

- 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 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	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORK		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  
**STORMWATER POST-  
 DEVELOPEMENT FLOOD  
 PLAN**

Project no.	215010
Scale	1:7500 @ A3
Cad file	215010-M-C491.DWG
Drawing no.	M-C491
Rev	<b>A</b>

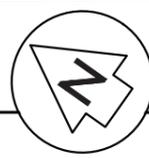
**RESOURCE CONSENT**

DATE: 2/25 FILE PATH: F:\MVEN\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\MASTER PLAN\215010-M-C491.DWG









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

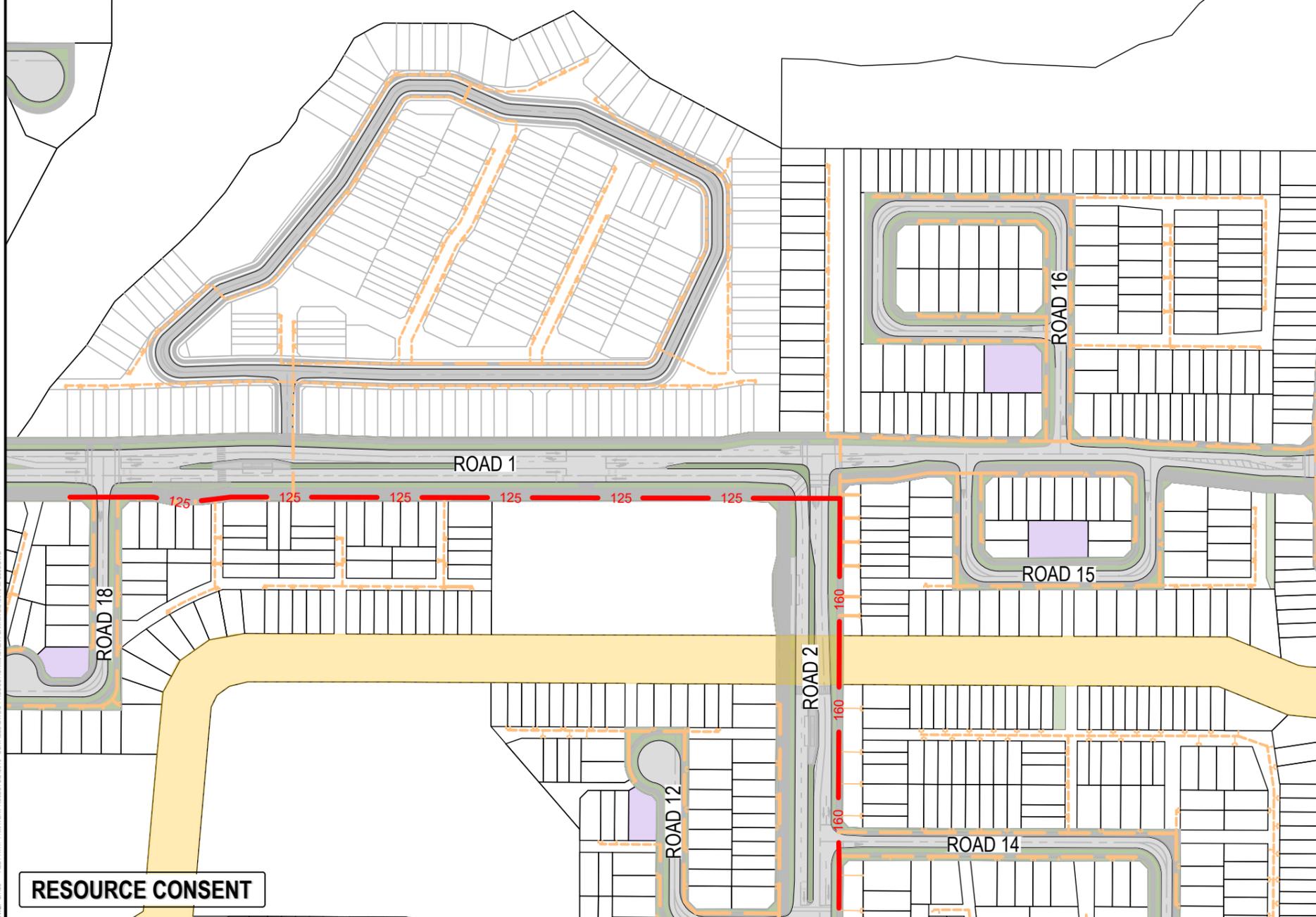
- WASTEWATER NOTES**
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
  2. ALL PRIVATE DRAINAGE WORKS TO COMPLY WITH THE NEW ZEALAND BUILDING CODE.
  3. ALL DRAINAGE WORKS SHALL BE CARRIED OUT UNDER THE SUPERVISION OF A REGISTERED DRAIN LAYER AND IN ACCORDANCE WITH CURRENT HEALTH AND SAFETY PRACTICES. WHERE REQUIRED, DRAINAGE WORKS ARE TO BE UNDERTAKEN BY AN APPROVED LICENSED CONTRACTOR (A.L.C.)
  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.

OLD WAIROA RD

NOLA DAWN AVENUE

PAKARAKA DRIVE

OLD WAIROA RD



A	RESOURCE CONSENT	RK	02/2025
Rev	Description	By	Date
	Survey	SURVEYWORK	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-C503
Rev	<b>A</b>

**RESOURCE CONSENT**

DATE: 2/25 FILE PATH: F:\MVEN\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\MASTER PLAN\N0215010-M-C500.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

AIRFIELD RD

LOT 3 BLK XV DP 193857

LOT 2 DP 109061

LOT 1 BLK XV DP 47911

LOT 2 DP 47911

LOT 3 DP 47911

LOT 1 DP 109061

DP 39638

MILL RD

- LEGEND**
- EXISTING BDY
  - - - PROPOSED BDY
  - EX WASTEWATER
  - - - PR WASTEWATER PRIV
  - - - PR WASTEWATER
  - - - PR WASTEWATER GRAVITY
  - ⊙ EX/PR WWMH
  - 110 110
  - 125 125
  - 140 140
  - 160 160
  - 180 180
  - 250 250
  - PR WASTEWATER BULK MAIN LPS
  - ⊗ PR BDY KIT - SINGLE
  - ⊗ PR BDY KIT - DOUBLE
  - EX FIRSTGAS EASEMENT

- WASTEWATER NOTES**
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A	RESOURCE CONSENT	RK	02/2025
Survey	SURVEYWORK		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
Checked	JP/LC		02/2025

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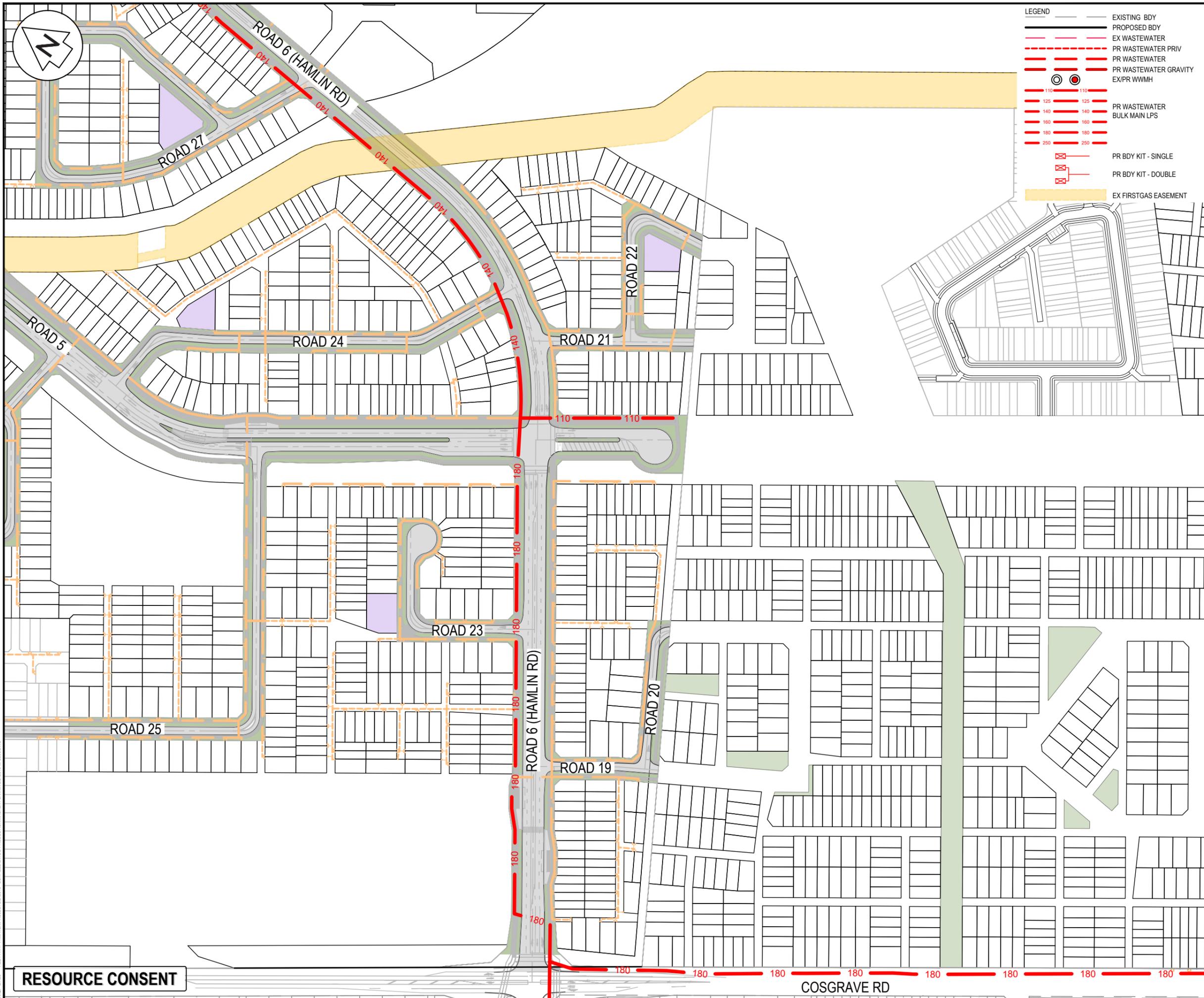
Project  
**SUNFIELD DEVELOPMENT  
 ARDMORE, AUCKLAND  
 MASTERPLANNING  
 FOR SUNFIELD  
 DEVELOPMENTS LIMITED**

Title  
**PROPOSED  
 WASTEWATER LPS  
 BULKMAIN PLAN**

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

DATE: 27/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N\215010-M-C500.DWG

**RESOURCE CONSENT**



**LEGEND**

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

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A	RESOURCE CONSENT	RK	02/2025
Survey	SURVEYWORX		02/2021
Design	CE		11/2024
Drawn	RK		01/2025
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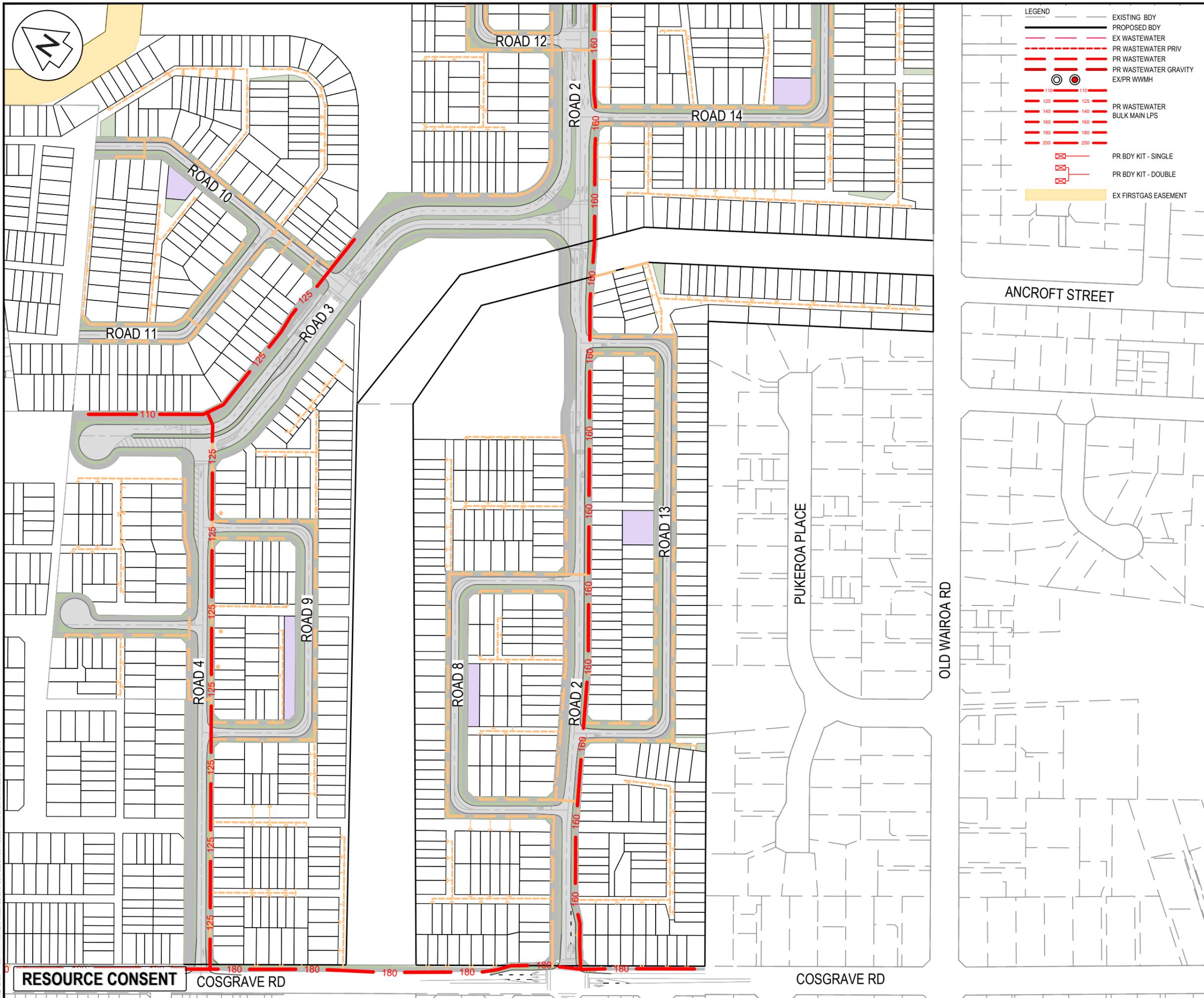
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Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C505
Rev	<b>A</b>

**RESOURCE CONSENT**

DATE: 2/25 FILE PATH: F:\MVEN\PROJECT\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N\215010-M-C500.DWG



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

Title  
**PROPOSED  
 WASTEWATER LPS  
 BULKMAIN PLAN**

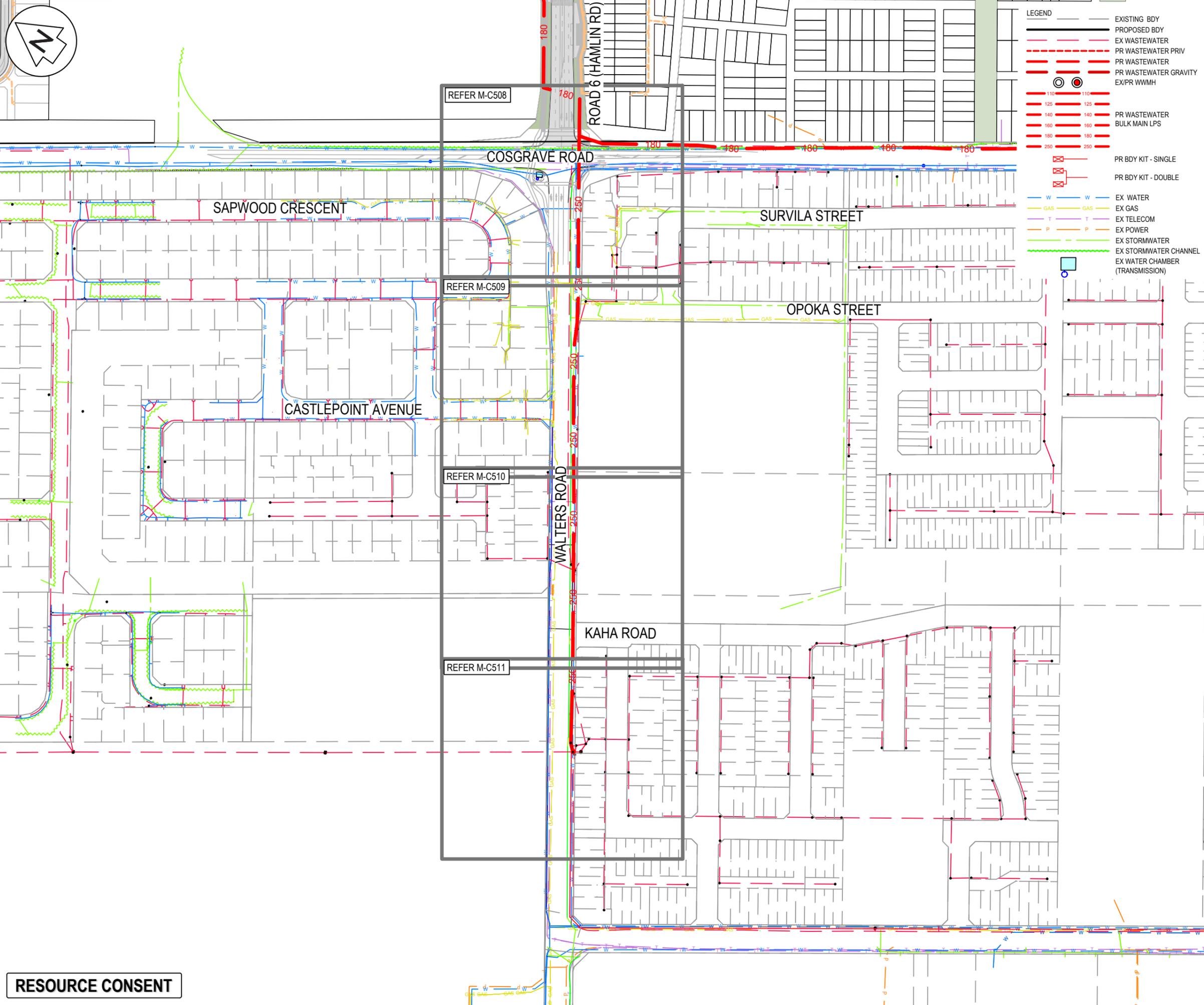
Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C500.DWG
Drawing no.	M-C506
Rev	<b>A</b>

DATE: 2/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N\215010-M-C500.DWG

**RESOURCE CONSENT**

COSGRAVE RD

COSGRAVE RD



**LEGEND**

---	EXISTING BDY
---	PROPOSED BDY
---	EX WASTEWATER
---	PR WASTEWATER PRIV
---	PR WASTEWATER
---	PR WASTEWATER GRAVITY
---	EX/PR WMMH
110	110
125	125
140	140
160	160
180	180
250	250
---	PR BDY KIT - SINGLE
---	PR BDY KIT - DOUBLE
W	EX WATER
GAS	EX GAS
T	EX TELECOM
P	EX POWER
---	EX STORMWATER
---	EX STORMWATER CHANNEL
---	EX WATER CHAMBER (TRANSMISSION)

- WASTEWATER NOTES**
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Rev	Description	By	Date
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Drawn	RK		01/2025
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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	<b>A</b>

**RESOURCE CONSENT**

DATE: 2/25 FILE PATH: F:\MVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C500.DWG



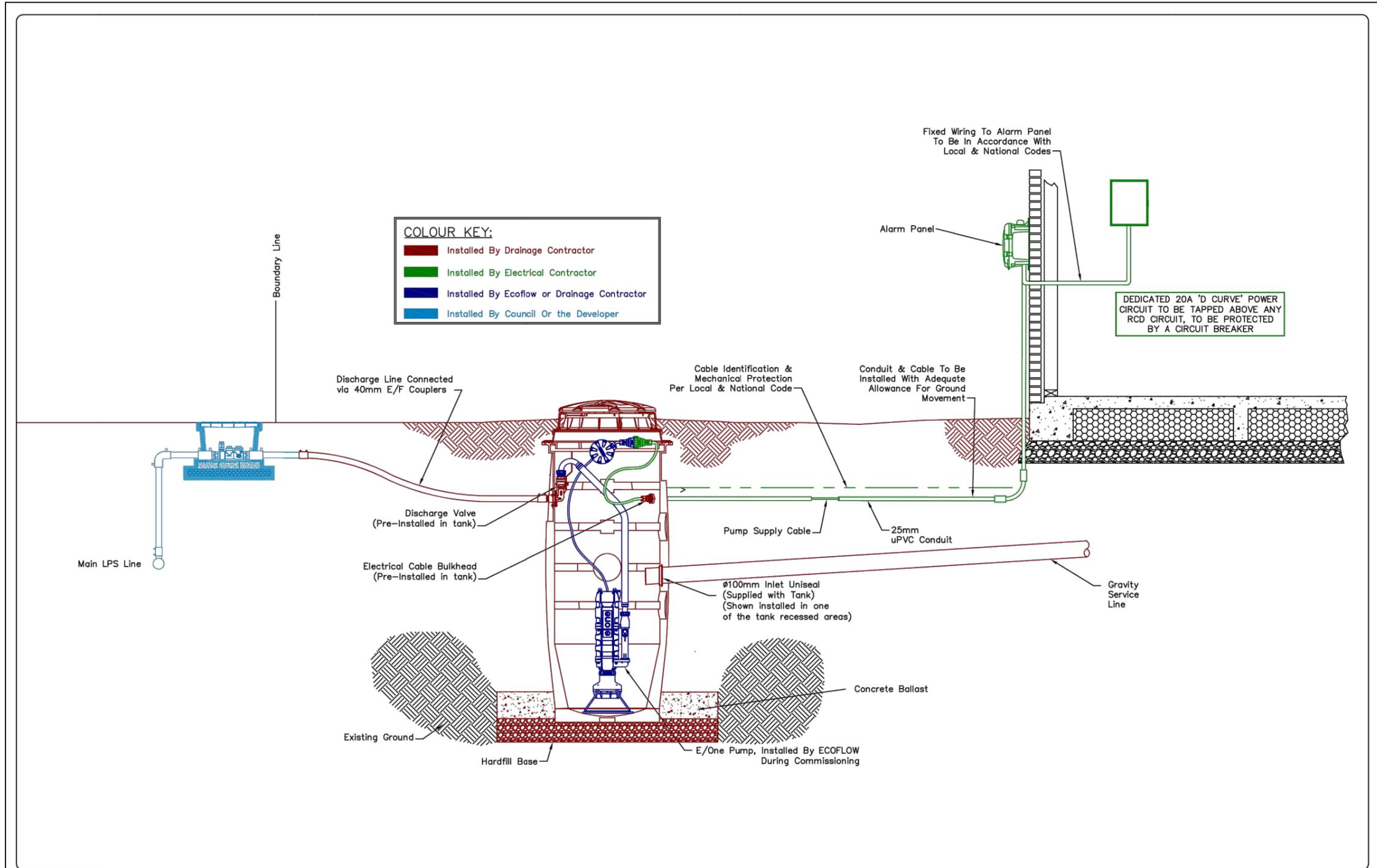
**LEGEND**

	EXISTING BDY
	PROPOSED BDY
	EX WASTEWATER
	PR WASTEWATER PRIV
	PR WASTEWATER
	PR WASTEWATER GRAVITY
	EX/PR WMMH
	110
	125
	140
	160
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**COLOUR KEY:**

	Installed By Drainage Contractor
	Installed By Electrical Contractor
	Installed By Ecoflow or Drainage Contractor
	Installed By Council Or the Developer

- WASTEWATER NOTES**
1. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE SERVICES LIMITED CODE OF PRACTICE.
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  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.

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

**M** Maven Associates  
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 info@maven.co.nz  
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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-C540
Rev	<b>A</b>



**AUCKLAND - (Head Office)**  
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**CHRISTCHURCH**  
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 Hornby, Christchurch  
 Ph (03)349-2506

[www.ecoflow.co.nz](http://www.ecoflow.co.nz)  
 Email: info@ecoflow.co.nz

DRAWN	MC	4/10/2018
CHECKED		
CLIENT APPROVED		
CLIENT		

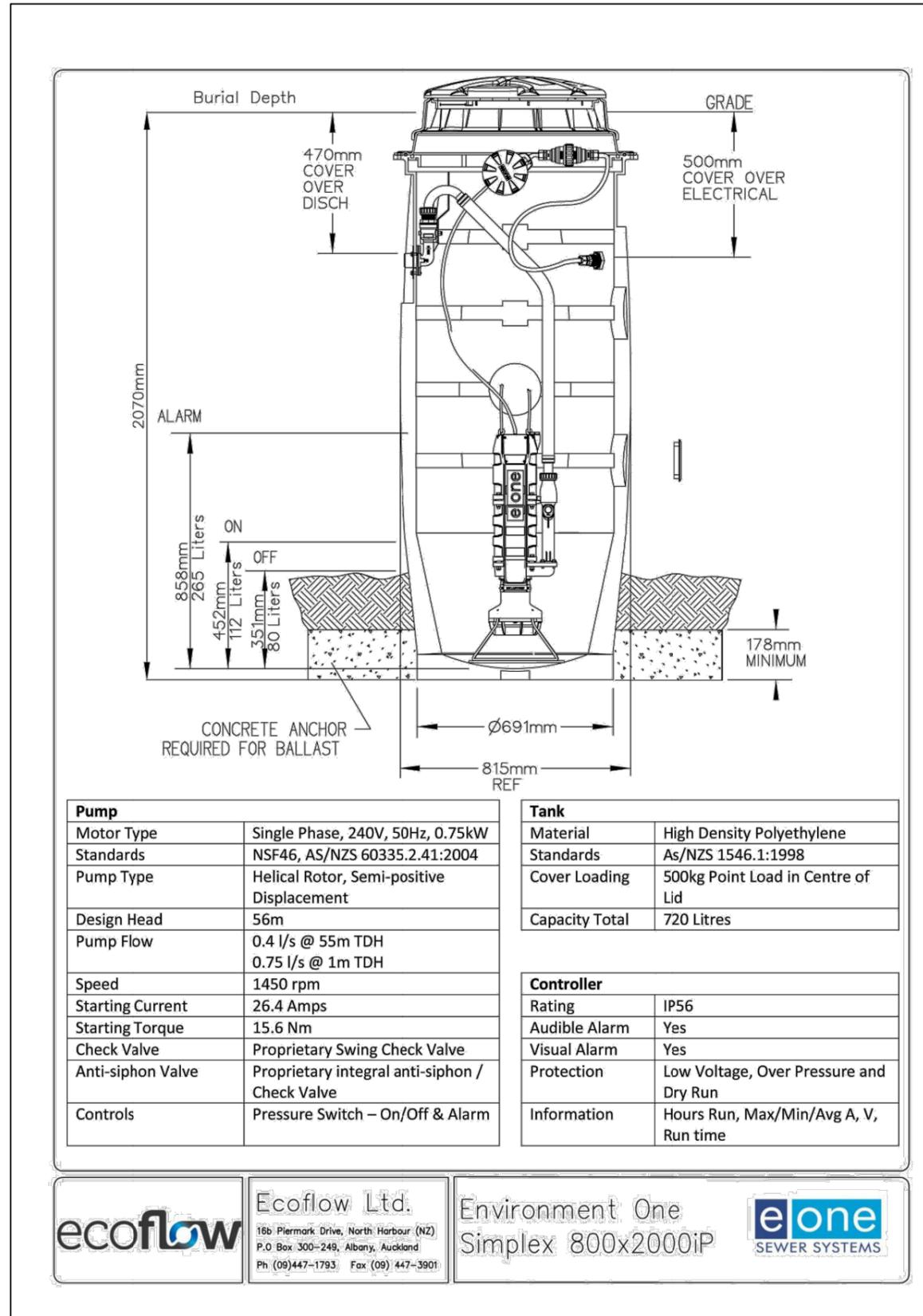
TITLE  
 System Layout  
 Environment One Simplex 2010iP

Job	
REVISION	SCALE
1	NTS AT
Dwg No.	1



**RESOURCE CONSENT**

DATE: 2025 FILEPATH: F:\MVEN\PROJECTS\10101 - SUNFIELD\PRODUCTION\MASTER PLANNING\1010101\M-C540.DWG



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 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

- WASTEWATER NOTES**
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Rev	Description	By	Date
A	RESOURCE CONSENT	RK	02/2025

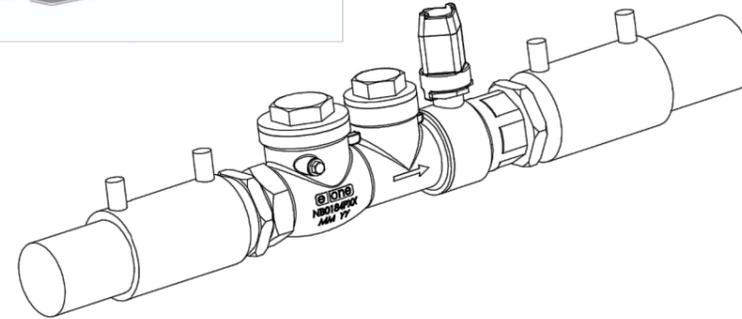
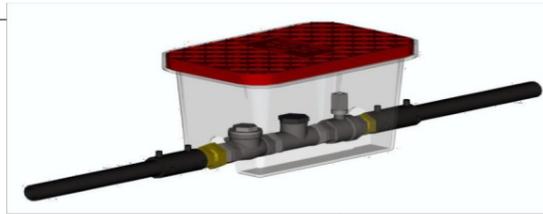
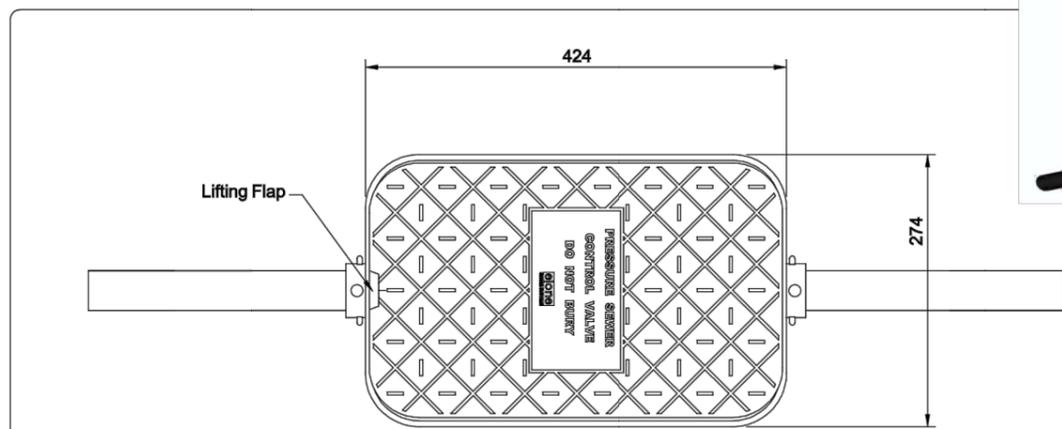
**Maven Associates**  
09 571 0050  
info@maven.co.nz  
www.maven.co.nz  
5 Owens Road, Epsom  
Auckland 1023

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

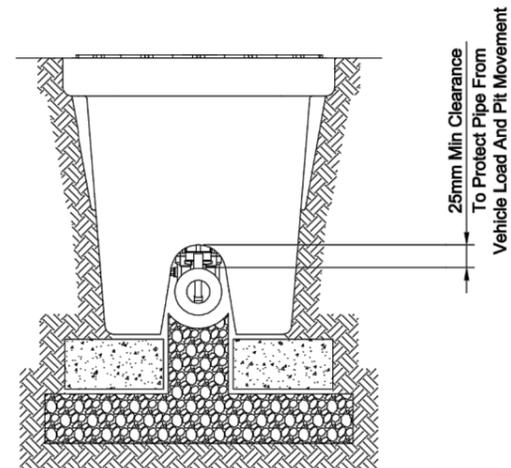
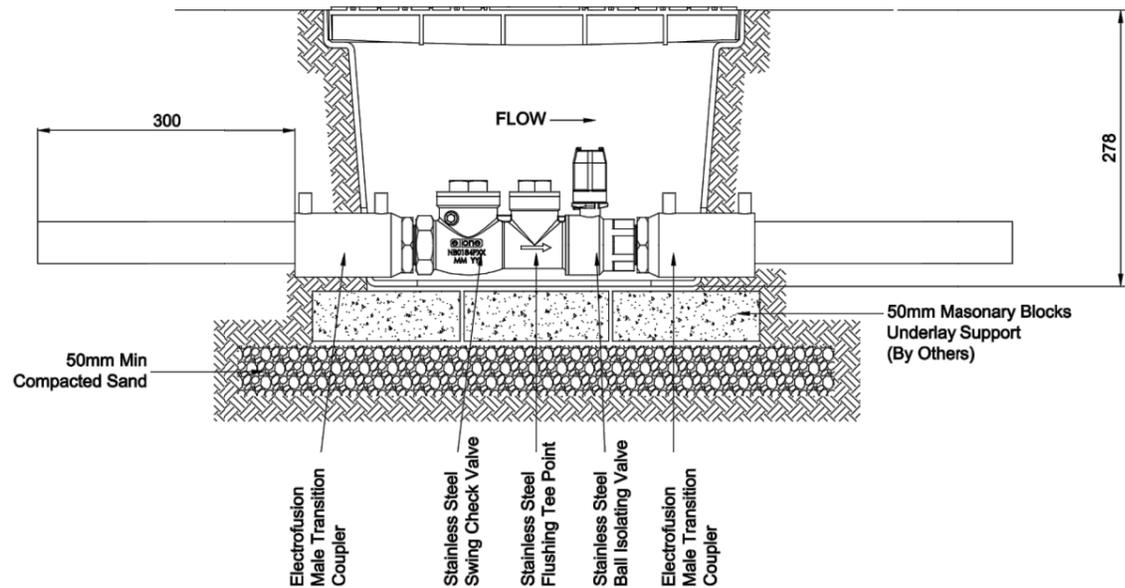
Title  
**PROPOSED LPS  
WASTEWATER  
STANDARD DETAIL**

Project no.	215010
Scale	N.T.S
Cad file	215010-M-CS40.DWG
Drawing no.	M-C541
Rev	<b>A</b>

**RESOURCE CONSENT**



Each boundary kit supplied with 300mm length DN40 PE100 PN16 stubs each end E/F welded and complete unit pressure tested to 16 Bar by Ecoflow



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

	BY	DATE
DRAWN	MC	17/1/13
CHECKED	JM	17/1/13
CLIENT APPROVED		

TITLE  
**Environment One - Boundary Kit  
With Extended Stubs  
New Zealand Standard**

CLIENT	SCALE	
	<b>1:20</b>	
	AT A3	
REVISION	Job	Dwg No.

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



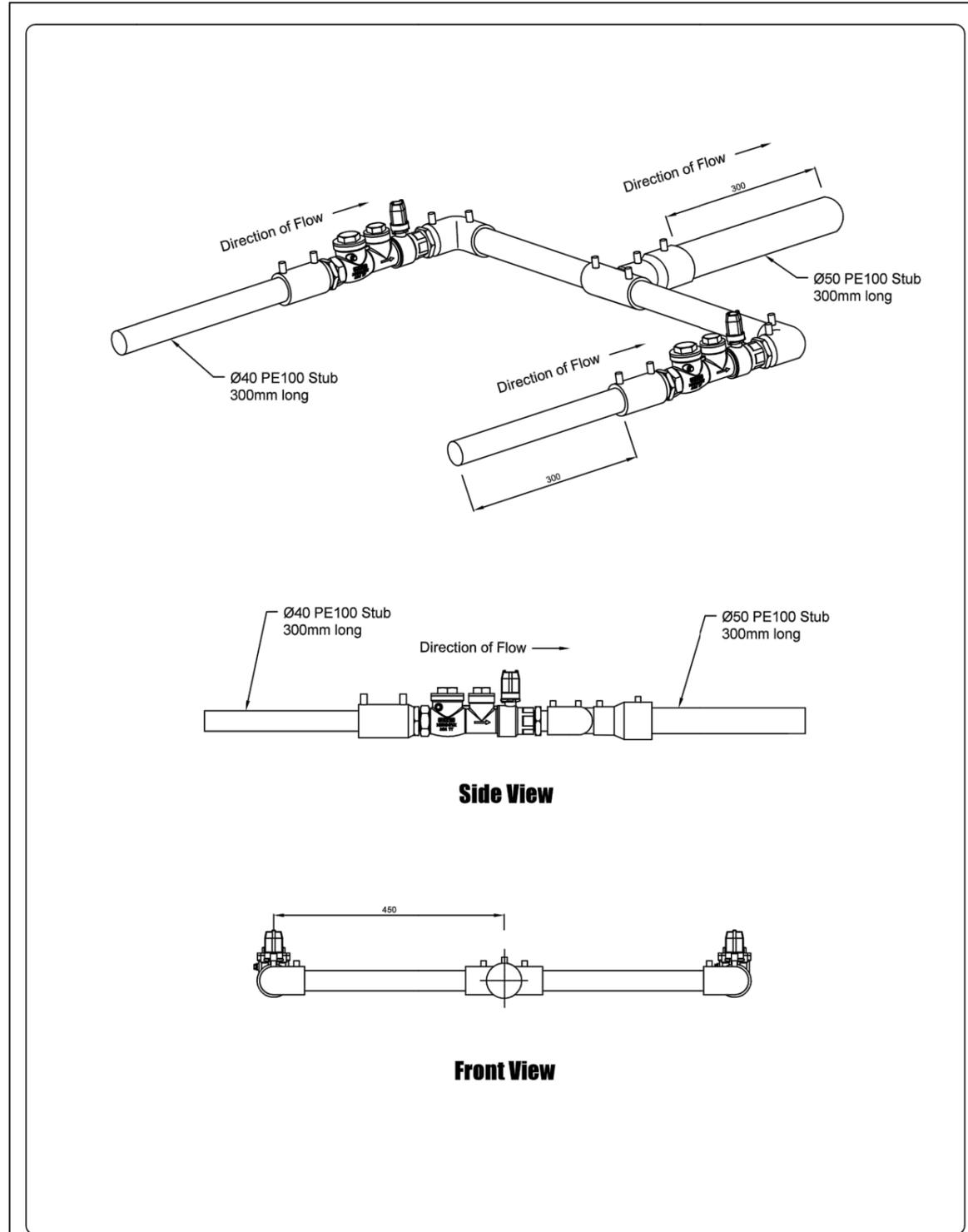
Project  
**SUNFIELD DEVELOPMENT  
ARDMORE, AUCKLAND  
MASTERPLANNING  
FOR SUNFIELD  
DEVELOPMENTS LIMITED**

Title  
**PROPOSED LPS  
WASTEWATER  
STANDARD DETAIL**

Project no.	215010
Scale	N.T.S
Cad file	215010-M-CS40.DWG
Drawing no.	M-C542
Rev	<b>A</b>

RESOURCE CONSENT

DATE: 2025 FILEPATH: F:\M\EN\PROJECTS\215010 - SUNFIELD\3-PRODUCTION\MASTER PLANNING\215010-M-CD410.DWG



**ecoflow**  
Sewer Made Simple  
[www.ecoflow.co.nz](http://www.ecoflow.co.nz)  
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**AUCKLAND - (Head Office)**  
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**CHRISTCHURCH**  
15 Anchorage Road, Hornby  
Hornby, Christchurch  
Ph (03) 349-2506

Environment One  
Double Boundary Kit  
900mm Wide

**e one**  
SEWER SYSTEMS

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

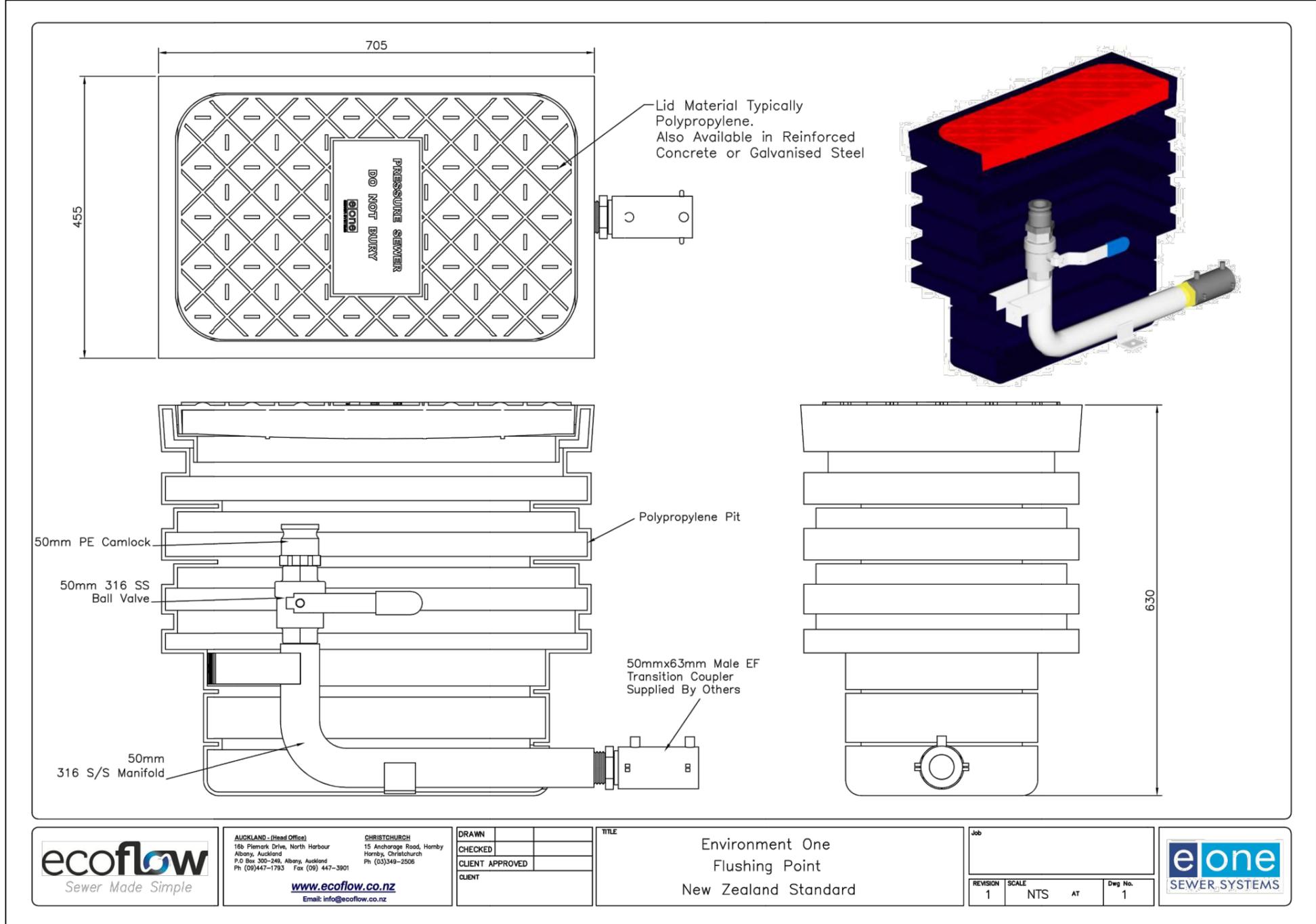
**M** **Maven Associates**  
09 571 0050  
info@maven.co.nz  
www.maven.co.nz  
5 Owens Road, Epsom  
Auckland 1023

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

Title  
**PROPOSED LPS  
WASTEWATER  
STANDARD DETAIL**

Project no.	215010
Scale	N.T.S
Cad file	215010-M-CS40.DWG
Drawing no.	M-C543
Rev	<b>A</b>

**RESOURCE CONSENT**



- WASTEWATER NOTES
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Rev	Description	By	Date
A	RESOURCE CONSENT	RK	02/2025
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	<b>A</b>



**AUCKLAND - (Head Office)**  
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 Albany, Auckland  
 P.O. Box 300-240, Albany, Auckland  
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**CHRISTCHURCH**  
 15 Anchorage Road, Hornby  
 Hornby, Christchurch  
 Ph. (03) 349-2508

DRAWN	
CHECKED	
CLIENT APPROVED	
CLIENT	

TITLE  
 Environment One  
 Flushing Point  
 New Zealand Standard

REVISION	SCALE	Dwg No.
1	NTS AT	1



**RESOURCE CONSENT**

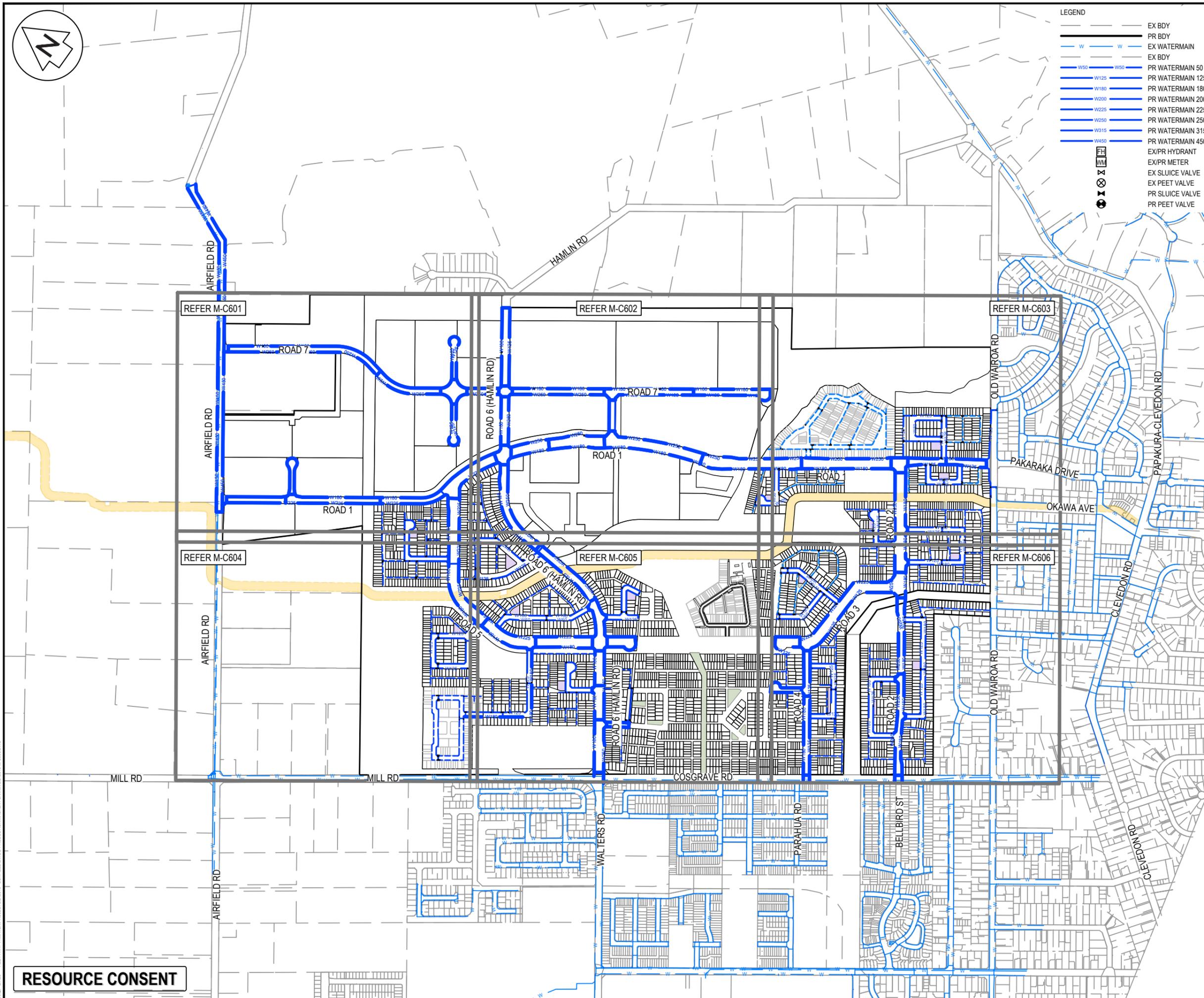
DATE: 2025 FILEPATH: F:\Maven\PROJECTS\215010 SUNFIELD\DWG\PRODUCTION\MASTER PLANNING\215010-M-C540.DWG



**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.
  - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
  - MINIMUM COVER SHALL BE:
    - ROADS AND FRONT 1M OF BERM: 900mm
    - BERMS: 600mm
    - SERVICE CONNECTIONS: 450mm
  - WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
  - ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
  - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
  - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
  - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
  - METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
  - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
  - 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
Survey	SURVEYWORK		02/2021
Design	ARS		2/2025
Drawn	KN		2/2025
Checked	JP/LC		02/2025



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

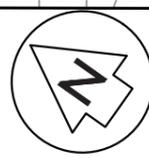
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**PROPOSED OVERVIEW  
 WATER SUPPLY  
 PLAN**

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

**RESOURCE CONSENT**

DATE: 2/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C600.DWG

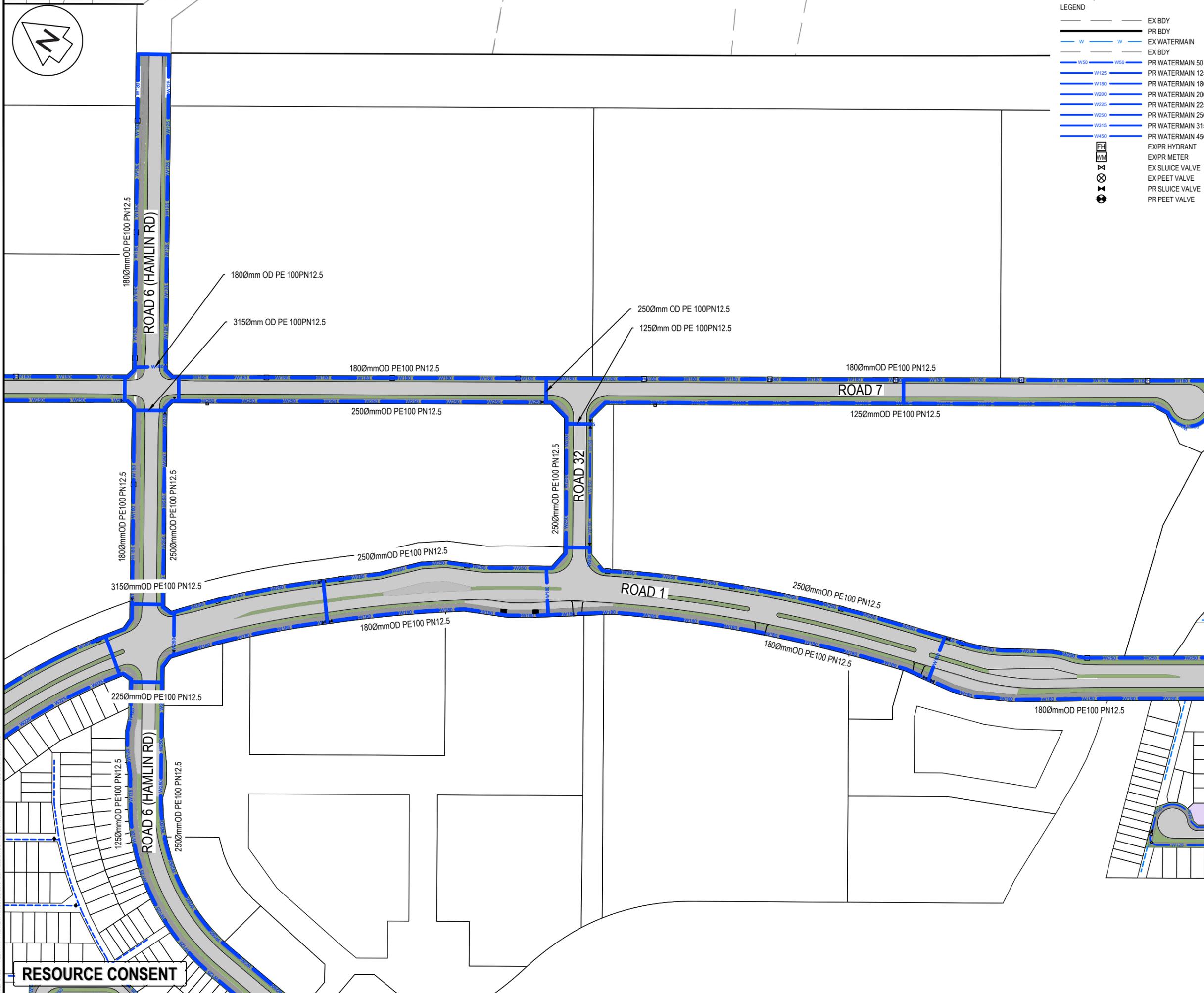




**LEGEND**

---	EX BDY
---	PR BDY
---	EX WATERMAIN
---	EX BDY
W50	PR WATERMAIN 50
W125	PR WATERMAIN 125
W180	PR WATERMAIN 180
W200	PR WATERMAIN 200
W225	PR WATERMAIN 225
W250	PR WATERMAIN 250
W315	PR WATERMAIN 315
W450	PR WATERMAIN 450
FH	EX/PR HYDRANT
MM	EX/PR METER
⊗	EX SLUICE VALVE
⊗	EX PEET VALVE
⊗	PR SLUICE VALVE
⊗	PR PEET VALVE

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  - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
  - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
  - METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
  - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
  - 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

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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	<b>A</b>

DATE: 2/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\MASTER PLAN\215010-M-C600.DWG

**RESOURCE CONSENT**



LOT 1 DP 11032

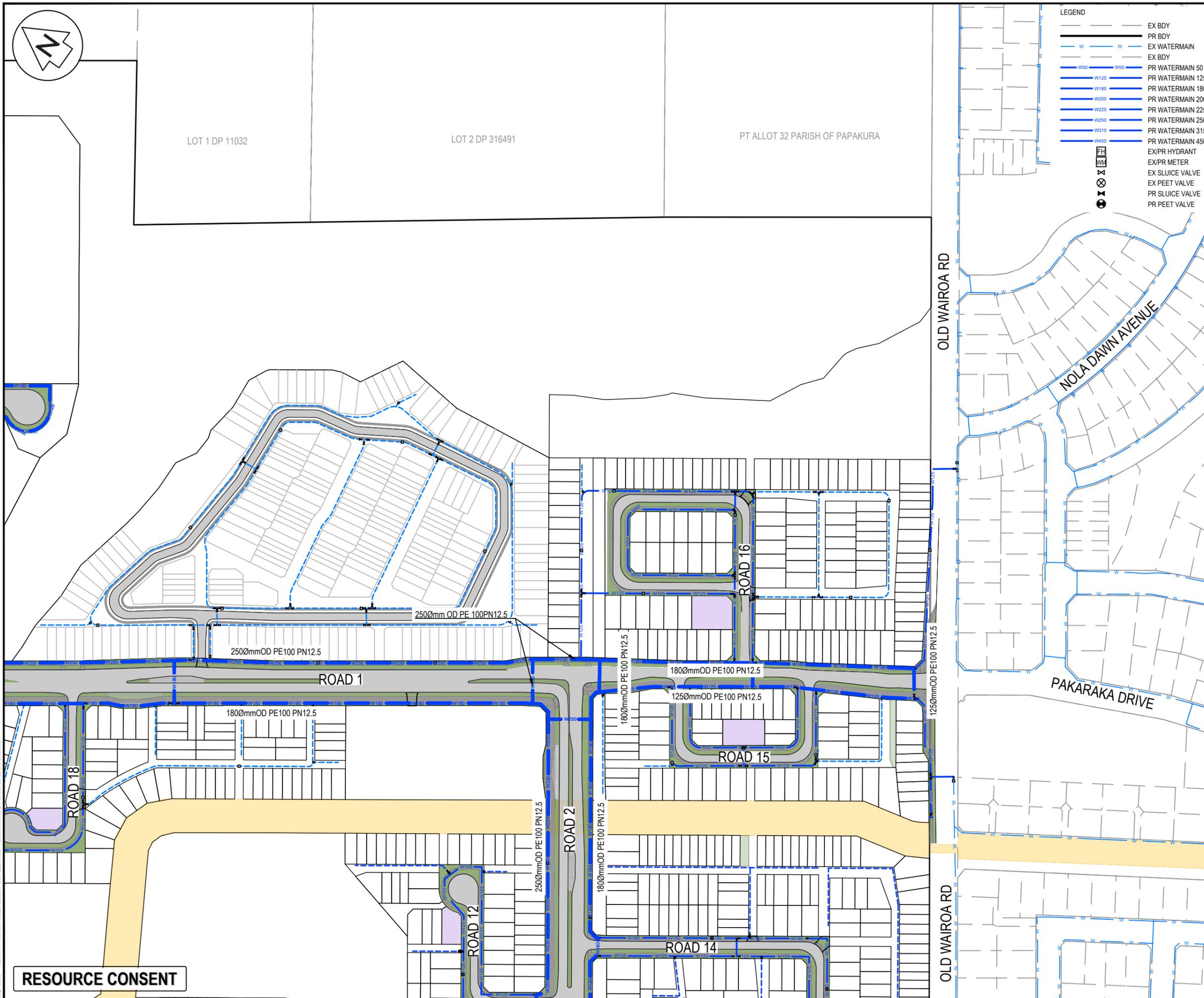
LOT 2 DP 316491

PT ALLOT 32 PARISH OF PAKAPURA

**LEGEND**

---	EX BDY
---	PR BDY
---	EX WATERMAIN
---	EX BDY
W50	PR WATERMAIN 50
W125	PR WATERMAIN 125
W180	PR WATERMAIN 180
W200	PR WATERMAIN 200
W225	PR WATERMAIN 225
W250	PR WATERMAIN 250
W315	PR WATERMAIN 315
W450	PR WATERMAIN 450
FH	EX/PR HYDRANT
MM	EX/PR METER
X	EX SLUICE VALVE
⊗	EX PEET VALVE
⊙	PR SLUICE VALVE
⊗	PR PEET VALVE

- NOTES**
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
  - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
  - MINIMUM COVER SHALL BE:
    - ROADS AND FRONT1M OF BERM: 900mm
    - BERMS 600mm
    - SERVICE CONNECTIONS: 450mm
  - WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
  - ALL UPVC PIPE SHALL BE PN12 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
  - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
  - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
  - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
  - METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
  - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
  - 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
	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	<b>A</b>

DATE: 2/25 FILE PATH: F:\MVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N0215010-M-C600.DWG

**RESOURCE CONSENT**



20982

LOT 1 DP 199521

LOT 1 DP 42854

PT LOT 5 DP 47911

LOT 4 BLK XV DP 193857

LOT 2 DP 42854

AIRFIELD RD

LOT 3 BLK XV DP 193857

LOT 2 DP 109061

LOT 1 BLK XV DP 47911

LOT 2 DP 47911

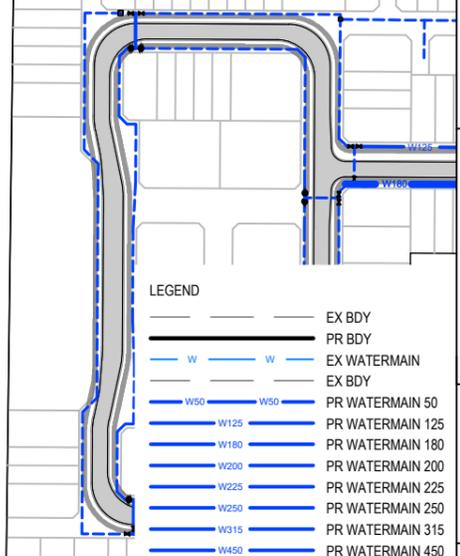
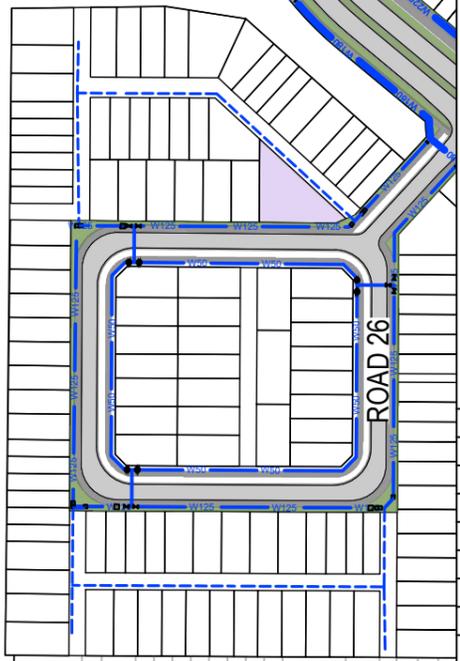
LOT 3 DP 47911

LOT 1 DP 109061

LOT 2 DP 193857

LOT 1 DP 39638

MILL RD



- 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. WATERMANS 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 SPIGOT 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 WATERMANS.
  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.

Rev	Description	By	Date
A	RESOURCE CONSENT	AS	02/2025
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  
 WATER SUPPLY  
 PLAN: SHEET 4**

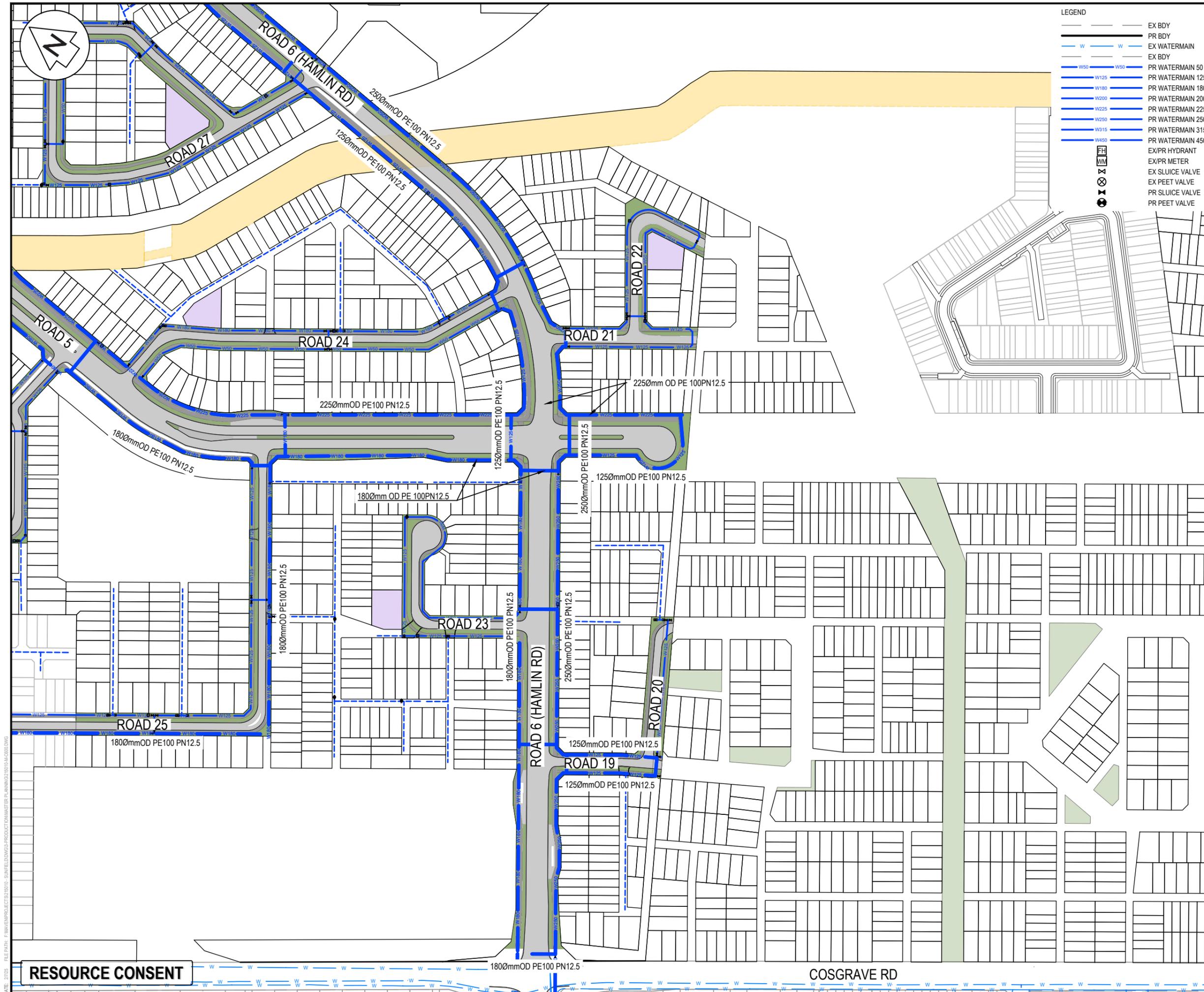
Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C604
Rev	<b>A</b>

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

RESOURCE CONSENT

DATE: 2/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N0215010-M-C600.DWG



**LEGEND**

---	EX BDY
---	PR BDY
---	EX WATERMAIN
---	EX BDY
W50	PR WATERMAIN 50
W125	PR WATERMAIN 125
W180	PR WATERMAIN 180
W200	PR WATERMAIN 200
W225	PR WATERMAIN 225
W250	PR WATERMAIN 250
W315	PR WATERMAIN 315
W450	PR WATERMAIN 450
FH	EX/PR HYDRANT
MM	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.
  - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY UNDERGROUND SERVICES PRIOR TO THE COMMENCEMENT OF WORKS.
  - MINIMUM COVER SHALL BE:
    - ROADS AND FRONT 1M OF BERM: 900mm
    - BERMS: 600mm
    - SERVICE CONNECTIONS: 450mm
  - WATERMAINS LAID ACROSS ROADS SHALL BE BACKFILLED WITH HARDFILL COMPACTED IN 200mm LAYERS ABOVE THE EMBEDMENT MATERIAL.
  - ALL UPVC PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH SPIGNOT AND SOCKET RUBBER RING JOINTS.
  - ALL PE PIPE SHALL BE PN12.5 MINIMUM PRESSURE RATED WITH BUTT-WELDED. WELD BEADS SHALL BE REMOVED TO PROVIDE A SMOOTH BORE.
  - ALL NON-METALIC PIPES ARE TO HAVE TRACER WIRE FITTED TO COUNCIL STANDARDS.
  - PIPES SHALL BE BEDDED AND SURROUNDED TO 150MM ABOVE THE PIPE SOFFIT WITH SAND OR AP20.
  - METAL DETECTOR TAPE PRINTED WITH 'WATER PIPE BELOW' SHALL BE LAID 150MM ABOVE ALL WATERMAINS.
  - A YELLOW ISOSCELES TRIANGLE WITH CATS EYE POINTING TO FH SHALL BE PAINTED IN THE CENTRE OF ALL SEALED ROADS.
  - 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.

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



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

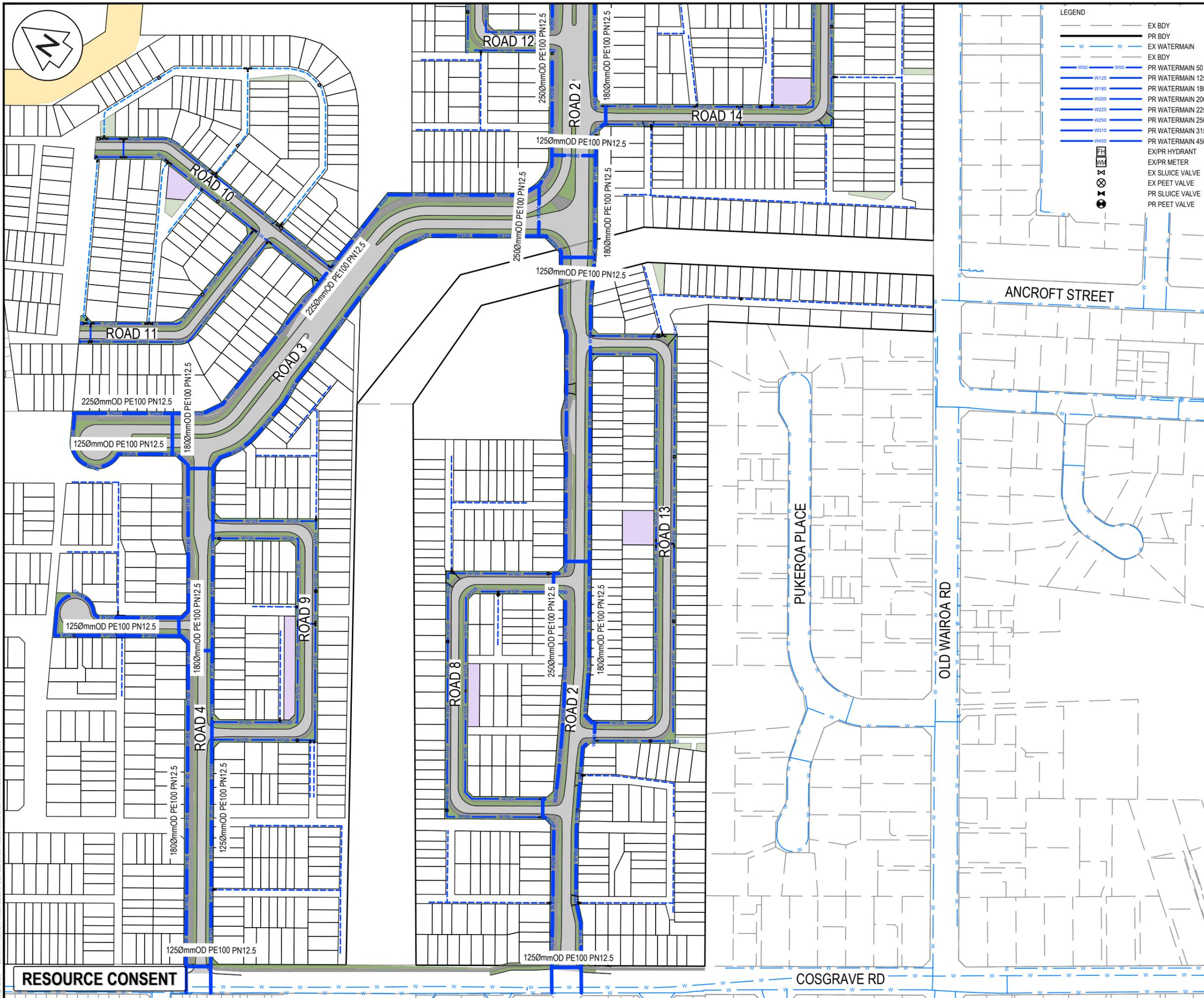
Title  
**PROPOSED  
 WATER SUPPLY  
 PLAN: SHEET 5**

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

DATE: 2/25 FILE PATH: F:\MVEN\PROJECT\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\215010-M-C600.DWG

**RESOURCE CONSENT**

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

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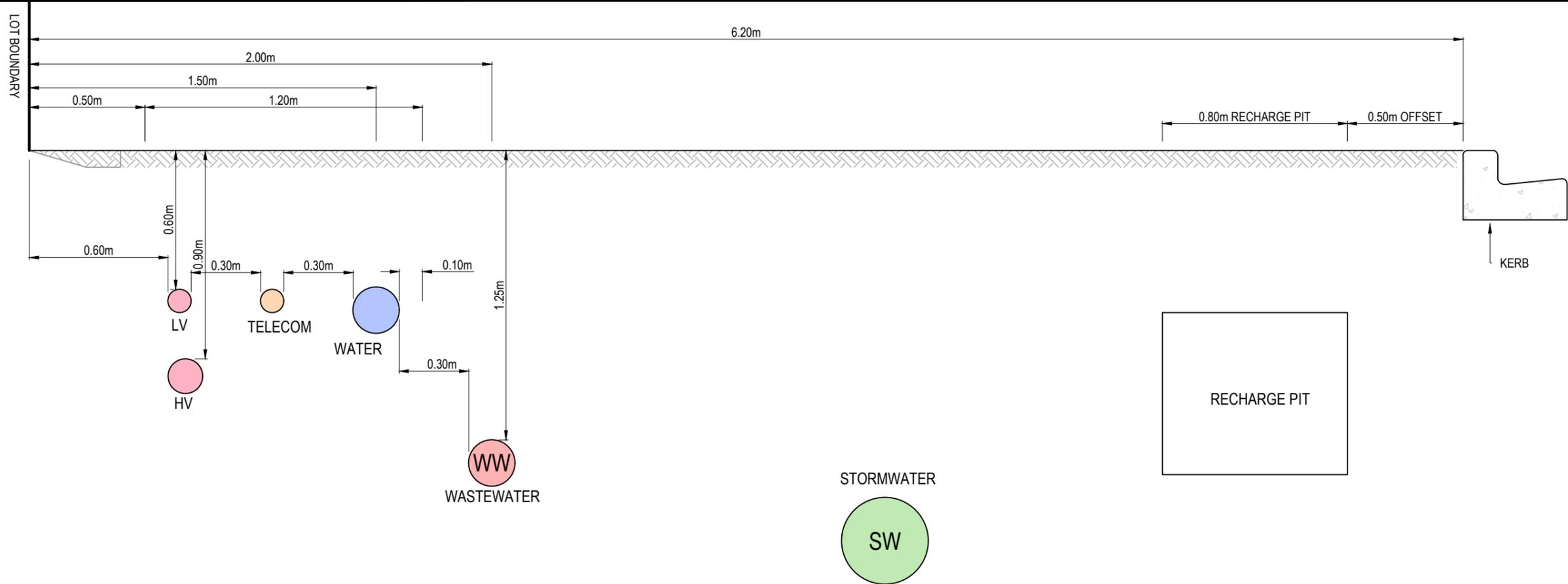
Project  
**SUNFIELD DEVELOPMENT  
 ARDMORE, AUCKLAND  
 MASTERPLANNING  
 FOR SUNFIELD  
 DEVELOPMENTS LIMITED**

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

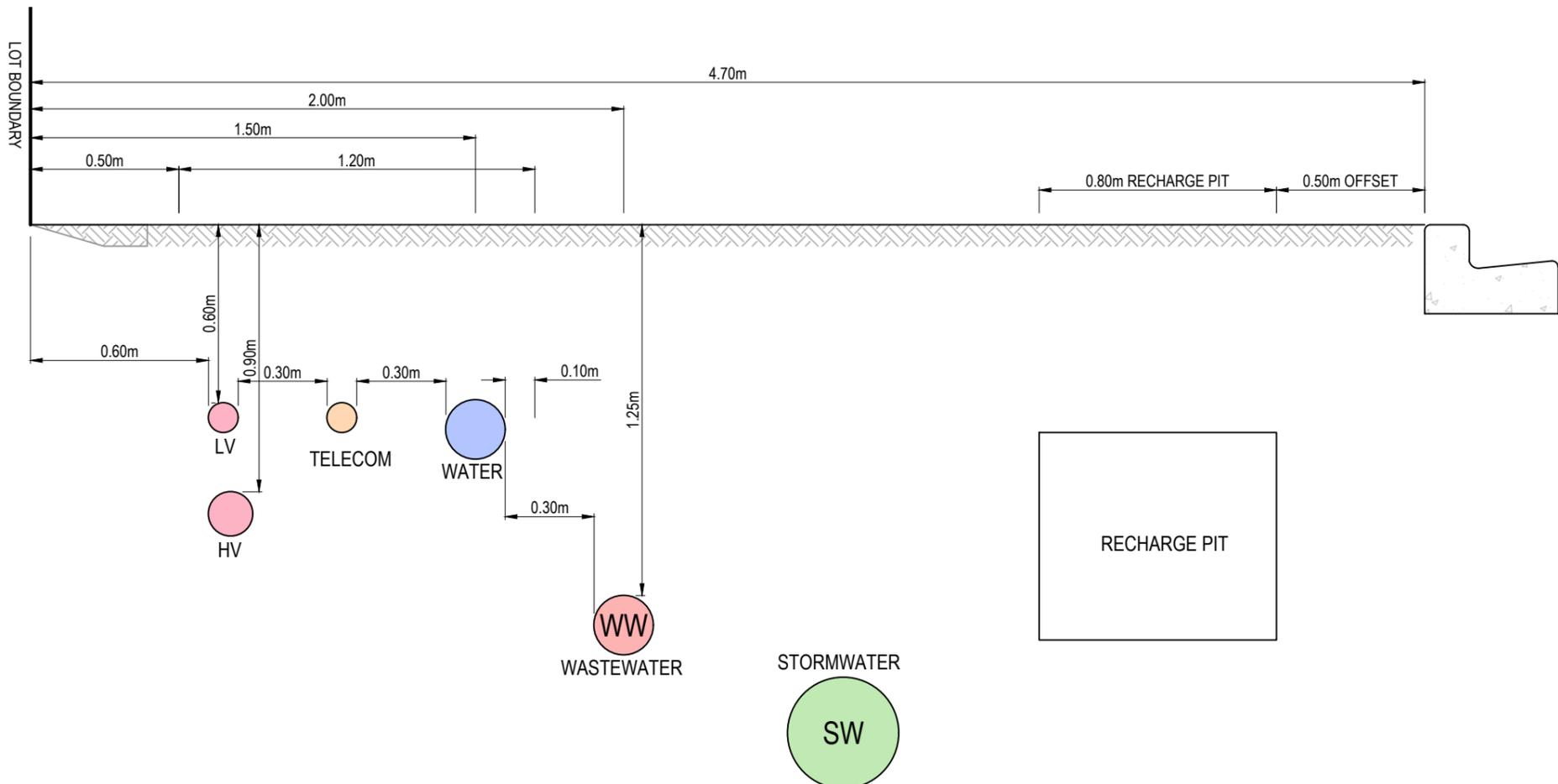
Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C600.DWG
Drawing no.	M-C606
Rev	<b>A</b>

DATE: 2/2025 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\MASTER PLAN\N0215010-M-C600.DWG

**RESOURCE CONSENT**



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.

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

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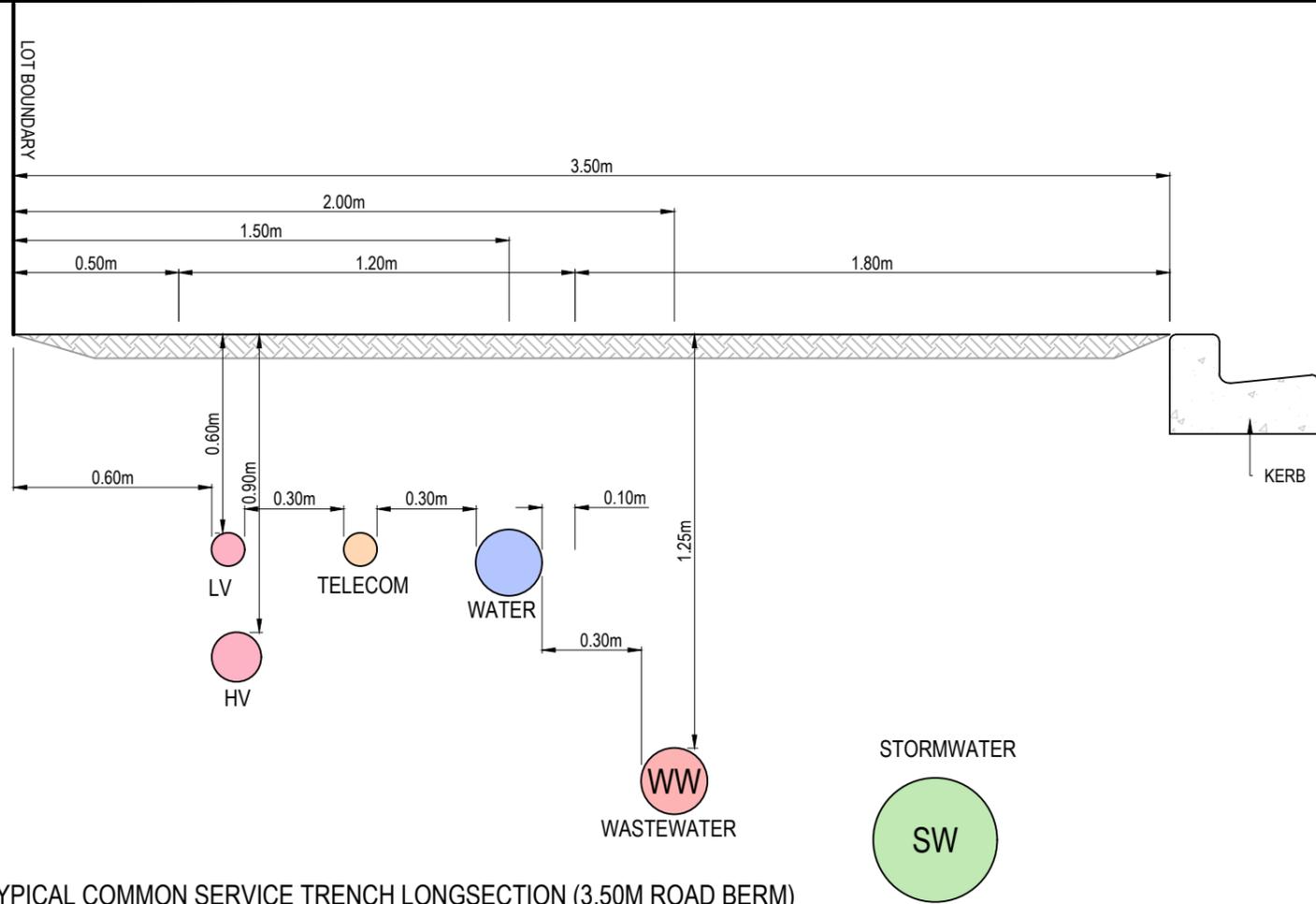
Project  
**SUNFIELD DEVELOPMENT  
 ARDMORE, AUCKLAND  
 MASTERPLANNING  
 FOR SUNFIELD  
 DEVELOPMENTS LIMITED**

Title  
**PROPOSED  
 UTILITIES  
 DETAILS SHEET 2**

Project no.	215010
Scale	##### @ A3
Cad file	215010-M-C710.DWG
Drawing no.	M-C710
Rev	<b>A</b>

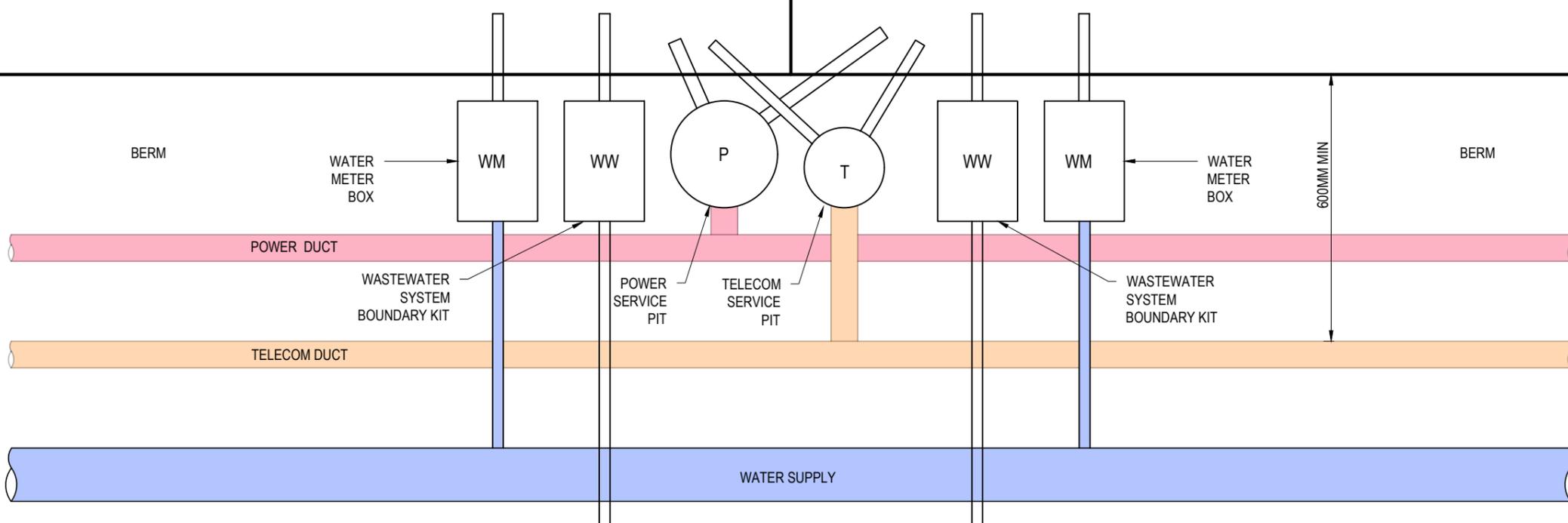
**RESOURCE CONSENT**

DATE: 27/25 FILEPATH: F:\MVEN\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\MASTER PLANNING\010104\CT1.DWG



TYPICAL COMMON SERVICE TRENCH LONGSECTION (3.50M 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 HARD FILLED BACK FILLED 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.



TYPICAL SERVICE PIT PLAN  
SCALE 1:20 @ A3

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

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Project  
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ARDMORE, AUCKLAND  
MASTERPLANNING  
FOR SUNFIELD  
DEVELOPMENTS LIMITED**

Title  
**PROPOSED  
UTILITIES  
DETAILS SHEET**

Project no.	215010
Scale	##### @ A3
Cad file	215010-M-C710.DWG
Drawing no.	M-C711
Rev	<b>A</b>

**RESOURCE CONSENT**

DATE: 27/25 FILEPATH: F:\Maven\PROJECTS\2025\1001 - SUNFIELD\DWG\PRODUCTION\MASTER PLANNING\1010101.DWG