

OLD WAIROA 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 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 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.

LEGEND

---	EX BDY
---	PR BDY
---	PR SUPERLOT BDY
---	EX WATERMAIN
---	PR WATERMAIN
---	PR WATER PRIVATE
[FH]	EX/PR HYDRANT
[WM]	EX/PR METER
[X]	EX SLUICE VALVE
[X]	EX PEET VALVE
[X]	PR SLUICE VALVE
[X]	PR PEET VALVE

A	RESOURCE CONSENT	GT/TH	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	GT/TH		01/2025
Drawn	GT/TH		01/2025
Checked	DJM		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
 SUPERLOT 22
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

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

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S3-C600.DWG
Drawing no.	S3-C600-3
Rev	A

DATE: 2/25 FILE PATH: F:\MVEN\PROJECT\S3\215010 - SUNFIELD\DWG\PRODUCTION\STAGE 3\215010-S3-C600.DWG

RESOURCE CONSENT

SL 6



SL 16

6x250D PE80B
PN12.5 SDR 11
LOT CONNECTIONS

ROAD 1

6x250D PE80B
PN12.5 SDR 11
LOT CONNECTIONS

ROAD 18

6x250D PE80B
PN12.5 SDR 11
LOT CONNECTIONS

SL 7

4x250D PE80B
PN12.5 SDR 11
LOT CONNECTIONS

VECTOR GAS TRANSMISSION EASEMENT

- 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 FRONTM 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.

LEGEND

	EX BDY
	PR BDY
	PR SUPERLOT BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

A	RESOURCE CONSENT	GT/TH	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	GT/TH		01/2025
Drawn	GT/TH		01/2025
Checked	DJM		02/2025

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

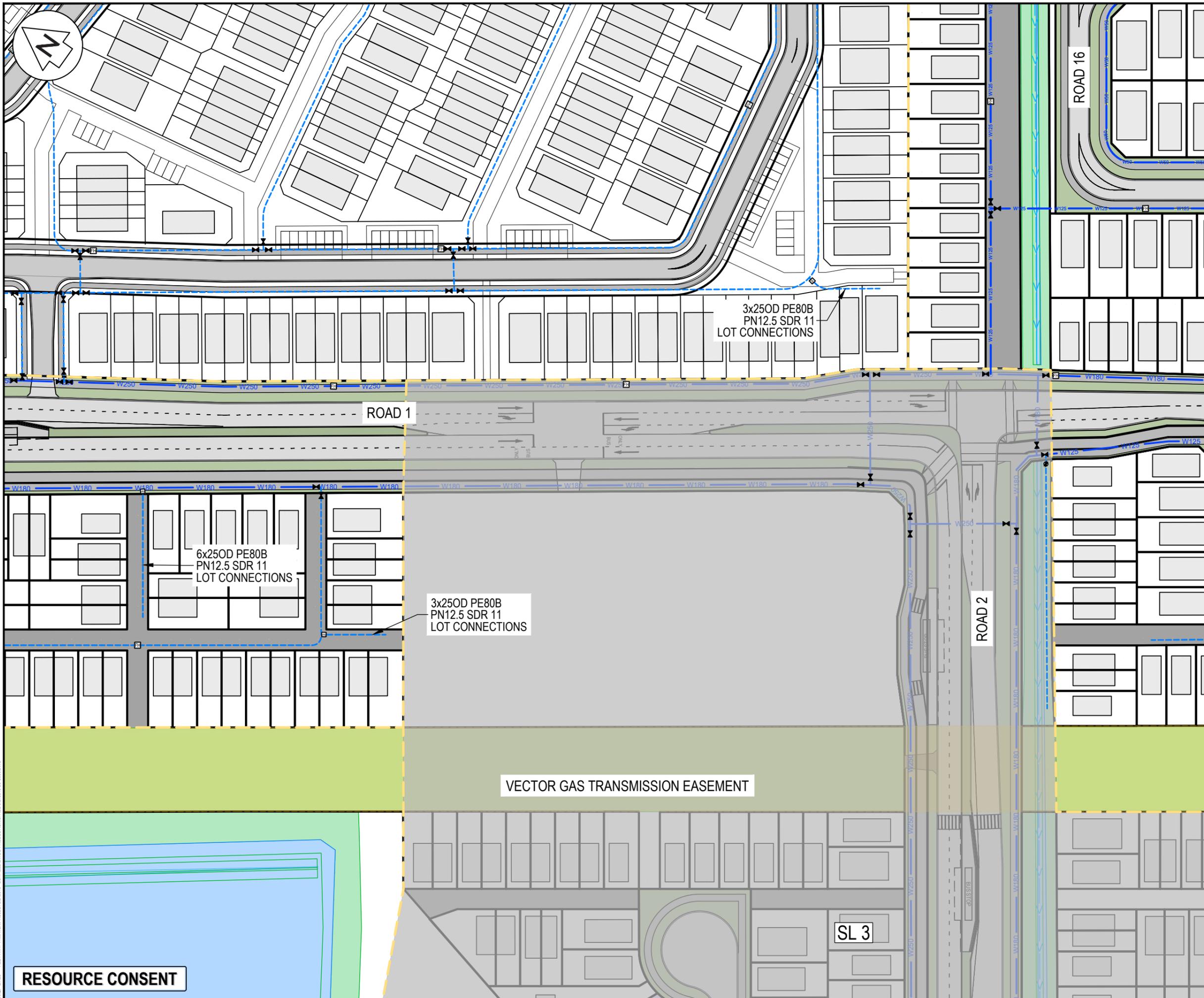
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
SUPERLOT 4, 5 & 6
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 4**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S3-C600.DWG
Drawing no.	S3-C600-4
Rev	A

RESOURCE CONSENT

DATE: 2/25 FILE PATH: F:\Maven\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\AS3\S3-C600.DWG



- 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. 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 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 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.

LEGEND

	EX BDY
	PR BDY
	PR SUPERLOT BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

A	RESOURCE CONSENT	GT/TH	02/2025
Rev	Description	By	Date
Survey	SURVEYWORK		02/2021
Design	GT/TH		01/2025
Drawn	GT/TH		01/2025
Checked	DJM		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
SUPERLOT 4, 5, 6 & 22
FOR SUNFIELD
DEVELOPMENTS LIMITED

Title
PROPOSED
WATER SUPPLY
PLAN: SHEET 5

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S3-C600.DWG
Drawing no.	S3-C600-5
Rev	A

VECTOR GAS TRANSMISSION EASEMENT

6x250D PE80B
 PN12.5 SDR 11
 LOT CONNECTIONS

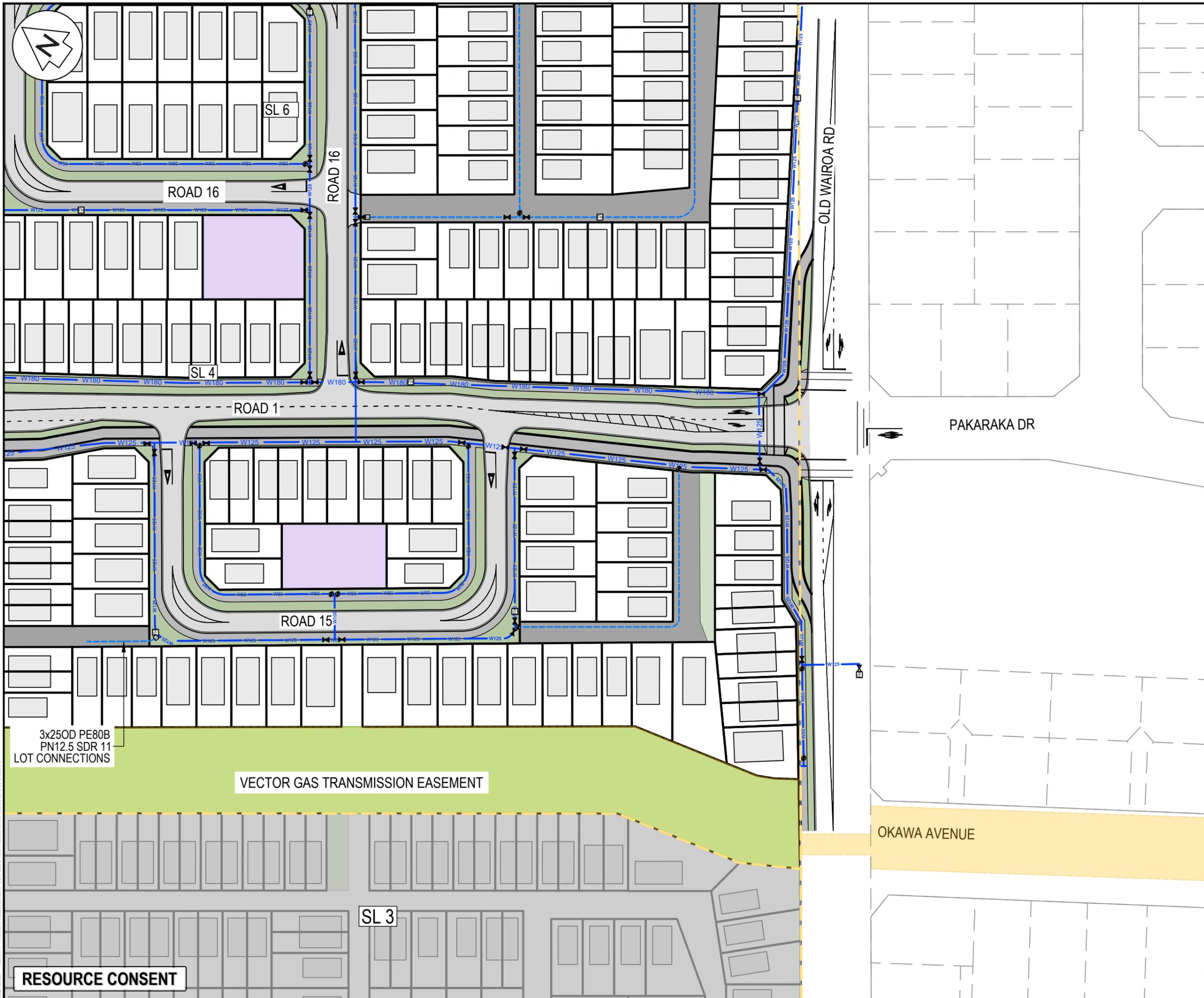
3x250D PE80B
 PN12.5 SDR 11
 LOT CONNECTIONS

3x250D PE80B
 PN12.5 SDR 11
 LOT CONNECTIONS

SL 3

RESOURCE CONSENT

DATE: 2/25 FILE PATH: F:\Maven\PROJECT\S3\SUNFIELD\DWG\PRODUCTION\AS3\S3-C600.DWG



- 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 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.

LEGEND

	EX BDY
	PR BDY
	PR SUPERLOT BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

A	RESOURCE CONSENT	GT/TH	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	GT/TH		01/2025
Drawn	GT/TH		01/2025
Checked	DJM		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
SUPERLOT 22
FOR SUNFIELD
DEVELOPMENTS LIMITED

Title
PROPOSED
WATER SUPPLY
PLAN: SHEET 6

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S3-C600.DWG
Drawing no.	S3-C600-6
Rev	A

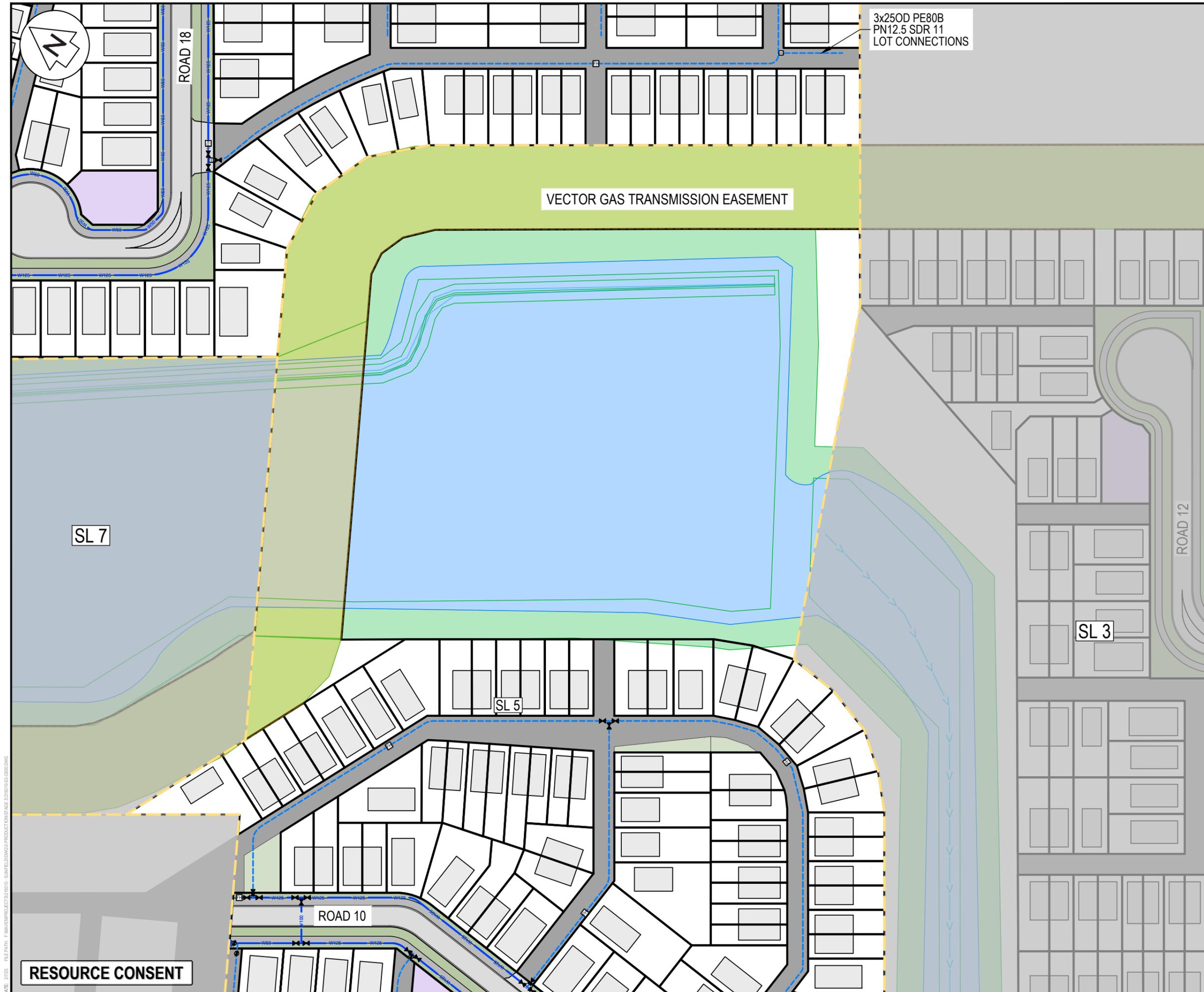
3x250D PE80B
 PN12.5 SDR 11
 LOT CONNECTIONS

VECTOR GAS TRANSMISSION EASEMENT

OKAWA AVENUE

RESOURCE CONSENT

DATE: 2/25 FILE PATH: F:\MVEN\PROJECT\215010 - SUNFIELD\DWG\3-PRODUCTION\AS3-215010-S3-C600.DWG



3x250D PE80B
PN12.5 SDR 11
LOT CONNECTIONS

VECTOR GAS TRANSMISSION EASEMENT

SL 7

SL 3

SL 5

ROAD 18

ROAD 12

ROAD 10

RESOURCE CONSENT

- 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 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.

LEGEND

---	EX BDY
---	PR BDY
---	PR SUPERLOT BDY
---	EX WATERMAIN
---	PR WATERMAIN
---	PR WATER PRIVATE
---	EX/PR HYDRANT
---	EX/PR METER
---	EX SLUICE VALVE
---	EX PEET VALVE
---	PR SLUICE VALVE
---	PR PEET VALVE

A	RESOURCE CONSENT	GT/TH	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORK		02/2021
Design	GT/TH		01/2025
Drawn	GT/TH		01/2025
Checked	DJM		02/2025

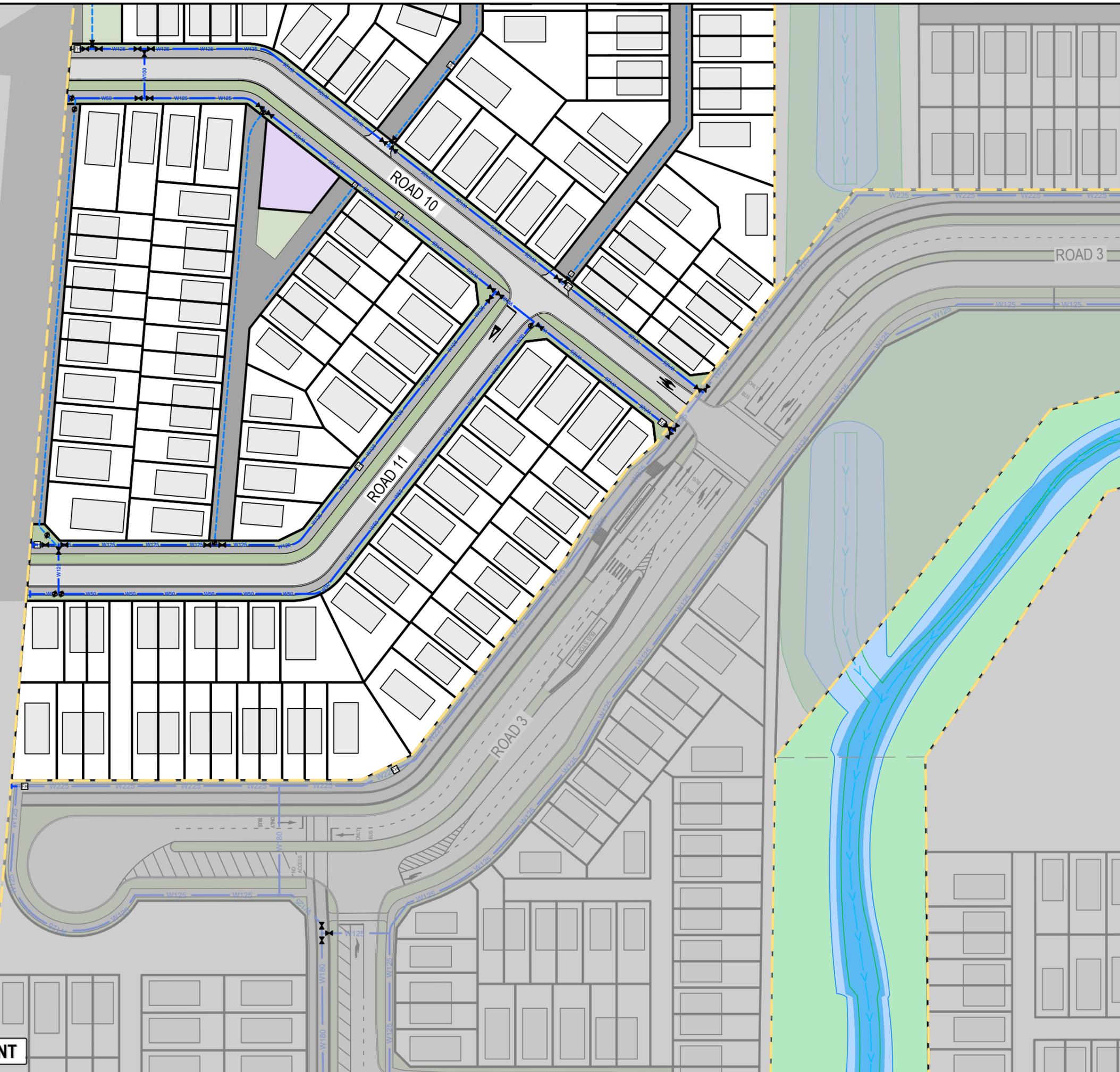
M Maven Associates
 09 571 0050
 info@maven.co.nz
 www.maven.co.nz
 5 Owens Road, Epsom
 Auckland 1023

Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 4 & 5
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 WATER SUPPLY
 PLAN: SHEET 7**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S3-C600.DWG
Drawing no.	S3-C600-7
Rev	A

DATE: 2/25 FILE PATH: F:\MVEN\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\AS3\S3-C600.DWG



- 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. 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 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 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.

LEGEND

	EX BDY
	PR BDY
	PR SUPERLOT BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATER PRIVATE
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE

A	RESOURCE CONSENT	GT/TH	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX		02/2021
Design	GT/TH		01/2025
Drawn	GT/TH		01/2025
Checked	DJM		02/2025

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

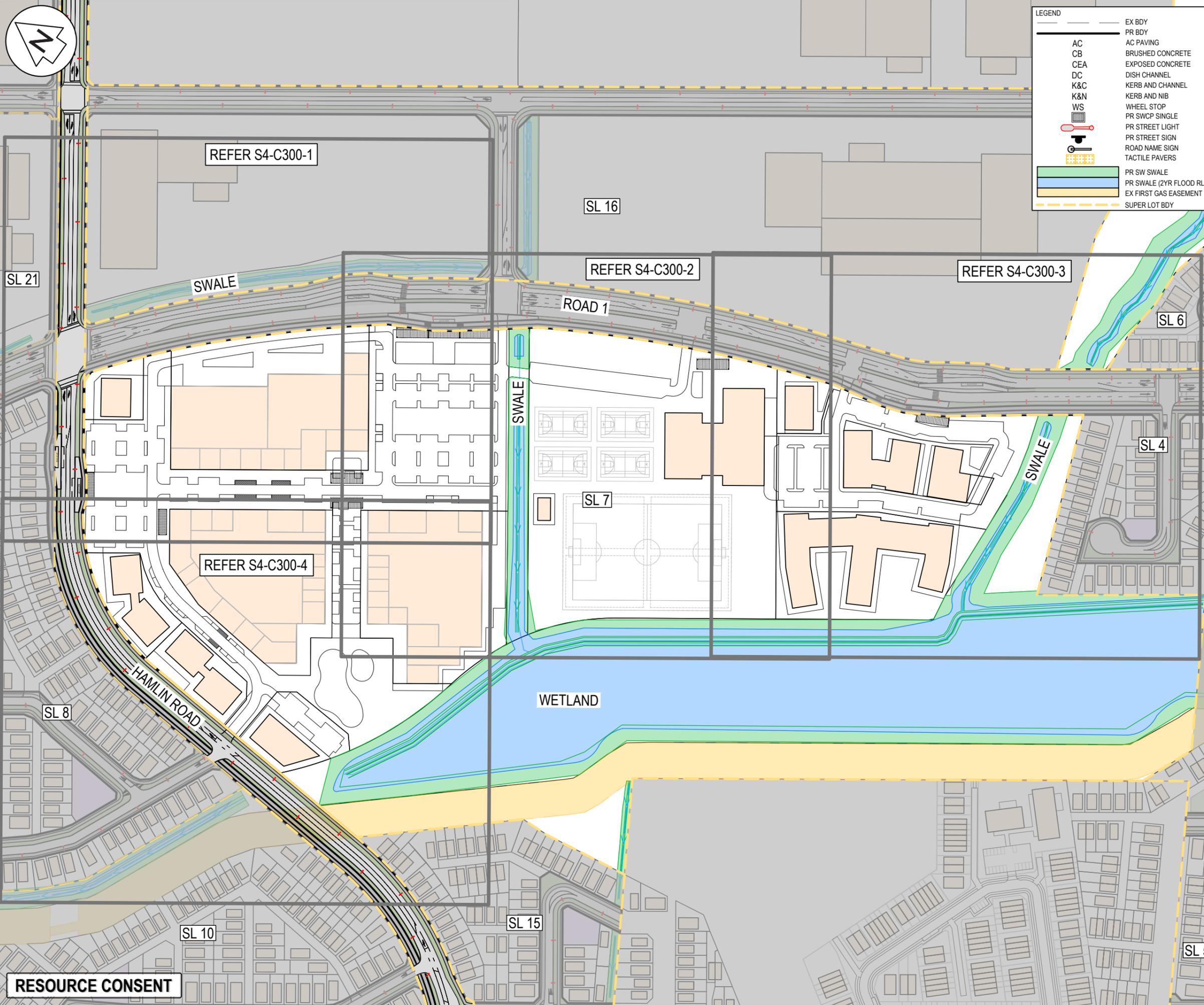
Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 5
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 WATER SUPPLY
 PLAN: SHEET 8**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S3-C600.DWG
Drawing no.	S3-C600-8
Rev	A

DATE: 2/25 FILE PATH: F:\Maven\PROJECT\S3\SUNFIELD\DWG\PRODUCTION\STAGE 3\215010-S3-C600.DWG

RESOURCE CONSENT



LEGEND

AC	EX BDY
CB	PR BDY
CEA	AC PAVING
DC	BRUSHED CONCRETE
K&C	EXPOSED CONCRETE
K&N	DISH CHANNEL
WS	KERB AND CHANNEL
	KERB AND NIB
	WHEEL STOP
	PR SWCP SINGLE
	PR STREET LIGHT
	PR STREET SIGN
	ROAD NAME SIGN
	TACTILE PAVERS
	PR SW SWALE
	PR SWALE (2YR FLOOD RL)
	EX FIRST GAS EASEMENT
	SUPER LOT BDY

- NOTES**
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. CONTRACTOR IS TO AVOID USING GPS FOR SET OUT OF THE KERB LEVELS WHERE GRADIENTS ARE LESS THAN 1%.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 6. FINAL PAVEMENT DESIGN SUBJECT TO CBR/BEAM TESTS ON SUBGRADE MATERIAL.
 7. SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BE SUPPLIED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
 8. REFER TO LONG SECTION FOR FINISHED CENTRELINE LEVELS. REFER TO TYPICAL CROSS SECTIONS TO OBTAIN LEVELS FOR OTHER LOCATIONS.
 9. ALL DUCTS SHALL HAVE LOCATIONS MARKED ON KERB LINES IN ACCORDANCE WITH SPECIFICATION.
 10. PRAM CROSSINGS ARE TO BE FLUSH TO THE CHANNEL WITH NO LIP.
 11. ALL KERB AND CHANNEL TO HAVE SAW CUTS AT MAX. 3m CENTRES. ALL SAW CUTS TO COINCIDE WITH FOOTPATH JOINTS.
 12. STREET LIGHTING SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE NEW ZEALAND STANDARDS INCLUDING BUT NOT RESTRICTED TO THE CURRENT VERSION OF AS/NZS 1158 LIGHTING FOR ROADS AND PUBLIC SPACES SERIES OF STANDARDS.
 13. ALL NEW, MODIFIED OR UPGRADED PRAM CROSSINGS MUST BE IN ACCORDANCE WITH RTS 14 GUIDELINES FOR FACILITIES FOR BLIND AND VISION-IMPAIRED PEDESTRIANS AND NZS/AS 1428.4 AND MUST COMPLY WITH THE DETAILS PROVIDED IN AT'S STANDARD PLAN NO.FP006.

A	RESOURCE CONSENT	DJ	02/2025
Rev	Description	By	Date
	Survey	SURVEYWORX	02/2021
	Design	YC	11/2024
	Drawn	DJ	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
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 ROADING
 OVERVIEW**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-S4-C300.DWG
Drawing no.	S4-C300-0
Rev	A

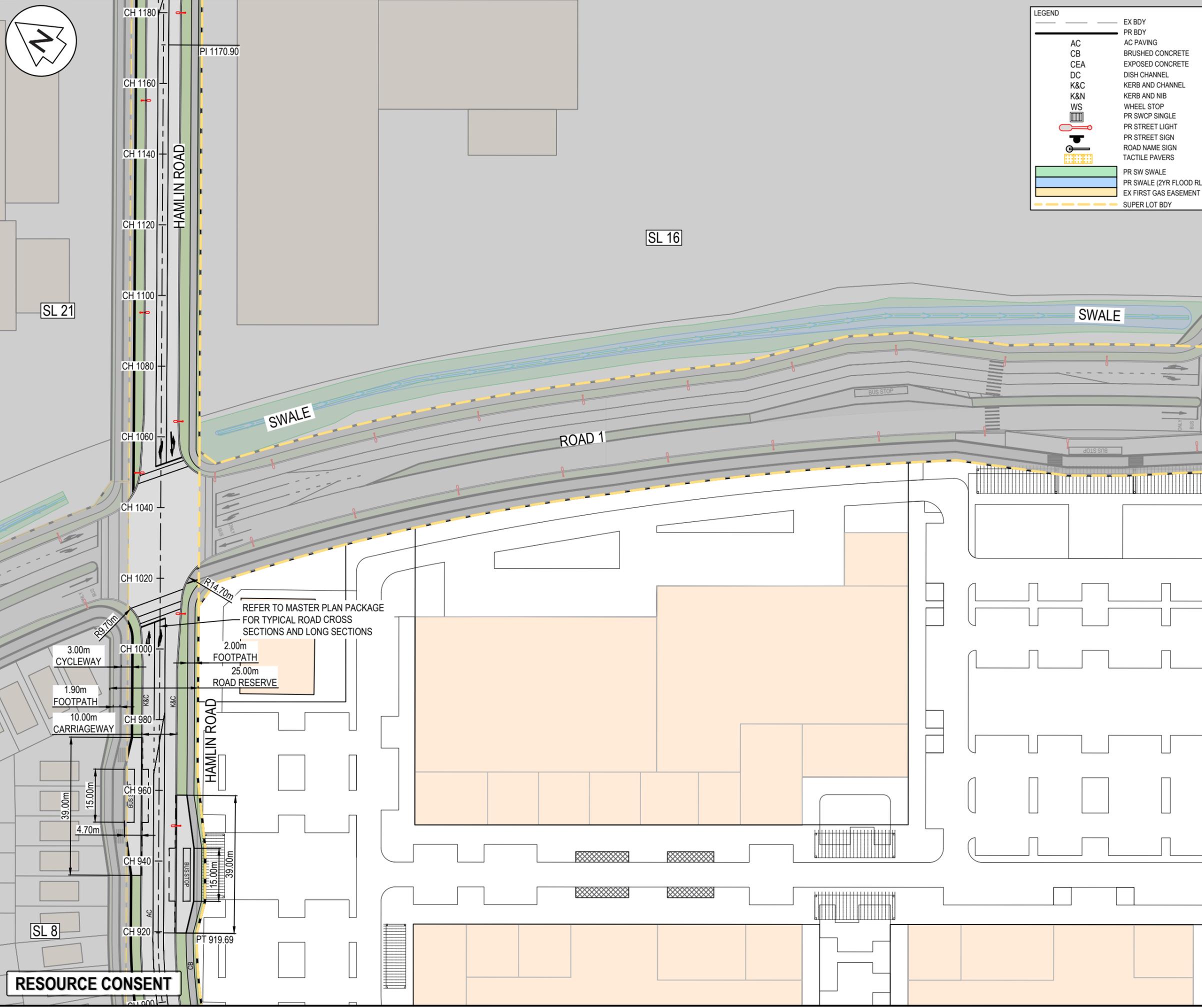
DATE: 2/2/25 FILE PATH: M:\MVEN\CONSULTING\CURRENT\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\STAGE 4\215010-S4-C300.DWG

RESOURCE CONSENT



LEGEND	
---	EX BDY
---	PR BDY
---	AC PAVING
---	BRUSHED CONCRETE
---	EXPOSED CONCRETE
---	DISH CHANNEL
---	KERB AND CHANNEL
---	KERB AND NIB
---	WHEEL STOP
---	PR SWCP SINGLE
---	PR STREET LIGHT
---	PR STREET SIGN
---	ROAD NAME SIGN
---	TACTILE PAVERS
---	PR SW SWALE
---	PR SWALE (2YR FLOOD RL)
---	EX FIRST GAS EASEMENT
---	SUPER LOT BDY

- NOTES
- ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 - CONTRACTOR IS TO AVOID USING GPS FOR SET OUT OF THE KERB LEVELS WHERE GRADIENTS ARE LESS THAN 1%.
 - IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 - THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 - THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 - FINAL PAVEMENT DESIGN SUBJECT TO CBR/BEAM TESTS ON SUBGRADE MATERIAL.
 - SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BE SUPPLIED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
 - REFER TO LONG SECTION FOR FINISHED CENTRELINE LEVELS. REFER TO TYPICAL CROSS SECTIONS TO OBTAIN LEVELS FOR OTHER LOCATIONS.
 - ALL DUCTS SHALL HAVE LOCATIONS MARKED ON KERB LINES IN ACCORDANCE WITH SPECIFICATION.
 - PRAM CROSSINGS ARE TO BE FLUSH TO THE CHANNEL WITH NO LIP.
 - ALL KERB AND CHANNEL TO HAVE SAW CUTS AT MAX. 3m CENTRES. ALL SAW CUTS TO COINCIDE WITH FOOTPATH JOINTS.
 - STREET LIGHTING SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE NEW ZEALAND STANDARDS INCLUDING BUT NOT RESTRICTED TO THE CURRENT VERSION OF AS/NZS 1158 LIGHTING FOR ROADS AND PUBLIC SPACES SERIES OF STANDARDS.
 - ALL NEW, MODIFIED OR UPGRADED PRAM CROSSINGS MUST BE IN ACCORDANCE WITH RTS 14 GUIDELINES FOR FACILITIES FOR BLIND AND VISION-IMPAIRED PEDESTRIANS AND NZS/AS 1428.4 AND MUST COMPLY WITH THE DETAILS PROVIDED IN AT'S STANDARD PLAN NO.FP006.



REFER TO MASTER PLAN PACKAGE FOR TYPICAL ROAD CROSS SECTIONS AND LONG SECTIONS

Rev	Description	By	Date
A	RESOURCE CONSENT	DJ	02/2025
Survey	SURVEYWORK		02/2021
Design	YC		11/2024
Drawn	DJ		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

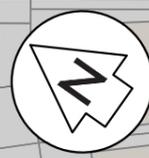
Project
SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
SUPERLOT 7
FOR SUNFIELD DEVELOPMENTS LIMITED

Title
PROPOSED ROADING
PLAN: SHEET 1

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C300.DWG
Drawing no.	S4-C300-1
Rev	A

RESOURCE CONSENT

DATE: 2/25 FILE PATH: \\MAVEN\CONSOLE\TNG\CD\Z\B\H\CURRENT\MAVEN\PROJECT\215010-SUNFIELD\DWG\PRODUCTION\STAGE 4\215010-S4-C300.DWG



LEGEND	
AC	AC PAVING
CB	BRUSHED CONCRETE
CEA	EXPOSED CONCRETE
DC	DISH CHANNEL
K&C	KERB AND CHANNEL
K&N	KERB AND NIB
WS	WHEEL STOP
	PR SWCP SINGLE
	PR STREET LIGHT
	PR STREET SIGN
	ROAD NAME SIGN
	TACTILE PAVERS
	PR SW SWALE
	PR SWALE (2YR FLOOD RL)
	EX FIRST GAS EASEMENT
	SUPER LOT BDY

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. CONTRACTOR IS TO AVOID USING GPS FOR SET OUT OF THE KERB LEVELS WHERE GRADIENTS ARE LESS THAN 1%.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. THE CONTRACTOR SHALL COMPLY WITH ALL RELEVANT HEALTH AND SAFETY REQUIREMENTS.
 5. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY APPROVAL FROM UTILITY OPERATORS BEFORE COMMENCING WORK UNDER OR NEAR THEIR SERVICES.
 6. FINAL PAVEMENT DESIGN SUBJECT TO CBR/BEAM TESTS ON SUBGRADE MATERIAL.
 7. SETOUT SCHEDULE WITH COORDINATES OF CHAINAGE POINTS ALONG ROAD CENTRELINE TO BE SUPPLIED TO THE CONTRACTOR PRIOR TO CONSTRUCTION.
 8. REFER TO LONG SECTION FOR FINISHED CENTRELINE LEVELS. REFER TO TYPICAL CROSS SECTIONS TO OBTAIN LEVELS FOR OTHER LOCATIONS.
 9. ALL DUCTS SHALL HAVE LOCATIONS MARKED ON KERB LINES IN ACCORDANCE WITH SPECIFICATION.
 10. PRAM CROSSINGS ARE TO BE FLUSH TO THE CHANNEL WITH NO LIP.
 11. ALL KERB AND CHANNEL TO HAVE SAW CUTS AT MAX. 3m CENTRES. ALL SAW CUTS TO COINCIDE WITH FOOTPATH JOINTS.
 12. STREET LIGHTING SHALL BE DESIGNED IN ACCORDANCE WITH ALL APPLICABLE NEW ZEALAND STANDARDS INCLUDING BUT NOT RESTRICTED TO THE CURRENT VERSION OF AS/NZS 1158 LIGHTING FOR ROADS AND PUBLIC SPACES SERIES OF STANDARDS.
 13. ALL NEW, MODIFIED OR UPGRADED PRAM CROSSINGS MUST BE IN ACCORDANCE WITH RTS 14 GUIDELINES FOR FACILITIES FOR BLIND AND VISION-IMPAIRED PEDESTRIANS AND NZS/AS 1428.4 AND MUST COMPLY WITH THE DETAILS PROVIDED IN AT'S STANDARD PLAN NO.FP006.

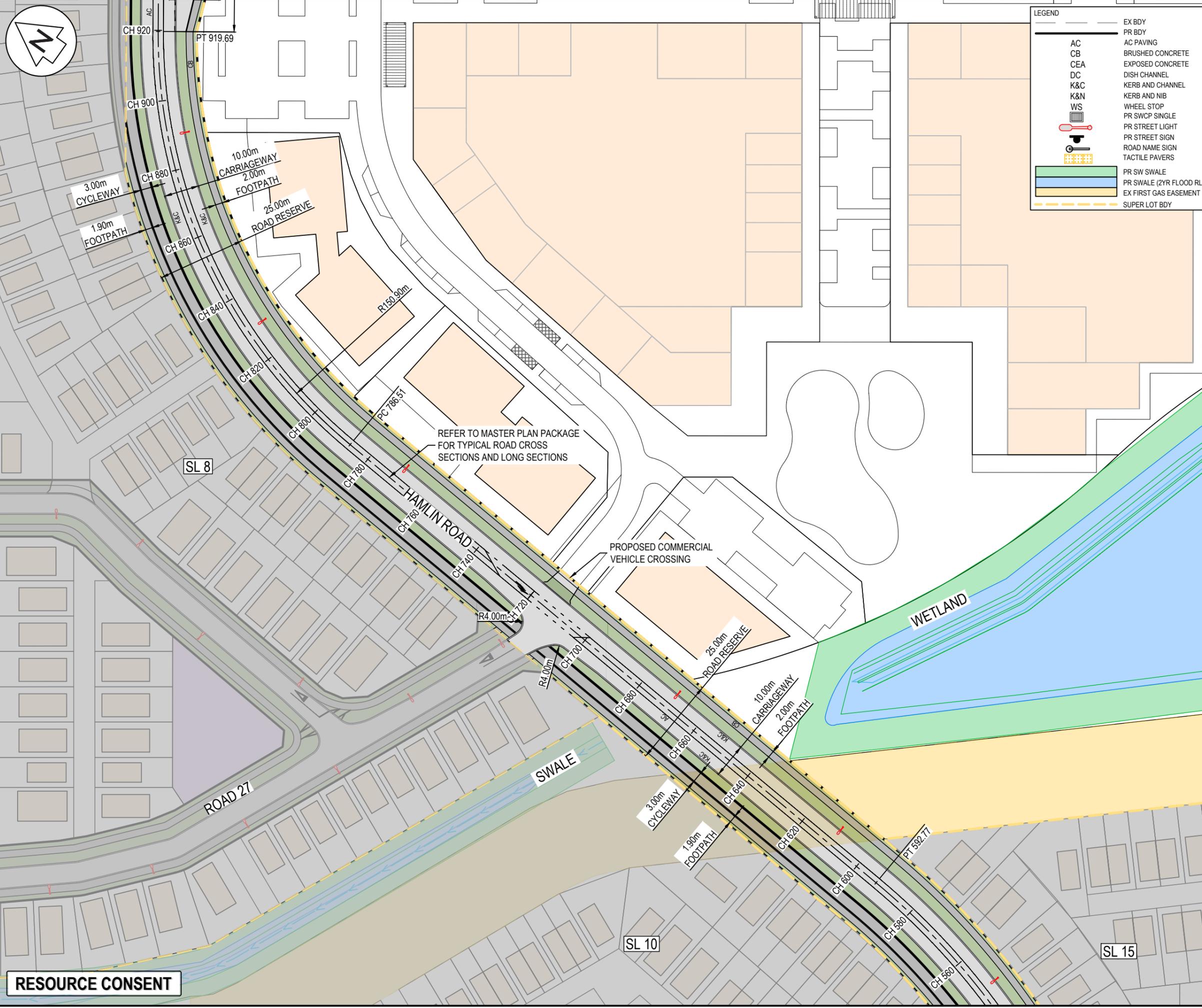
Rev	Description	By	Date
A	RESOURCE CONSENT	DJ	02/2025

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

Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 ROADING
 PLAN: SHEET 4**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C300.DWG
Drawing no.	S4-C300-4
Rev	A



RESOURCE CONSENT

DATE: 2/25 FILE PATH: \\MVEN\MAVENCONSULTING\CURRENT\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\STAGE 4\215010-S4-C300.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6m CRS).
 5. EACH CONNECTION SHALL BE MARKED BY A 50mmx50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 8. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. ALL LOT CONNECTION TO BE MIN 100mm uPVC S16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
 - PR BDY
 - SUPER LOT BDY
 - EX STORMWATER
 - PR STORMWATER
 - EX/PR SWMH
 - PR SWCP SINGLE
 - PR SWCP DOUBLE
 - PR LOT CONNECTION
 - PR SW SWALE
 - PR SWALE (2YR FLOOD RL)

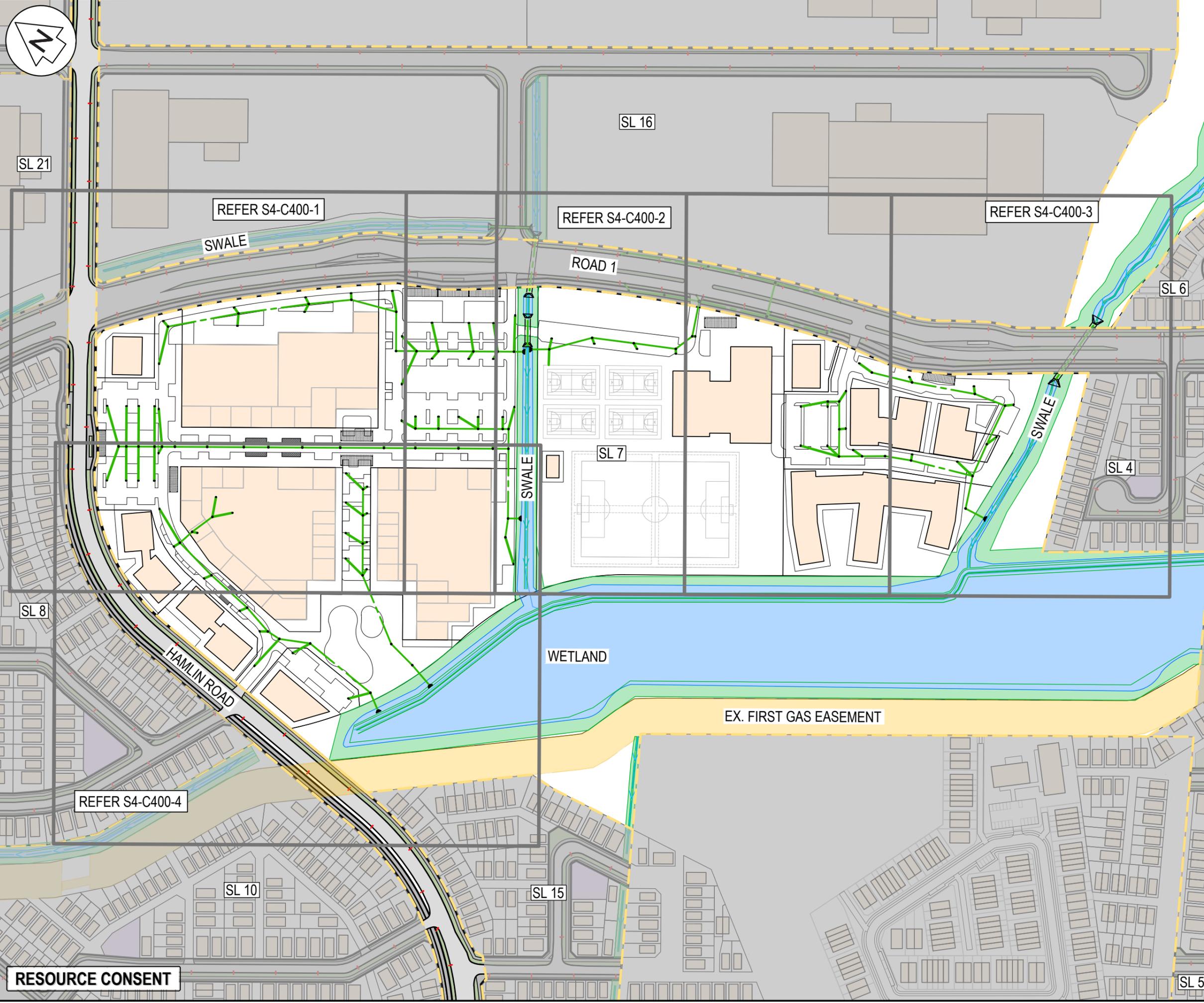
Rev	Description	By	Date
A	RESOURCE CONSENT	JAD	02/2025
Survey	SURVEYWORK		02/2021
Design	JAD		02/2025
Drawn	JAD		02/2025
Checked	JP/LC		02/2025

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

Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 STORMWATER
 OVERVIEW**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-S4-C400.DWG
Drawing no.	S4-C400-0
Rev	A



DATE: 25/02 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\AS4-215010-S4-C400.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6m CRS).
 5. EACH CONNECTION SHALL BE MARKED BY A 50mmX50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 8. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

	EX BDY
	PR BDY
	SUPER LOT BDY
	EX STORMWATER
	PR STORMWATER
	EX/PR SWMH
	PR SWCP SINGLE
	PR SWCP DOUBLE
	PR LOT CONNECTION
	PR SW SWALE
	PR SWALE (2YR FLOOD RL)

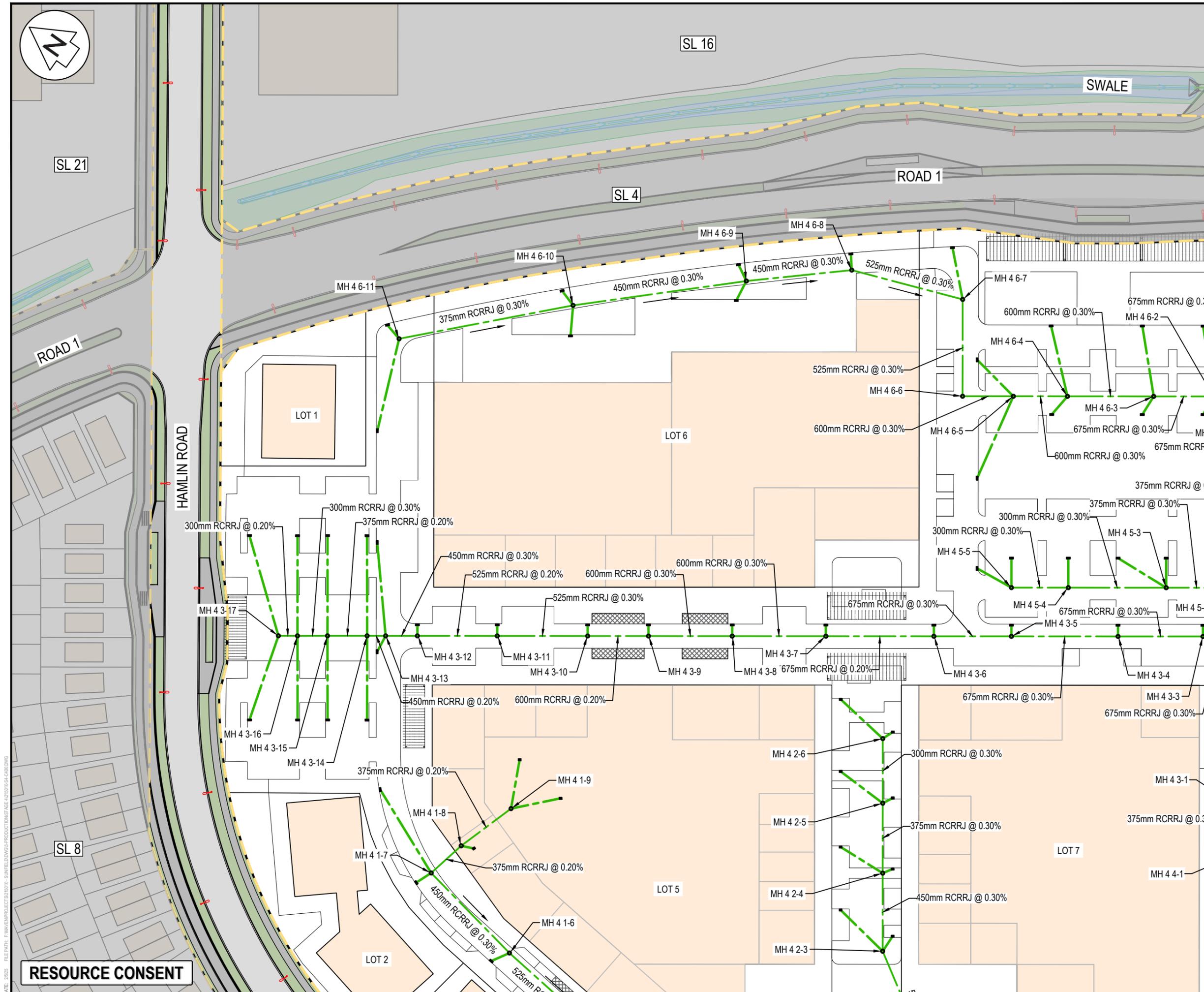
A	RESOURCE CONSENT	JAD	02/2025
Rev	Description	By	Date
Survey	SURVEYWORK		02/2021
Design	JAD		02/2025
Drawn	JAD		02/2025
Checked	JP/LC		02/2025

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
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

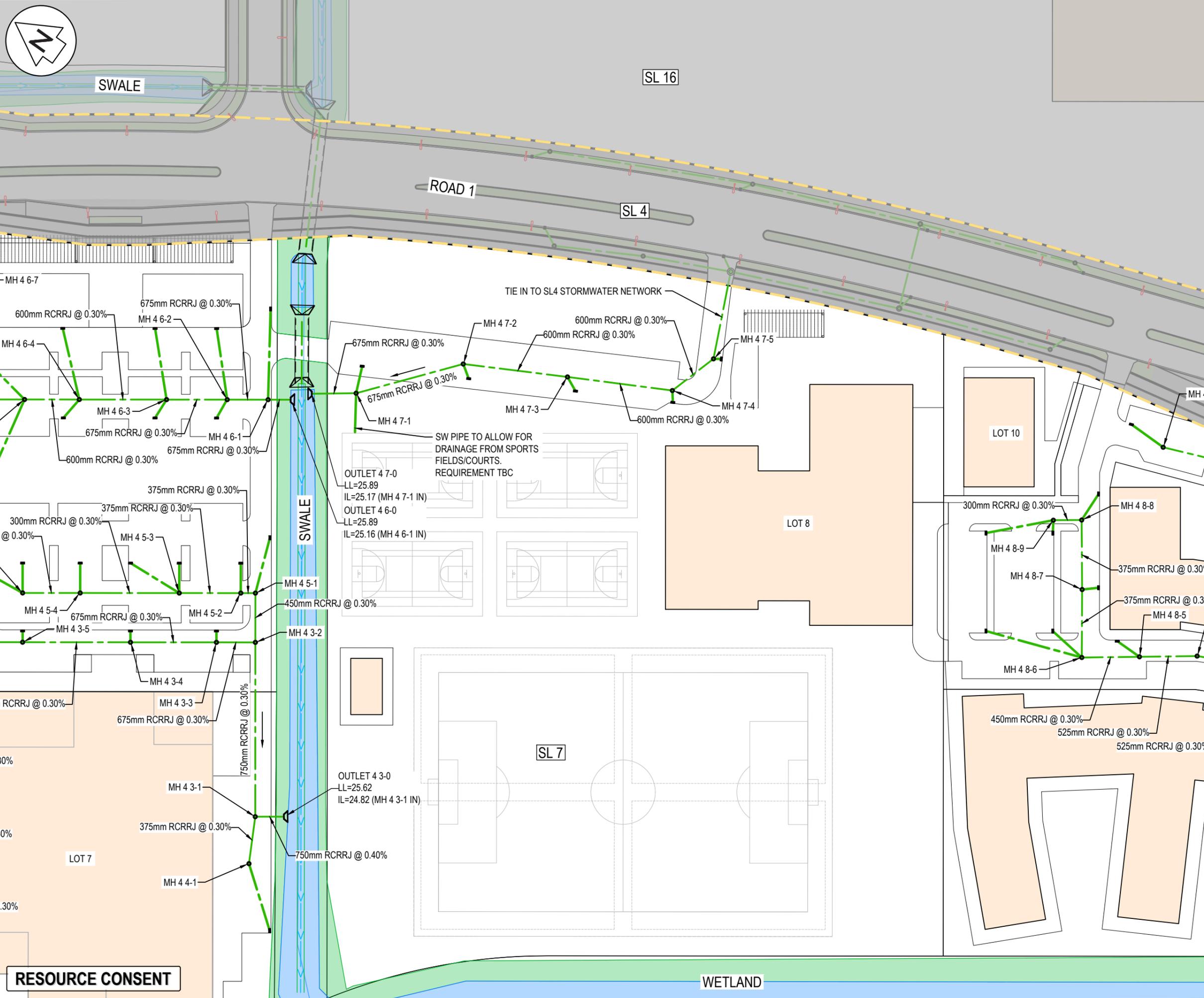
Title
**PROPOSED
 STORMWATER
 PLAN: SHEET 1**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C400.DWG
Drawing no.	S4-C400-1
Rev	A



RESOURCE CONSENT

DATE: 25/05 FILE PATH: F:\Maven\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\AS4-215010-S4-C400.DWG



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6m CRS).
 5. EACH CONNECTION SHALL BE MARKED BY A 50mmX50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON "AS BUILT" PLANS.
 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 8. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

LEGEND

---	EX BDY
---	PR BDY
---	SUPER LOT BDY
---	EX STORMWATER
---	PR STORMWATER
⊙	EX/PR SWMH
⊙	PR SWCP SINGLE
⊙	PR SWCP DOUBLE
---	PR LOT CONNECTION
---	PR SW SWALE
---	PR SWALE (2YR FLOOD RL)

A	RESOURCE CONSENT	JAD	02/2025
Rev	Description	By	Date
	Survey	SURVEYWORX	02/2021
	Design	JAD	02/2025
	Drawn	JAD	02/2025
	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
SUPERLOT 7
FOR SUNFIELD
DEVELOPMENTS LIMITED

Title
PROPOSED
STORMWATER
PLAN: SHEET 2

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C400.DWG
Drawing no.	S4-C400-2
Rev	A

DATE: 25/02 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\ASSET\42101010-S4-C400.DWG

RESOURCE CONSENT



SL 16

SL 4

SL 6

ROAD 1

SL 4

ROAD 18

WETLAND

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE NEW ZEALAND VERTICAL DATUM 2016.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6m CRS).
 5. EACH CONNECTION SHALL BE MARKED BY A 50mmX50mm TREATED PINE STAKE EXTENDING 600mm ABOVE GROUND LEVEL WITH THE TOP PAINTED. THIS MARKER POST SHALL BE PLACED ALONGSIDE A TIMBER MARKER INSTALLED AT THE TIME OF PIPELAYING AND EXTENDING FROM THE CONNECTION TO 150mm BELOW FINISHED GROUND LEVEL. CONNECTIONS SHALL BE ACCURATELY INDICATED ON 'AS BUILT' PLANS.
 6. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 7. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 8. ALL MANHOLES ARE TO BE 1050mmØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 9. ALL CATCHPIT LEADS SHALL HAVE MIN COVER 1.0m.
 10. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.
 11. ALL LOT CONNECTION TO BE MIN 100mm uPVC SN16 UNLESS SHOWN OTHERWISE.

- LEGEND
- EX BDY
 - PR BDY
 - SUPER LOT BDY
 - EX STORMWATER
 - PR STORMWATER
 - EX/PR SWMH
 - PR SWCP SINGLE
 - PR SWCP DOUBLE
 - PR LOT CONNECTION
 - PR SW SWALE
 - PR SWALE (2YR FLOOD RL)

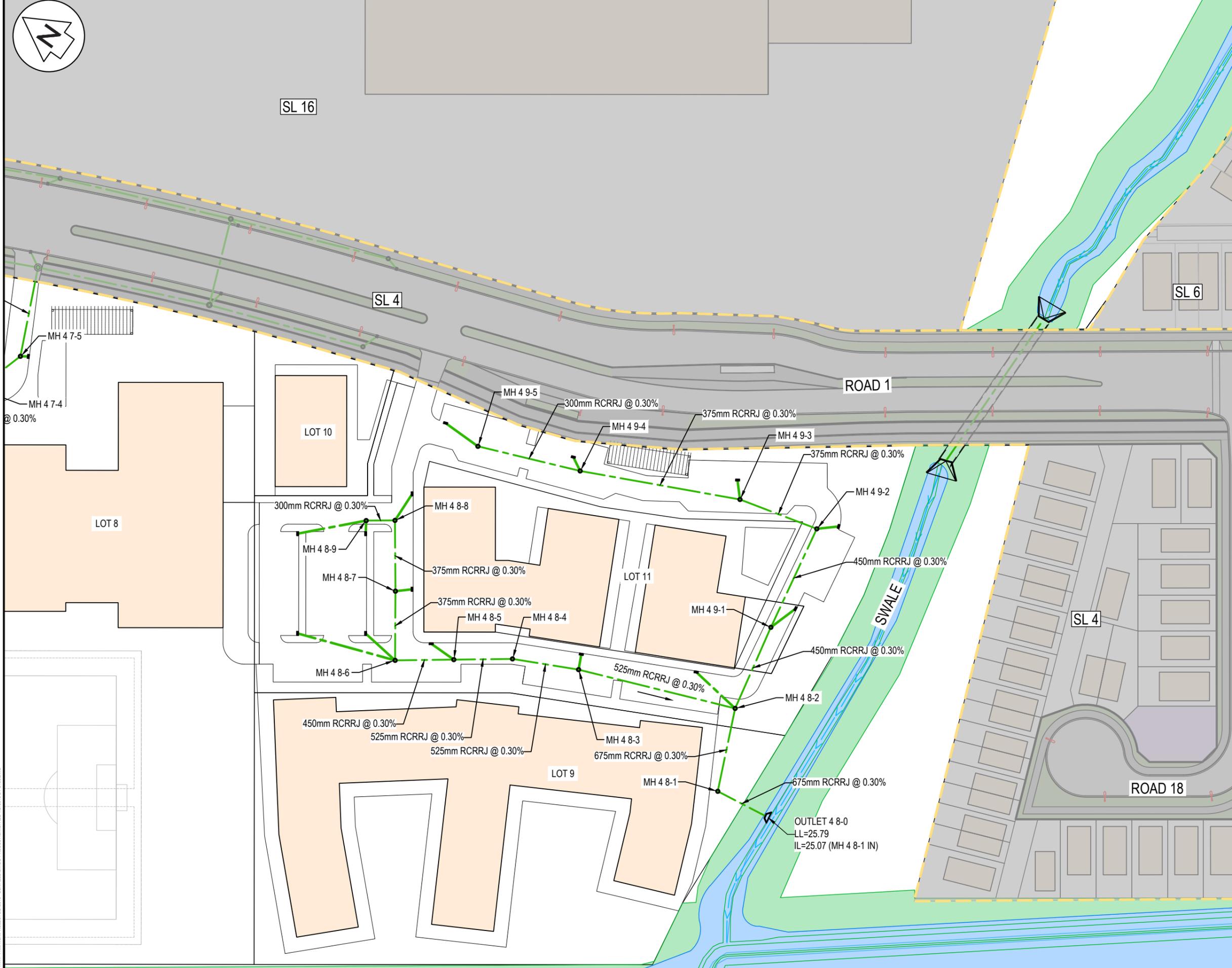
A	RESOURCE CONSENT	JAD	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	JAD		02/2025
Drawn	JAD		02/2025
Checked	JP/LC		02/2025

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

Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

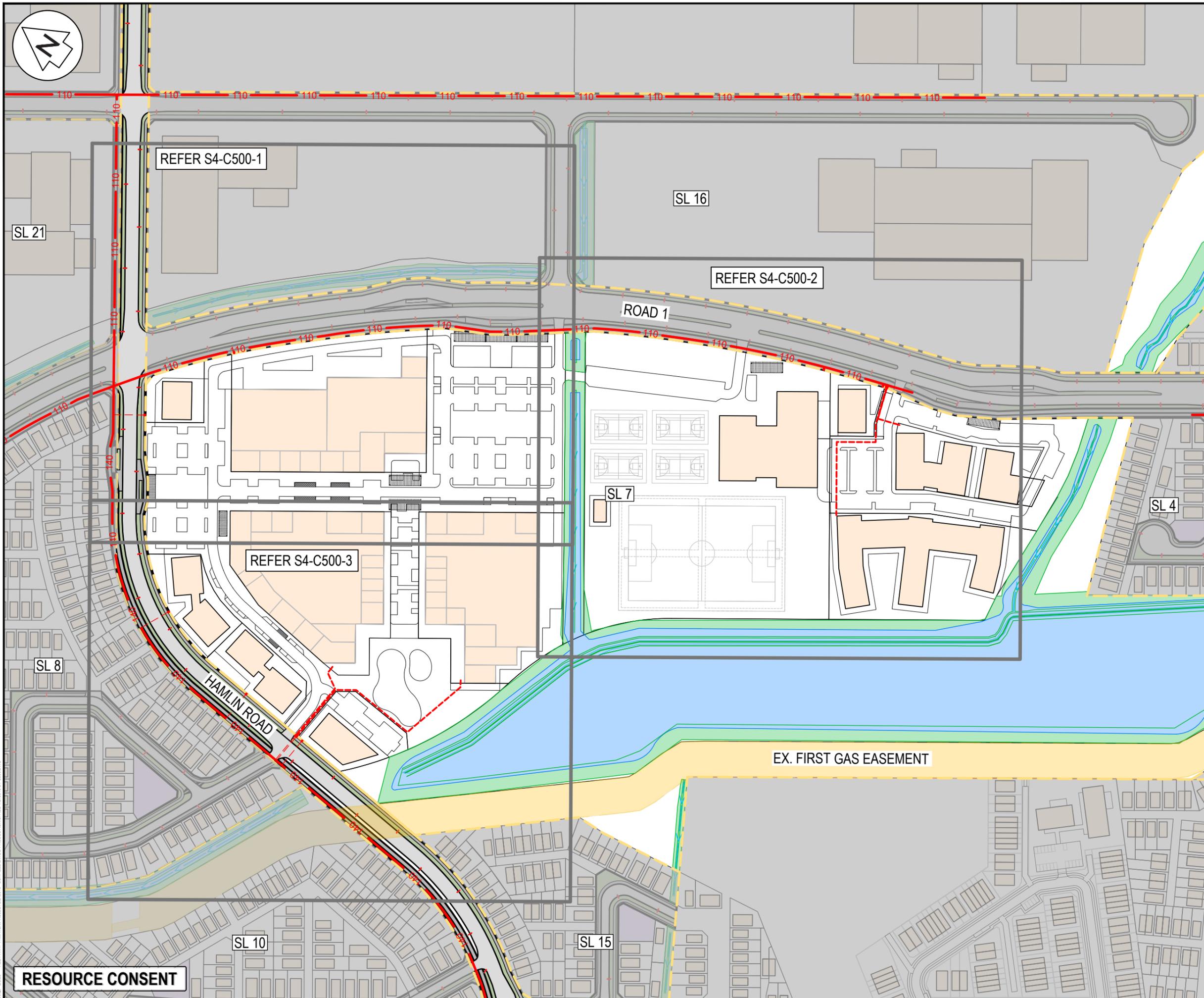
Title
**PROPOSED
 STORMWATER
 PLAN: SHEET 3**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C400.DWG
Drawing no.	S4-C400-3
Rev	A



RESOURCE CONSENT

DATE: 25/03 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\AS400-S4-C400.DWG



- 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 EARTH/FILL 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

	EXISTING BDY
	PROPOSED BDY
	EX WASTEWATER
	PR WASTEWATER PRIV
	PR WASTEWATER
	PR WASTEWATER BULK MAIN (LPS)
	PR BDY KIT - SINGLE
	PR BDY KIT - DOUBLE
	SUPER LOT BDY

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

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

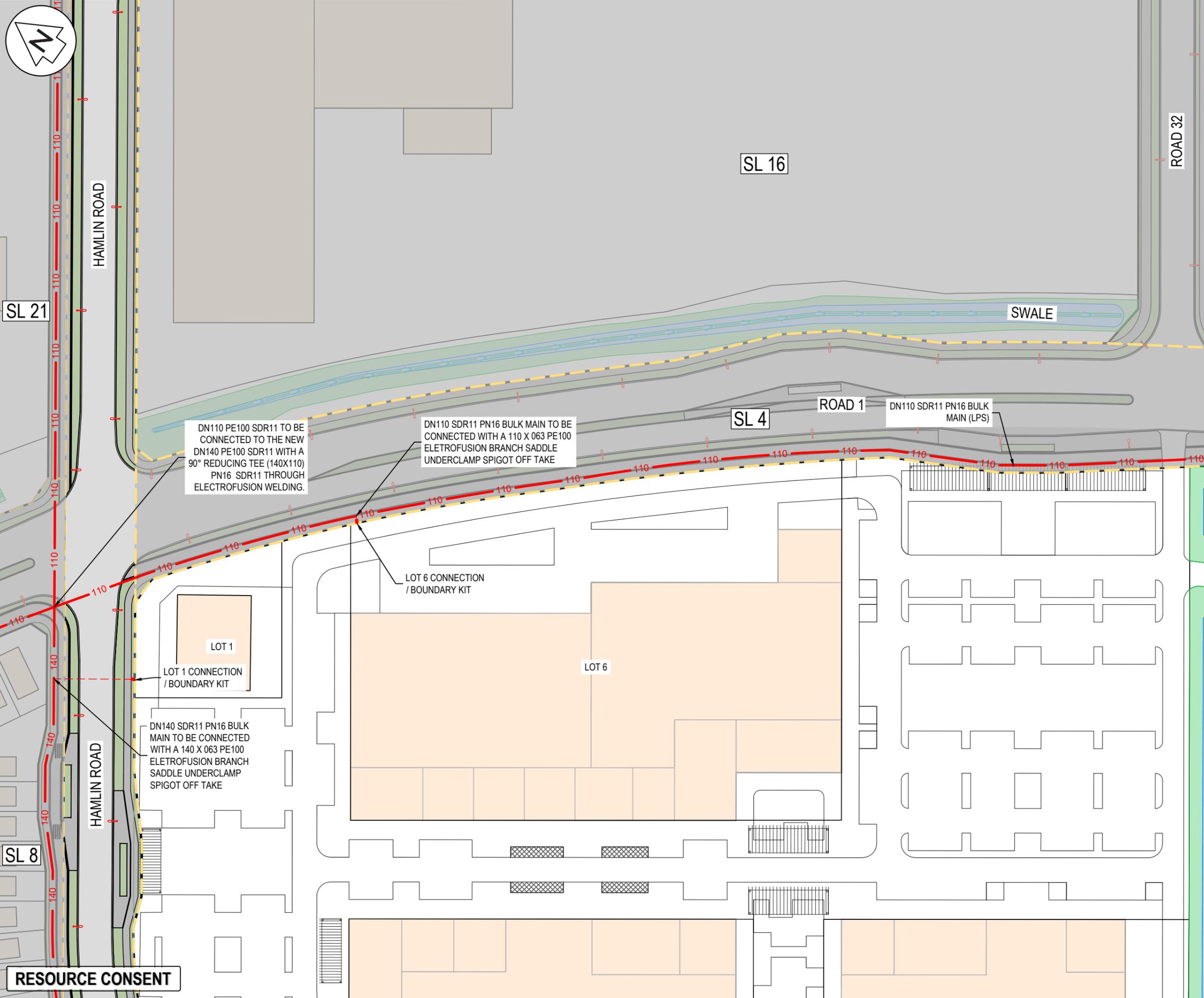
Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 WASTEWATER
 OVERVIEW**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-S4-C500.DWG
Drawing no.	S4-C500-0
Rev	A

RESOURCE CONSENT

DATE: 25/03 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\AS4-215010-S4-C500.DWG



- 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.

LEGEND

	EXISTING BDY
	PROPOSED BDY
	EX WASTEWATER
	PR WASTEWATER PRIV
	PR WASTEWATER
	PR WASTEWATER BULK MAIN (LPS)
	PR WASTEWATER BULK MAIN (LPS)
	PR BDY KIT - SINGLE
	PR BDY KIT - DOUBLE
	SUPER LOT BDY

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



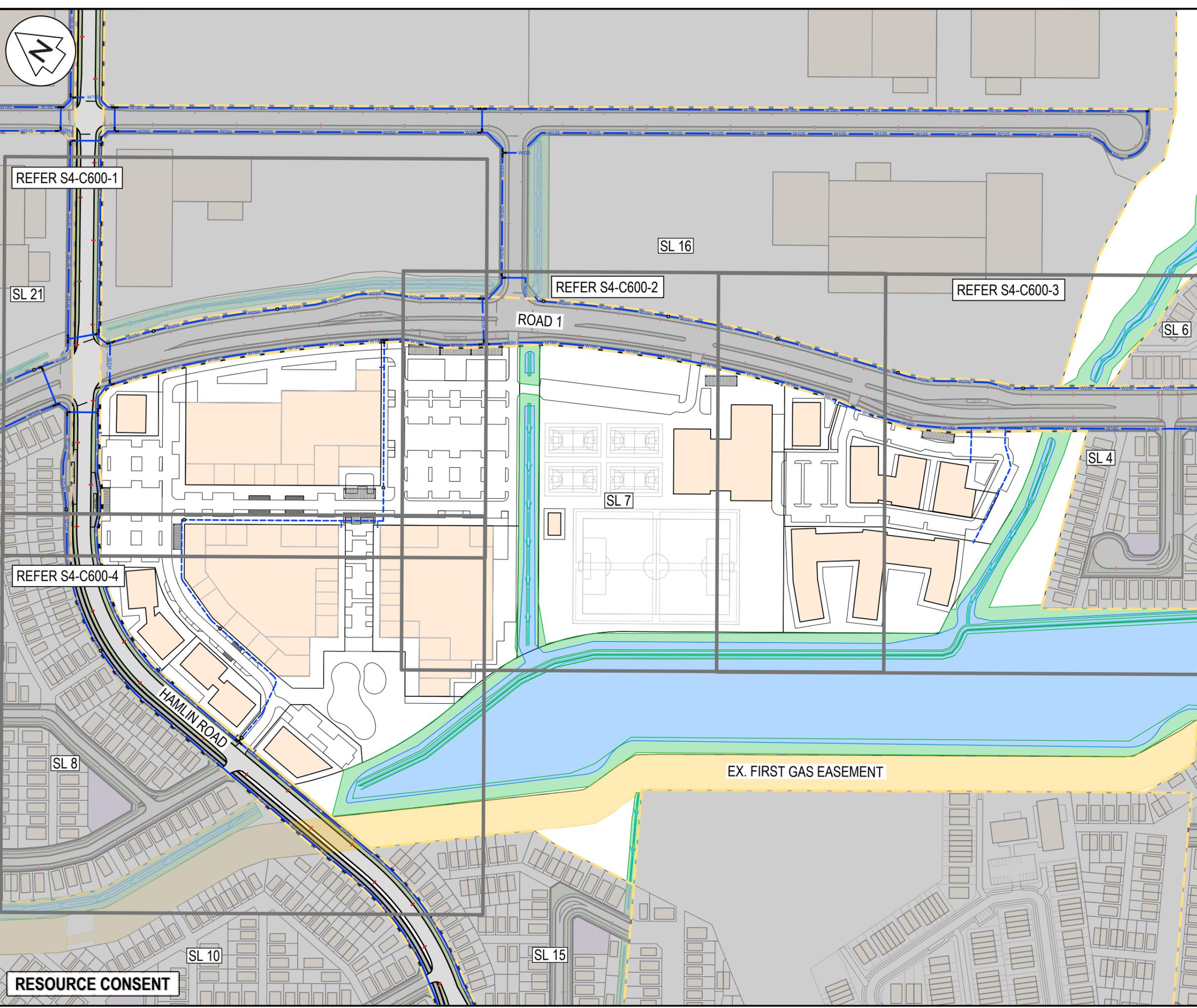
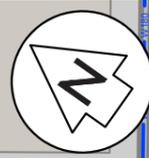
Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 WASTEWATER
 PLAN: SHEET 1**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C500.DWG
Drawing no.	S4-C500-1
Rev	A

DATE: 25/02 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\PRODUCTION\AS4-215010-S4-C500.DWG

RESOURCE CONSENT



- 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. 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 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 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.

LEGEND

	EX ABUTTING BDY
	PR BDY
	PR INTERNAL BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATERMAIN 100mm
	PR WATER PRIVATE
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE
	SUPER LOT BDY

A	RESOURCE CONSENT	DJ	02/2025
Rev	Description	By	Date
Survey	SURVEYWORK		02/2021
Design	SP		11/2024
Drawn	SP		12/2024
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
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

Title
**PROPOSED
 WATER SUPPLY
 OVERVIEW**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-S4-C600.DWG
Drawing no.	S4-C600-0
Rev	A

DATE: 25/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\AS4-215010-S4-C600.DWG

RESOURCE CONSENT



- 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.

LEGEND

---	EX ABUTTING BDY
---	PR BDY
---	PR INTERNAL BDY
---	EX WATERMAIN
---	PR WATERMAIN
---	PR WATERMAIN 100mm
---	PR WATER PRIVATE
[FH]	EX/PR HYDRANT
[WM]	EX/PR METER
[X]	EX SLUICE VALVE
[X]	EX PEET VALVE
[X]	PR SLUICE VALVE
[X]	PR PEET VALVE
---	SUPER LOT BDY

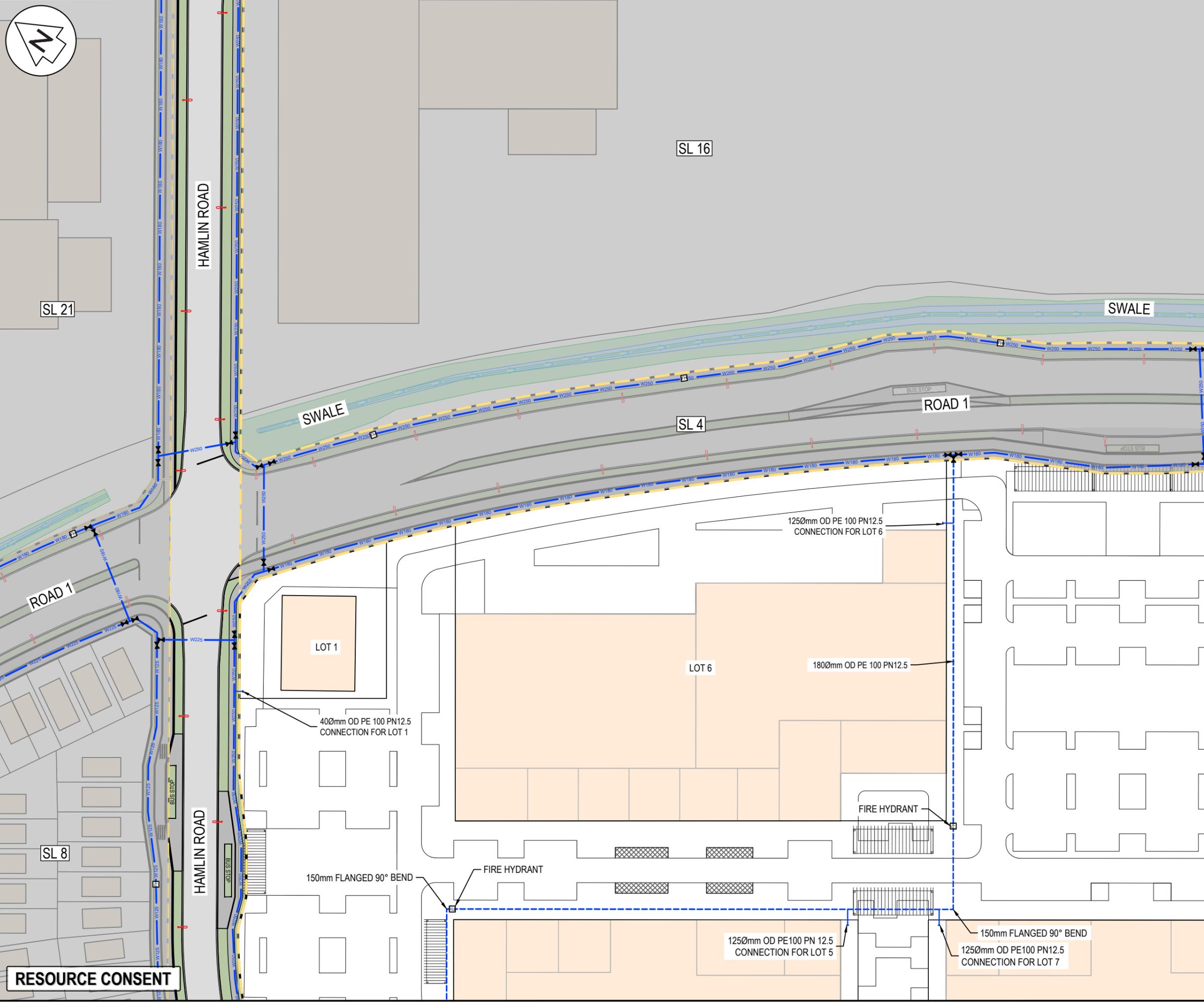
Rev	Description	By	Date
A	RESOURCE CONSENT	DJ	02/2025
Survey	SURVEYWORK		02/2021
Design	AS		11/2024
Drawn	KN		11/2024
Checked	JP/LC		02/2025

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
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

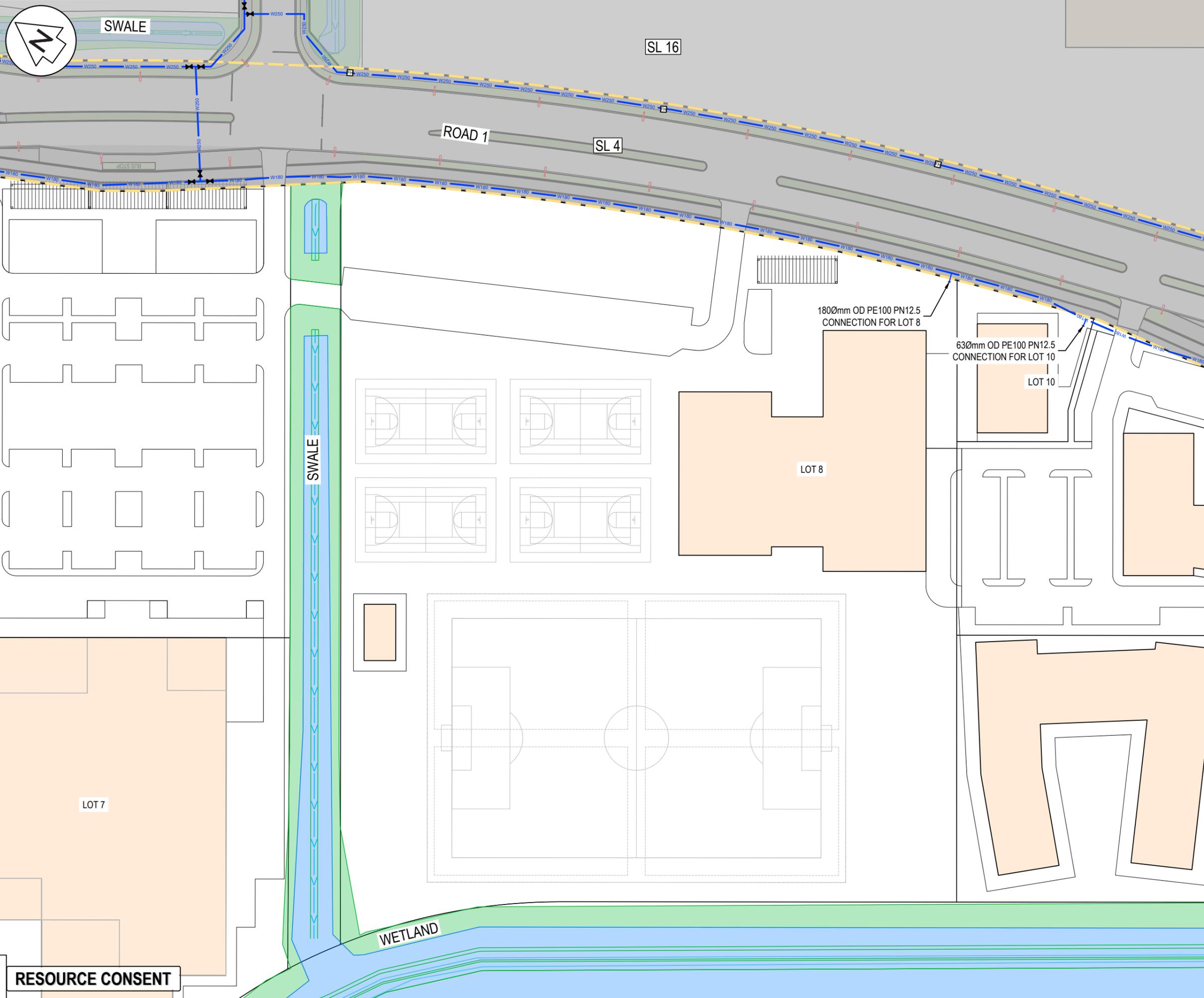
Title
**PROPOSED
 WATER SUPPLY
 PLAN: SHEET 1**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C600.DWG
Drawing no.	S4-C600-1
Rev	A



RESOURCE CONSENT

DATE: 25/25 FILE PATH: F:\Maven\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\AS3 42101010-S4-C600.DWG



- 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
 - WATERMANS 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 WATERMANS.
 - 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.

LEGEND

---	EX ABUTTING BDY
---	PR BDY
---	PR INTERNAL BDY
---	EX WATERMAIN
---	PR WATERMAIN
---	PR WATERMAIN 100mm
---	PR WATER PRIVATE
FH	EX/PR HYDRANT
WM	EX/PR METER
⊗	EX SLUICE VALVE
⊗	EX PEET VALVE
⊗	PR SLUICE VALVE
⊗	PR PEET VALVE
---	SUPER LOT BDY

A	RESOURCE CONSENT	DJ	02/2025
Rev	Description	By	Date
	Survey	SURVEYWORX	02/2021
	Design	AS	11/2024
	Drawn	KN	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

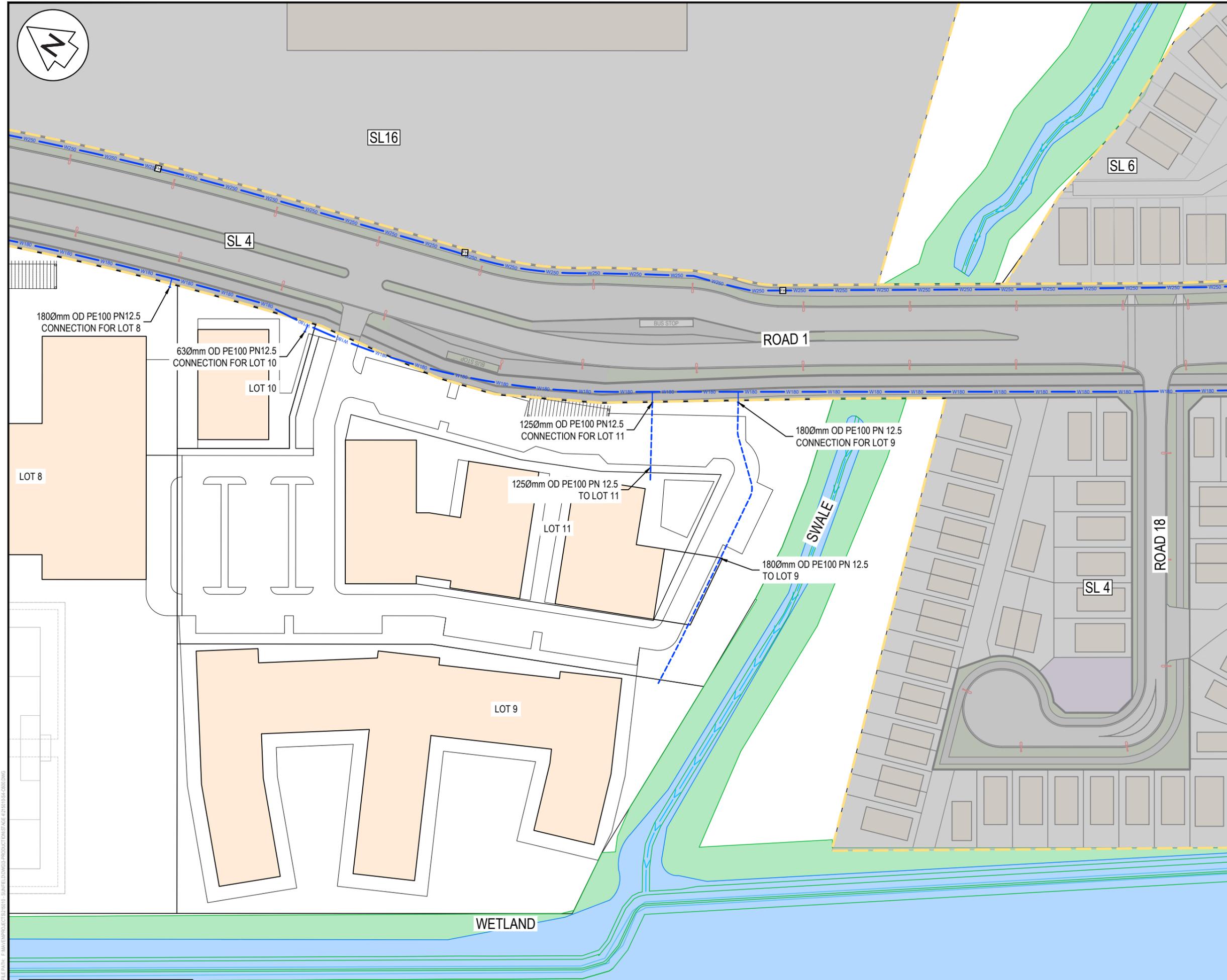
Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

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

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C600.DWG
Drawing no.	S4-C600-2
Rev	A

DATE: 25/02 FILE PATH: F:\Maven\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\STAGE 4\215010-S4-C600.DWG

RESOURCE CONSENT



- 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 PN12.5 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.

- LEGEND
- EX ABUTTING BDY
 - PR BDY
 - PR INTERNAL BDY
 - EX WATERMAIN
 - PR WATERMAIN
 - PR WATERMAIN 100mm
 - PR WATER PRIVATE
 - EX/PR HYDRANT
 - EX/PR METER
 - EX SLUICE VALVE
 - EX PEET VALVE
 - PR SLUICE VALVE
 - PR PEET VALVE
 - SUPER LOT BDY

A	RESOURCE CONSENT	DJ	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	AS		11/2024
Drawn	KN		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

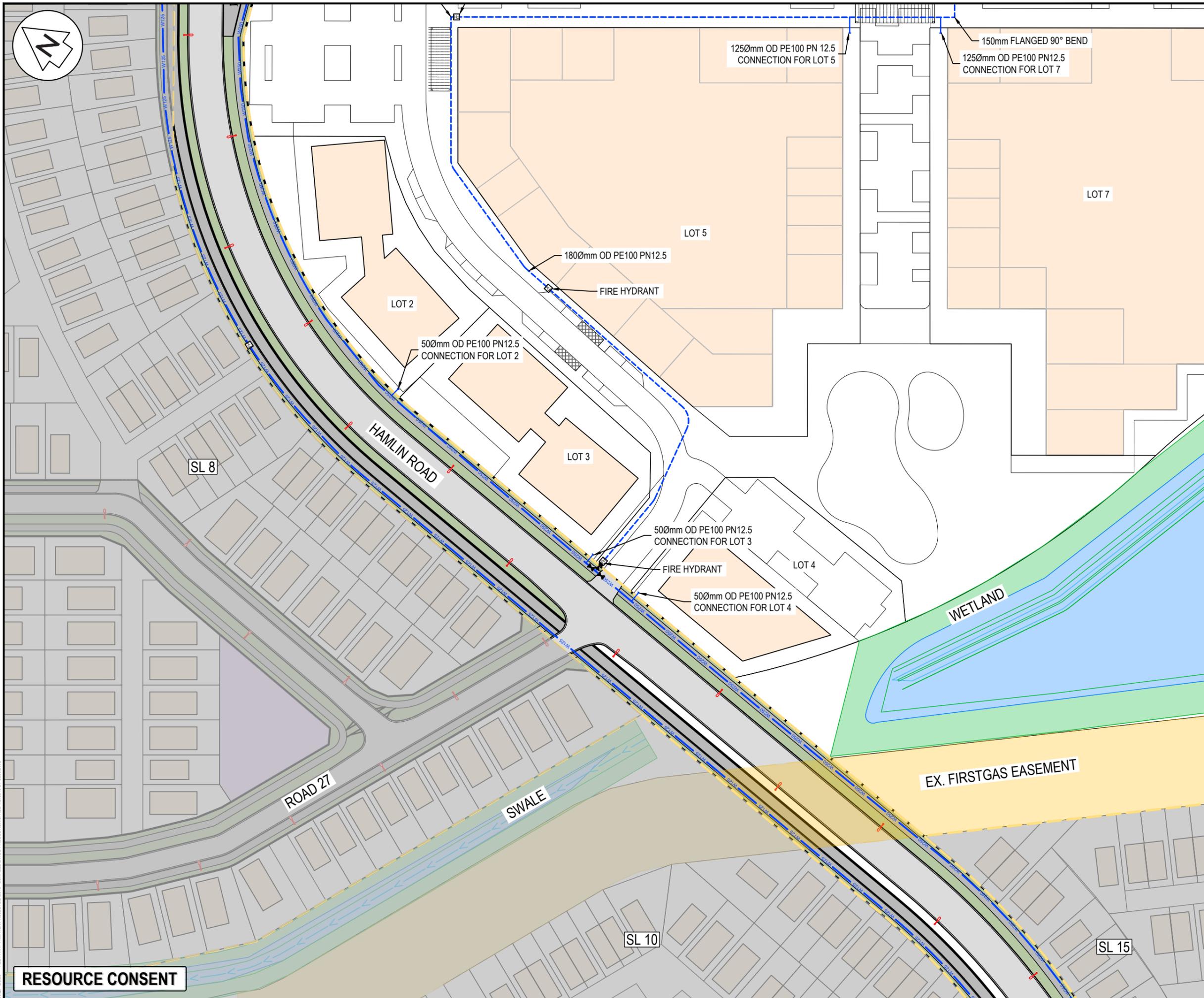
Project
**SUNFIELD DEVELOPMENT
 ARDMORE, AUCKLAND
 SUPERLOT 7
 FOR SUNFIELD
 DEVELOPMENTS LIMITED**

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

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C600.DWG
Drawing no.	S4-C600-3
Rev	A

DATE: 25/02 FILE PATH: F:\Maven\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\STAGE 4\215010-S4-C600.DWG

RESOURCE CONSENT



- 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. 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 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 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.

LEGEND

	EX ABUTTING BDY
	PR BDY
	PR INTERNAL BDY
	EX WATERMAIN
	PR WATERMAIN
	PR WATERMAIN 100mm
	PR WATER PRIVATE
	EX/PR HYDRANT
	EX/PR METER
	EX SLUICE VALVE
	EX PEET VALVE
	PR SLUICE VALVE
	PR PEET VALVE
	SUPER LOT BDY

A	RESOURCE CONSENT	DJ	02/2025
Rev	Description	By	Date
Survey	SURVEYWORX		02/2021
Design	AS		11/2024
Drawn	KN		11/2024
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
SUPERLOT 7
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
WATER SUPPLY
PLAN: SHEET 4**

Project no.	215010
Scale	1:1000 @ A3
Cad file	215010-S4-C600.DWG
Drawing no.	S4-C600-4
Rev	A

RESOURCE CONSENT

DATE: 25/25 FILE PATH: F:\MVEN\PROJECT\S215010 - SUNFIELD\DWG\PRODUCTION\AS3 4215010-S4-C600.DWG