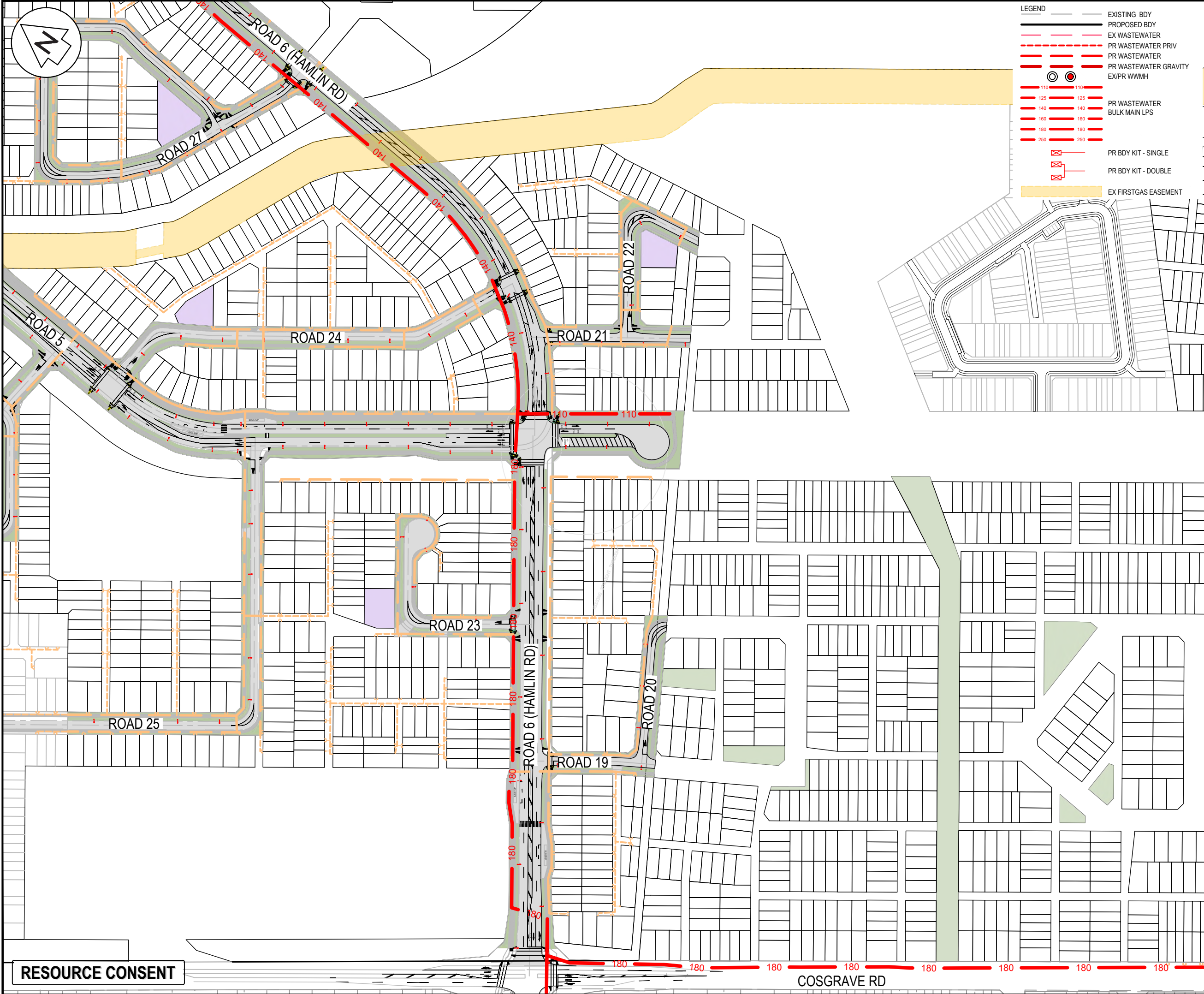
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C504
Rev	A

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C500.DWG



LEGEND

- EXISTING BDY
- PROPOSED BDY
- EX WASTEWATER
- PR WASTEWATER PRIV
- PR WASTEWATER
- PR WASTEWATER GRAVITY
- EX/PR WWMH
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- PR BDY KIT - SINGLE
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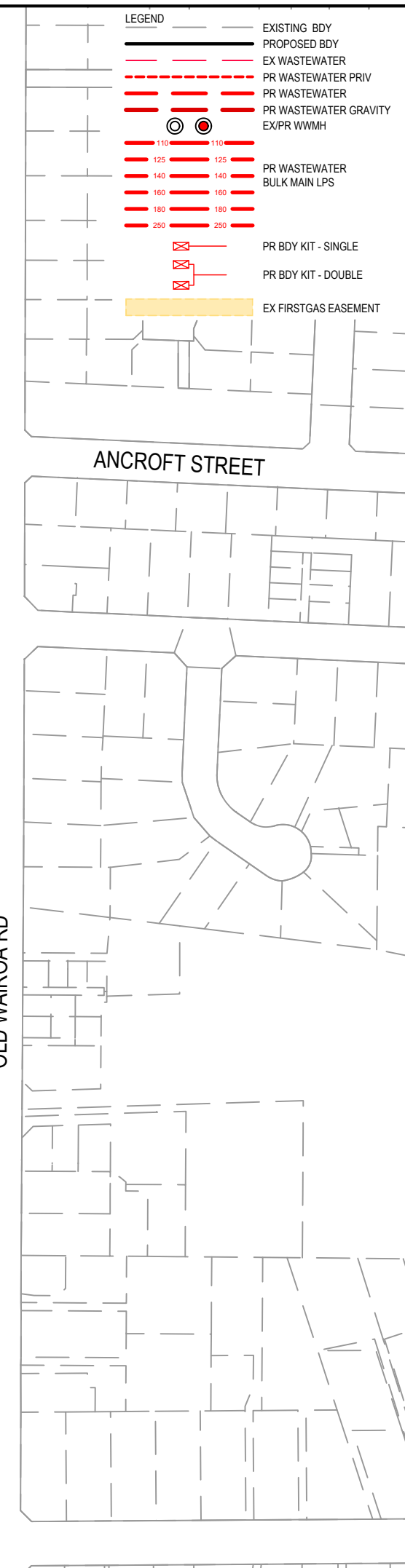
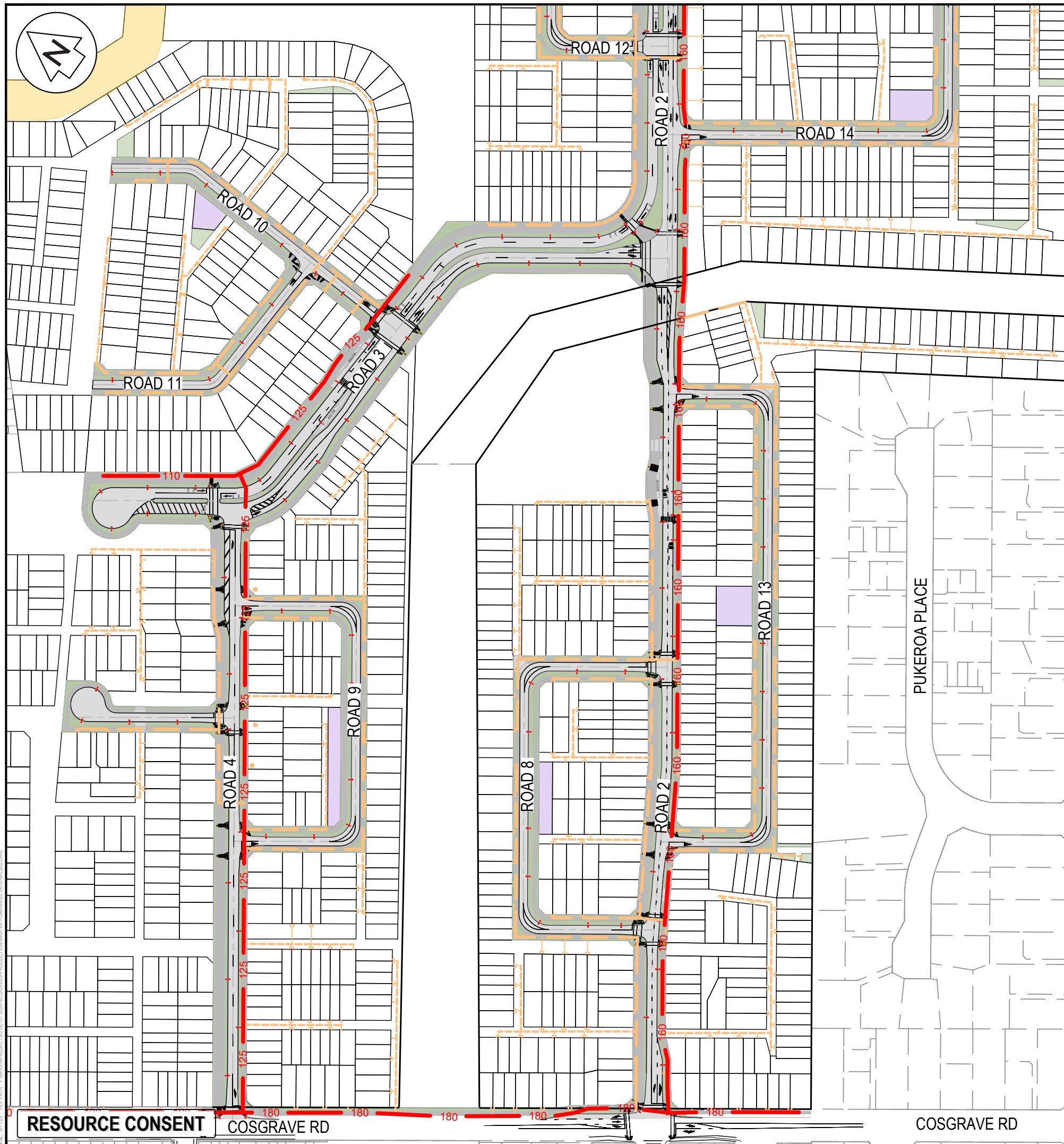
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

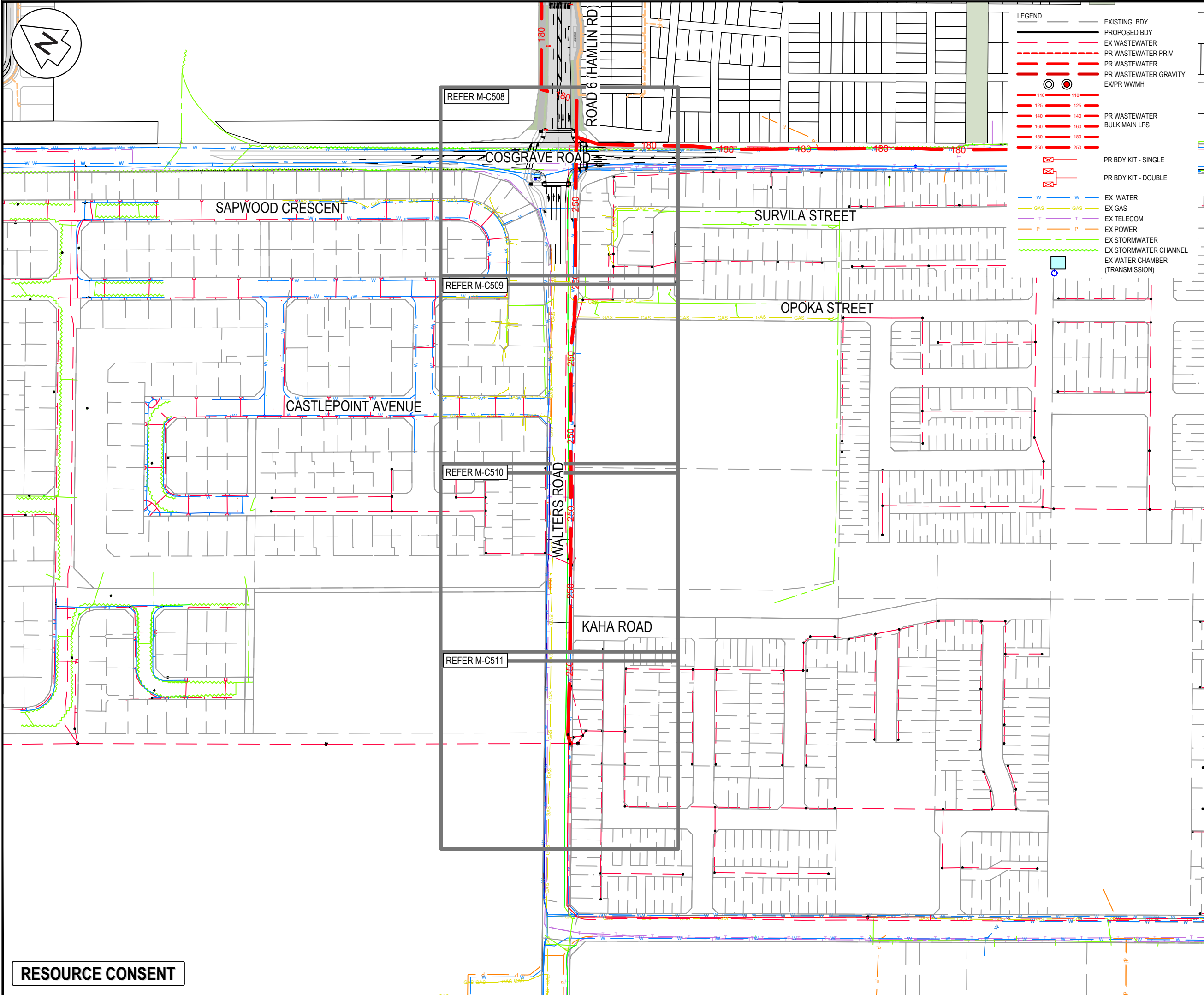
Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C505
Rev	A

DATE: 8/1/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C500.DWG



WASTEWATER NOTES			
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Rev	Description	By	Date
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Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	RK	01/2025	
Checked	JP/LC	02/2025	
 Maven Associates 09 571 0050 info@maven.co.nz www.maven.co.nz 5 Owens Road, Epsom Auckland 1023			
Project			
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED			
Title			
PROPOSED WASTEWATER LPS BULKMAIN PLAN			
Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-4A-C500.DWG		
Drawing no.	M-C506	Rev	A



- LEGEND**
- EXISTING BDY
 - PROPOSED BDY
 - EX WASTEWATER
 - PR WASTEWATER PRIV
 - PR WASTEWATER
 - PR WASTEWATER GRAVITY
 - EX/PR WWMH
 - PR WASTEWATER BULK MAIN LPS
 - PR BDY KIT - SINGLE
 - PR BDY KIT - DOUBLE
 - EX WATER
 - EX GAS
 - EX TELECOM
 - EX POWER
 - EX STORMWATER
 - EX STORMWATER CHANNEL
 - EX WATER CHAMBER (TRANSMISSION)

- WASTEWATER NOTES**
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Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
Checked	JP/LC		02/2025

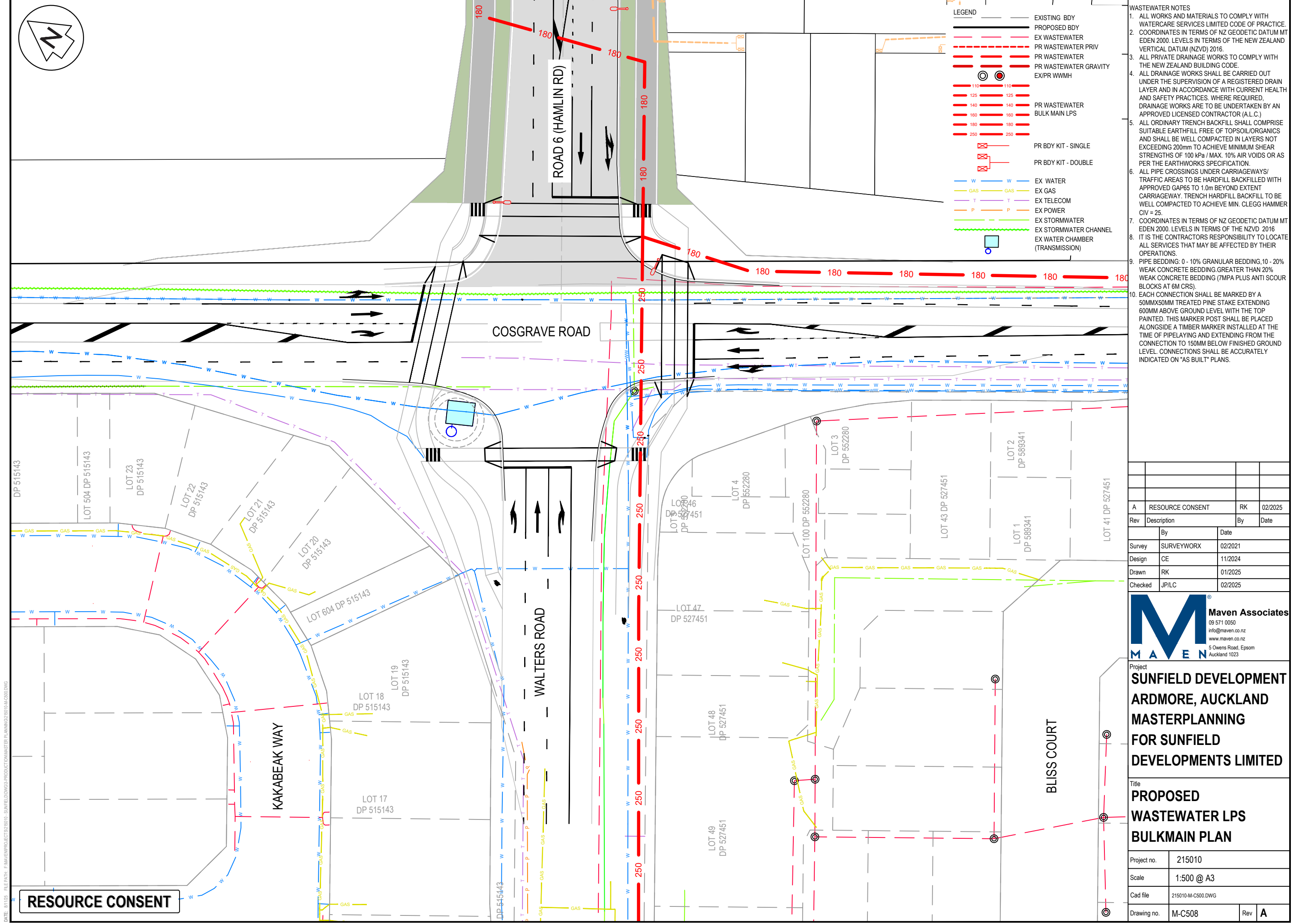
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C507
Rev	A

RESOURCE CONSENT



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| A | RESOURCE CONSENT | RK | 02/2025 | |
| Rev | Description | By | Date | |
| | By | Date | | |
| Survey | SURVEYWORK | 02/2021 | | |
| Design | CE | 11/2024 | | |
| Drawn | RK | 01/2025 | | |
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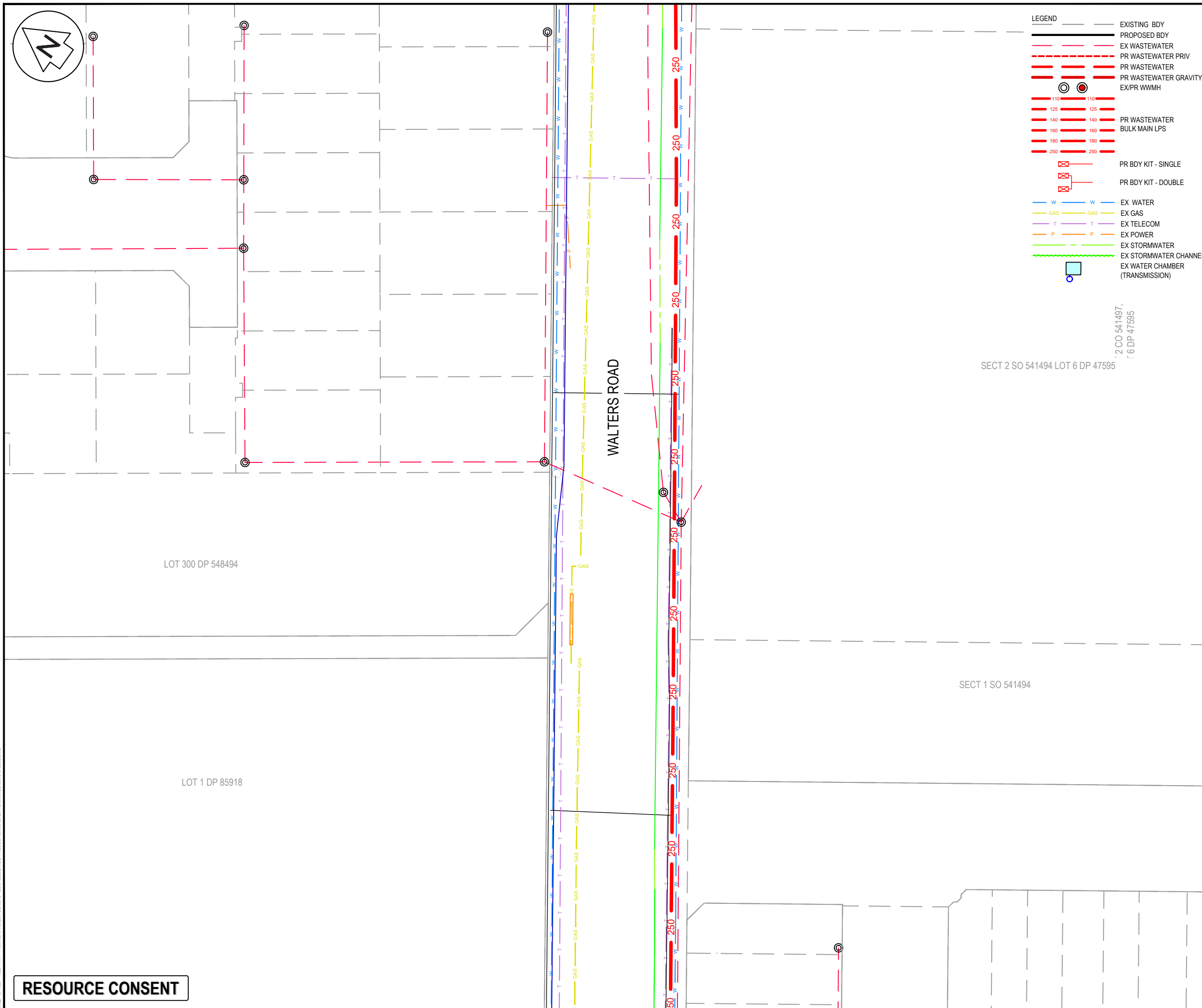
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
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Title

**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010		
Scale	1:500 @ A3		
Cad file	215010-M-C500.DWG		
Drawing no.	M-C508	Rev	A

DATE: 8/11/25 FILE PATH: F:\WAVEN\PROJECTS\215010 - SI\FIELD\DWG3-PRODUCTION\MASTER PLAN\IN\215010-M-C500.DWG



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Project			
SUNFIELD DEVELOPMENT ARDMORE, AUCKLAND MASTERPLANNING FOR SUNFIELD DEVELOPMENTS LIMITED			
Title			
PROPOSED WASTEWATER LPS BULKMAIN PLAN			
Project no.		215010	
Scale		1:500 @ A3	
Cad file		215010-M-C500.DWG	
Drawing no.	M-C510	Rev	A



LOT 1 DP 85918

EX 525mm RCRRJ @ 0.18%

PT ALLOT 35 PARISH PAPA KURA

WALTERS ROAD

KAIRAKAU STREET

PROPOSED WW SATELLITE MANHOLE
PROPOSED WW GRAVITY LINE
PROPOSED WW MANHOLE ON EXISTING TRANSMISSION LINE

LEGEND

EXISTING BDY

PROPOSED BDY

EX WASTEWATER

PR WASTEWATER PRIV

PR WASTEWATER

PR WASTEWATER GRAVITY

EX/PR WWMH

PR WASTEWATER 110

PR WASTEWATER 125

PR WASTEWATER 140

PR WASTEWATER 160

PR WASTEWATER 180

PR WASTEWATER 250

PR WASTEWATER 110

PR WASTEWATER 125

PR WASTEWATER 140

PR WASTEWATER 160

PR WASTEWATER 180

PR WASTEWATER 250

PR WASTEWATER BULK MAIN LPS

PR BDY KIT - SINGLE

PR BDY KIT - DOUBLE

EX WATER

EX GAS

EX TELECOM

EX POWER

EX STORMWATER

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EX WATER CHAMBER (TRANSMISSION)

EXISTING BDY

PROPOSED BDY

EX WASTEWATER

PR WASTEWATER PRIV

PR WASTEWATER

PR WASTEWATER GRAVITY

EX/PR WWMH

PR WASTEWATER 110

PR WASTEWATER 125

PR WASTEWATER 140

PR WASTEWATER 160

PR WASTEWATER 180

PR WASTEWATER 250

PR WASTEWATER BULK MAIN LPS

PR BDY KIT - SINGLE

PR BDY KIT - DOUBLE

EX WATER

EX GAS

EX TELECOM

EX POWER

EX STORMWATER

EX STORMWATER CHANNEL

EX WATER CHAMBER (TRANSMISSION)

- WASTEWATER NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM (NZVD) 2016.
 3. ALL PRIVATE DRAINAGE WORKS TO COMPLY WITH THE NEW ZEALAND BUILDING CODE.
 4. ALL DRAINAGE WORKS SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A REGISTERED DRAIN LAYER AND IN ACCORDANCE WITH CURRENT HEALTH AND SAFETY PRACTICES. WHERE REQUIRED, DRAINAGE WORKS ARE TO BE UNDERTAKEN BY AN APPROVED LICENSED CONTRACTOR (A.L.C.)
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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
Checked	JP/LC		02/2025

M

MAVEN

Maven Associates

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Auckland 1023

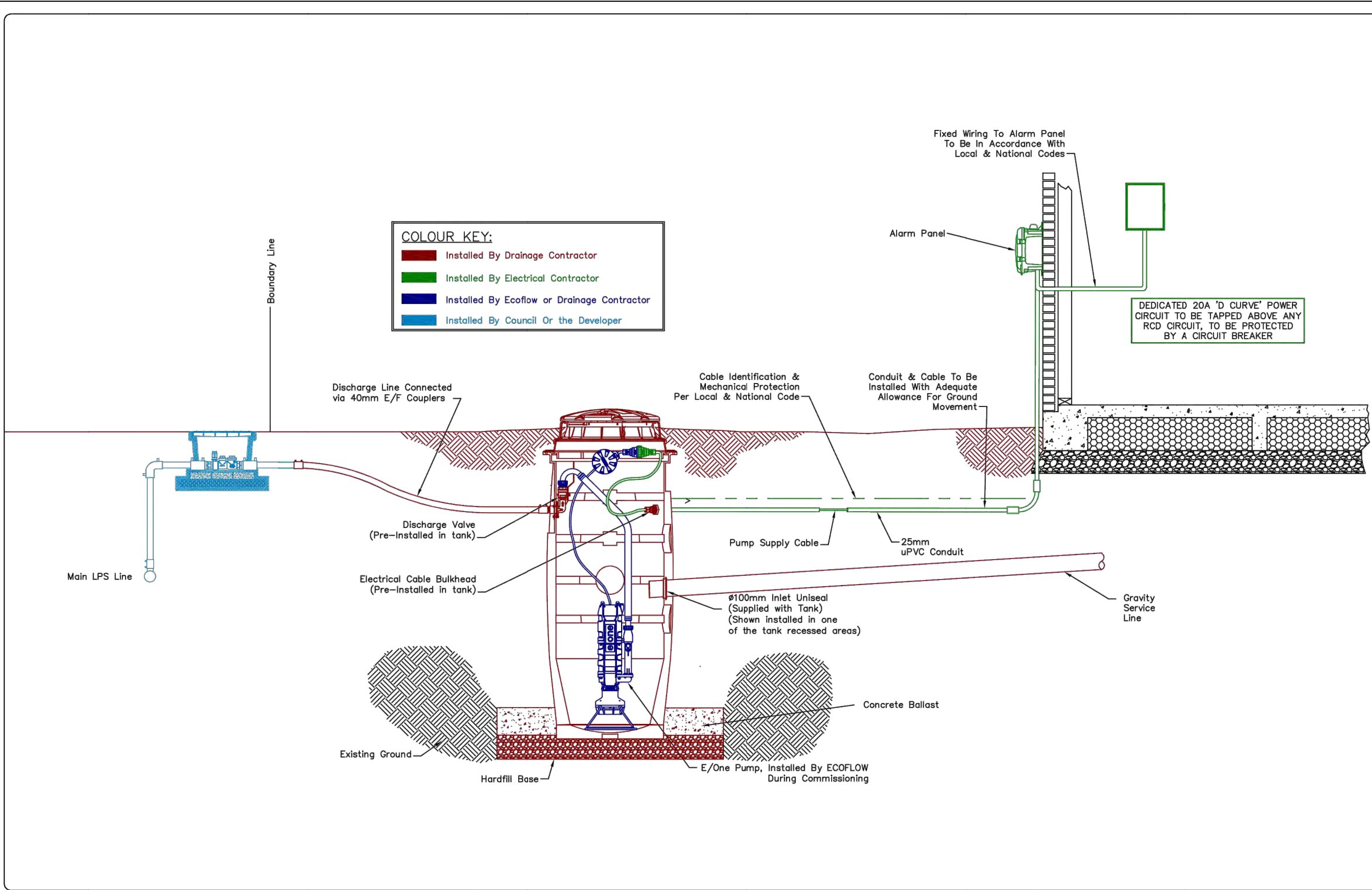
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER LPS
BULKMAIN PLAN**

Project no.	215010
Scale	1:500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C511
Rev	A

RESOURCE CONSENT

DATE: 8/11/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD DEVELOPMENT\MASTER PLANNING\215010-MC540.DWG



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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	-		11/2024
Drawn	-		11/2024
Checked	JP/LC		02/2025

M **Maven Associates**
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info@maven.co.nz
www.maven.co.nz
5 Owens Road, Epsom
Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED LPS
WASTEWATER
STANDARD DETAIL**

Project no.	215010
Scale	N.T.S
Cad file	215010-M-C540.DWG
Drawing no.	M-C540
Rev	A



AUCKLAND - (Head Office)
16b Plemark Drive, North Harbour
Albany, Auckland
P.O. Box 300-249, Albany, Auckland
Ph (09) 447-1793 Fax (09) 447-3901

CHRISTCHURCH
15 Anchorage Road, Hornby
Hornby, Christchurch
Ph (03) 349-2506

www.ecoflow.co.nz
Email: info@ecoflow.co.nz

DRAWN	MC	4/10/2018
CHECKED		
CLIENT APPROVED		
CLIENT		

TITLE	System Layout Environment One Simplex 2010iP
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Job

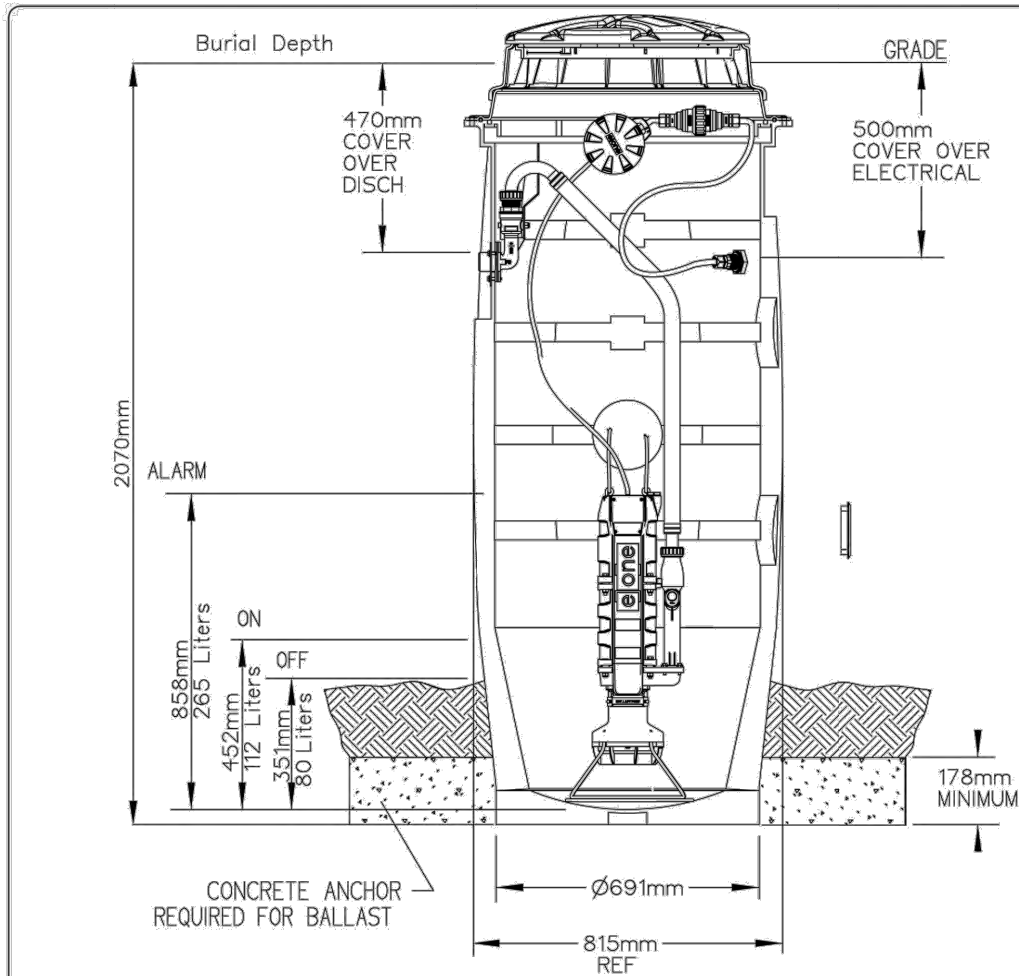
REVISION	SCALE	AT	Dwg No.
1	NTS		1



RESOURCE CONSENT

DATE: 8/11/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C540.DWG

RESOURCE CONSENT



Pump	
Motor Type	Single Phase, 240V, 50Hz, 0.75kW
Standards	NSF46, AS/NZS 60335.2.41:2004
Pump Type	Helical Rotor, Semi-positive Displacement
Design Head	56m
Pump Flow	0.4 l/s @ 55m TDH 0.75 l/s @ 1m TDH
Speed	1450 rpm
Starting Current	26.4 Amps
Starting Torque	15.6 Nm
Check Valve	Proprietary Swing Check Valve
Anti-siphon Valve	Proprietary integral anti-siphon / Check Valve
Controls	Pressure Switch – On/Off & Alarm

Tank	
Material	High Density Polyethylene
Standards	As/NZS 1546.1:1998
Cover Loading	500kg Point Load in Centre of Lid
Capacity Total	720 Litres

Controller	
Rating	IP56
Audible Alarm	Yes
Visual Alarm	Yes
Protection	Low Voltage, Over Pressure and Dry Run
Information	Hours Run, Max/Min/Avg A, V, Run time

ecoflow

Ecoflow Ltd.
16b Piermark Drive, North Harbour (NZ)
P.O. Box 300-249, Albany, Auckland
Ph (09) 447-1793 Fax (09) 447-3901

Environment One
Simplex 800x2000iP

e one
SEWER SYSTEMS

- WASTEWATER NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	-		11/2024
Drawn	-		11/2024
Checked	JP/LC		02/2025

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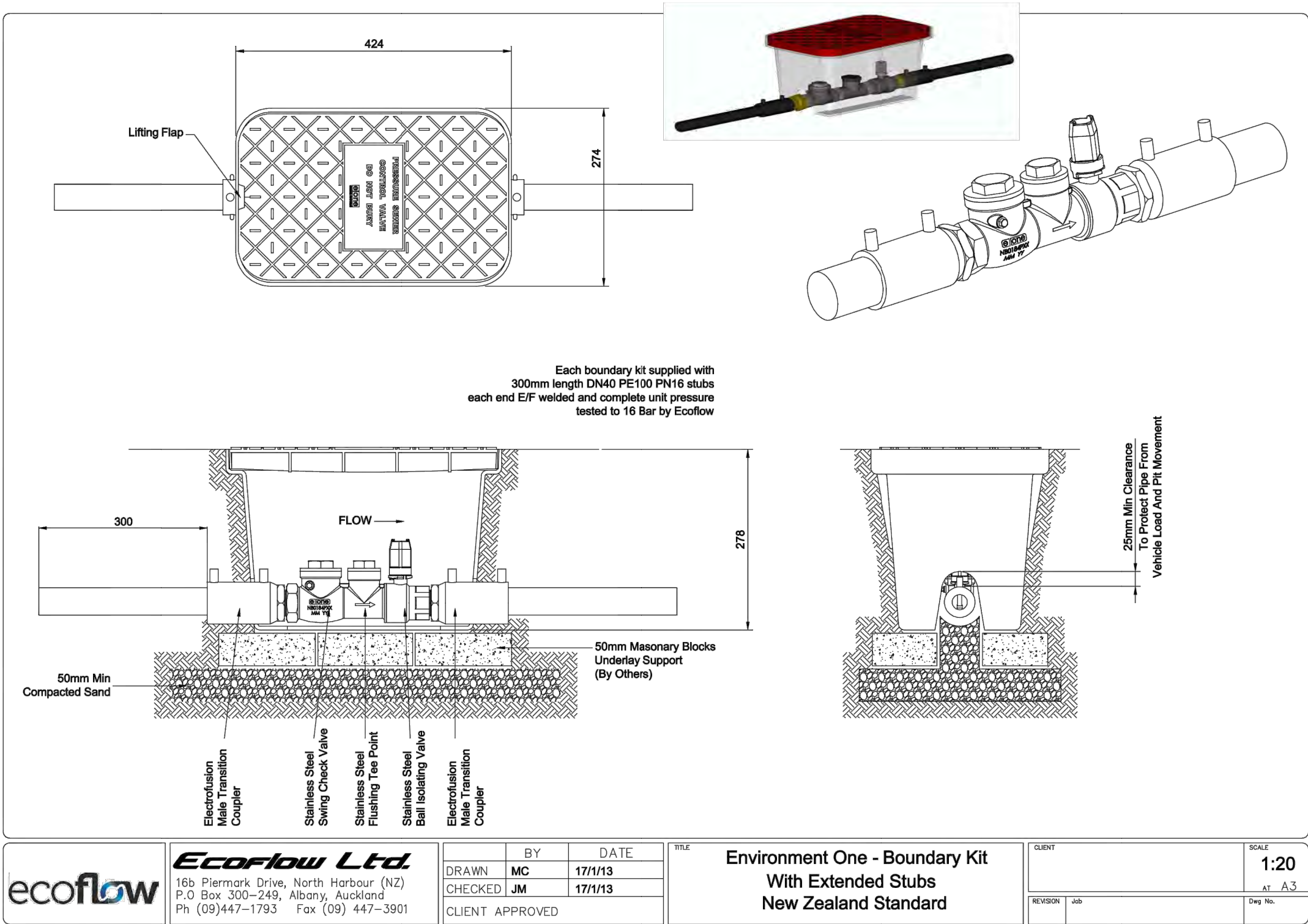
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED LPS
WASTEWATER
STANDARD DETAIL**

Project no.	215010		
Scale	N.T.S		
Cad file	215010-M-C540.DWG		
Drawing no.	M-C541	Rev	A

DATE: 8/11/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C540.DWG

RESOURCE CONSENT



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Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	-		11/2024
Drawn	-		11/2024
Checked	JP/LC		02/2025

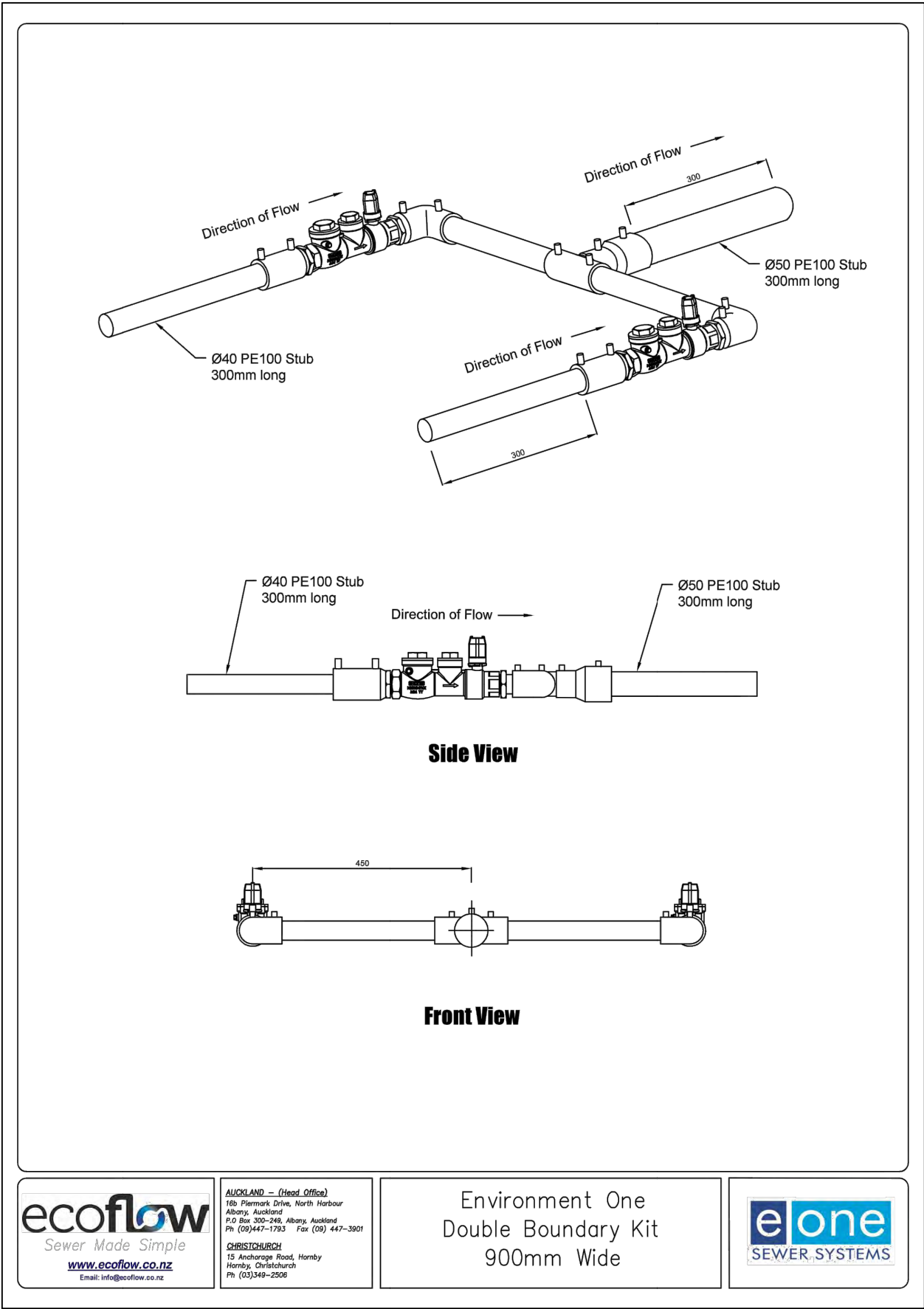
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Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title PROPOSED LPS WASTEWATER STANDARD DETAIL			
Project no.	215010		
Scale	N.T.S		
Cad file	215010-M-C540.DWG		
Drawing no.	M-C542	Rev	A

DATE: 8/11/25 FILEPATH: F:\Maven\PROJECTS\19101 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\0219101-M-C540.DWG

RESOURCE CONSENT



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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	-		11/2024
Drawn	-		11/2024
Checked	JP/LC		02/2025

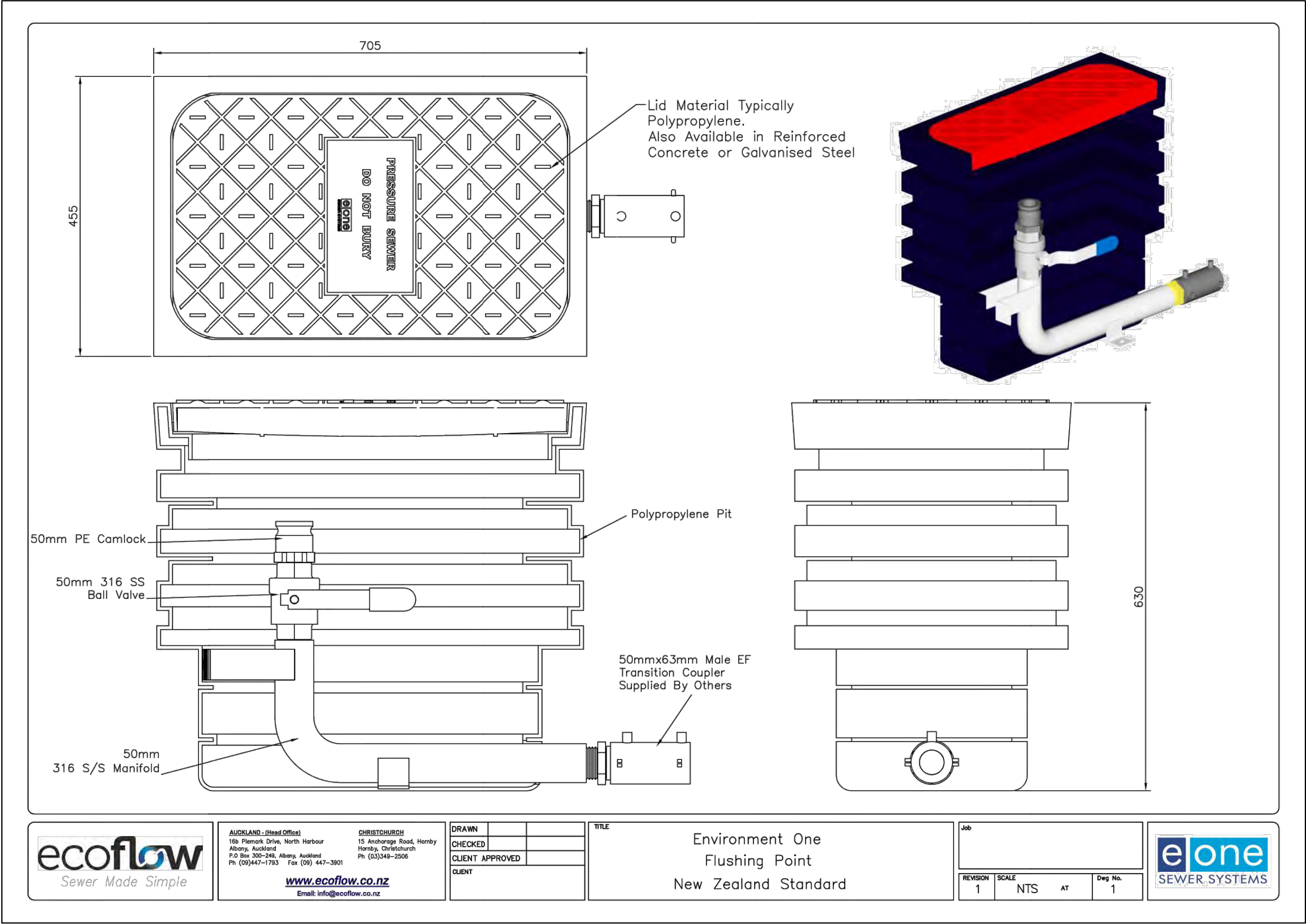
M **Maven Associates**
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5 Owens Road, Epsom
Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED LPS
WASTEWATER
STANDARD DETAIL**

Project no.	215010		
Scale	N.T.S		
Cad file	215010-M-C540.DWG		
Drawing no.	M-C543	Rev	A

DATE: 8/11/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C540.DWG



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1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
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A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	-		11/2024
Drawn	-		11/2024
Checked	JP/LC		02/2025

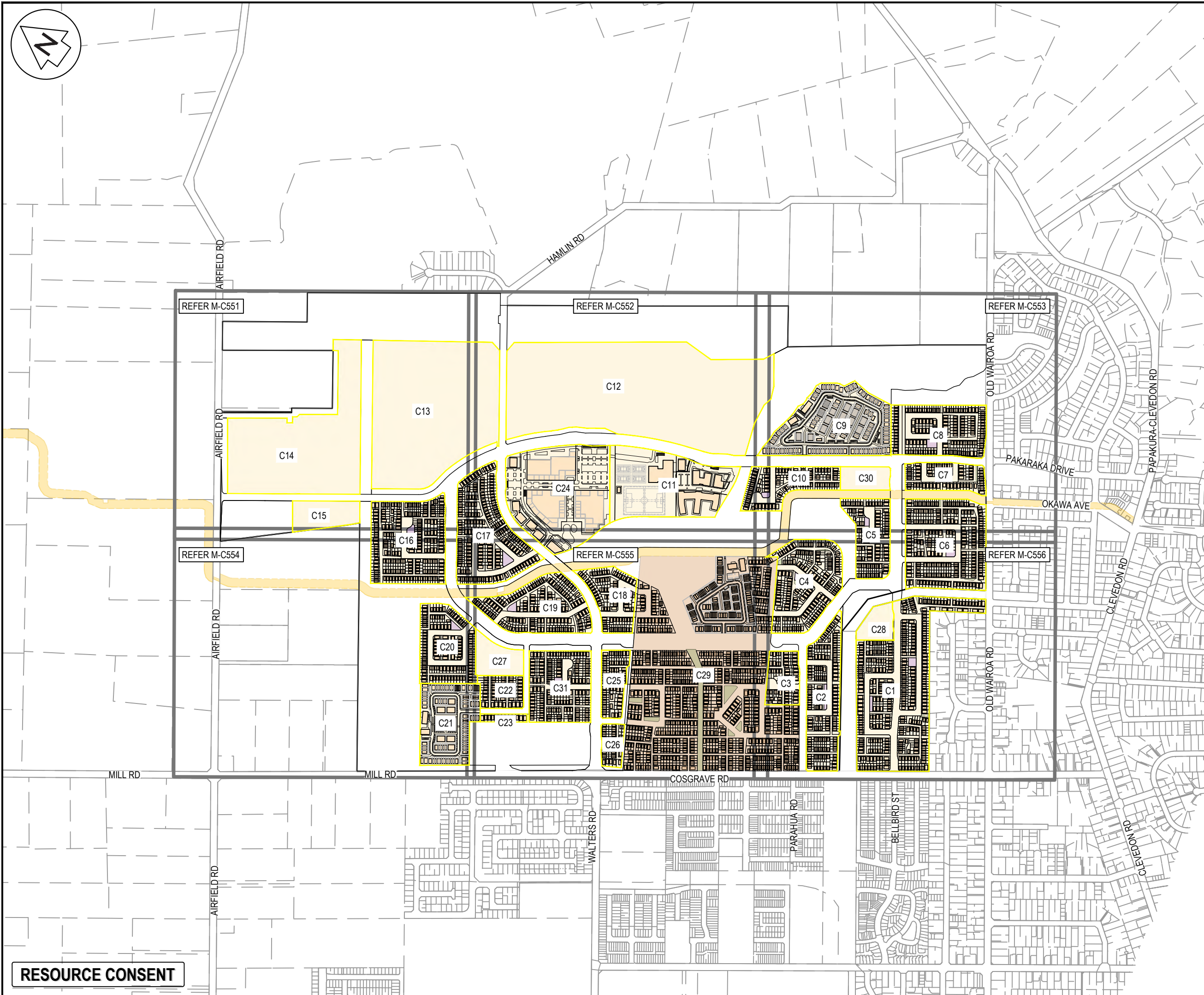
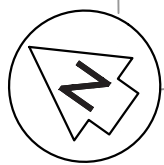
M **Maven Associates**
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5 Owens Road, Epsom
Auckland 1023

Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED LPS
WASTEWATER
STANDARD DETAIL**

Project no.	215010
Scale	N.T.S
Cad file	215010-M-C540.DWG
Drawing no.	M-C544
Rev	A

RESOURCE CONSENT



WASTEWATER NOTES

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LEGEND

EX BDY

PR BDY

WASTEWATER CATCHMENT

NEIGHBORING SITE WASTEWATER CATCHMENT

B	RESOURCE CONSENT	HN	07/2025
A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
Checked	JP/LC		02/2025

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5 Owens Road, Epsom
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Project

**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
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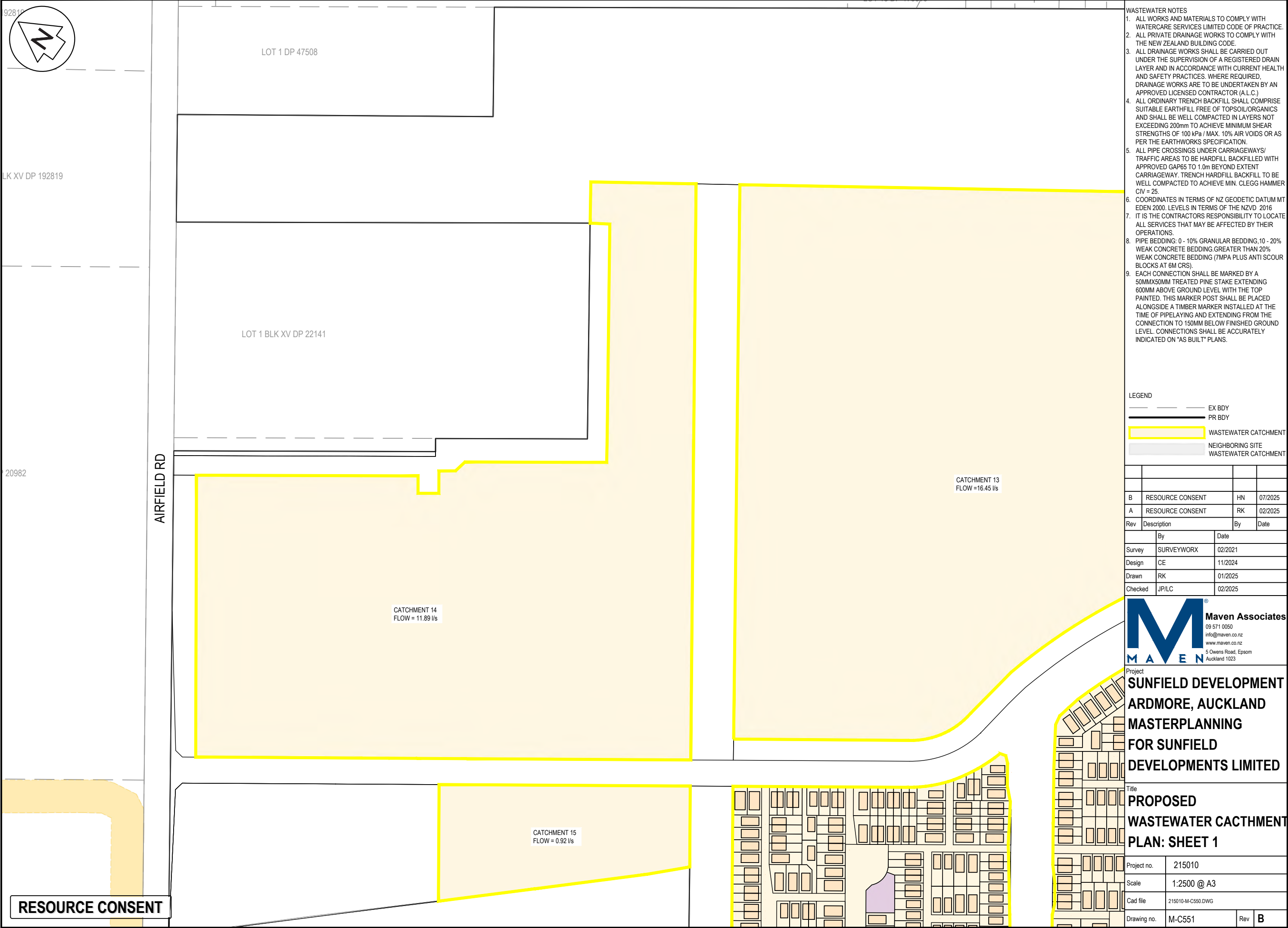
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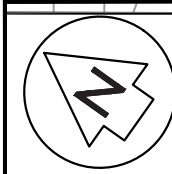
**PROPOSED OVERVIEW
WASTEWATER CACTHMENT
PLAN**

Project no.	215010		
Scale	1:10000 @ A3		
Cad file	215010-M-C550.DWG		
Drawing no.	M-C550	Rev	B

DATE: 8/1/25 FILE PATH: F:\MVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C550.DWG

RESOURCE CONSENT





CATCHMENT 12
FLOW = 23.59 l/s

CATCHMENT 24
FLOW = 6.0 l/s

CATCHMENT 11
FLOW = 2.38 l/s

RESOURCE CONSENT

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 4. ALL ORDINARY TRENCH BACKFILL SHALL COMPRISE SUITABLE EARTHFILL FREE OF TOPSOIL/ORGANICS AND SHALL BE WELL COMPACTED IN LAYERS NOT EXCEEDING 200mm TO ACHIEVE MINIMUM SHEAR STRENGTHS OF 100 kPa / MAX. 10% AIR VOIDS OR AS PER THE EARTHWORKS SPECIFICATION.
 5. ALL PIPE CROSSINGS UNDER CARRIAGEWAYS/ TRAFFIC AREAS TO BE HARDFILL BACKFILLED WITH APPROVED GAP65 TO 1.0m BEYOND EXTENT CARRIAGEWAY. TRENCH HARDFILL BACKFILL TO BE WELL COMPACTED TO ACHIEVE MIN. CLEGG HAMMER CIV = 25.
 6. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NZVD 2016
 7. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 8. 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).
 9. 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.

LEGEND

EX BDY
PR BDY

WASTEWATER CATCHMENT
NEIGHBORING SITE
WASTEWATER CATCHMENT

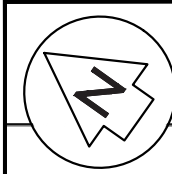
B	RESOURCE CONSENT	HN	07/2025
A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	RK	01/2025	
Checked	JP/LC	02/2025	

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER CACTHMENT
PLAN: SHEET 2**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C550.DWG		
Drawing no.	M-C552	Rev	B



LOT 1 DP 11032

LOT 2 DP 316491

PT ALLOT 32 PARISH OF PAKAPURA

OLD WAIROA RD

NOLA DAWN AVENUE

PAKARAKA DRIVE

OLD WAIROA RD

- WASTEWATER NOTES
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
 2. ALL PRIVATE DRAINAGE WORKS TO COMPLY WITH THE NEW ZEALAND BUILDING CODE.
 3. ALL DRAINAGE WORKS SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A REGISTERED DRAIN LAYER AND IN ACCORDANCE WITH CURRENT HEALTH AND SAFETY PRACTICES. WHERE REQUIRED, DRAINAGE WORKS ARE TO BE UNDERTAKEN BY AN APPROVED LICENSED CONTRACTOR (A.L.C.).
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 6. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NZVD 2016
 7. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
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 9. 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.

LEGEND

- EX BDY
PR BDY
- WASTEWATER CATCHMENT
NEIGHBORING SITE
WASTEWATER CATCHMENT

B	RESOURCE CONSENT	HN	07/2025
A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
Checked	JP/LC		02/2025



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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER CACTHMENT
PLAN: SHEET 3**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C550.DWG		
Drawing no.	M-C553	Rev	B

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCT\MASTER PLAN\215010-M-C550.DWG

RESOURCE CONSENT

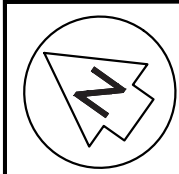
CATCHMENT 9
FLOW = 1.77 l/s

CATCHMENT 8
FLOW = 1.12 l/s

CATCHMENT 30
FLOW = 1.14 l/s

CATCHMENT 10
FLOW = 0.72 l/s

CATCHMENT 7
FLOW = 0.50 l/s



20982

LOT 1 DP 199521

CATCHMENT 16
FLOW = 1.64 l/s

LOT 1 DP 42854

PT LOT 5 DP 47911

LOT 4 BLK XV DP 193857

LOT 2 DP 42854

CATCHMENT 20
FLOW = 0.94 l/s

AIRFIELD RD

LOT 3 BLK XV DP 193857

LOT 2 DP 109061

CATCHMENT 21
FLOW = 1.14 l/s

LOT 1 BLK XV DP 47911

LOT 2 DP 47911

LOT 3 DP 47911

LOT 1 DP 109061

LOT 2 DP 193857

LOT 1 DP 39638

MILL RD

RESOURCE CONSENT

- WASTEWATER NOTES
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LEGEND

EX BDY
PR BDY

WASTEWATER CATCHMENT
NEIGHBORING SITE
WASTEWATER CATCHMENT

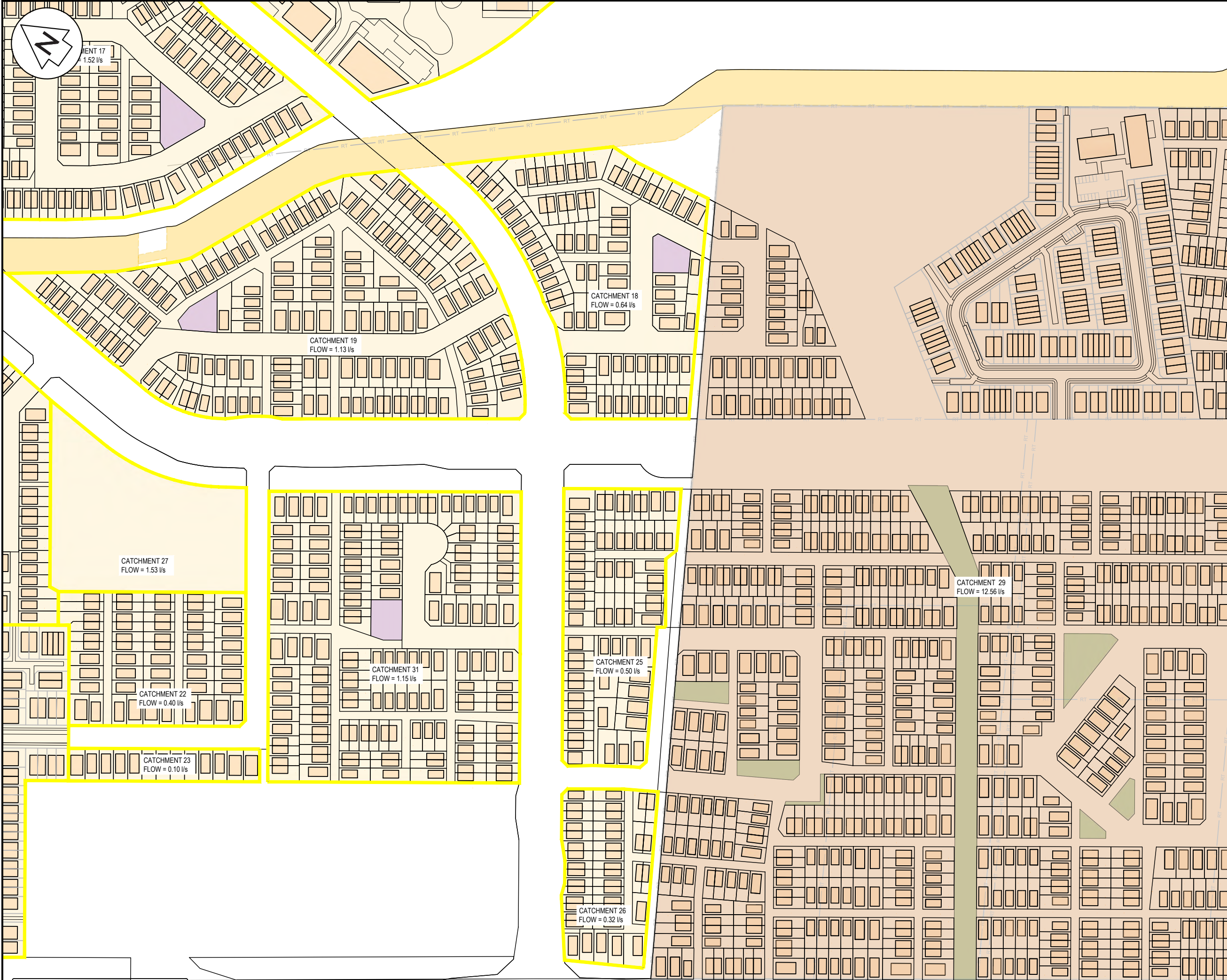
B	RESOURCE CONSENT	HN	07/2025
A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
Checked	JP/LC		02/2025

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WASTEWATER CACTHMENT
PLAN: SHEET 4**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C550.DWG
Drawing no.	M-C554
Rev	B



WASTEWATER NOTES

1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
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LEGEND

EX BDY

PR BDY

WASTEWATER CATCHMENT

NEIGHBORING SITE WASTEWATER CATCHMENT

B	RESOURCE CONSENT	HN	07/2025
A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	Survey	SURVEYWORX	02/2021
	Design	CE	11/2024
	Drawn	RK	01/2025
	Checked	JP/LC	02/2025

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Project

SUNFIELD DEVELOPMENT

ARDMORE, AUCKLAND

MASTERPLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

Title

PROPOSED

WASTEWATER CACTHMENT

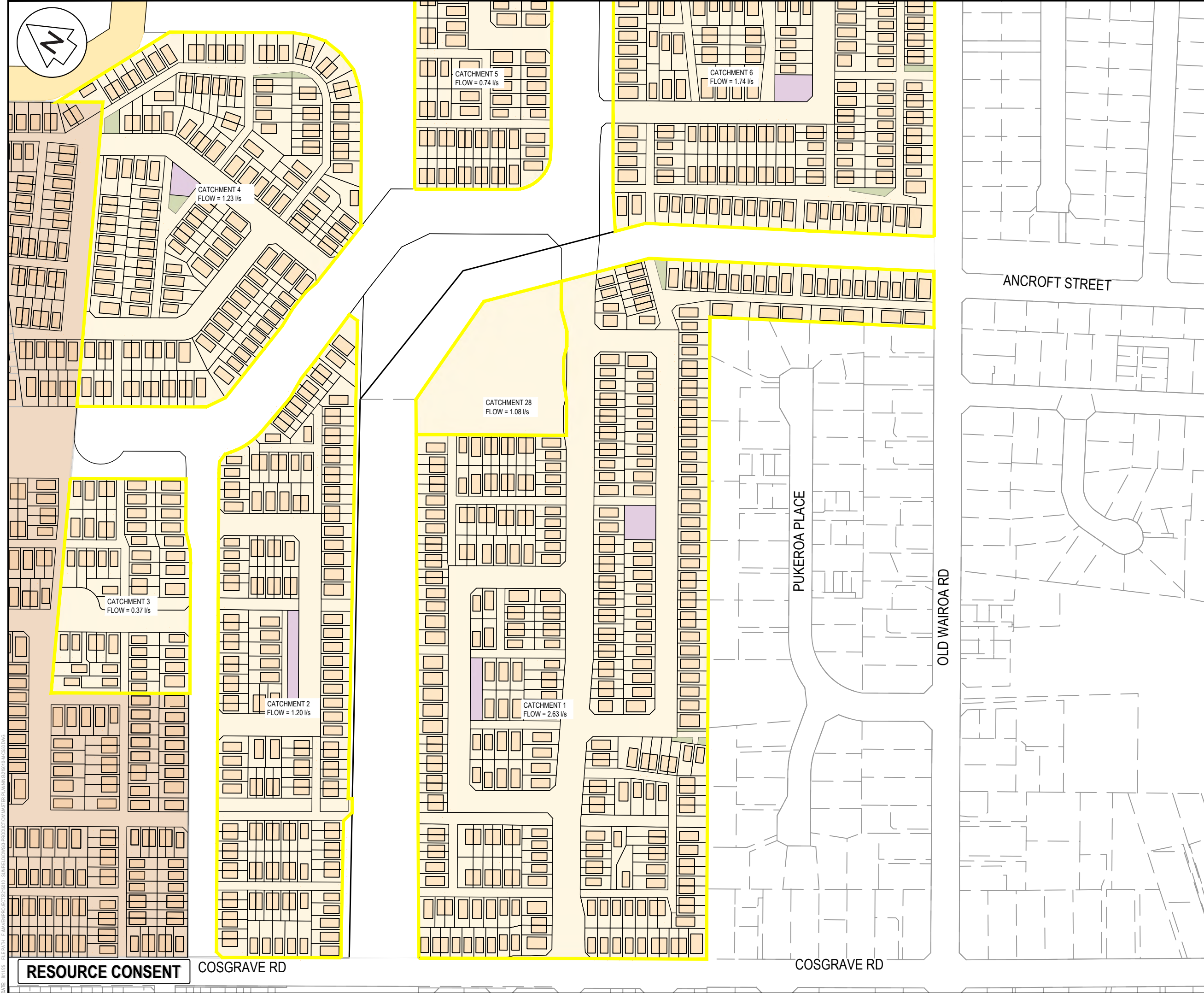
PLAN: SHEET 5

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C550.DWG		
Drawing no.	M-C555	Rev	B

RESOURCE CONSENT

COSGRAVE RD

DATE: 8/1/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N215010-M-C550.DWG



- WASTEWATER NOTES
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LEGEND

EX BDY

PR BDY

WASTEWATER CATCHMENT

NEIGHBORING SITE WASTEWATER CATCHMENT

B	RESOURCE CONSENT	HN	07/2025
A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	RK	01/2025	
Checked	JP/LC	02/2025	

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Project

SUNFIELD DEVELOPMENT

ARDMORE, AUCKLAND

MASTERPLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

Title

PROPOSED

WASTEWATER CACTHMENT

PLAN: SHEET 6

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C550.DWG		
Drawing no.	M-C556	Rev	B

DATE: 8/1/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N215010-M-C550.DWG

RESOURCE CONSENT

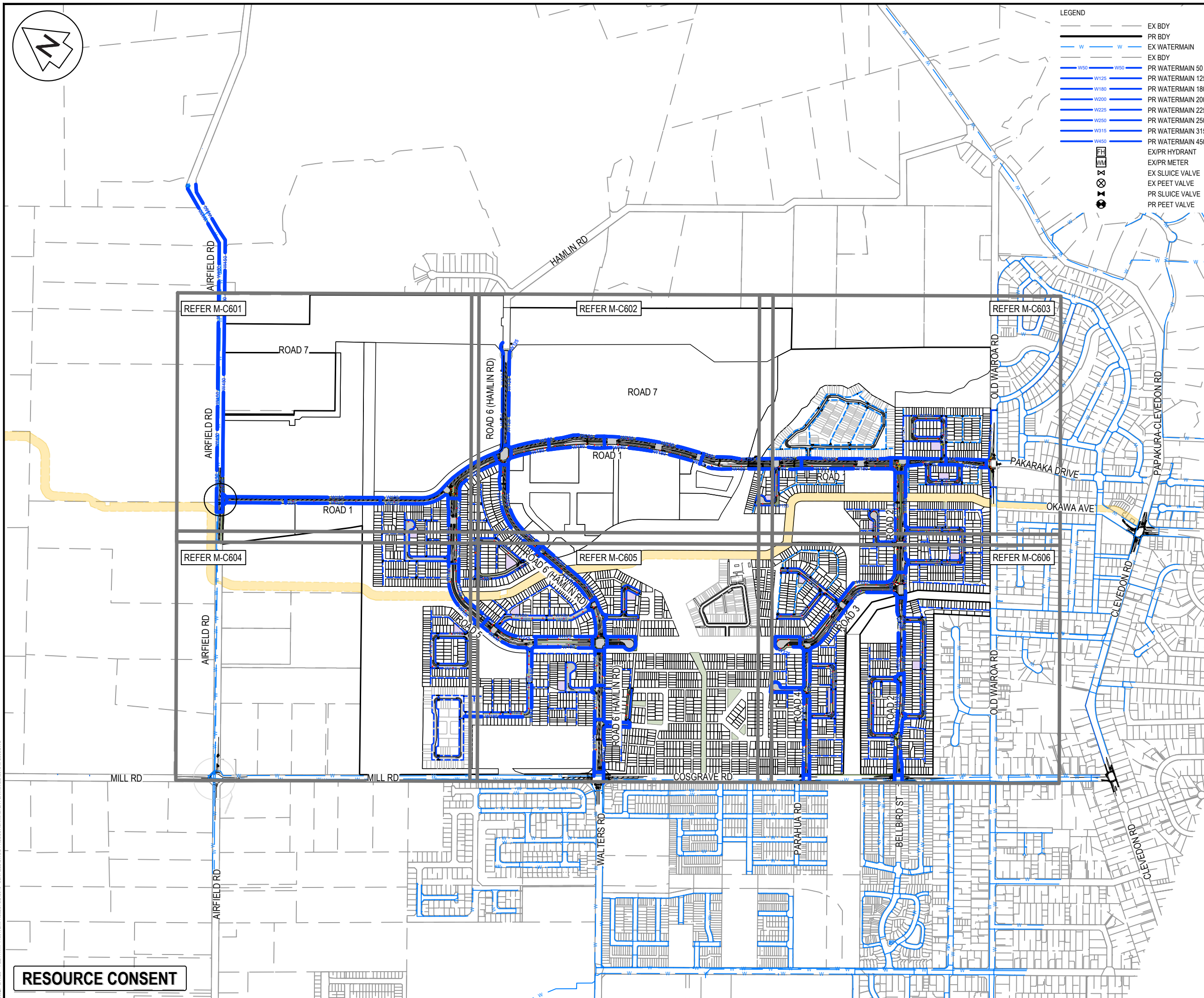
COSGRAVE RD

COSGRAVE RD

ANCROFT STREET

PUKEROA PLACE

OLD WAIROA RD



LEGEND

	EX BDY
	PR BDY
	EX WATERMAIN
	EX BDY
	PR WATERMAIN 50
	PR WATERMAIN 125
	PR WATERMAIN 180
	PR WATERMAIN 200
	PR WATERMAIN 225
	PR WATERMAIN 250
	PR WATERMAIN 315
	PR WATERMAIN 450
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
ROADS AND FRONT 1M OF BERM: 900mm
BERMS 600mm
SERVICE CONNECTIONS: 450mm
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
 10. A YELLOW ISOCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
 11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSOTAPE OR SIMILAR APPROVED BY THE ENGINEER.

A	RESOURCE CONSENT	AS	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORK	02/2021	
Design	ARS	2/2025	
Drawn	KN	2/2025	
Checked	JP/LC	02/2025	



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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title

**PROPOSED OVERVIEW
WATER SUPPLY
PLAN**

Project no.	215010		
Scale	1:10000 @ A3		
Cad file	215010-M-C600.DWG		
Drawing no.	M-C600	Rev	A

RESOURCE CONSENT



LK XV DP 192819

20982

LOT 1 DP 47508

LOT 1 BLK XV DP 22141

ROAD 7

1800mmOD PE100 PN12.5

3150mmOD PE100 PN12.5

4500mmOD PE100 PN12.5

AIRFIELD RD

4500mmOD PE100 PN12.5

ROAD 31

1800mmOD PE100 PN12.5

2250mmOD PE100 PN12.5

ROAD 1

LEGEND

- EX BDY
PR BDY
EX WATERMAIN
EX BDY
PR WATERMAIN 50
PR WATERMAIN 125
PR WATERMAIN 180
PR WATERMAIN 200
PR WATERMAIN 225
PR WATERMAIN 250
PR WATERMAIN 315
PR WATERMAIN 450
EX/PR HYDRANT
EX/PR METER
EX SLUICE VALVE
EX PEET VALVE
PR SLUICE VALVE
PR PEET VALVE

NOTES

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A	RESOURCE CONSENT	AS	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025

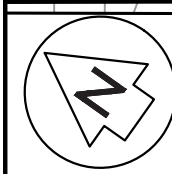
M Maven Associates
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 1**

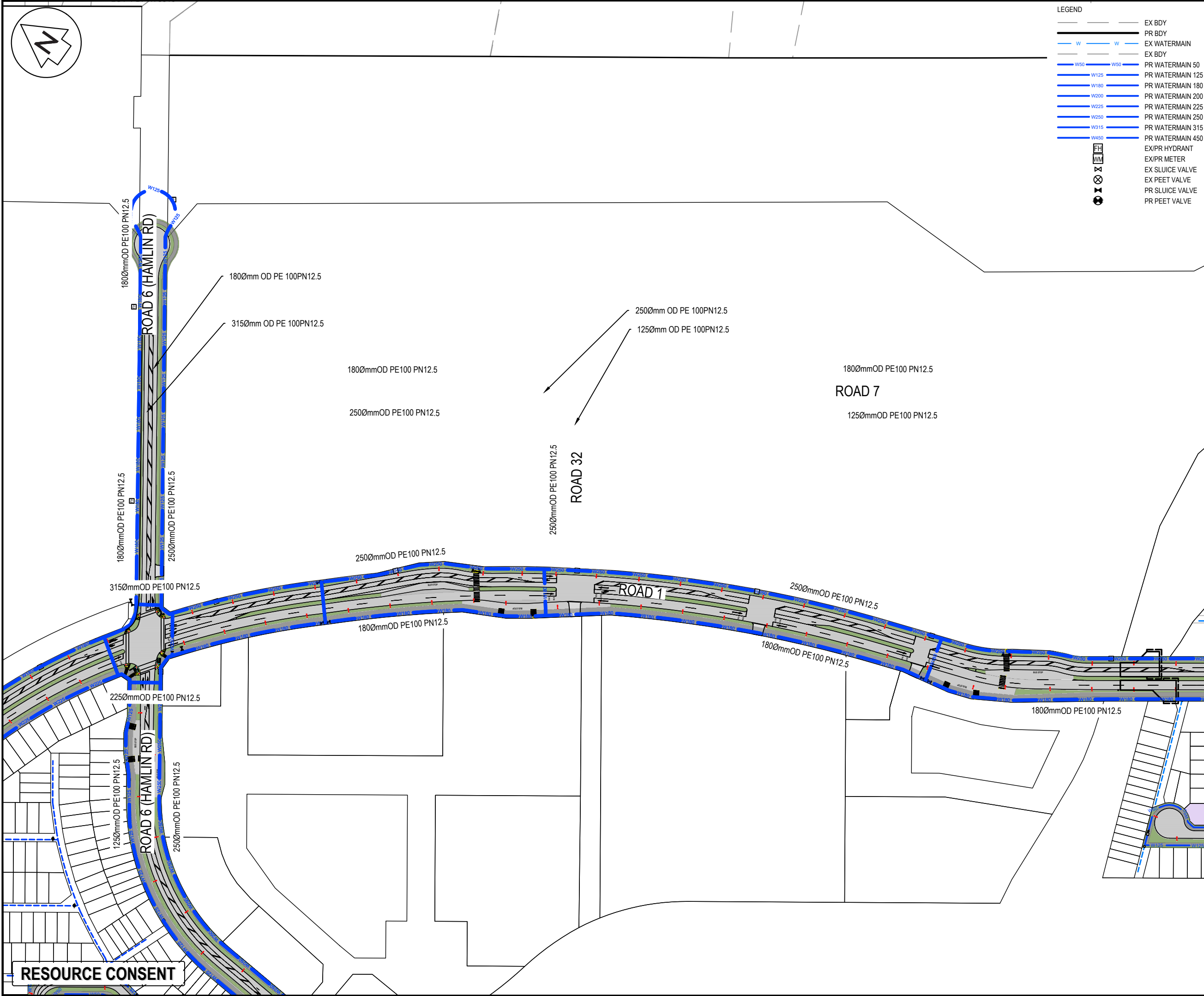
Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C601
Rev	A

RESOURCE CONSENT



LEGEND	
	EX BDY
	PR BDY
	EX WATERMAIN
	EX BDY
	PR WATERMAIN 50
	PR WATERMAIN 125
	PR WATERMAIN 180
	PR WATERMAIN 200
	PR WATERMAIN 225
	PR WATERMAIN 250
	PR WATERMAIN 315
	PR WATERMAIN 450
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

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Survey	SURVEYWORX		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025



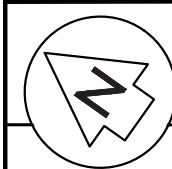
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 2**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C600.DWG		
Drawing no.	M-C602	Rev	A

DATE: 8/1/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C600.DWG



LOT 1 DP 11032

LOT 2 DP 316491

PT ALLOT 32 PARISH OF PAKAKURA

LEGEND

	EX BDY
	PR BDY
	EX WATERMAIN
	EX BDY
	PR WATERMAIN 50
	PR WATERMAIN 125
	PR WATERMAIN 180
	PR WATERMAIN 200
	PR WATERMAIN 225
	PR WATERMAIN 250
	PR WATERMAIN 315
	PR WATERMAIN 450
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
ROADS AND FRONT1M OF BERM: 900mm
BERMS 600mm
SERVICE CONNECTIONS: 450mm
 4. WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
 5. ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
 6. ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
 7. ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
 8. PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
 9. METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
 10. A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
 11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

A	RESOURCE CONSENT	AS	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025

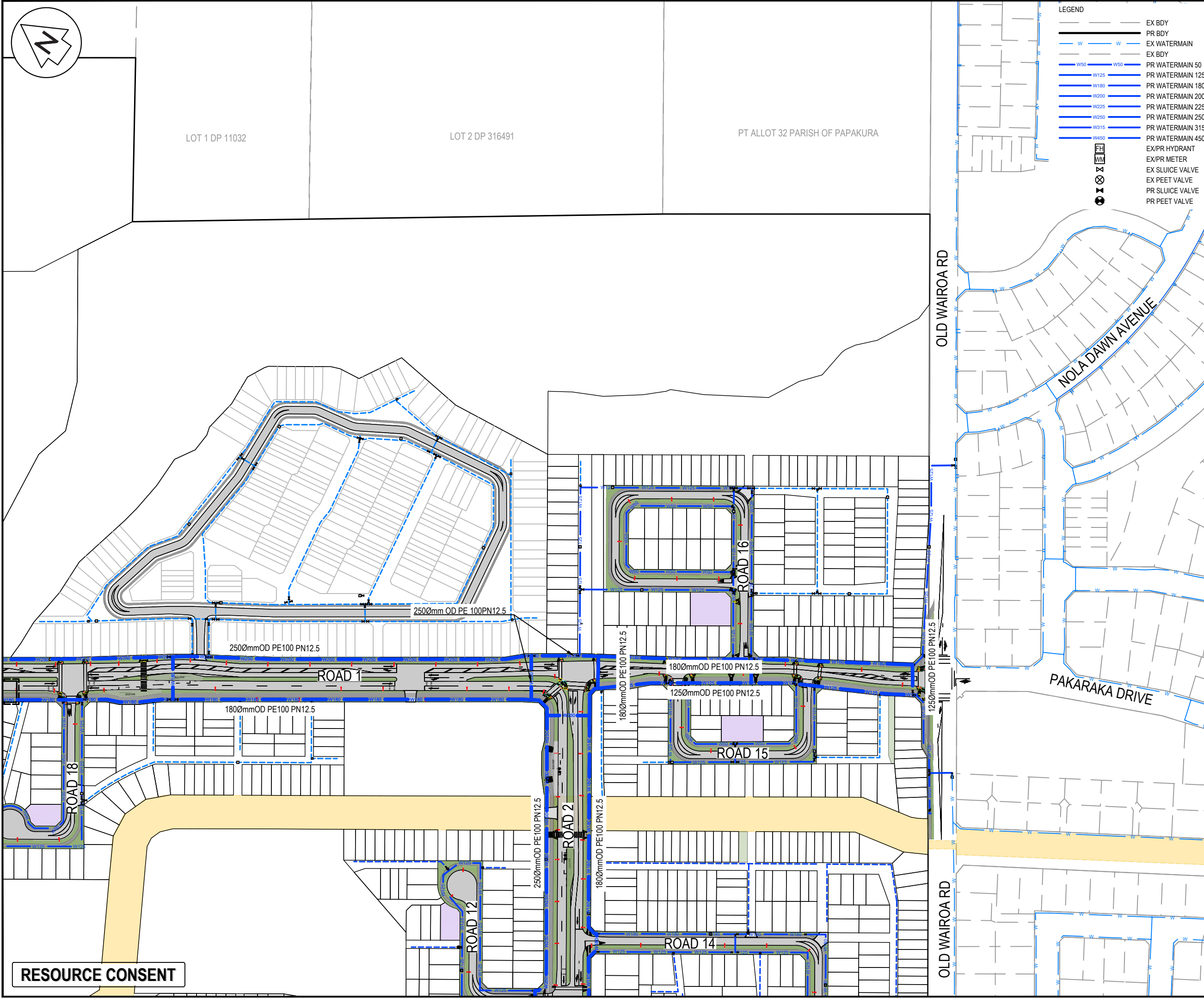


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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

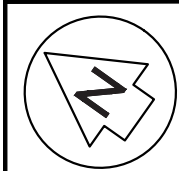
Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 3**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C603
Rev	A



RESOURCE CONSENT

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECT\S215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLAN\N0215010-M-C600.DWG



20982

LOT 1 DP 199521

LOT 1 DP 42854

PT LOT 5 DP 47911

LOT 4 BLK XV DP 193857

LOT 2 DP 42854

LOT 3 BLK XV DP 193857

AIRFIELD RD

LOT 2 DP 109061

LOT 1 BLK XV DP 47911

LOT 2 DP 47911

LOT 3 DP 47911

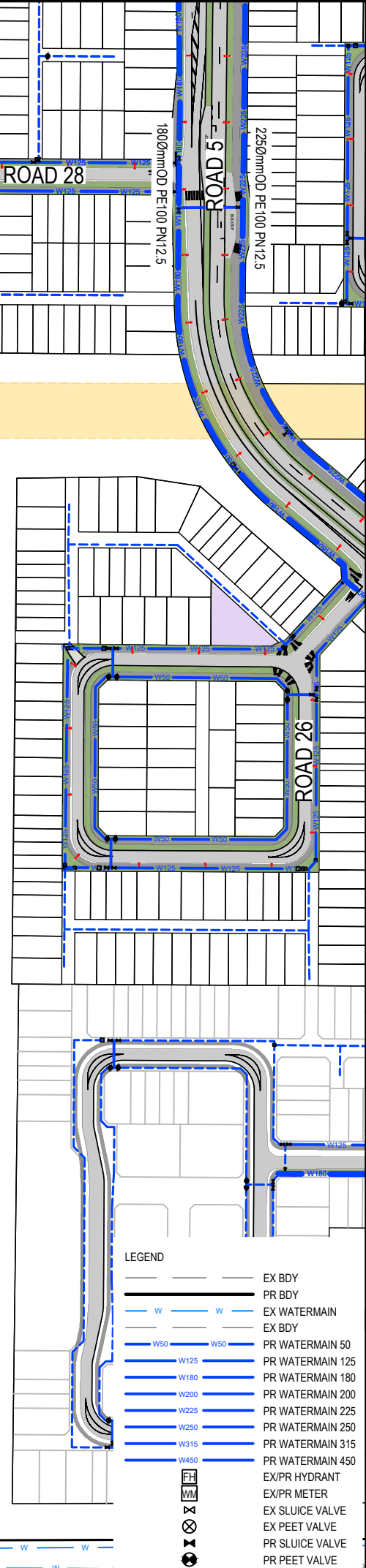
LOT 1 DP 109061

LOT 2 DP 193857

LOT 1 DP 39638

MILL RD

RESOURCE CONSENT



NOTES

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SERVICE CONNECTIONS: 450mm
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- ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
- ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

A	RESOURCE CONSENT	AS	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025

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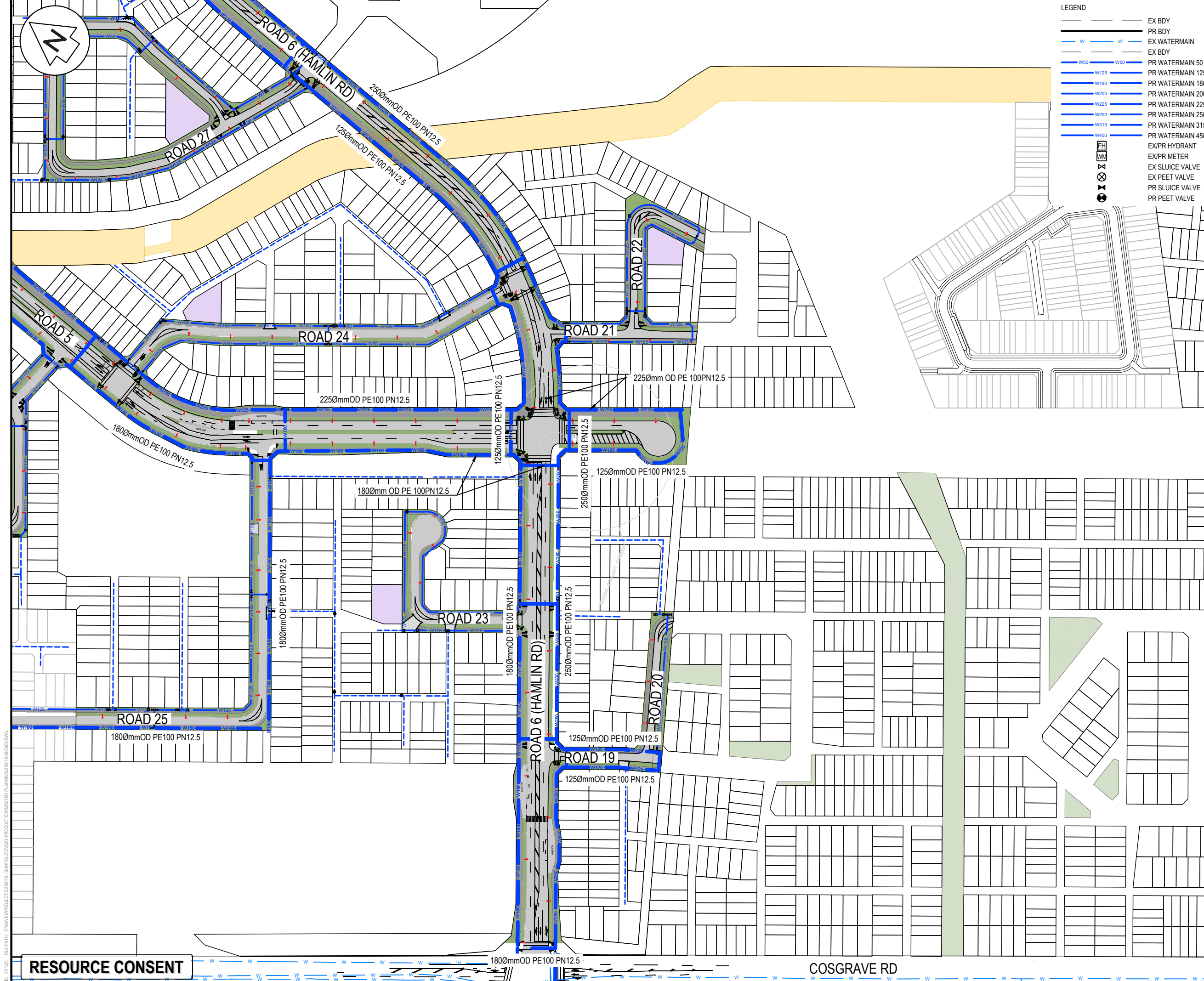
Project

**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title

**PROPOSED
WATER SUPPLY
PLAN: SHEET 4**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C604
Rev	A



- LEGEND
- EX BDY
 - PR BDY
 - EX WATERMAIN
 - EX BDY
 - PR WATERMAIN 50
 - PR WATERMAIN 125
 - PR WATERMAIN 180
 - PR WATERMAIN 200
 - PR WATERMAIN 225
 - PR WATERMAIN 250
 - PR WATERMAIN 315
 - PR WATERMAIN 450
 - EX/PR HYDRANT
 - EX/PR METER
 - EX SLUICE VALVE
 - EX PEET VALVE
 - PR SLUICE VALVE
 - PR PEET VALVE

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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BERMS 600mm
SERVICE CONNECTIONS: 450mm
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 11. ALL VALVES TO BE MARKED WITH SAWCUT KERB AND BLUE PAINT.
 12. ALL FLANGE JOINTS TO BE PROTECTED WITH DENSO TAPE OR SIMILAR APPROVED BY THE ENGINEER.

A	RESOURCE CONSENT	AS	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

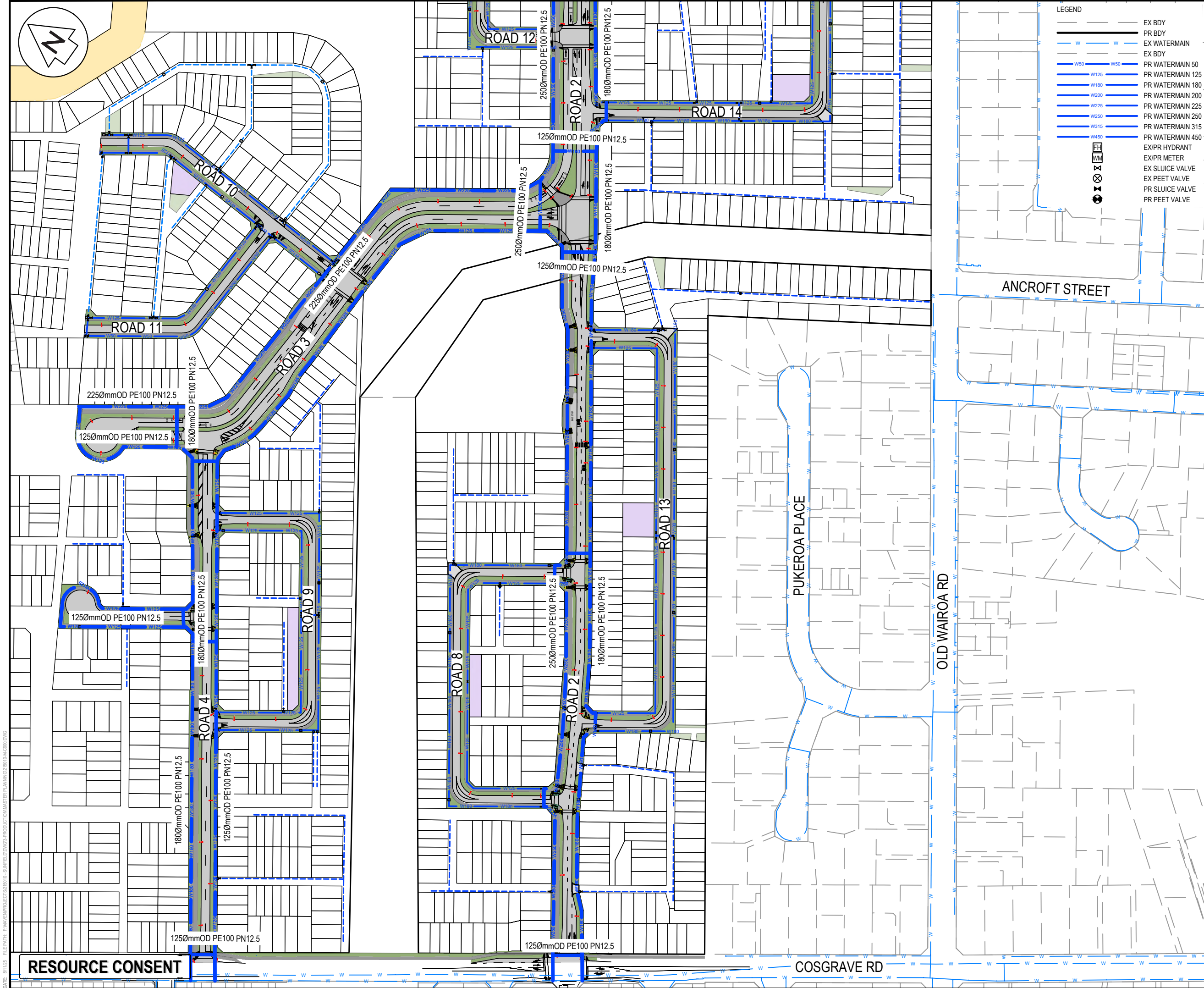
Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 5**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C605
Rev	A

RESOURCE CONSENT

COSGRAVE RD

DATE: 8/1/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCT\ACTION MASTER PLAN\N0215010-M-C600.DWG



LEGEND	
	EX BDY
	PR BDY
	EX WATERMAIN
	EX BDY
	PR WATERMAIN 50
	PR WATERMAIN 125
	PR WATERMAIN 180
	PR WATERMAIN 200
	PR WATERMAIN 225
	PR WATERMAIN 250
	PR WATERMAIN 315
	PR WATERMAIN 450
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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 - MINIMUM COVER SHALL BE:
ROADS AND FRONT1M OF BERM: 900mm
BERMS 600mm
SERVICE CONNECTIONS: 450mm
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A	RESOURCE CONSENT	AS	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025

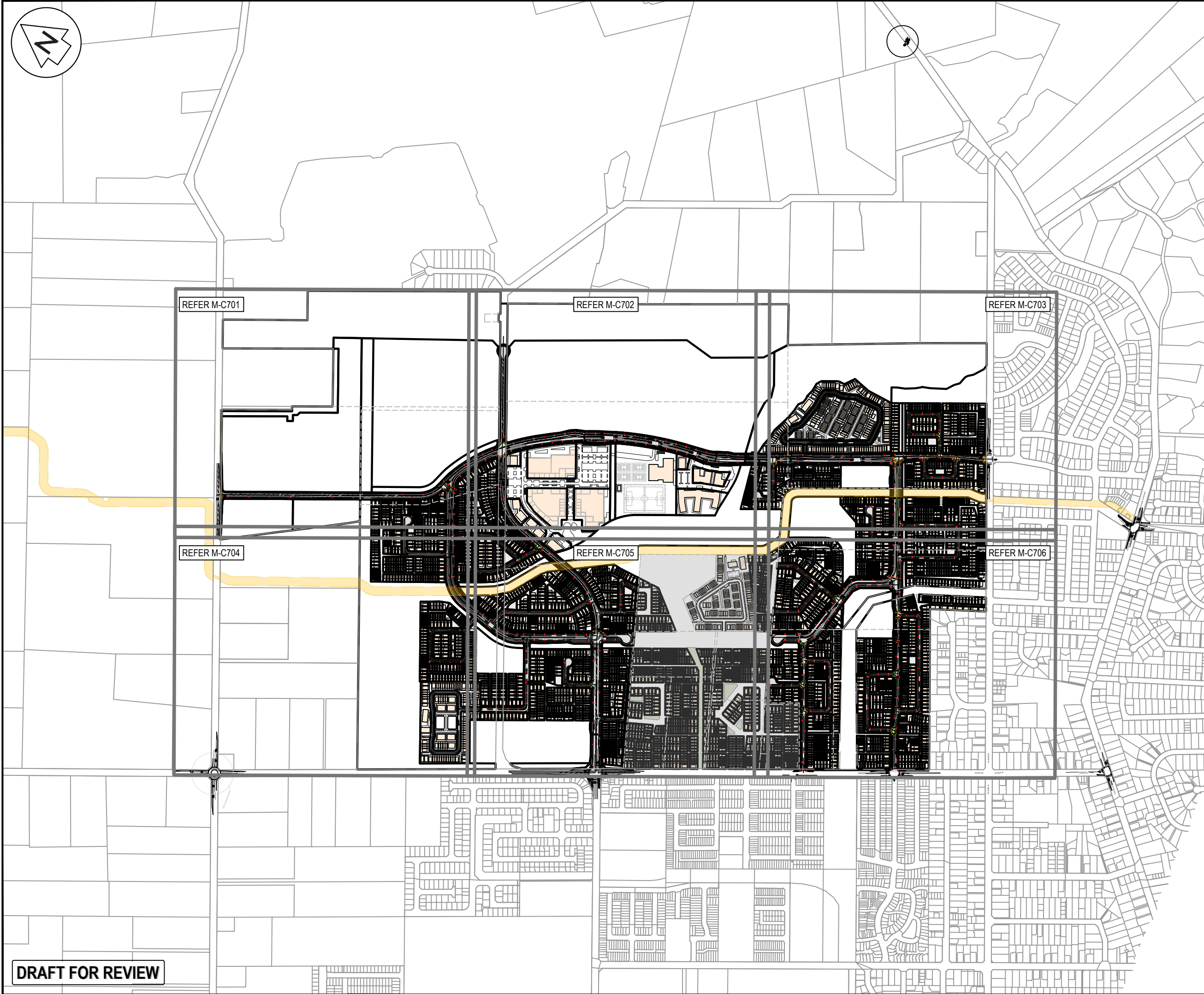


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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 6**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C606
Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS,CROSSINGS: 1000mm
BERMS: 600mm
 4. UTILITY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH PROVIDERS SPECIFICATION.
 5. SERVICE TRENCHES UNDER ROADS, ACCESSWAYS AND PATHS SHALL BE HARDFILLED BACKFILLED AND COMPACTED IN 200mm LAYERS.
 6. WORK AREAS SHALL BE REINSTATED TO AN EQUAL STANDARD BEFORE WORK STARTED.
 7. UTILITY SERVICES SHALL MAINTAIN MINIMUM CLEARANCES TO STORMWATER AND WASTEWATER ASSETS.

LEGEND

---	EX BDY
---	PR BDY
---	EX TELECOM
---	EX POWER
---	EX GAS
---	PR TELECOM
---	PR POWER
---	PR POWER HV
---	PR POWER LV
---	PR GAS
---	PR STREET LIGHT
---	PR PWR POLE
---	PR PWR CHAMBER
---	PR PWR PLINTH
---	PR PWR RMU
---	PR TRANSFORMER
---	PR PWR PILAR
---	PR TELECOM PLINTH
---	PR TELECOM CHAMBER

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	KN	11/2024	
Checked	JP/LC	02/2025	



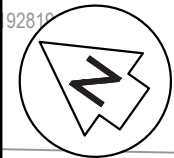
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED OVERVIEW
UTILITIES
PLAN**

Project no.	215010		
Scale	1:10000 @ A3		
Cad file	215010-M-C700.DWG		
Drawing no.	M-C700	Rev	A

DRAFT FOR REVIEW



92819

LK XV DP 192819

LOT 1 DP 47508

LOT 1 BLK XV DP 22141

20982

- NOTES
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LEGEND

---	---	---	EX BDY
---	---	---	PR BDY
---	---	---	EX TELECOM
---	---	---	EX POWER
---	---	---	EX GAS
---	---	---	PR TELECOM
---	---	---	PR POWER
---	---	---	PR POWER HV
---	---	---	PR POWER LV
---	---	---	PR GAS
---	---	---	PR STREET LIGHT
---	---	---	PR PWR POLE
---	---	---	PR PWR CHAMBER
---	---	---	PR PWR PLINTH
---	---	---	PR PWR RMU
---	---	---	PR TRANSFORMER
---	---	---	PR PWR PILAR
---	---	---	PR TELECOM PLINTH
---	---	---	PR TELECOM CHAMBER

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	KN	11/2024	
Checked	JP/LC	02/2025	



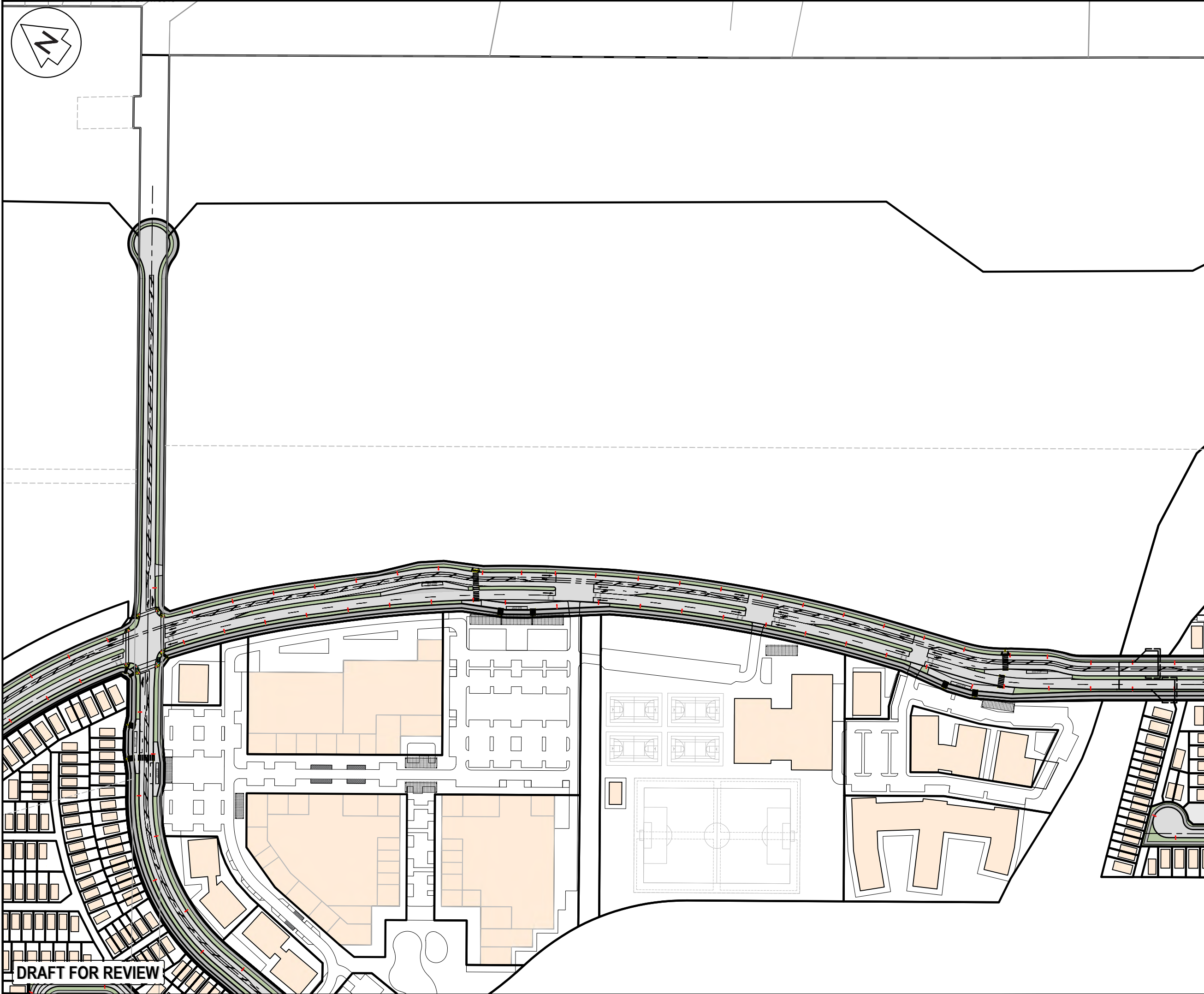
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
UTILITIES
PLAN: SHEET 1**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C700.DWG
Drawing no.	M-C701
Rev	A

DRAFT FOR REVIEW



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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LEGEND

---	---	---	EX BDY
---	---	---	PR BDY
---	---	---	EX TELECOM
---	---	---	EX POWER
---	---	---	EX GAS
---	---	---	PR TELECOM
---	---	---	PR POWER
---	---	---	PR POWER HV
---	---	---	PR POWER LV
---	---	---	PR GAS
---	---	---	PR STREET LIGHT
---	---	---	PR PWR POLE
---	---	---	PR PWR CHAMBER
---	---	---	PR PWR PLINTH
---	---	---	PR PWR RMU
---	---	---	PR TRANSFORMER
---	---	---	PR PWR PILAR
---	---	---	PR TELECOM PLINTH
---	---	---	PR TELECOM CHAMBER

A	DRAFT	SP	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	KN		11/2024
Checked	JP/LC		02/2025



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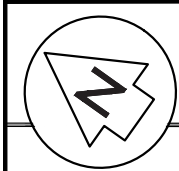
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
UTILITIES
PLAN: SHEET 2**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C700.DWG
Drawing no.	M-C702
Rev	A

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD.DWG\3-PRODUCT\MASTER PLAN\215010-M-C700.DWG

DRAFT FOR REVIEW



LOT 1 DP 11032

LOT 2 DP 316491

PT ALLOT 32 PARISH OF PAKAKURA

LOT 35 DP 506586

LOT 34 DP 506586

LOT 33 DP 506586

LOT 32 DP 506586

LOT 31 DP 506586

LOT 30 DP 506586

LOT 1 DP 549874

LOT 700 DP 506586

LOT 1 DP 506586

LOT 2 DP 506586

LOT 3 DP 506586

LOT 4 DP 506586

LOT 5 DP 506586

LOT 129 DP 513239

LOT 128 DP 513239

LOT 127 DP 513239

LOT 126 DP 513239

LOT 125 DP 513239

LOT 124 DP 513239

LOT 123 DP 513239

LOT 3 DP 504247

LOT 4 DP 504247

- NOTES
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LEGEND

- | | | | |
|-----|-----|-----|--------------------|
| --- | --- | --- | EX BDY |
| --- | --- | --- | PR BDY |
| --- | --- | --- | EX TELECOM |
| --- | --- | --- | EX POWER |
| --- | --- | --- | EX GAS |
| --- | --- | --- | PR TELECOM |
| --- | --- | --- | PR POWER |
| --- | --- | --- | PR POWER HV |
| --- | --- | --- | PR POWER LV |
| --- | --- | --- | PR GAS |
| --- | --- | --- | PR STREET LIGHT |
| --- | --- | --- | PR PWR POLE |
| --- | --- | --- | PR PWR CHAMBER |
| --- | --- | --- | PR PWR PLINTH |
| --- | --- | --- | PR PWR RMU |
| --- | --- | --- | PR TRANSFORMER |
| --- | --- | --- | PR PWR PILAR |
| --- | --- | --- | PR TELECOM PLINTH |
| --- | --- | --- | PR TELECOM CHAMBER |

A	DRAFT	SP	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	CE	11/2024	
Drawn	KN	11/2024	
Checked	JP/LC	02/2025	



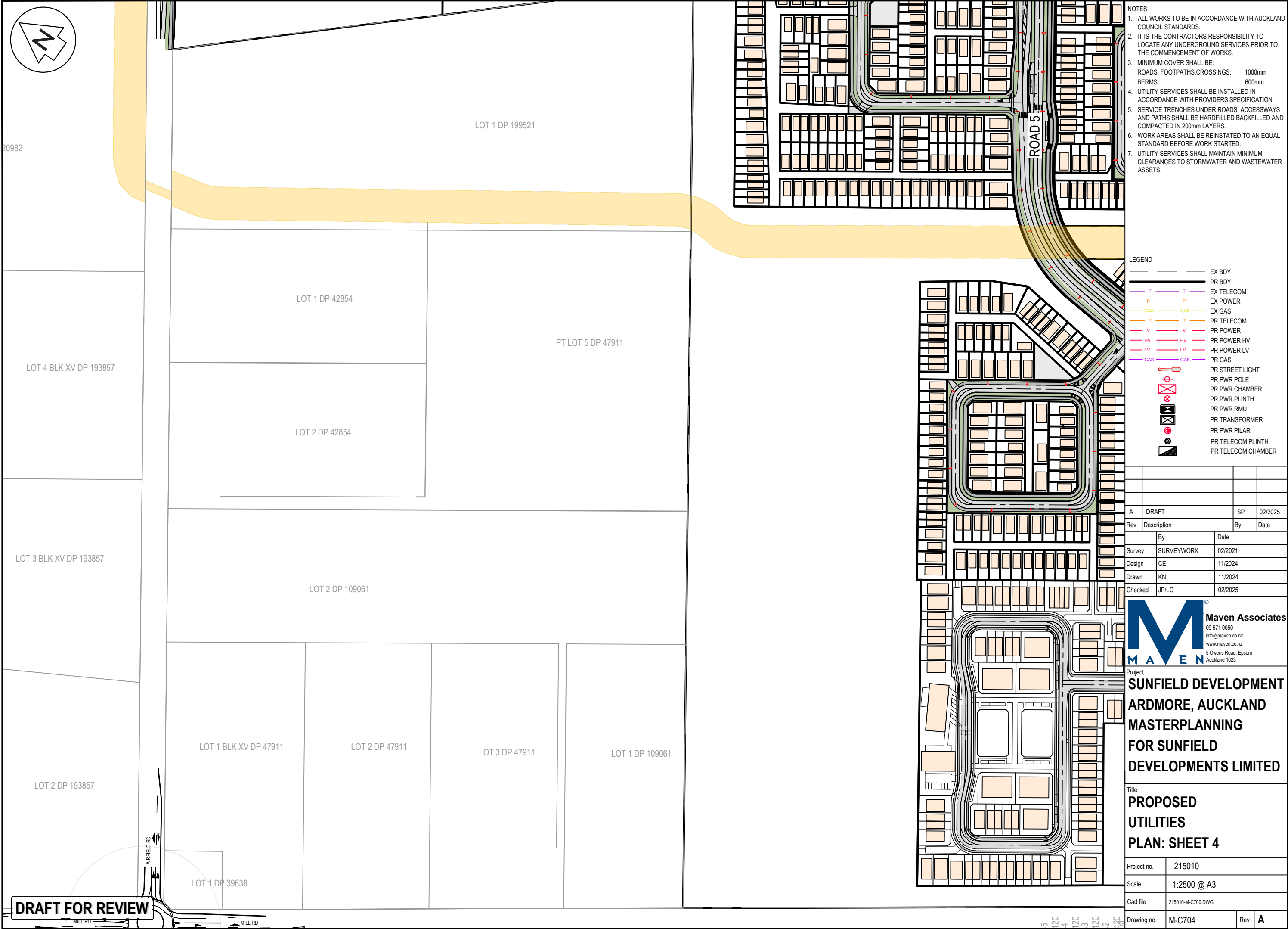
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
UTILITIES
PLAN: SHEET 3**

Project no.	215010		
Scale	1:2500 @ A3		
Cad file	215010-M-C700.DWG		
Drawing no.	M-C703	Rev	A

DRAFT FOR REVIEW

DATE: 8/10/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCT\ACTION MASTER PLAN\N0215010-M-C700.DWG





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| | | | |
| | | | |
| A | RESOURCE CONSENT | SP | 02/2025 |
| Rev | Description | By | Date |
| | By | Date | |
| Survey | SURVEYWORX | 02/2021 | |
| Design | CE | 11/2024 | |
| Drawn | KN | 11/2024 | |
| Checked | JP/LC | 02/2025 | |

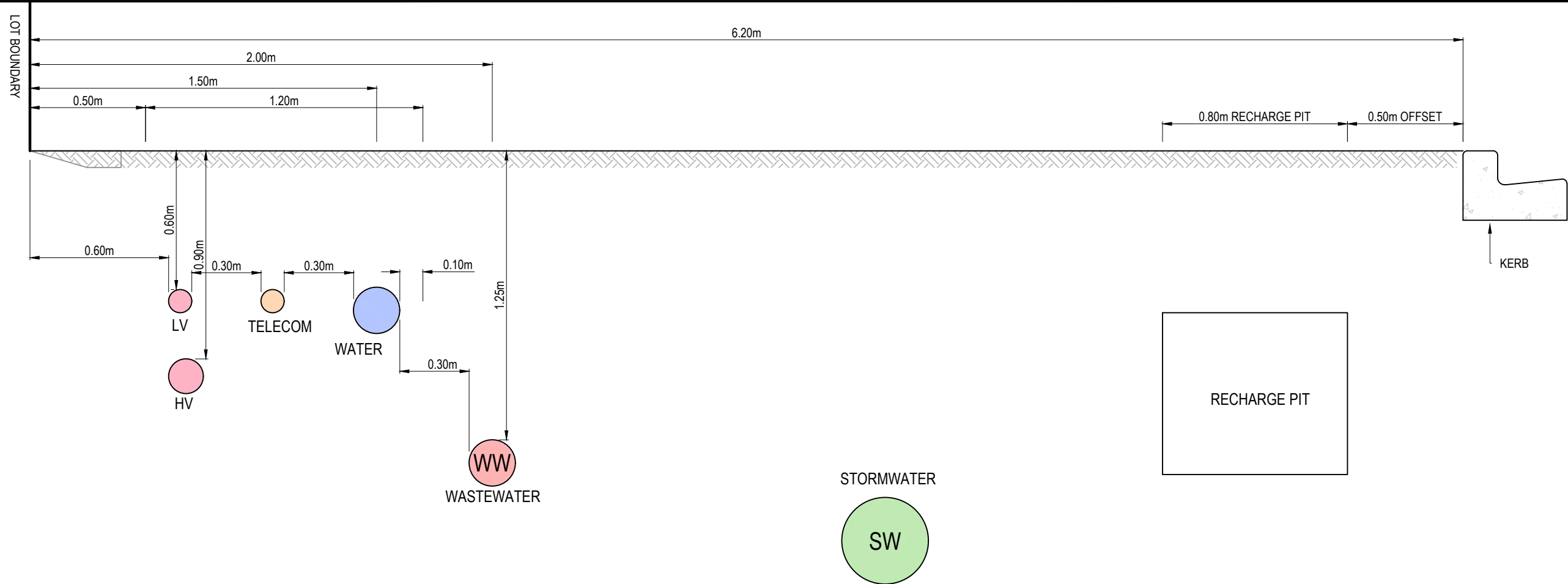


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Cad file	215010-M-C700.DWG		
Drawing no.	M-C710	Rev	A

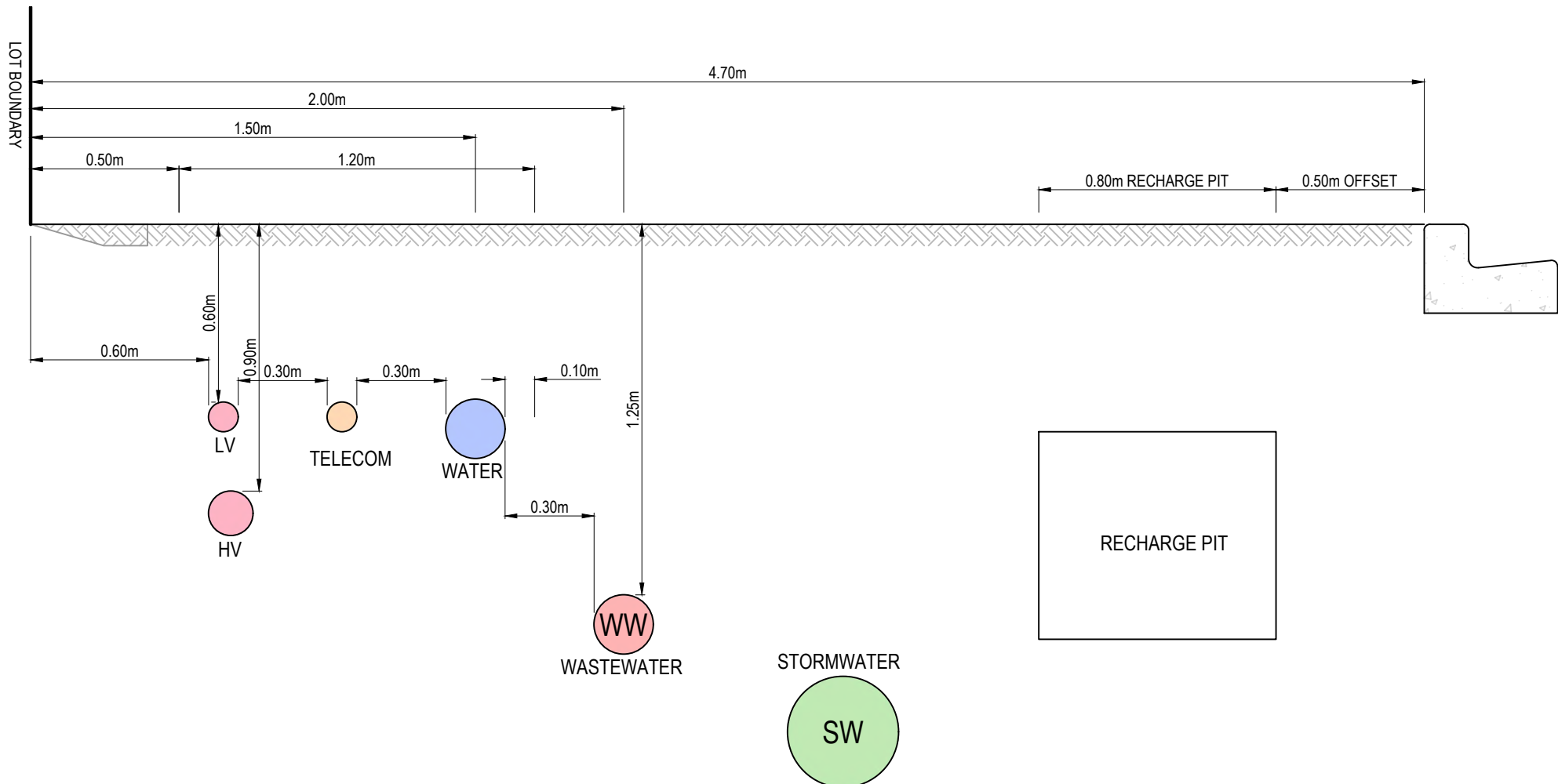


RESOURCE CONSENT

DATE: 8/11/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C700.DWG



TYPICAL COMMON SERVICE TRENCH LONGSECTION (6.2 M ROAD BERM)
SCALE 1:20 @ A3



TYPICAL COMMON SERVICE TRENCH LONGSECTION (4.7 M ROAD BERM)
SCALE 1:20 @ A3

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
 3. MINIMUM COVER SHALL BE:
ROADS, FOOTPATHS, CROSSINGS: 1000mm
BERMS: 600mm
 4. UTILITY SERVICES SHALL BE INSTALLED IN ACCORDANCE WITH PROVIDERS SPECIFICATION.
 5. SERVICE TRENCHES UNDER ROADS, ACCESSWAYS AND PATHS SHALL BE HARDFILLED BACKFILLED AND COMPACTED IN 200mm LAYERS.
 6. WORK AREAS SHALL BE REINSTATED TO AN EQUAL STANDARD BEFORE WORK STARTED.
 7. UTILITY SERVICES SHALL MAINTAIN MINIMUM CLEARANCES TO STORMWATER AND WASTEWATER ASSETS.

A	RESOURCE CONSENT	SP	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	KN		11/2024
Checked	JP/LC		02/2025

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTERPLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
UTILITIES
DETAILS SHEET 2**

Project no.	215010
Scale	##### @ A3
Cad file	215010-M-C700.DWG
Drawing no.	M-C711
Rev	A

RESOURCE CONSENT



Transport Design Manual | Standard Engineering Details

1. Concrete Grades:
Insitu concrete 20MPa
Extruded concrete 20MPa, fiber reinforced
25 MPa fibre reinforced concrete for slip-form
2. Bedding:
To consist of 300mm (min) GAP65 subbase
in roads (where CBR > 5).
3. Joining:
Extruded channels chocking control
joints formed or saw cut to a minimum depth of
30mm at max 3.0m intervals for unreinforced
channels and 3.0m (max) for reinforced
channels/nibs. If there is a footpath adjacent to the
channel/nib the sawcut must coincide with the
channel/nib joint point.

NOTES:

1. 25 M
2. Bed To c in re
3. Join Extr joint 30m char char con



Transport Design Manual | Standard Engineering Details

1. 25 MPa fibre reinforced concrete for slip-form.
2. Bedding:
To consist of 300mm (min) GAP65 subbase in roads (where CBR>5).
3. Jointing:
Extruded channels cracking control joints formed or saw cut to a minimum depth of 30mm at max 3.00m intervals for unreinforced channels and 3.00m (max) for reinforced channels/nib. If there is a footpath adjacent to the channel/nib the sawcut must coincide with the concrete footpath joint.

NO

1.

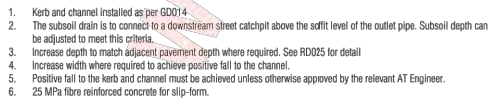
2.

3.

4.

5.

6.



KC0007

Transport Design Manual | Standard Engineering Details

1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.



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Title
ROADING STANDARD DETAILS SHEET 2

Project no.	215010		
Scale	N.T.S		
Cad file	215010-M-C800.DWG		
Drawing no.	M-C800-1	Rev	A

DRAFT FOR REVIEW

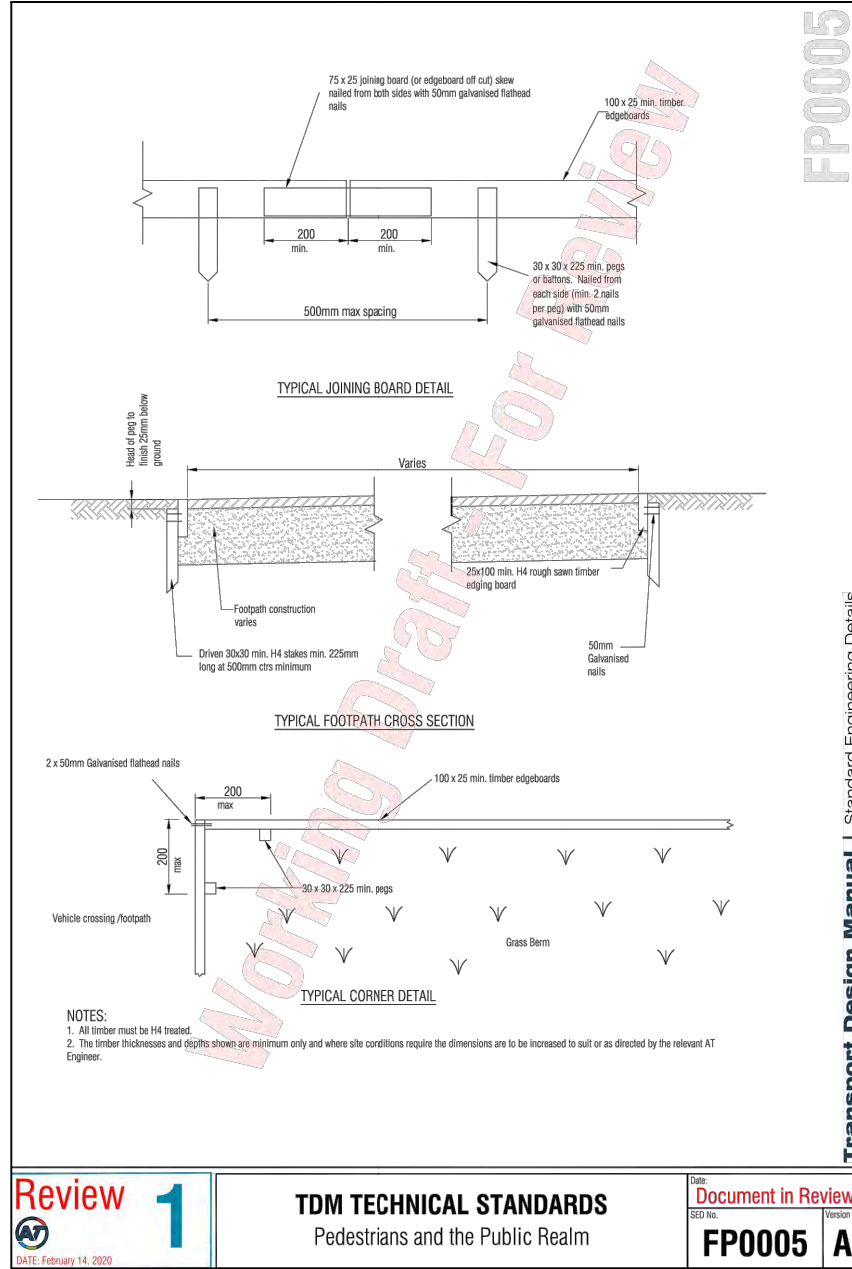
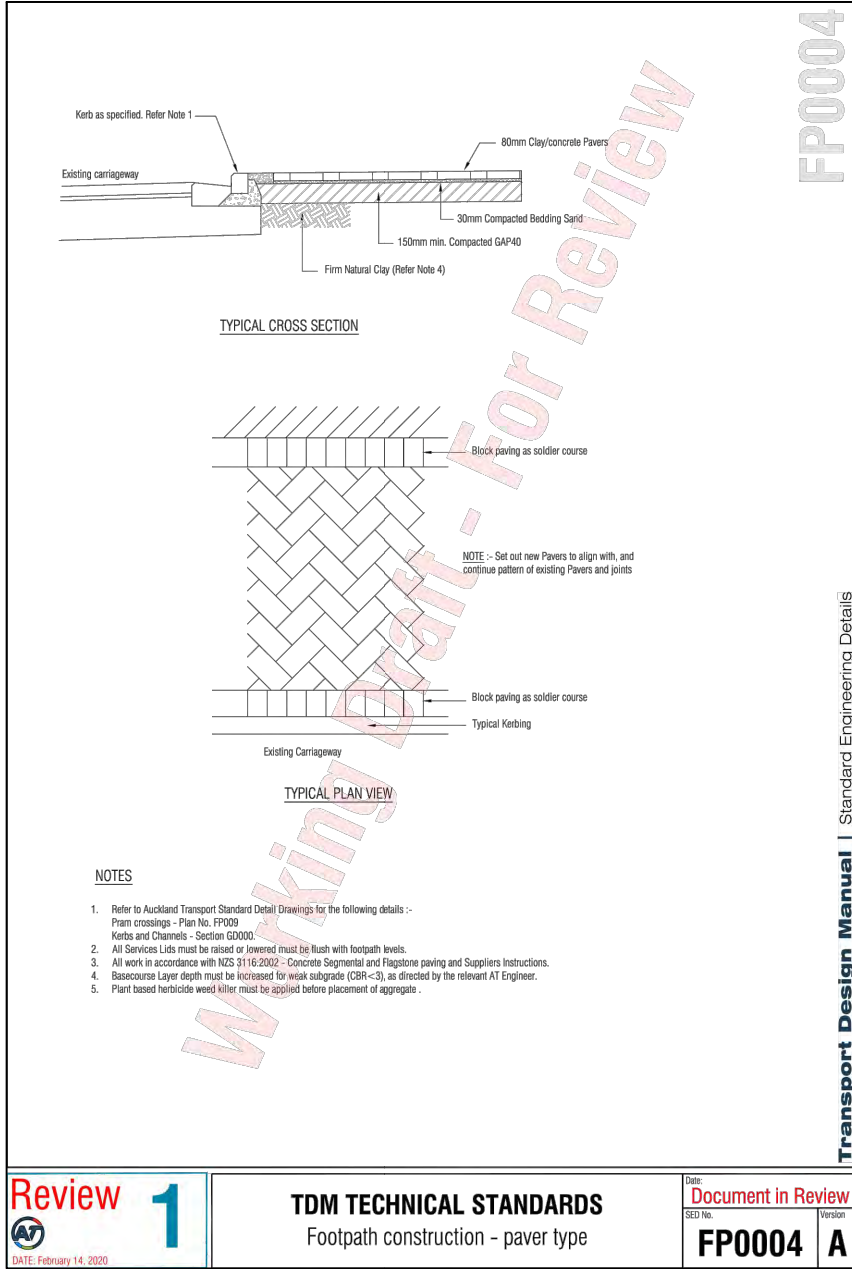
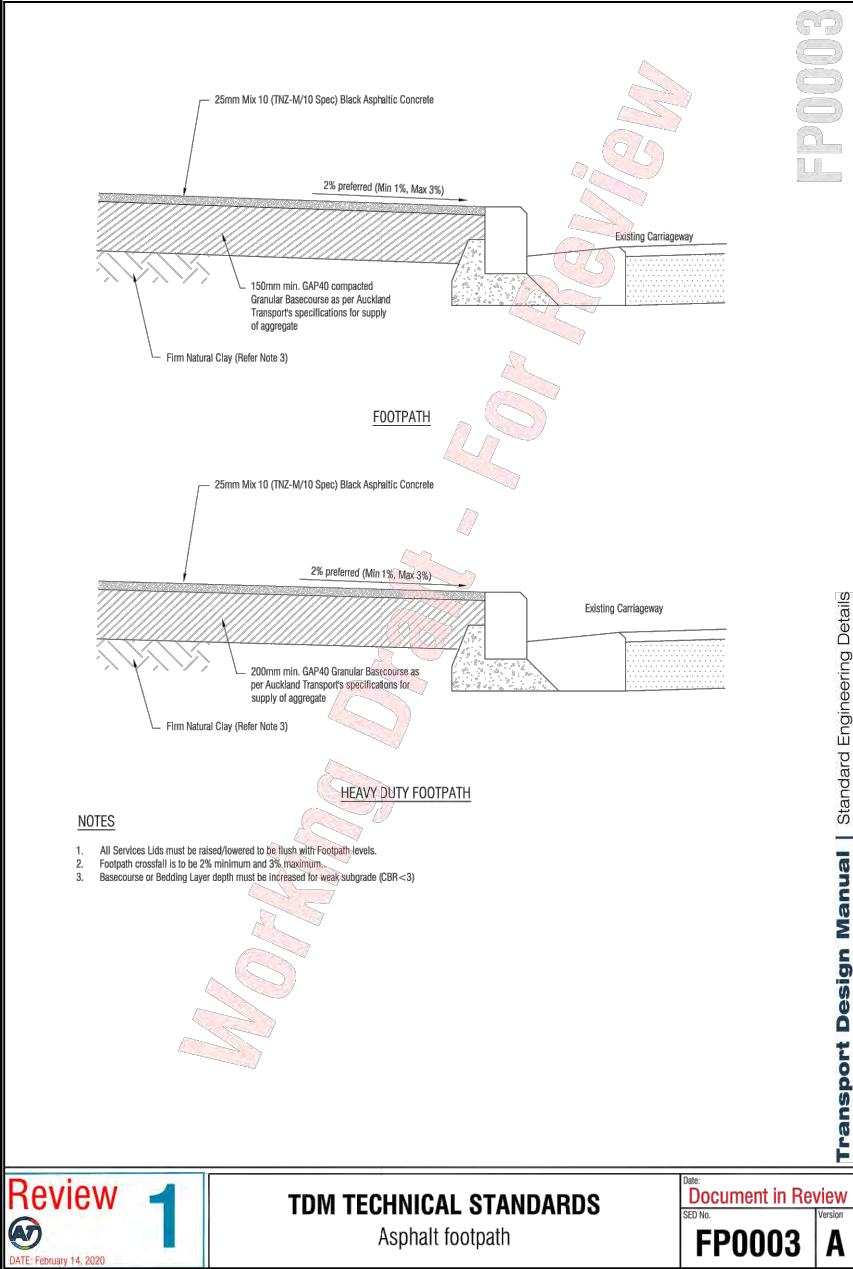


Project no.	215010		
Scale	N.T.S		
Cad file	215010-M-C800.DWG		
Drawing no.	M-C800-2	Rev	A

Review 1  (DATE: February 14, 2020)	TDM TECHNICAL STANDARDS Longitudinal joints and stitching bar details	Date: Document in Review <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%;">SED No:</td> <td style="width: 50%;">Version</td> </tr> <tr> <td style="text-align: center;">FP0002</td> <td style="text-align: center;">A</td> </tr> </table>	SED No:	Version	FP0002	A
SED No:	Version					
FP0002	A					

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DATE: 8/11/25 FILEPATH: F:\Maven\PROJECTS\19101 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\19101-M-C800.DWG



NOTES				
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.				
A	DRAFT	SP	02/2025	
Rev	Description	By	Date	
		By	Date	
Survey	--	--	--	
Design	--	--	--	
Drawn	SP	11/2024		
Checked	JP/LC	02/2025		
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Project				
SUNFIELD DEVELOPMENT				
ARDMORE, AUCKLAND				
MASTERPLANNING				
FOR SUNFIELD				
DEVELOPMENTS LIMITED				
Title				
ROADING				
STANDARD DETAILS				
SHEET 4				
Project no.	215010			
Scale	N.T.S			
Cad file	215010-M-C800.DWG			
Drawing no.	M-C800-3	Rev	A	

DRAFT FOR REVIEW

