

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
---	PR BDY
---	EX STORMWATER
---	PR STORMWATER
⊙	EX/PR SWMH
⊞	PR SWCP SINGLE
⊞	PR SWCP DOUBLE
---	PR LOT CONNECTION

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

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Auckland 1023

Project

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

Title

**PROPOSED
STORMWATER OVERVIEW
PLAN: SHEET 6**

Project no.	215010
Scale	1:2500 @ A3
Cad file	215010-M-C400.DWG
Drawing no.	M-C406
Rev	A

DATE: 27/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLANNING\215010-M-C400.DWG



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- LEGEND
- EX BDY
 - PR BDY
 - SWALE FLOW DIRECTION
 - SWALE TOP/BASE
 - PR SW SWALES
 - EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	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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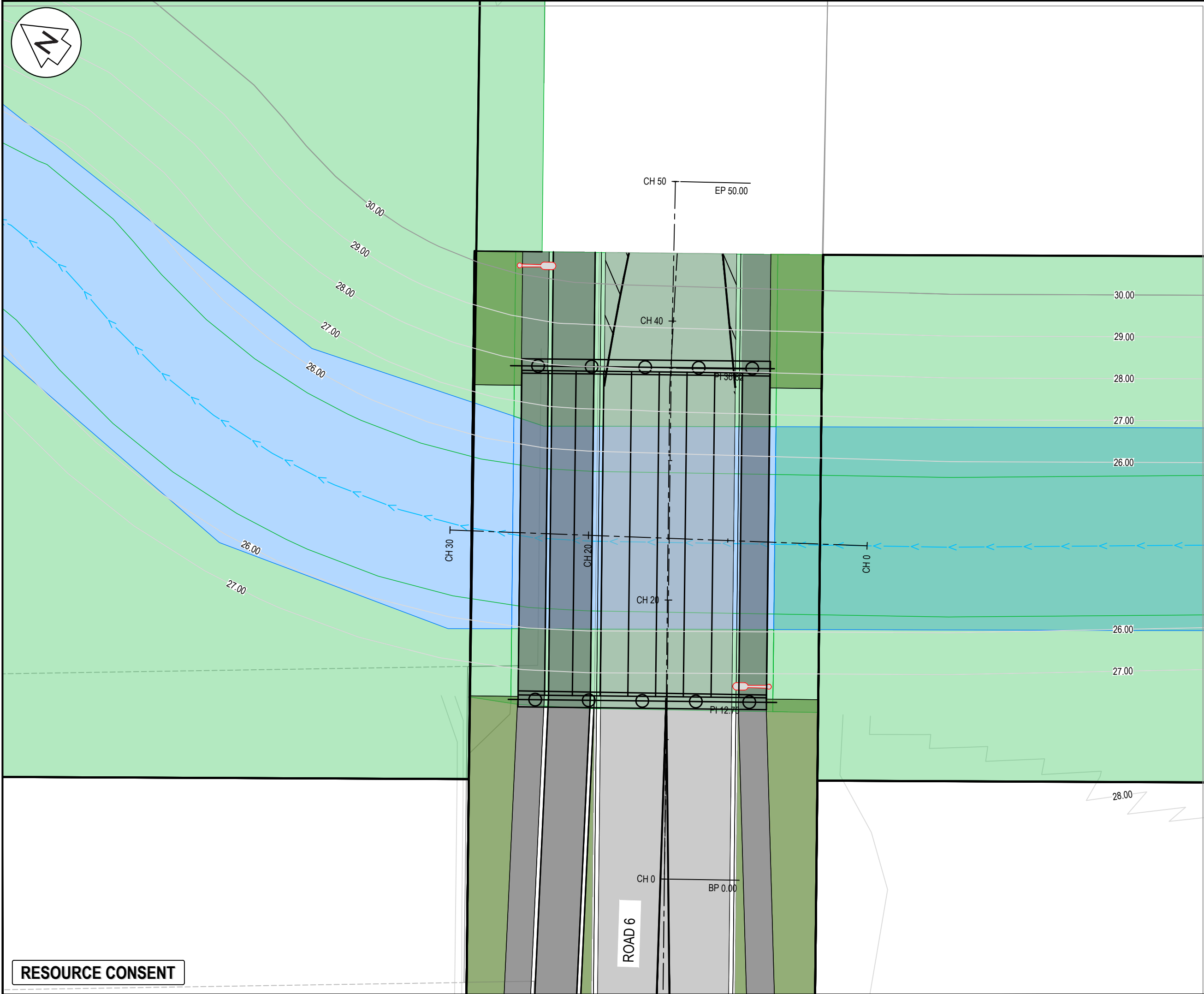
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
BRIDGE
OVERVIEW PLAN**

Project no.	215010		
Scale	1:7500 @ A3		
Cad file	215010-M-C430.DWG		
Drawing no.	M-C430	Rev	A

DATE: 2/7/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N0215010-M-C430.DWG

RESOURCE CONSENT



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LEGEND

---	EX BDY
---	PR BDY
→→→	SWALE FLOW DIRECTION
---	SWALE TOP/BASE
---	PR SW SWALES
---	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	02/2025
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		By	Date
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ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

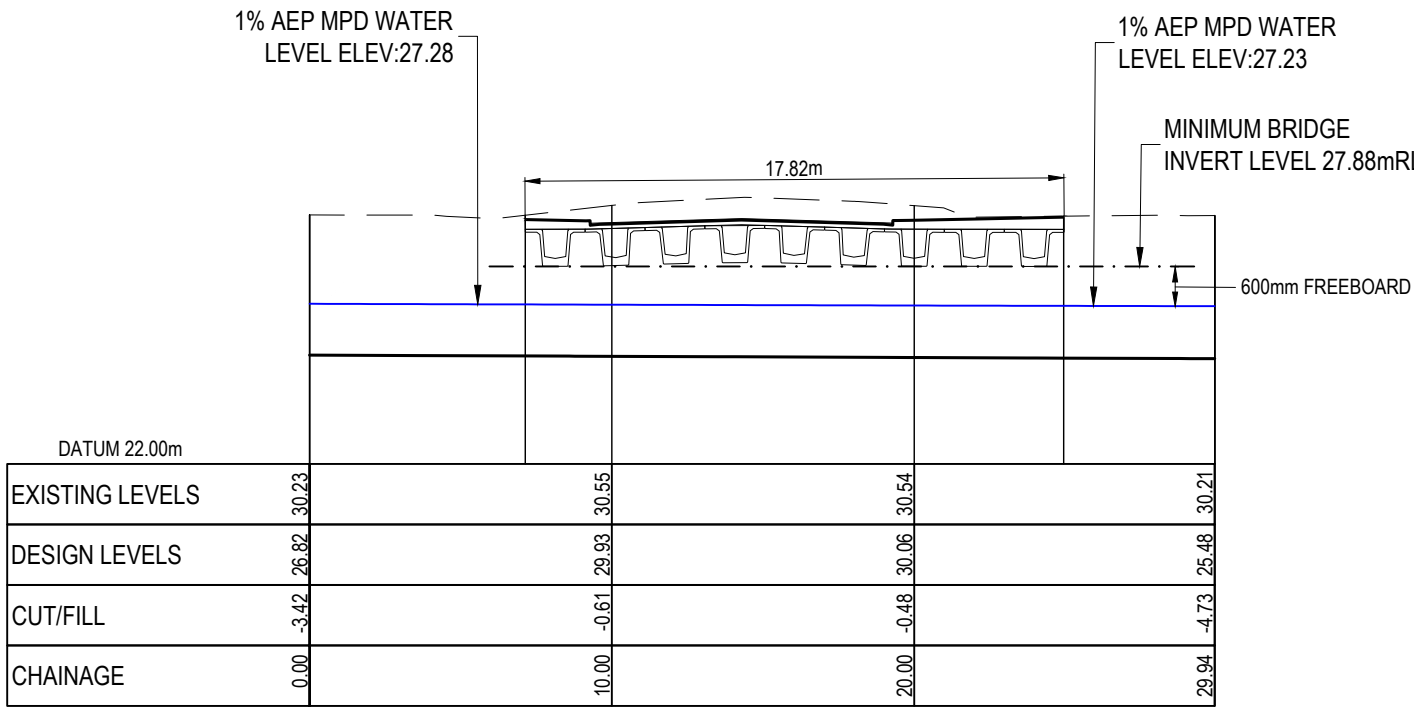
Title
**PROPOSED
ROAD 6 BRIDGE
SHEET 1**

Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C430.DWG		
Drawing no.	M-C431-1	Rev	A

DATE: 27/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLAN\0215010-M-C430.DWG

RESOURCE CONSENT

DATE: 27/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C430.DWG



ROAD 6 - BRIDGE
SCALE: HORI 1:250 VERT 1:250

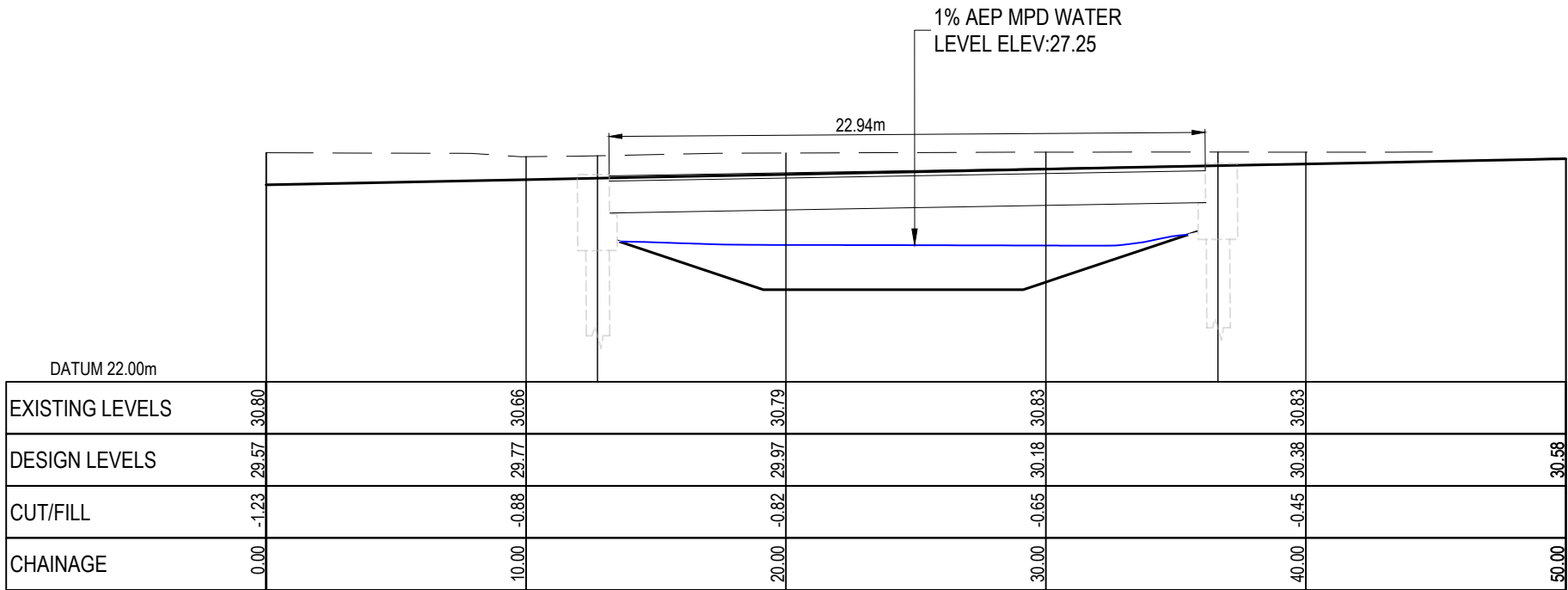
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LEGEND:

--- EX GROUND SURFACE

— PR FINISHED GROUND SURFACE

— 1% AEP (MPD) WATER LEVEL

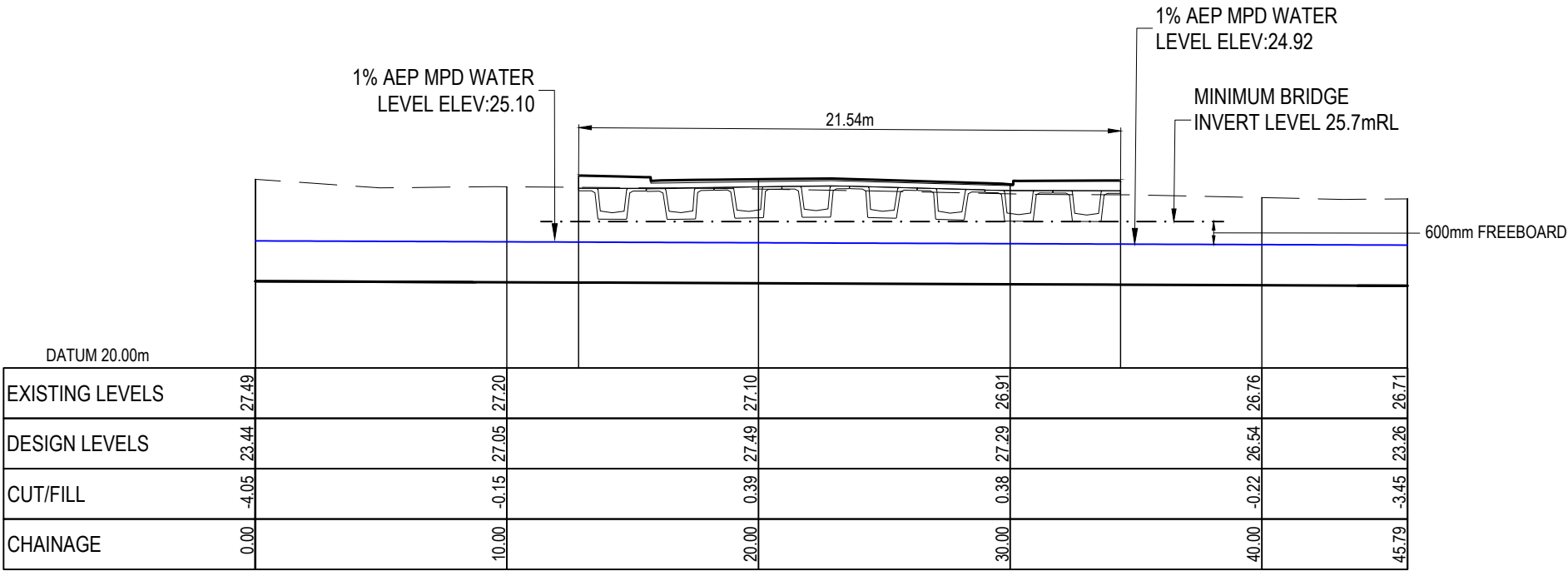


ROAD 6 - BRIDGE LS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

A	RESOURCE CONSENT		OQ	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					
MASTER PLANNING					
FOR SUNFIELD					
DEVELOPMENTS LIMITED					
Title					
PROPOSED					
ROAD 6 BRIDGE					
SHEET 2					
Project no.		215010			
Scale		1:250 @ A3			
Cad file		215010-M-C430.DWG			
Drawing no.		M-C431-2		Rev	A

DATE: 27/25 FILE PATH: F:\MAYN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C430.DWG

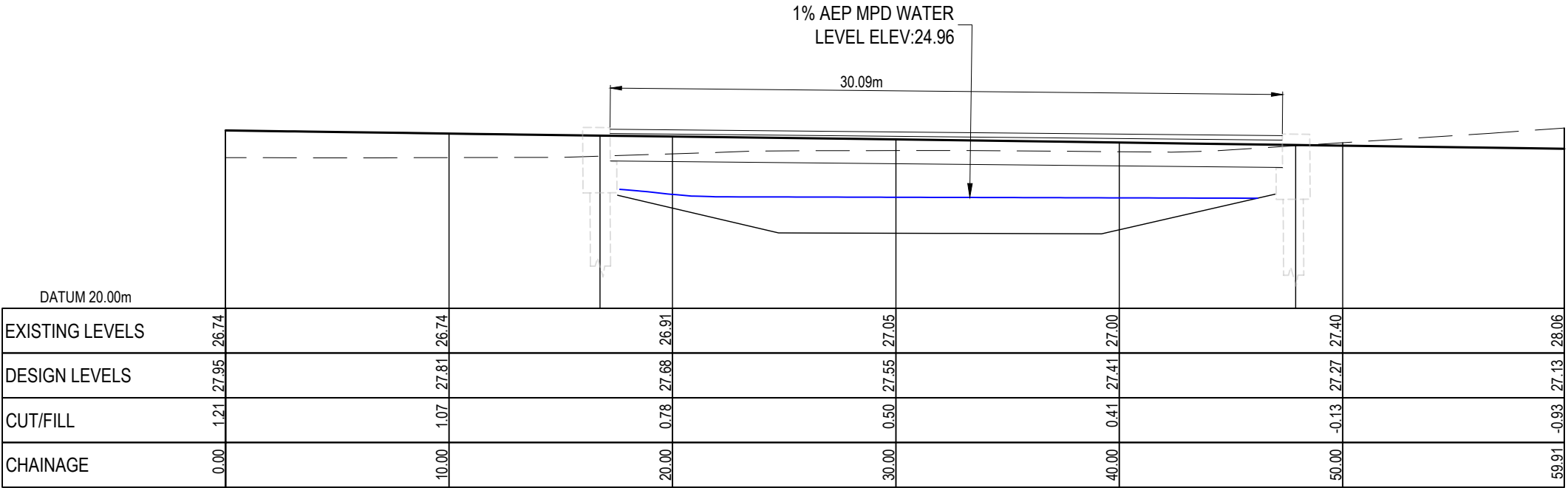


ROAD 7 - BRIDGE
SCALE: HORI 1:250 VERT 1:250

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LEGEND:

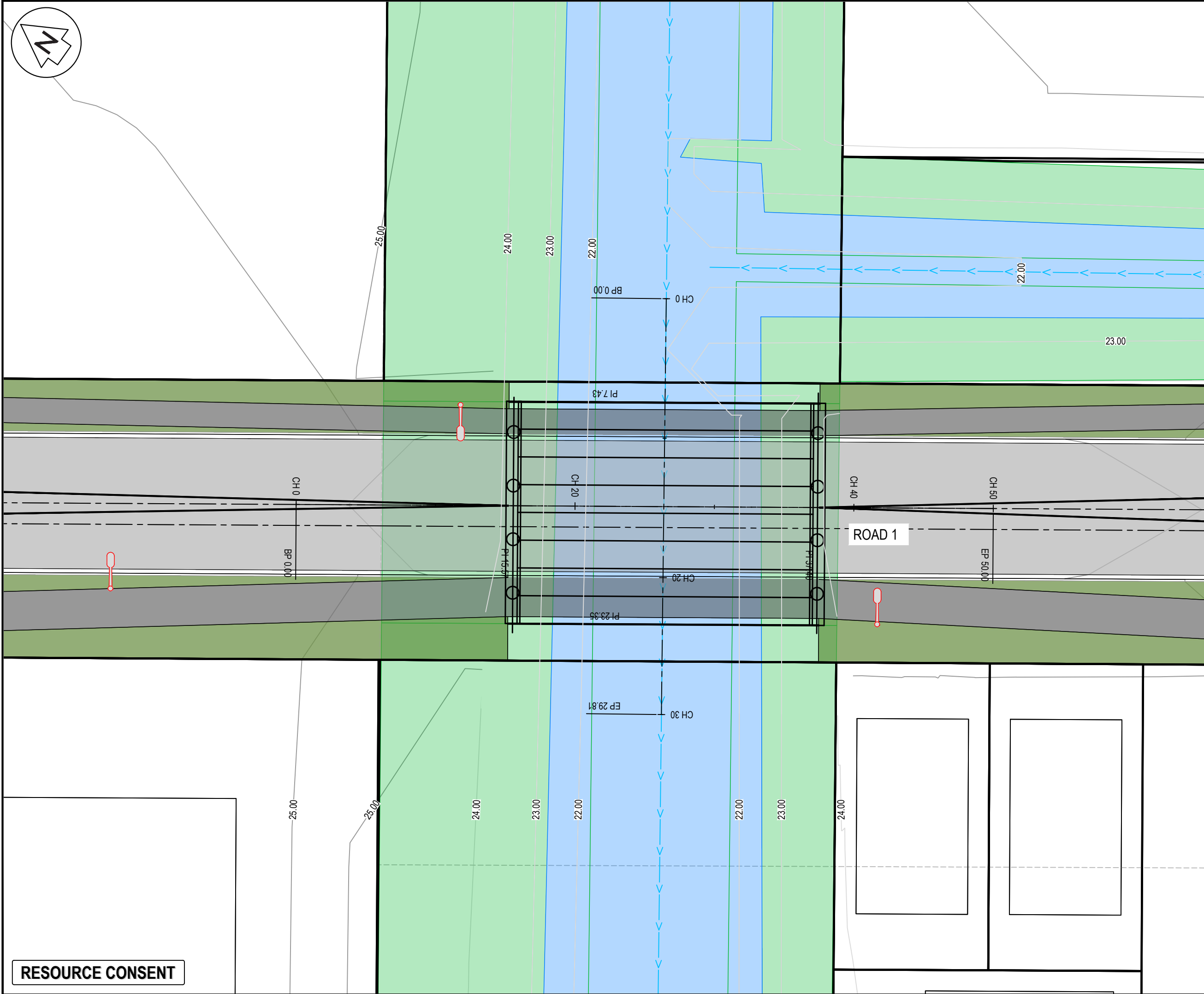
- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- 1% AEP (MPD) WATER LEVEL



ROAD 7 - BRIDGE LS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

A	RESOURCE CONSENT		OQ	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		
<div><div><div>M</div><div>A</div><div>E</div><div>N</div></div><div><div>Maven Associates</div><div>09 571 0050</div><div>info@maven.co.nz</div><div>www.maven.co.nz</div><div>5 Owens Road, Epsom</div><div>Auckland 1023</div></div></div>					
Project					
SUNFIELD DEVELOPMENT					
ARDMORE, AUCKLAND					
MASTER PLANNING					
FOR SUNFIELD					
DEVELOPMENTS LIMITED					
Title					
PROPOSED					
ROAD 7 BRIDGE					
SHEET 2					
Project no.		215010			
Scale		1:250 @ A3			
Cad file		215010-M-C430.DWG			
Drawing no.		M-C432-2		Rev	A



- LEGEND
- | | |
|-------|-----------------------|
| --- | EX BDY |
| — | PR BDY |
| →→→→→ | SWALE FLOW DIRECTION |
| — | SWALE TOP/BASE |
| ■ | PR SW SWALES |
| ■ | EX FIRST GAS EASEMENT |



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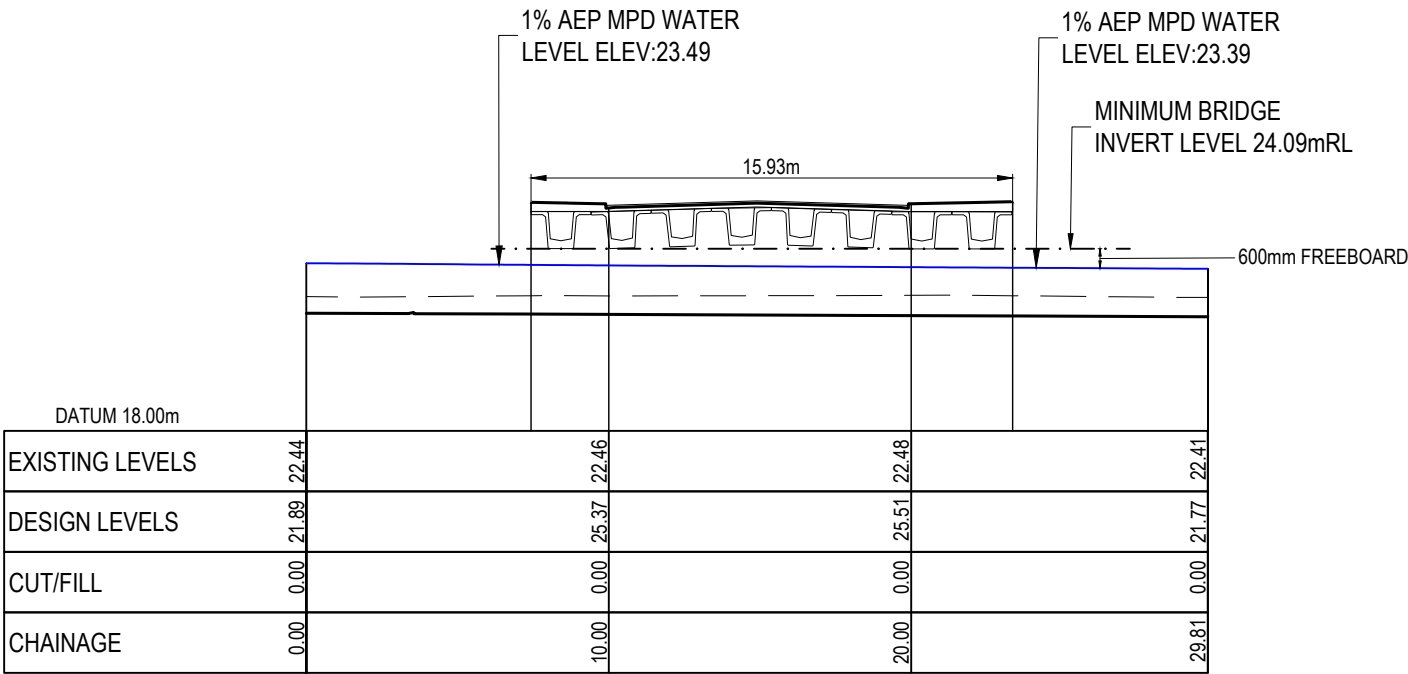
Title

**PROPOSED
ROAD 1 BRIDGE
SHEET 1**

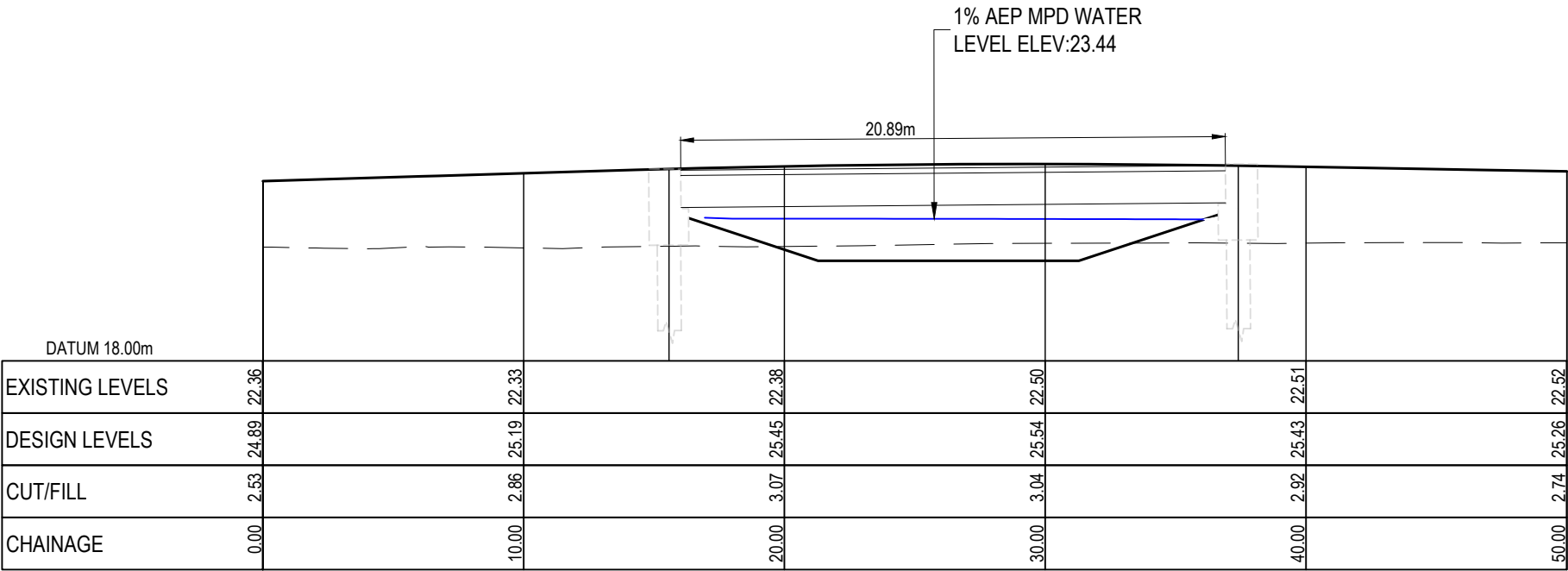
Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C430.DWG		
Drawing no.	M-C433-1	Rev	A

RESOURCE CONSENT

DATE: 27/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C430.DWG



ROAD 1 BRIDGE
SCALE: HORI 1:250 VERT 1:250



ROAD 1 - BRIDGE LS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

- NOTES
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LEGEND:

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- 1% AEP (MPD) WATER LEVEL

A	RESOURCE CONSENT	OQ	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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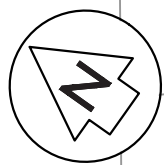
Project

**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title

**PROPOSED
ROAD 1 BRIDGE
SHEET 2**

Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C430.DWG		
Drawing no.	M-C433-2	Rev	A



- NOTES
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- LEGEND
- EX BDY
 - PR BDY
 - SWALE FLOW DIRECTION
 - SWALE TOP/BASE
 - PR SW SWALES
 - EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
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Survey	SURVEYWORX		02/2021
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Drawn	OQ		11/2024
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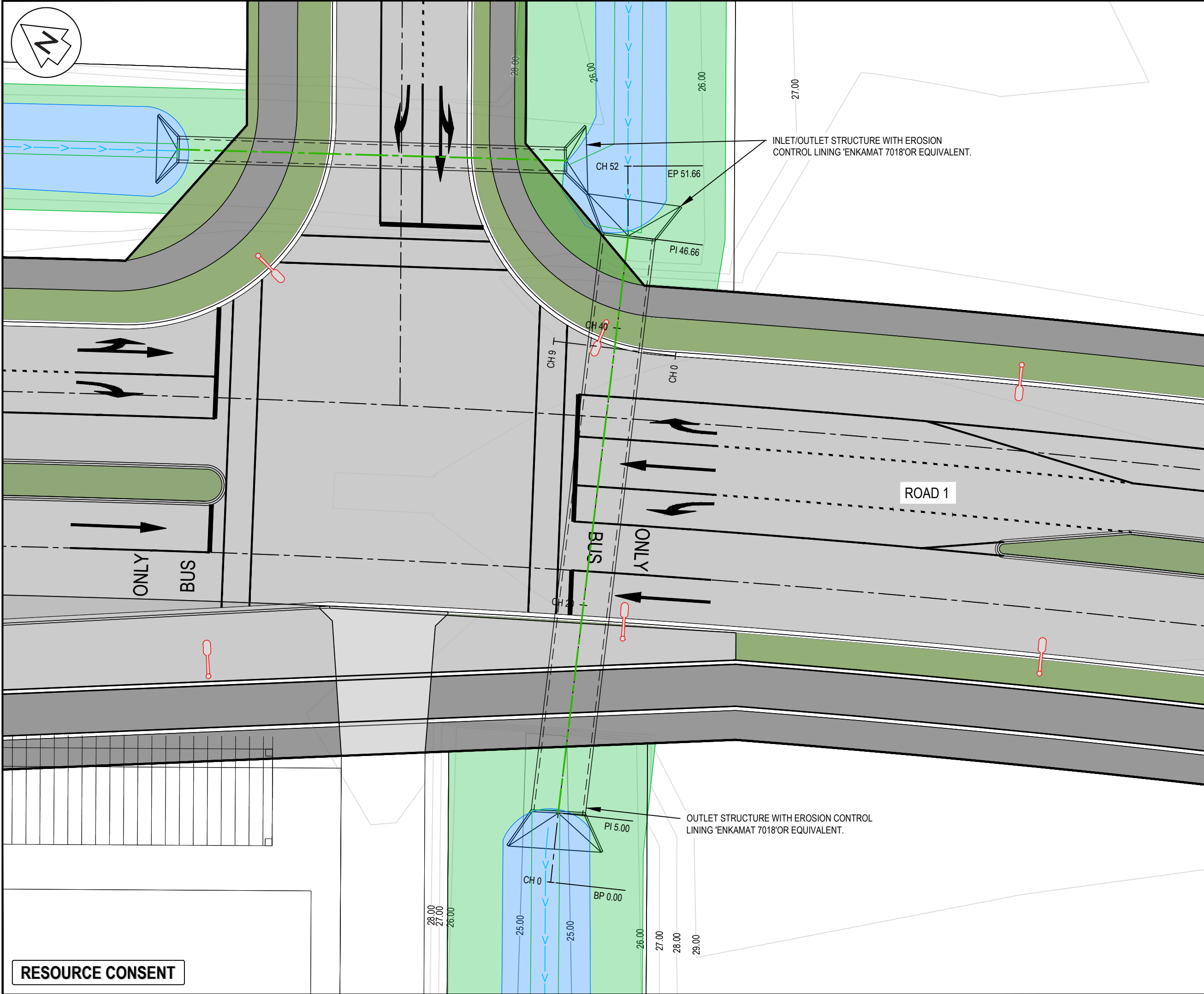
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
CULVERT
OVERVIEW PLAN**

Project no.	215010		
Scale	1:10000 @ A3		
Cad file	215010-M-C440.DWG		
Drawing no.	M-C4400	Rev	A

RESOURCE CONSENT



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LEGEND

	EX BDY
	PR BDY
	SWALE FLOW DIRECTION
	SWALE TOP/BASE
	PR SW SWALES
	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
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Survey	SURVEYWORX		02/2021
Design	YW		11/2024
Drawn	OQ		11/2024
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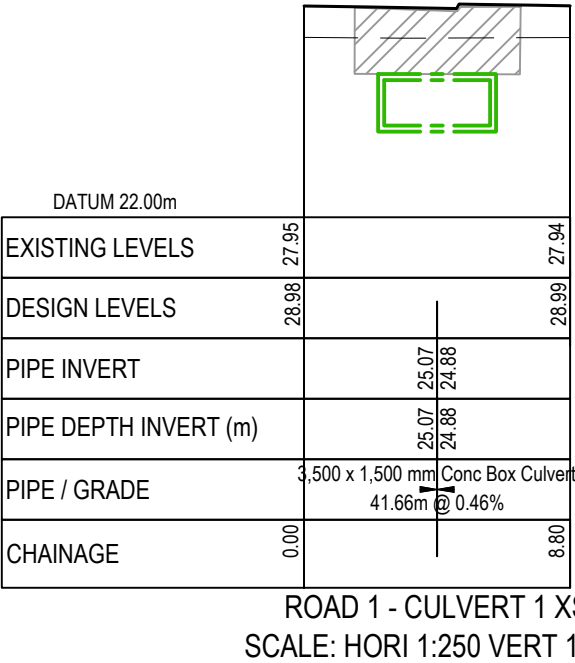
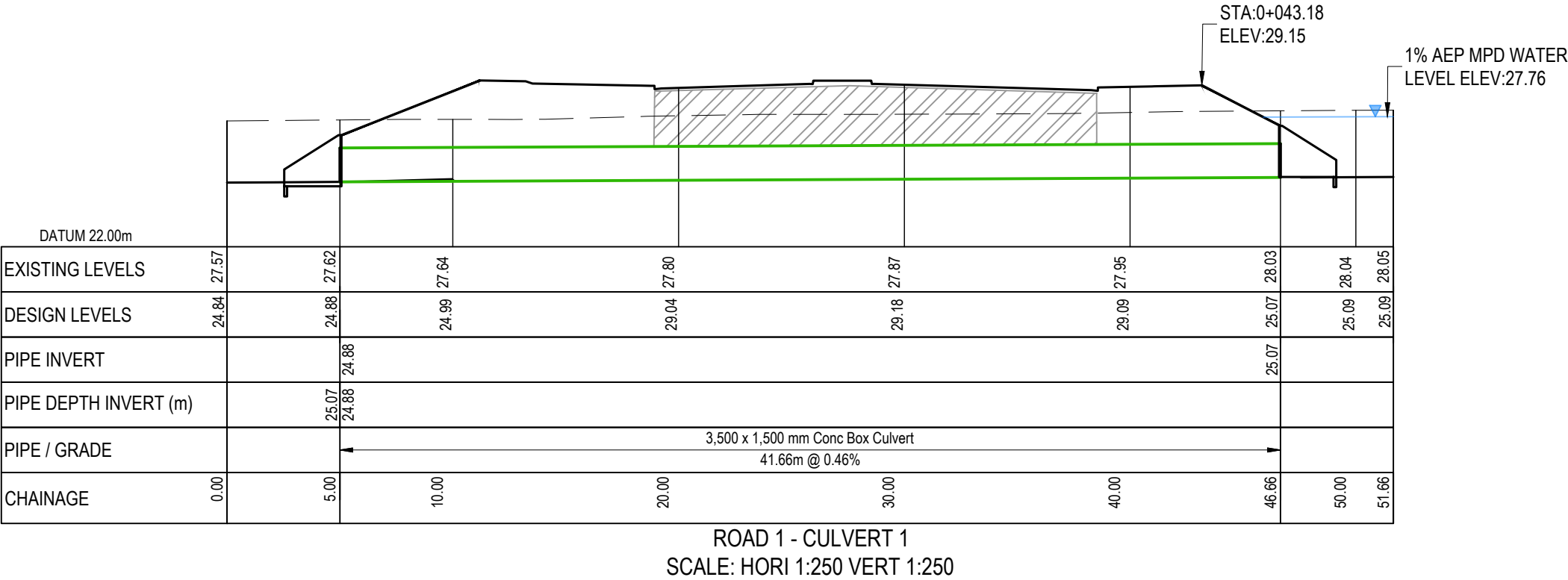
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 1 CULVERT 1
SHEET 1**

Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C440.DWG		
Drawing no.	M-C4401-1	Rev	A

DATE: 27/25 FILE PATH: F:\MAYN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



RESOURCE CONSENT

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- LEGEND:
- EX GROUND SURFACE
 - PR FINISHED GROUND SURFACE
 - SW PIPE CROSSING
 - SW CULVERT CROSSING
 - HARDFILL BACKFILL

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

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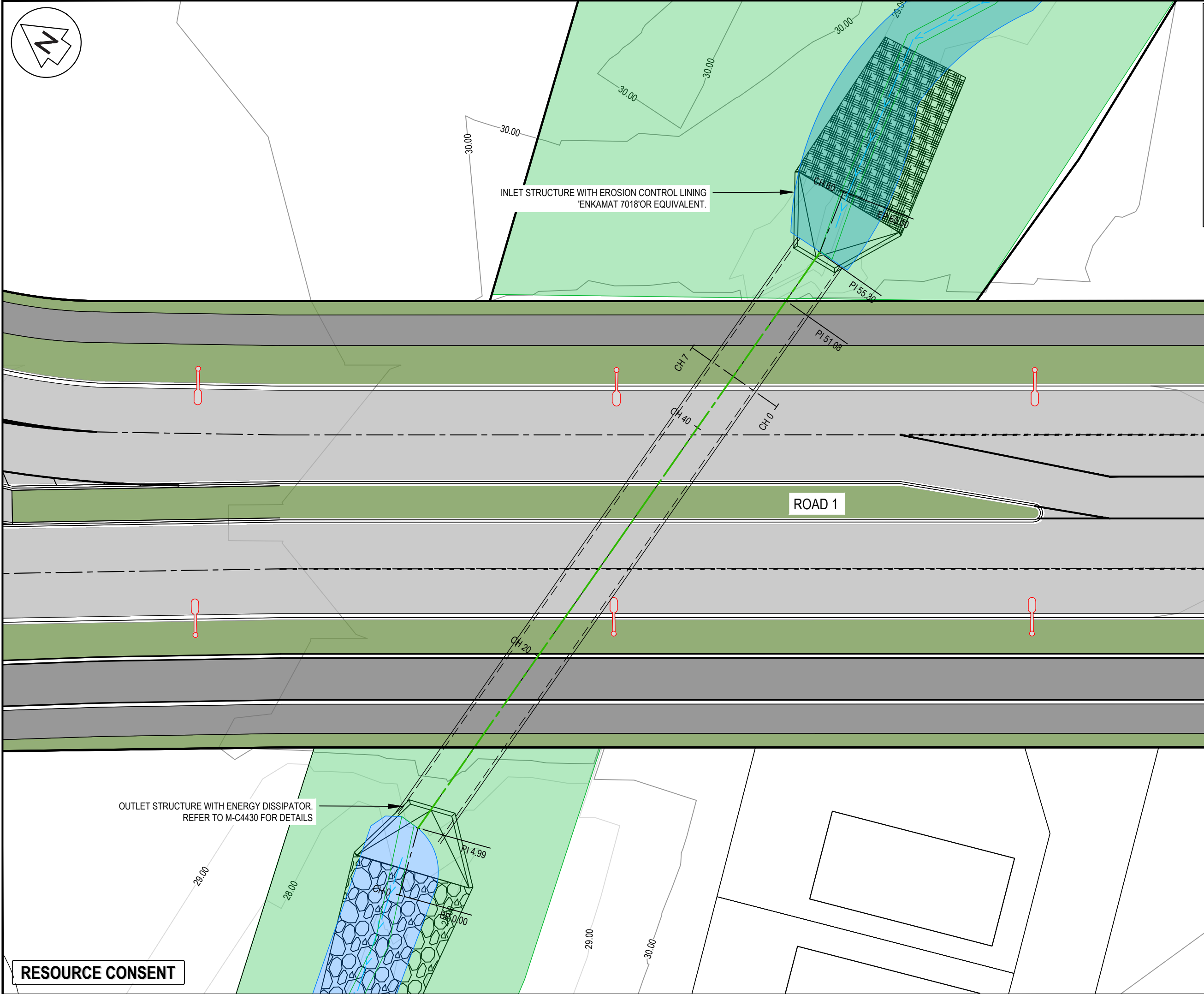
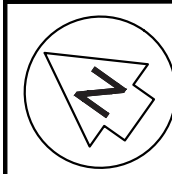
5 Owens Road, Epsom

Auckland 1023

Project
SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED

Title
PROPOSED
ROAD 1 CULVERT 1
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4401-2
Rev	A



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 8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND

---	EX BDY
---	PR BDY
---	SWALE FLOW DIRECTION
---	SWALE TOP/BASE
---	PR SW SWALES
---	EX FIRST GAS EASEMENT

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

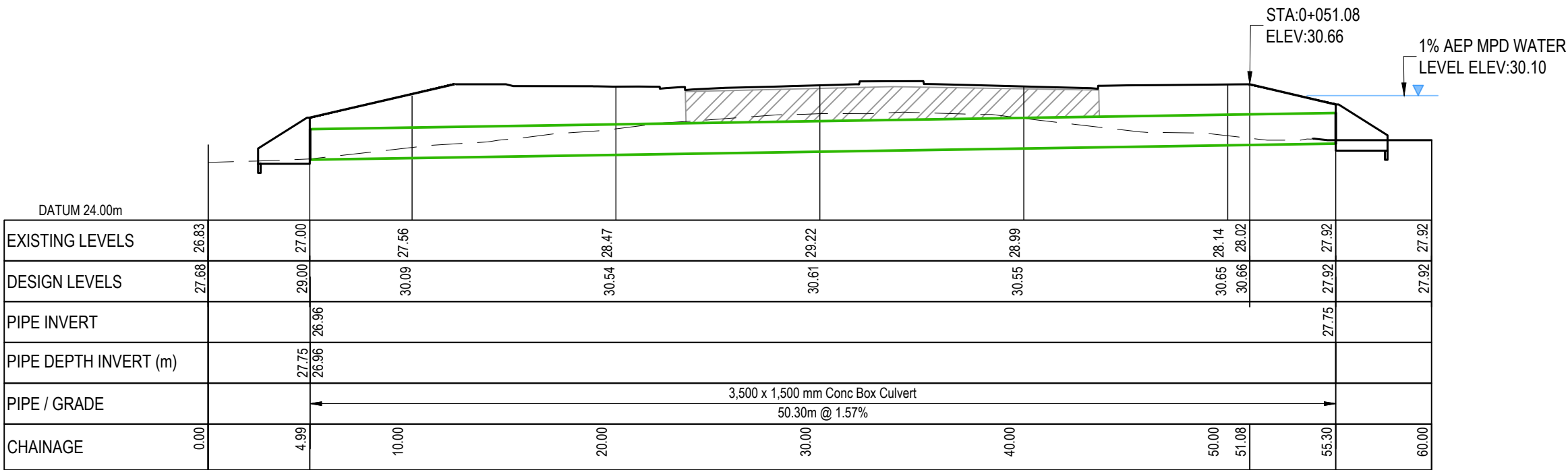
M **Maven Associates**
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

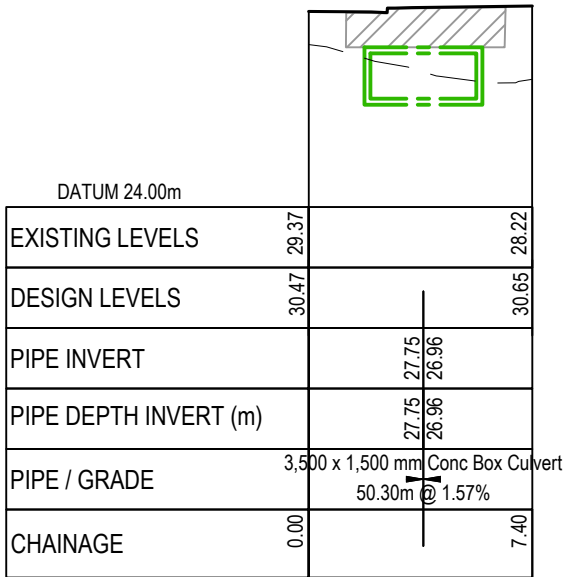
Title
**PROPOSED
ROAD 1 CULVERT 2
SHEET 1**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4402-1
Rev	A

DATE: 27/05 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 1 - CULVERT 2
SCALE: HORI 1:250 VERT 1:250



ROAD 1 - CULVERT 2 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

- NOTES:
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
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LEGEND:

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

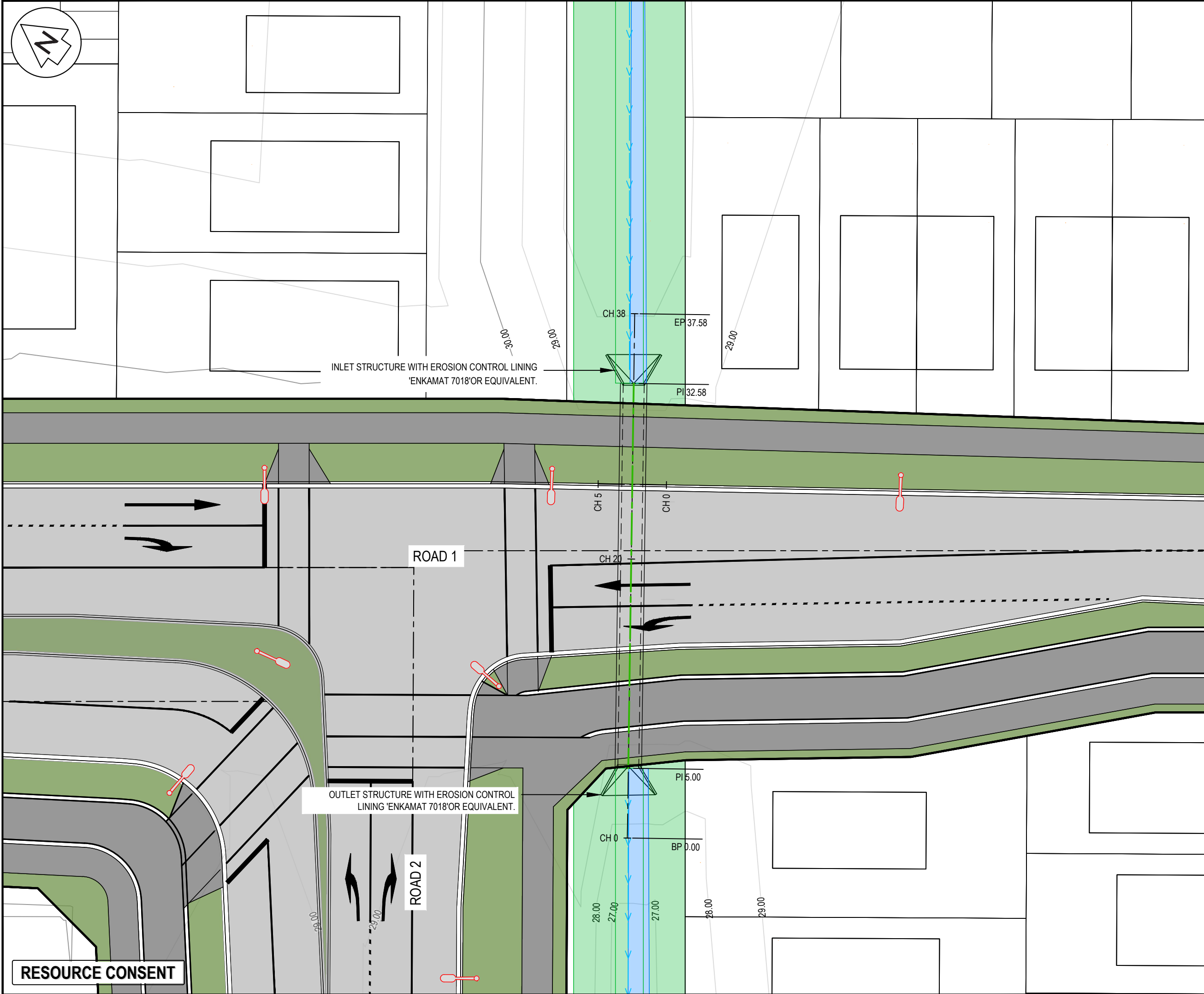
A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	YW		11/2024
Drawn	OQ		11/2024
Checked	JP/LC		02/2025

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 1 CULVERT 2
SHEET 2**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4402-2
Rev	A



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

---	EX BDY
---	PR BDY
---	SWALE FLOW DIRECTION
---	SWALE TOP/BASE
---	PR SW SWALES
---	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	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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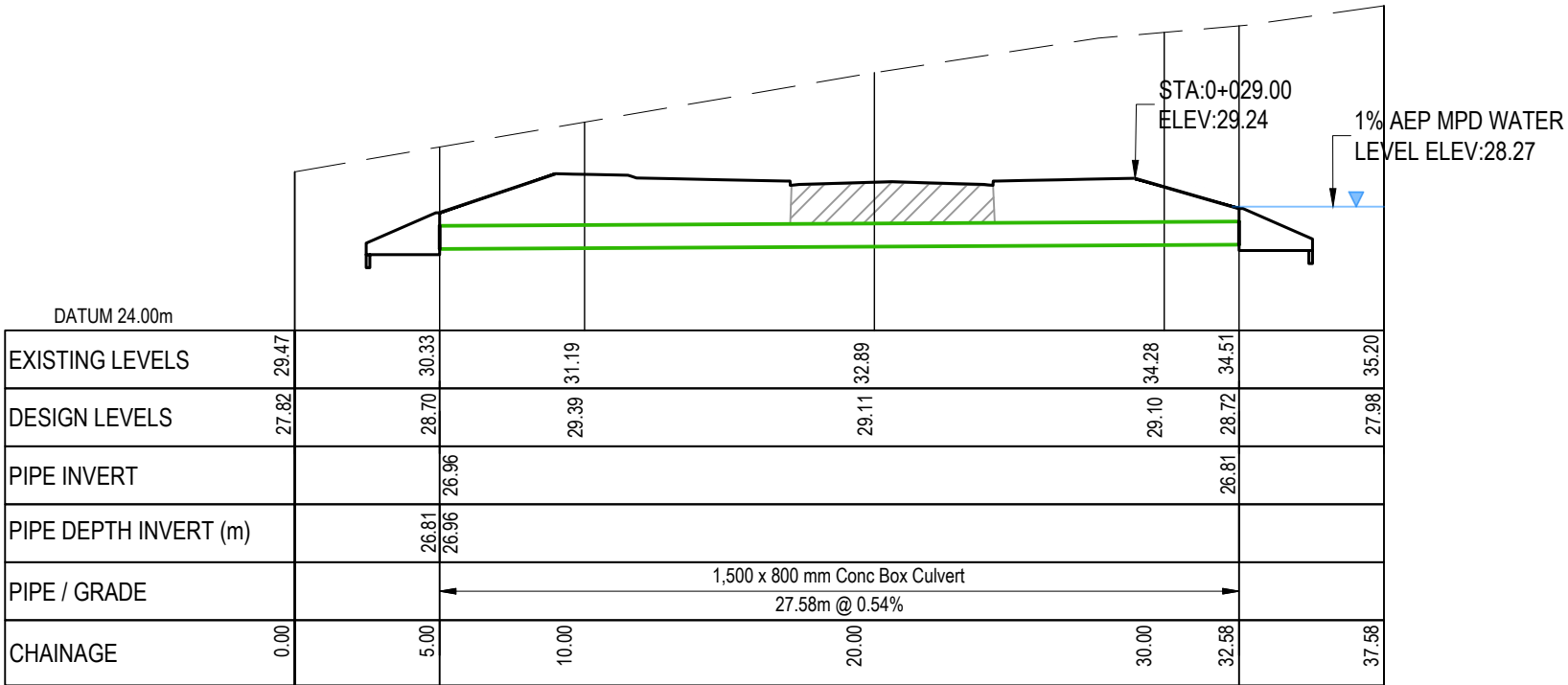
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 1 CULVERT 3
SHEET 1**

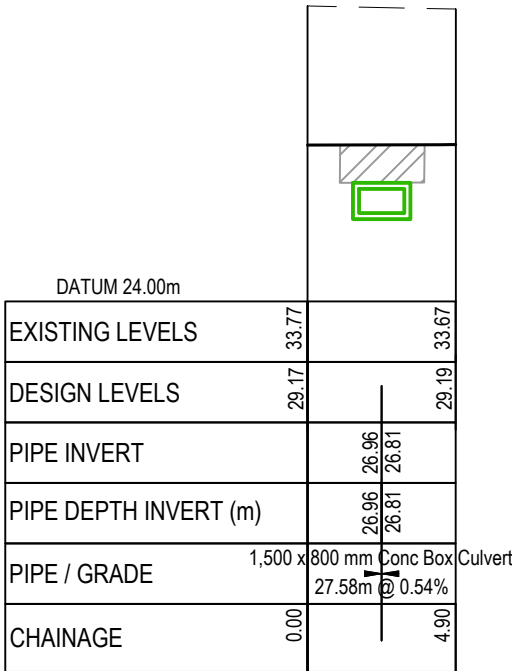
Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4403-1
Rev	A

RESOURCE CONSENT

DATE: 27/25 FILE PATH: F:\Maven\PROJECTS\1910 - SUNFIELD\03-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 1 - CULVERT 3
SCALE: HORI 1:250 VERT 1:250



ROAD 1 - CULVERT 3 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

- NOTES
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- LEGEND:
- EX GROUND SURFACE
 - PR FINISHED GROUND SURFACE
 - SW PIPE CROSSING
 - SW CULVERT CROSSING
 - HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 1 CULVERT 3
SHEET 2**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4403-2
Rev	A



- LEGEND
- EX BDY
 - PR BDY
 - SWALE FLOW DIRECTION
 - SWALE TOP/BASE
 - PR SW SWALES
 - EX FIRST GAS EASEMENT

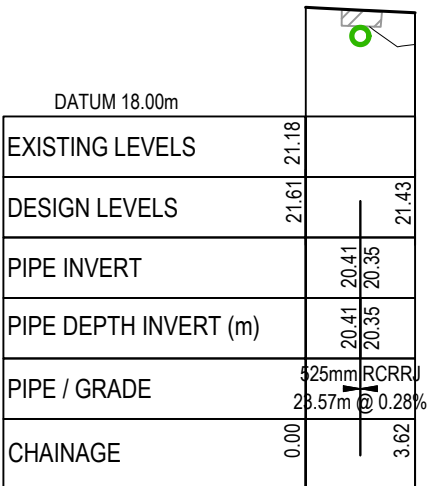
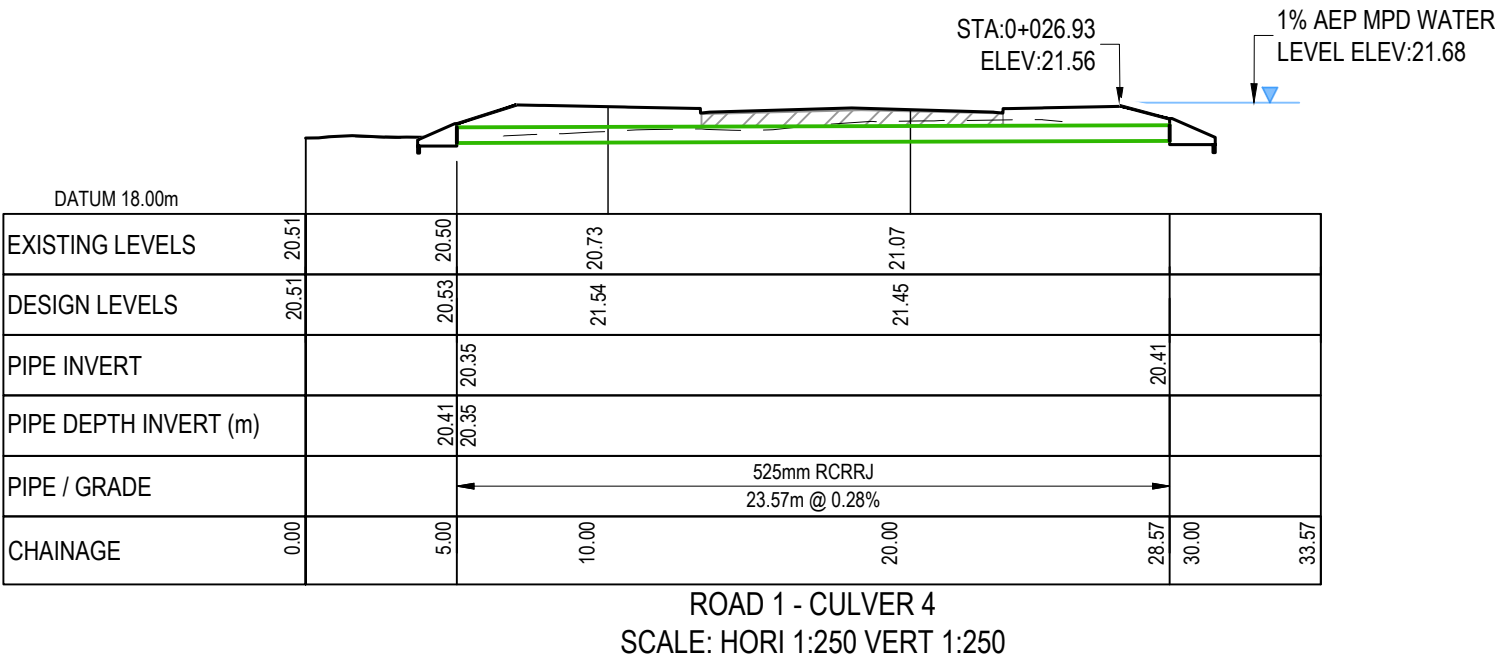


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Title
**PROPOSED
ROAD 1 CULVERT 4
SHEET 1**

Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C440.DWG		
Drawing no.	M-C4404-1	Rev	A

DATE: 27/25 FILE PATH: F:\WAYRN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 1 - CULVERT 4 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

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

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED

Title

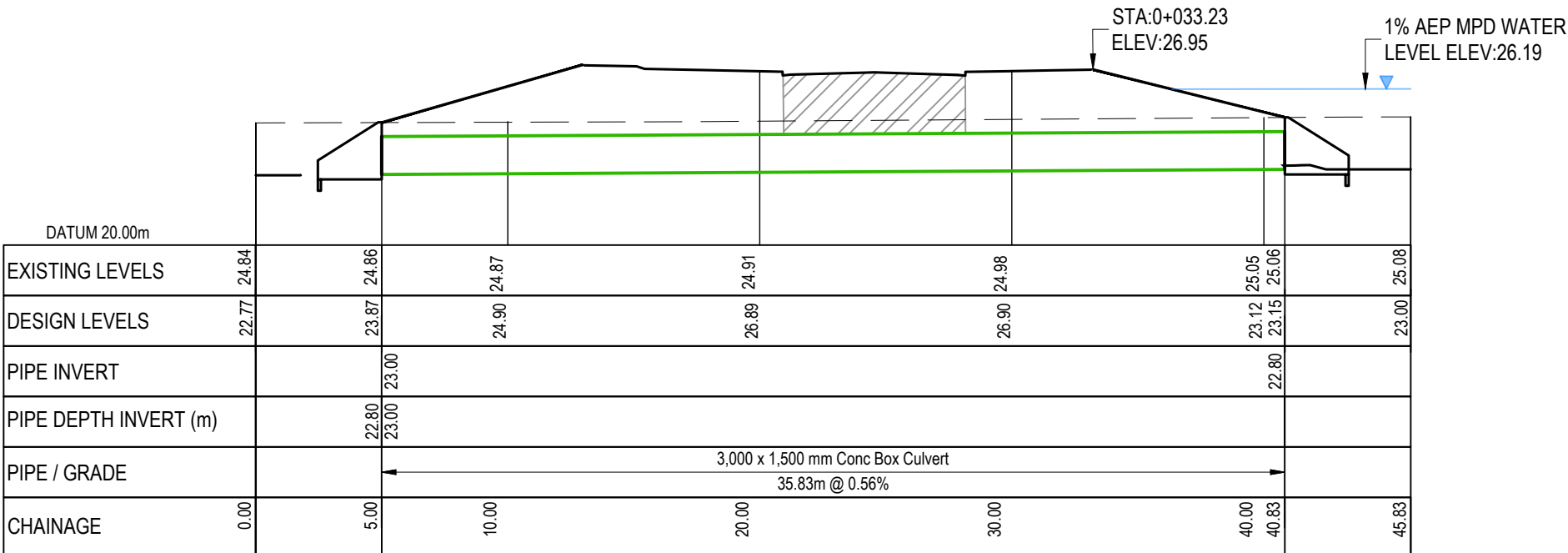
PROPOSED
ROAD 1 CULVERT 4
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4404-2
Rev	A

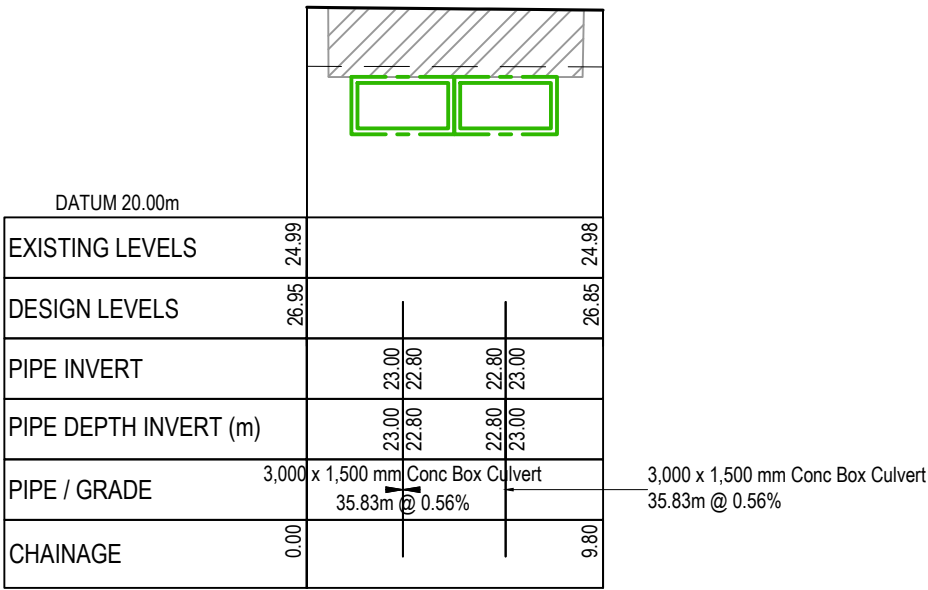


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|-------------|-------------------|-----|----------|
| Project no. | 215010 | | |
| Scale | 1:250 @ A3 | | |
| Cad file | 215010-M-C440.DWG | | |
| Drawing no. | M-C4405-1 | Rev | A |

DATE: 27/25 FILE PATH: F:\MAYN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 2 - CULVERT 1
SCALE: HORI 1:250 VERT 1:250



ROAD 2 - CULVERT 1 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

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

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

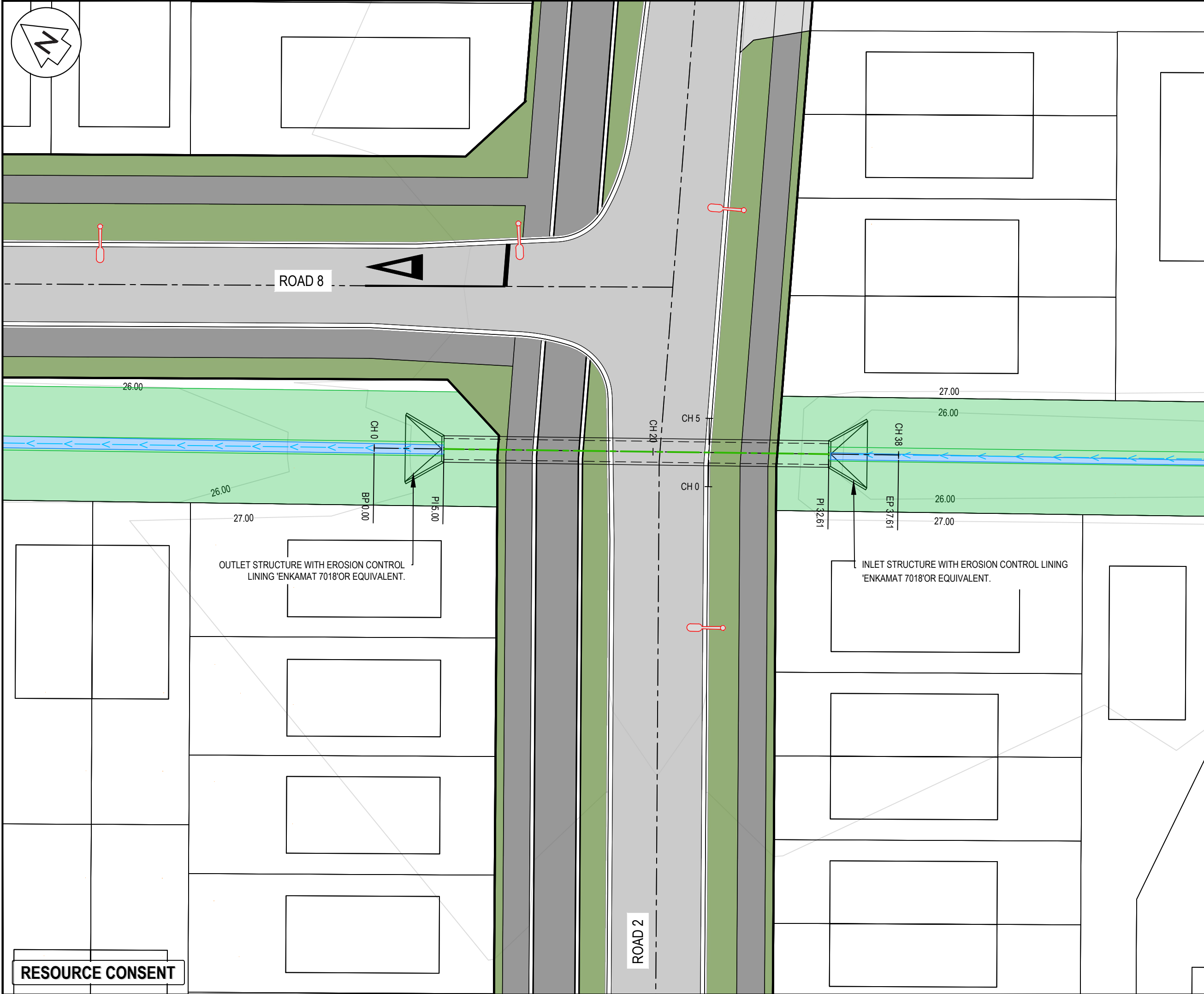
A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 2 CULVERT 1
SHEET 2**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4405-2
Rev	A



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
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LEGEND

	EX BDY
	PR BDY
	SWALE FLOW DIRECTION
	SWALE TOP/BASE
	PR SW SWALES
	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	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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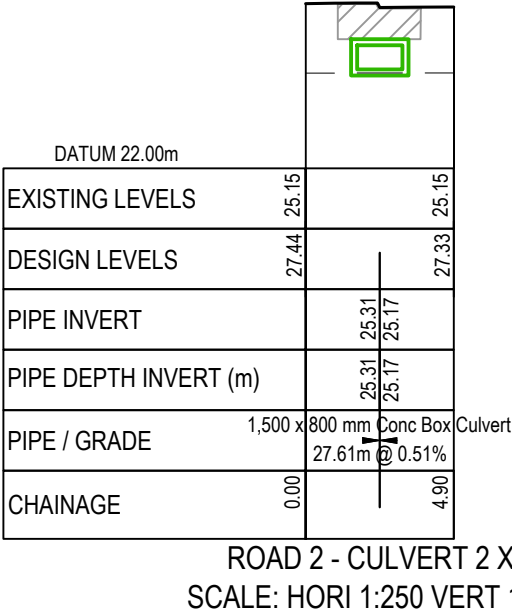
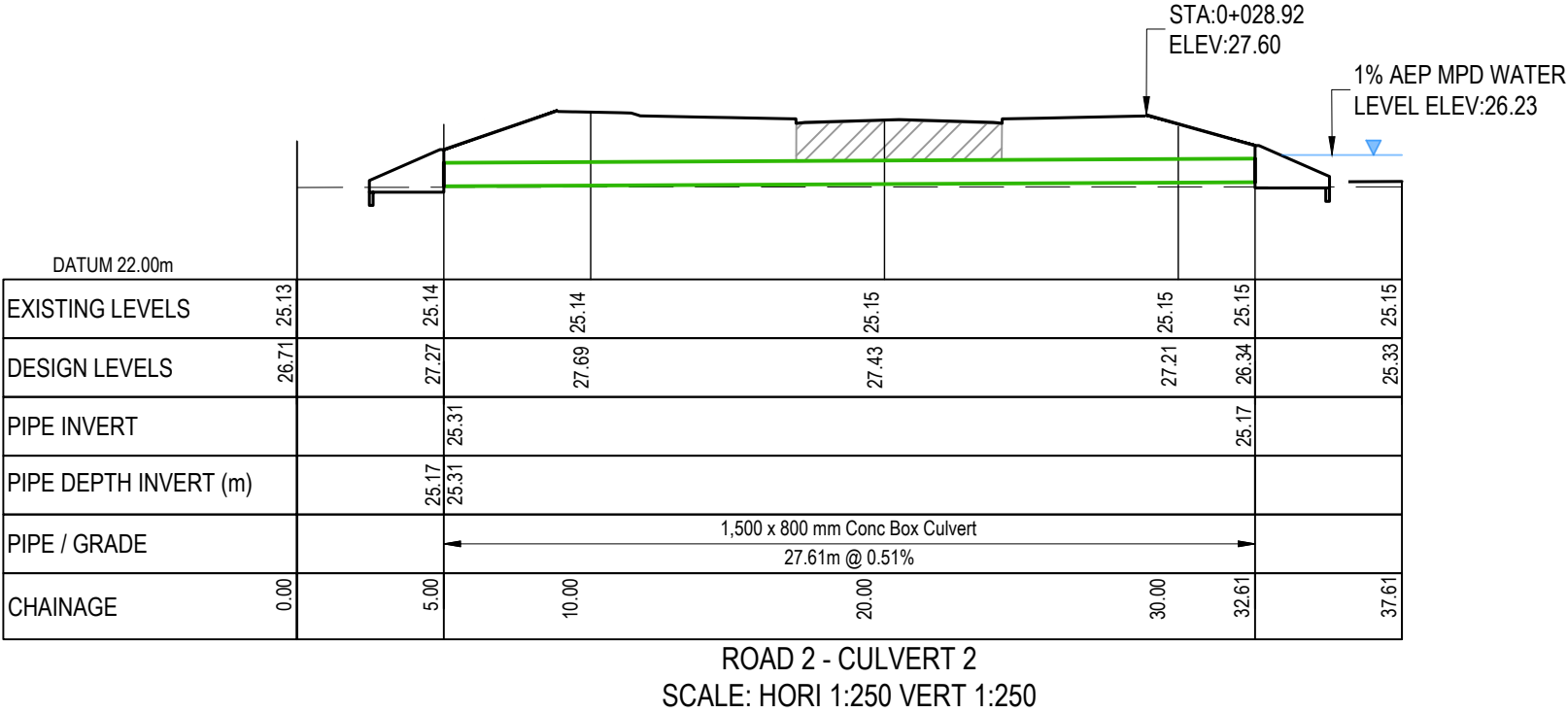
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 2 CULVERT 2
SHEET 1**

Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C440.DWG		
Drawing no.	M-C4406-1	Rev	A

RESOURCE CONSENT

DATE: 27/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



RESOURCE CONSENT

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

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED

Title

PROPOSED
ROAD 2 CULVERT 2
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4406-2
Rev	A



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

---	EX BDY
---	PR BDY
→→→	SWALE FLOW DIRECTION
---	SWALE TOP/BASE
---	PR SW SWALES
---	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	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
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 3 CULVERT 1
SHEET 1**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4607-1
Rev	A

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

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- 0 SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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

MASTER PLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

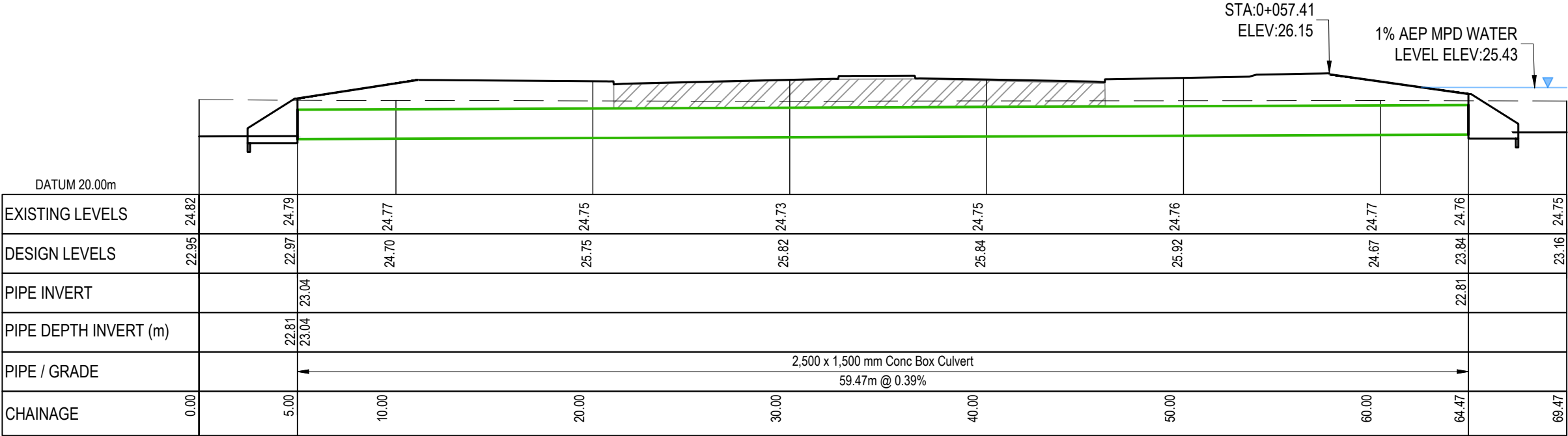
Title

PROPOSED

ROAD 3 CULVERT 1

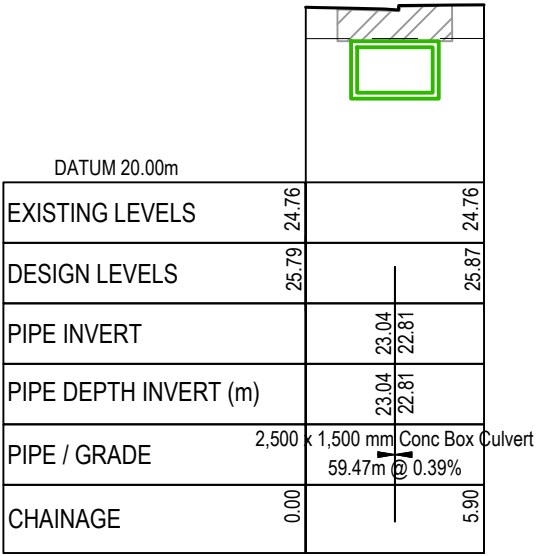
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4607-2
Rev	A



ROAD 3 - CULVERT 1

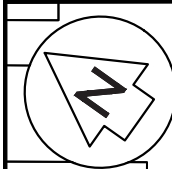
SCALE: HORI 1:250 VERT 1:250



ROAD 3 - CULVERT 1 XS

SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT



- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
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 6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 7. ALL MANHOLES ARE TO BE 1050MMØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

- LEGEND
- EX BDY
 - PR BDY
 - SWALE FLOW DIRECTION
 - SWALE TOP/BASE
 - PR SW SWALES
 - EX FIRST GAS EASEMENT

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



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5 Owens Road, Epsom
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 4 CULVERT 1
SHEET 1**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4408-1
Rev	A

ROAD 4

ROAD 17

RESOURCE CONSENT

INLET STRUCTURE WITH EROSION CONTROL LINING
'ENKAMAT 7018' OR EQUIVALENT.

OUTLET STRUCTURE WITH EROSION CONTROL LINING
'ENKAMAT 7018' OR EQUIVALENT.

DATE: 27/25 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG\3-PRODUCTION\MASTER PLAN\N0215010-M-C440.DWG

- NOTES
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LEGEND:

EX GROUND SURFACE

PR FINISHED GROUND SURFACE

0

SW PIPE CROSSING

SW

SW CULVERT CROSSING

HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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

MASTER PLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

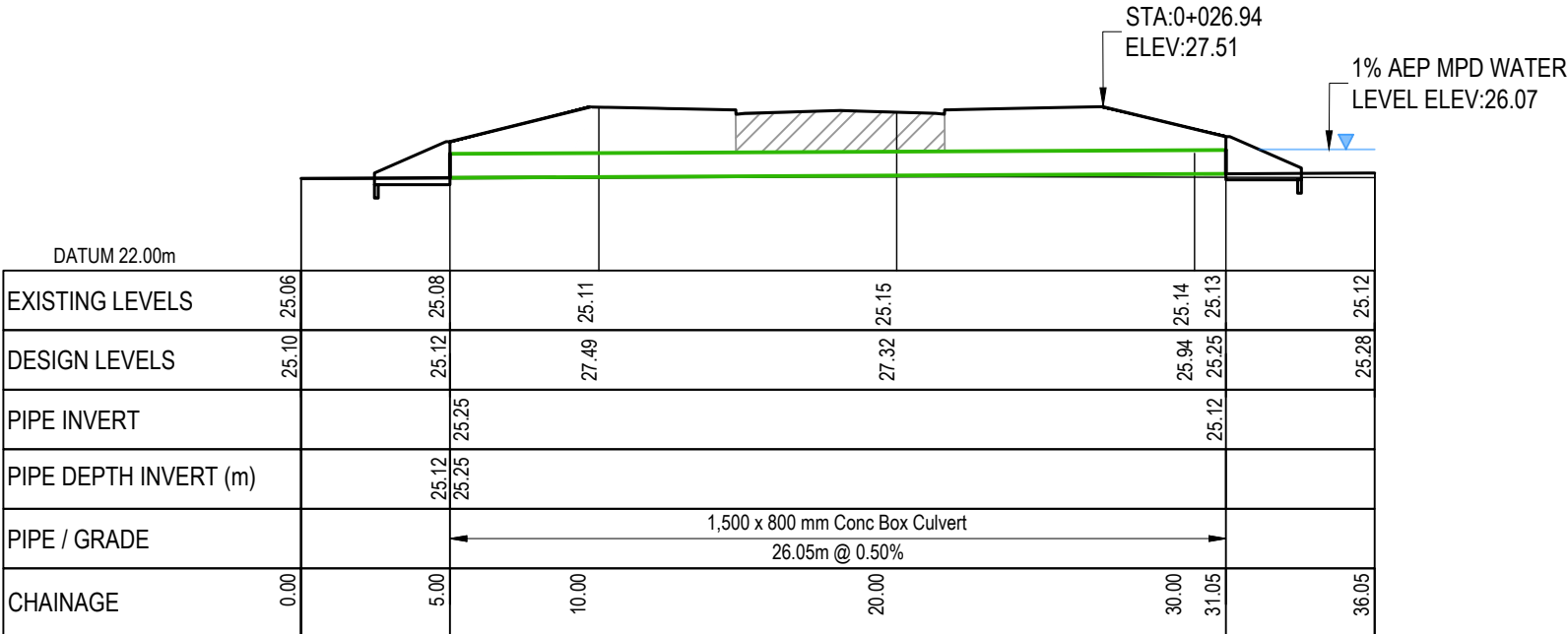
Title

PROPOSED

ROAD 4 CULVERT 1

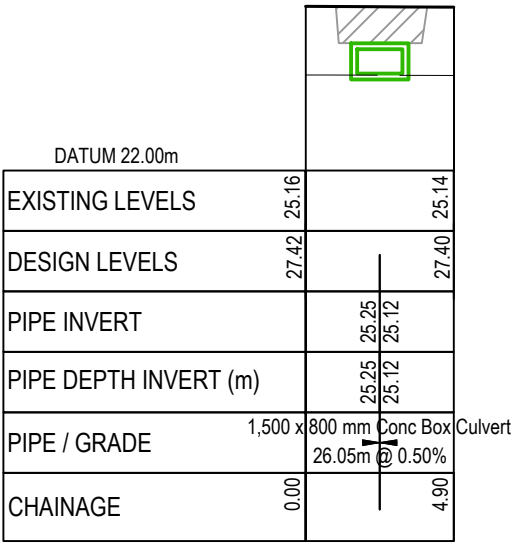
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4408-2
Rev	A



ROAD 4 - CULVERT 1

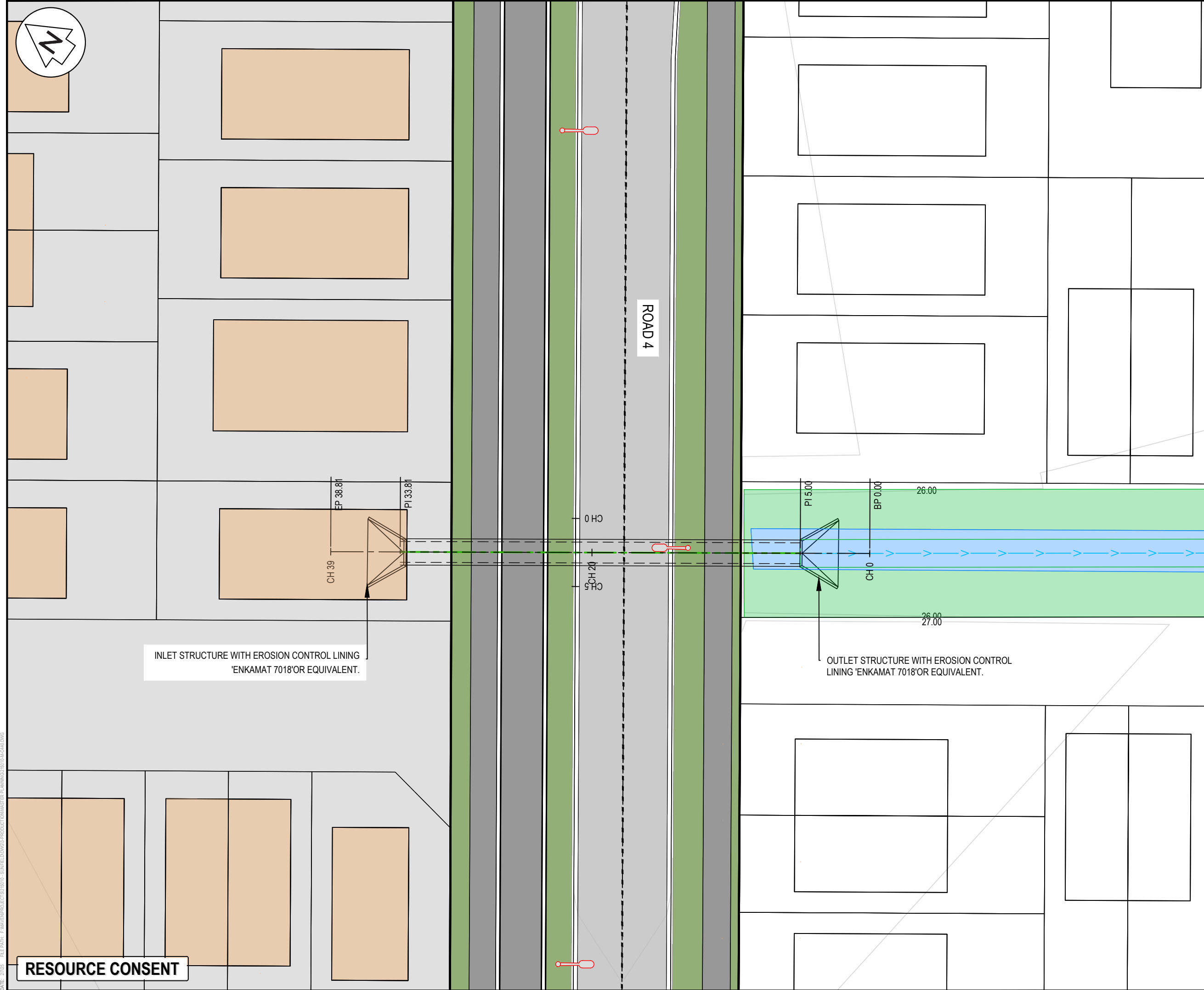
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ROAD 4 - CULVERT 1 XS

SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT



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LEGEND

---	EX BDY
---	PR BDY
→→→→→	SWALE FLOW DIRECTION
---	SWALE TOP/BASE
---	PR SW SWALES
---	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	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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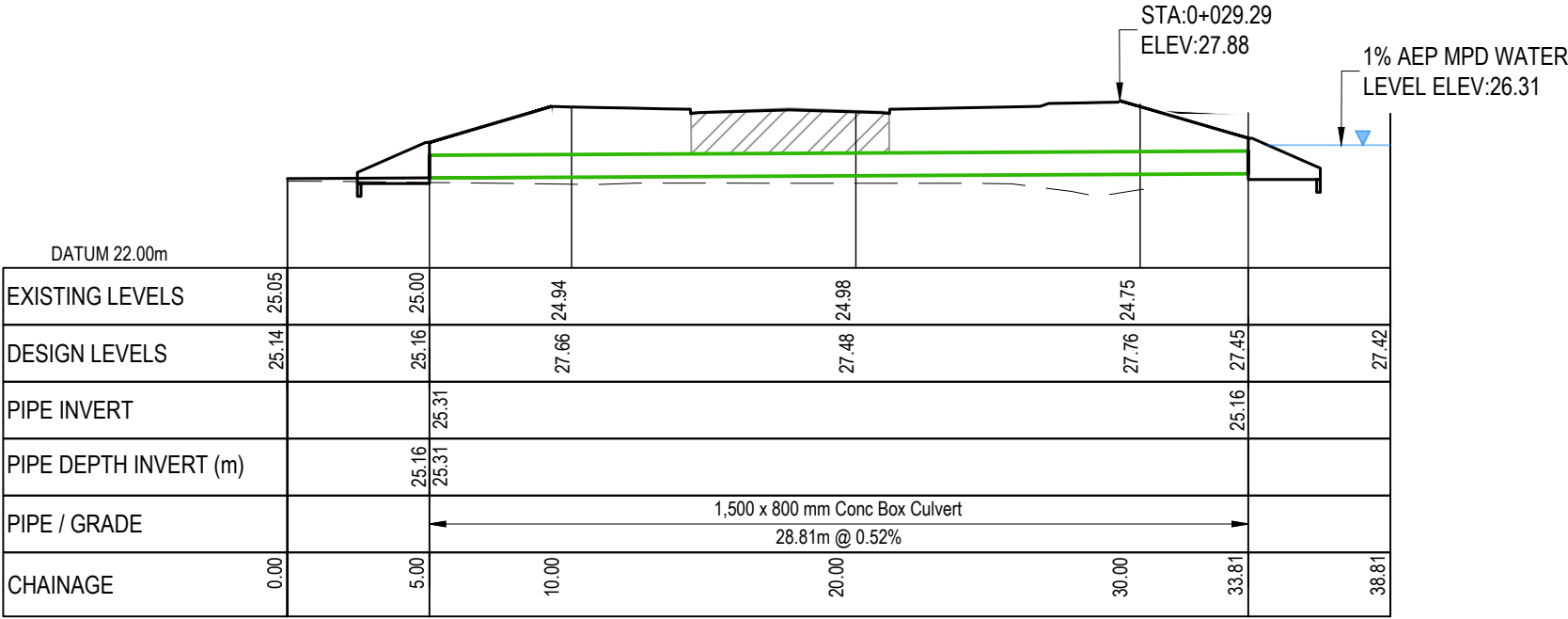
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 4 CULVERT 2
SHEET 1**

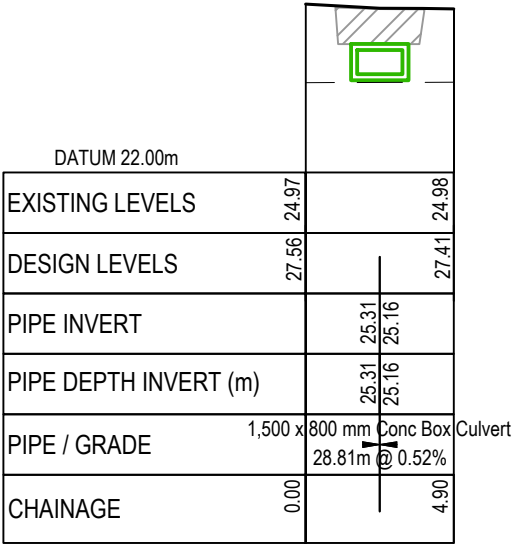
Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4409-1
Rev	A

RESOURCE CONSENT

DATE: 27/25 FILE PATH: F:\MAYN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 4 - CULVERT 2
SCALE: HORI 1:250 VERT 1:250



ROAD 4 - CULVERT 2 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

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LEGEND:

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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

MASTER PLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

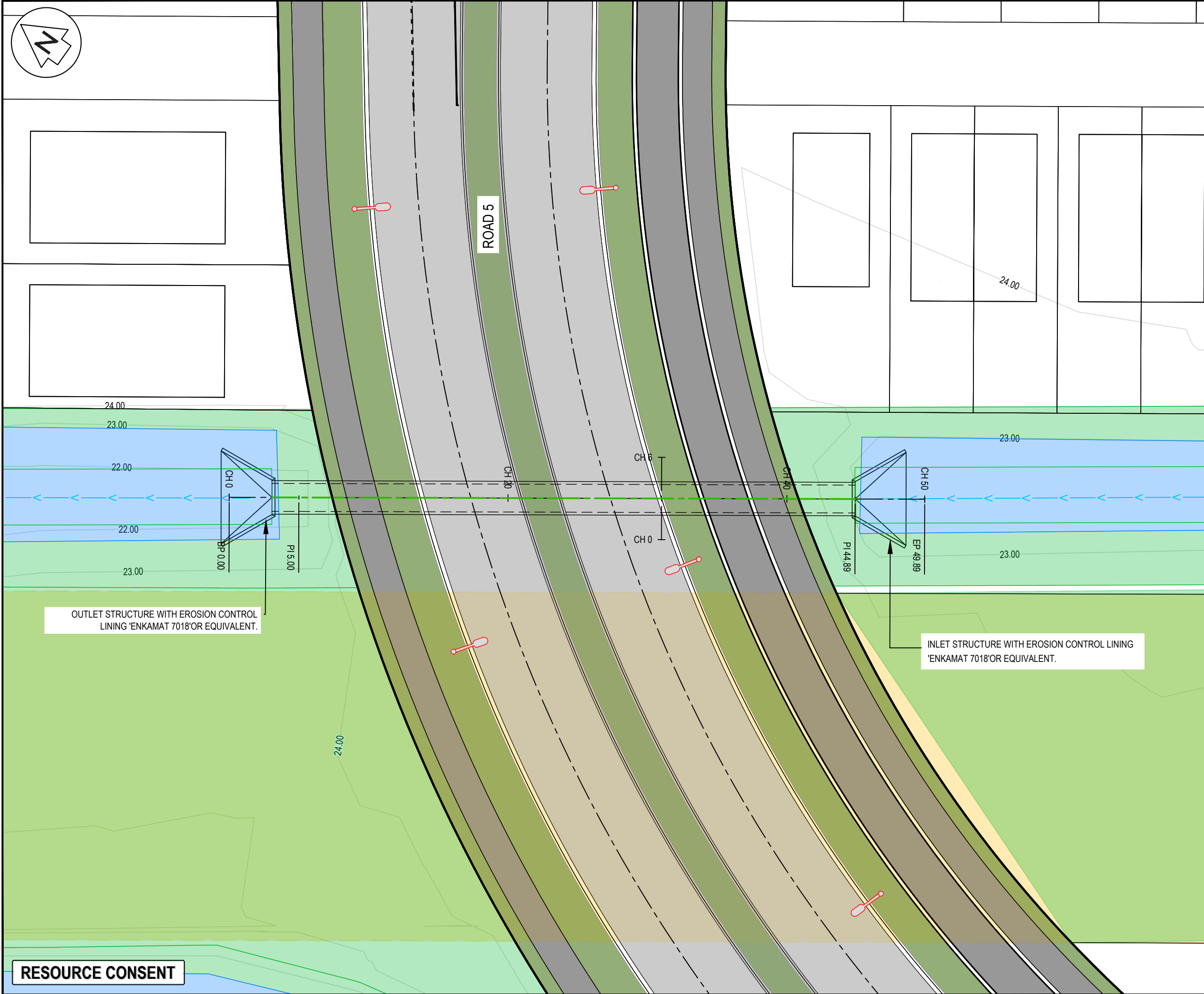
Title

PROPOSED

ROAD 4 CULVERT 2

SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4409-2
Rev	A



- NOTES
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LEGEND

	EX BDY
	PR BDY
	SWALE FLOW DIRECTION
	SWALE TOP/BASE
	PR SW SWALES
	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	YW		11/2024
Drawn	OQ		11/2024
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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 5 CULVERT 1
SHEET 1**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4410-1
Rev	A

DATE: 27/02 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG

RESOURCE CONSENT

- NOTES
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LEGEND:

EX GROUND SURFACE

PR FINISHED GROUND SURFACE

SW PIPE CROSSING

SW CULVERT CROSSING

HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
	By	Date	
Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
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Project

SUNFIELD DEVELOPMENT

ARDMORE, AUCKLAND

MASTER PLANNING

FOR SUNFIELD

DEVELOPMENTS LIMITED

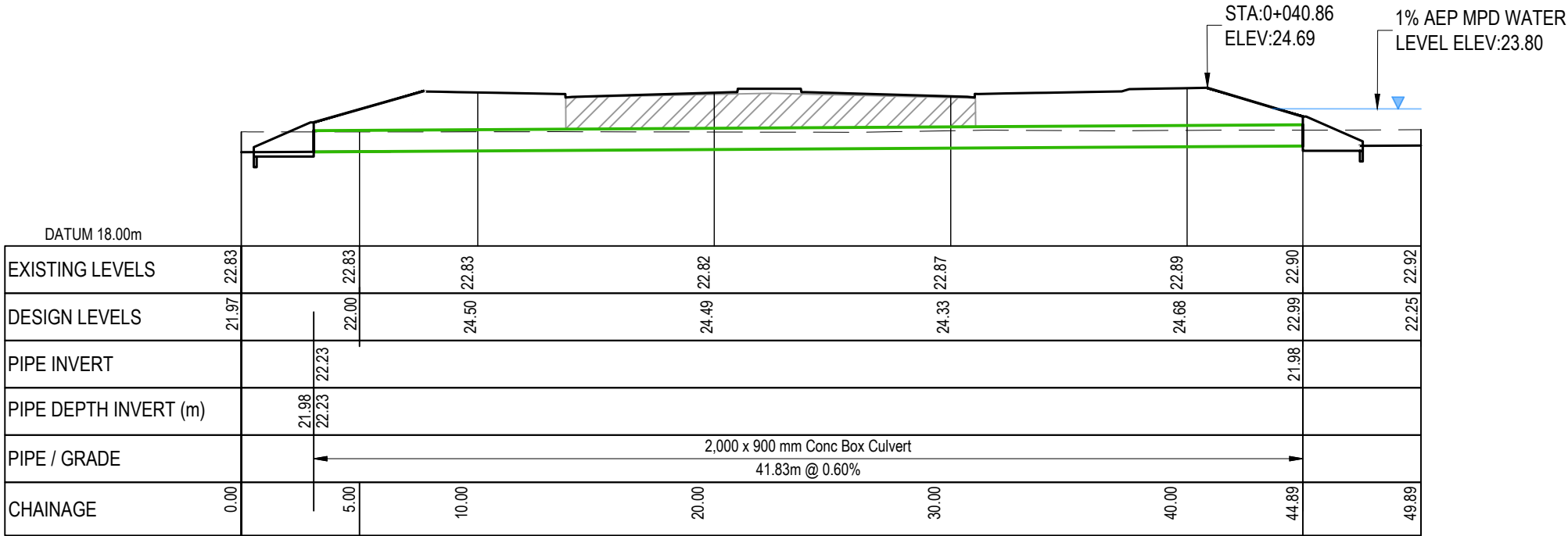
Title

PROPOSED

ROAD 5 CULVERT 1

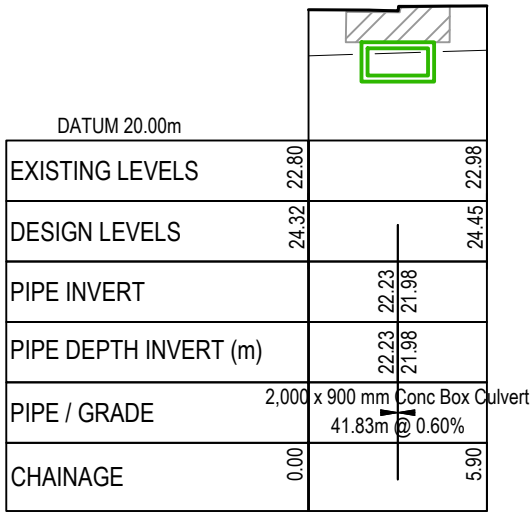
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4410-2
Rev	A



ROAD 5 - CULVERT 1

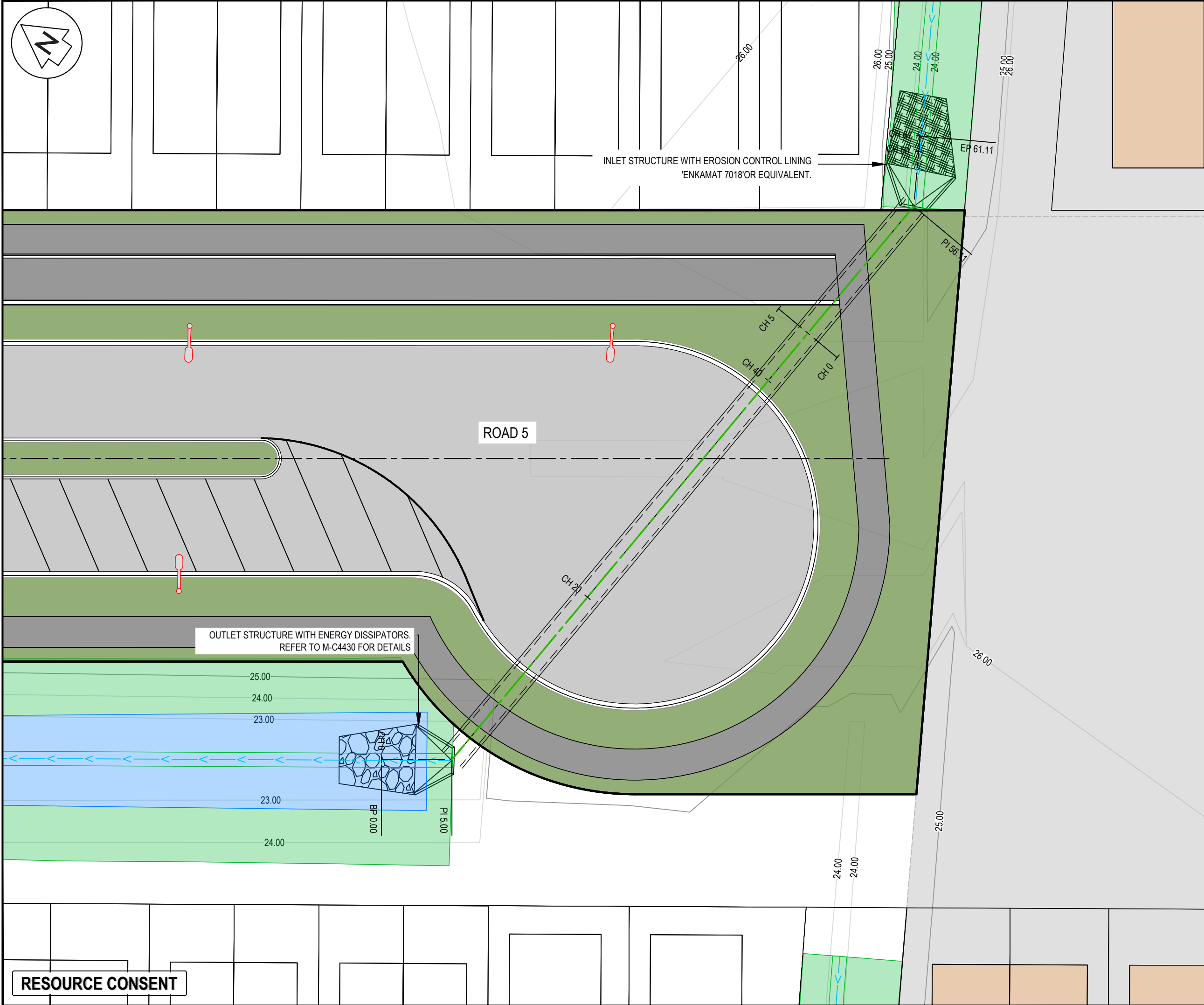
SCALE: HORI 1:250 VERT 1:250



ROAD 5 - CULVERT 1 XS

SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT



- NOTES
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LEGEND

	EX BDY
	PR BDY
	SWALE FLOW DIRECTION
	SWALE TOP/BASE
	PR SW SWALES
	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
		By	Date
Survey	SURVEYWORX		02/2021
Design	YW		11/2024
Drawn	OQ		11/2024
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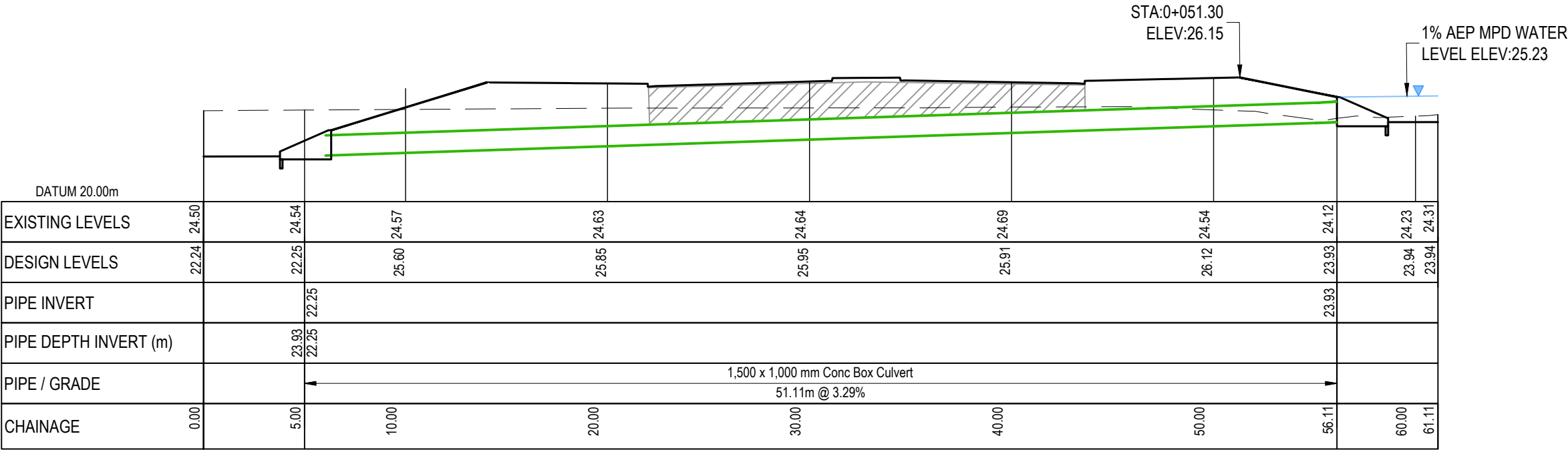
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 5 CULVERT 2
SHEET 1**

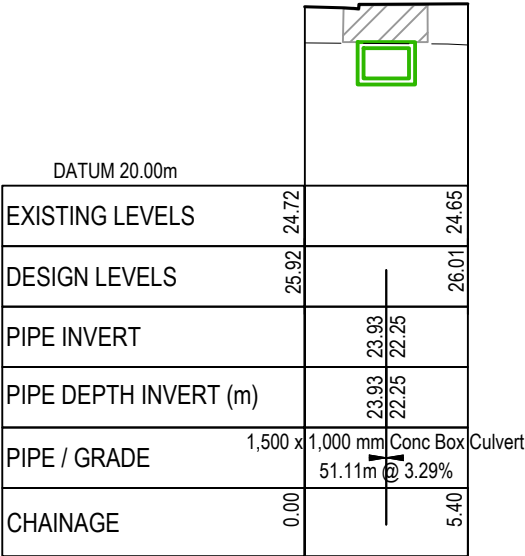
Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4411-1
Rev	A

DATE: 27/05 FILE PATH: F:\MAVEN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLAN\N215010-M-C440.DWG

DATE: 27/25 FILE PATH: F:\MAYN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 5 - CULVERT 2
SCALE: HORI 1:250 VERT 1:250



ROAD 5 - CULVERT 2 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

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LEGEND:

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- 0 SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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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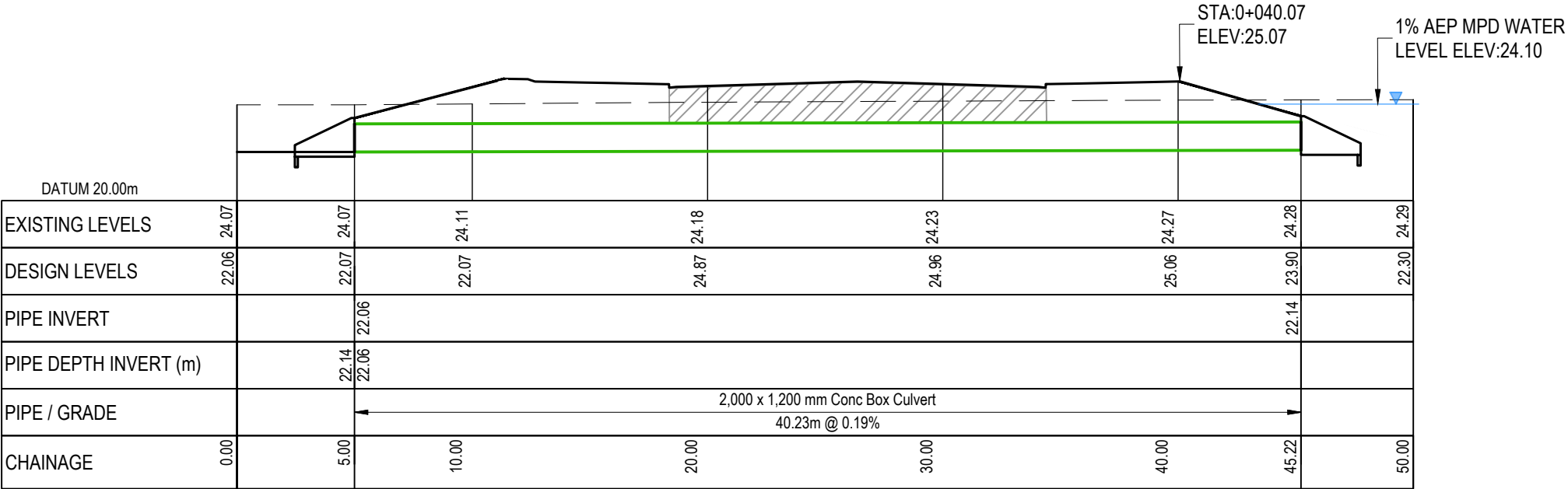
Auckland 1023

Project
SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED

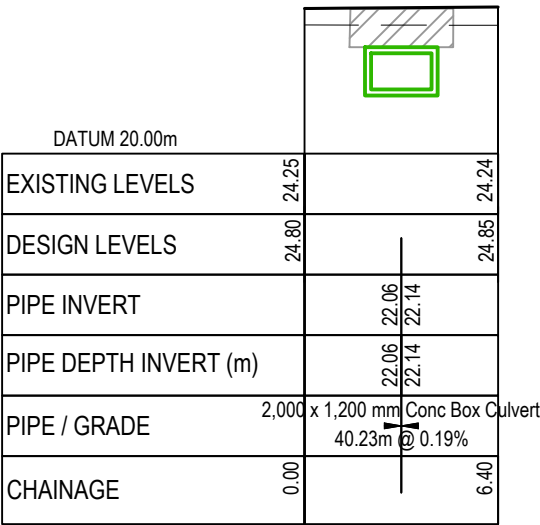
Title
PROPOSED
ROAD 5 CULVERT 2
SHEET 2

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4411-2
Rev	A

DATE: 27/25 FILE PATH: F:\MAYN\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



ROAD 6 - CULVERT 1
SCALE: HORI 1:250 VERT 1:250



ROAD 6 - CULVERT 1 XS
SCALE: HORI 1:250 VERT 1:250

RESOURCE CONSENT

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LEGEND:

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

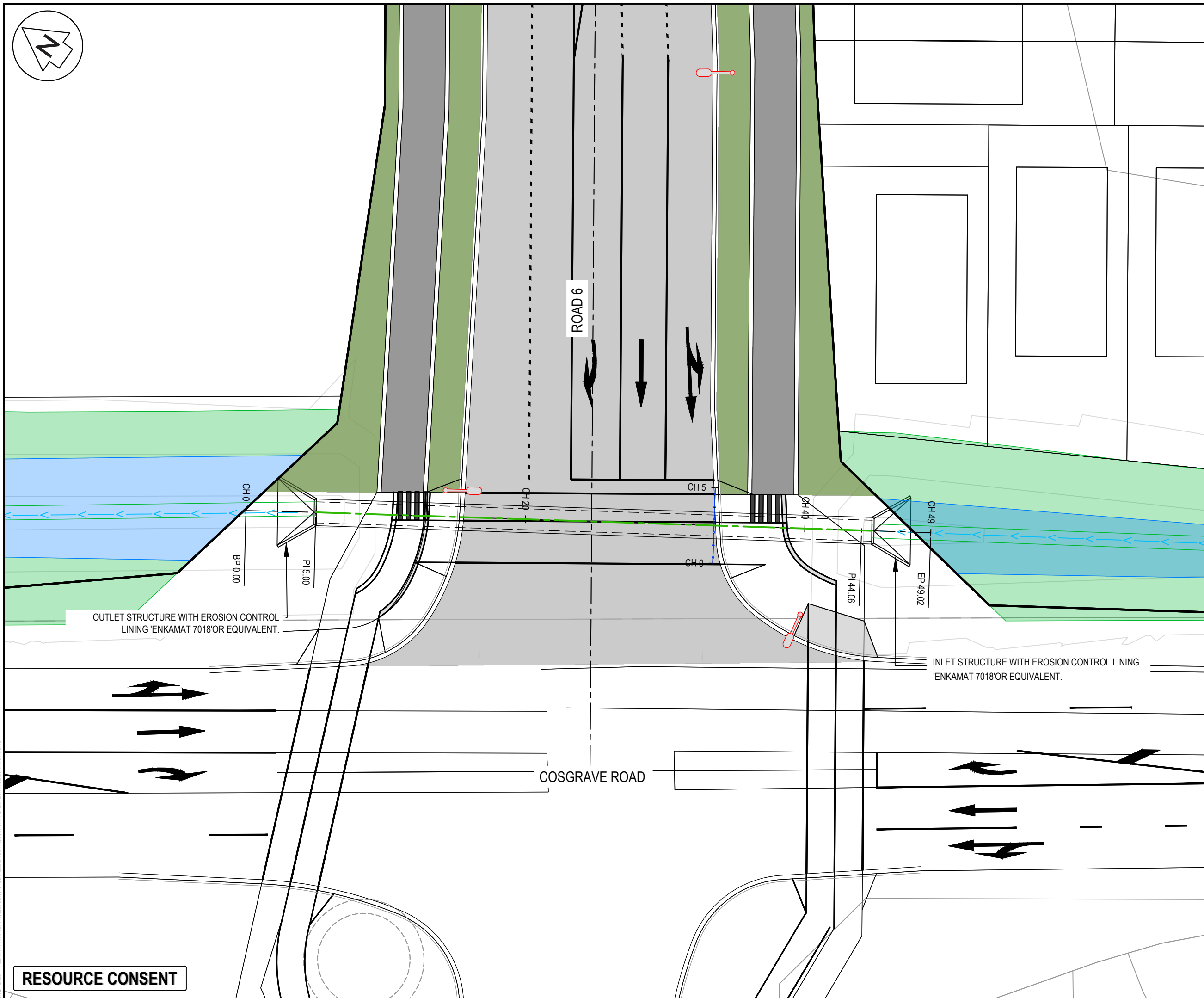
A	RESOURCE CONSENT	OQ	02/2025
Rev	Description	By	Date
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Survey	SURVEYWORX	02/2021	
Design	YW	11/2024	
Drawn	OQ	11/2024	
Checked	JP/LC	02/2025	

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Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 6 CULVERT 1
SHEET 2**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4412-2
Rev	A



- | | |
|----|---|
| | NOTES |
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LEGEND

	EX BDY
	PR BDY
	SWALE FLOW DIRECTION
	SWALE TOP/BASE
	PR SW SWALES
	EX FIRST GAS EASEMENT

A	RESOURCE CONSENT	OQ	02/2025
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	By	Date	
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Auckland 1023

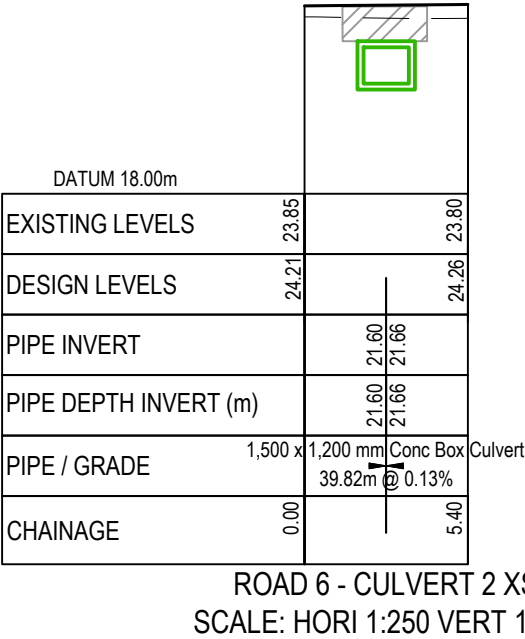
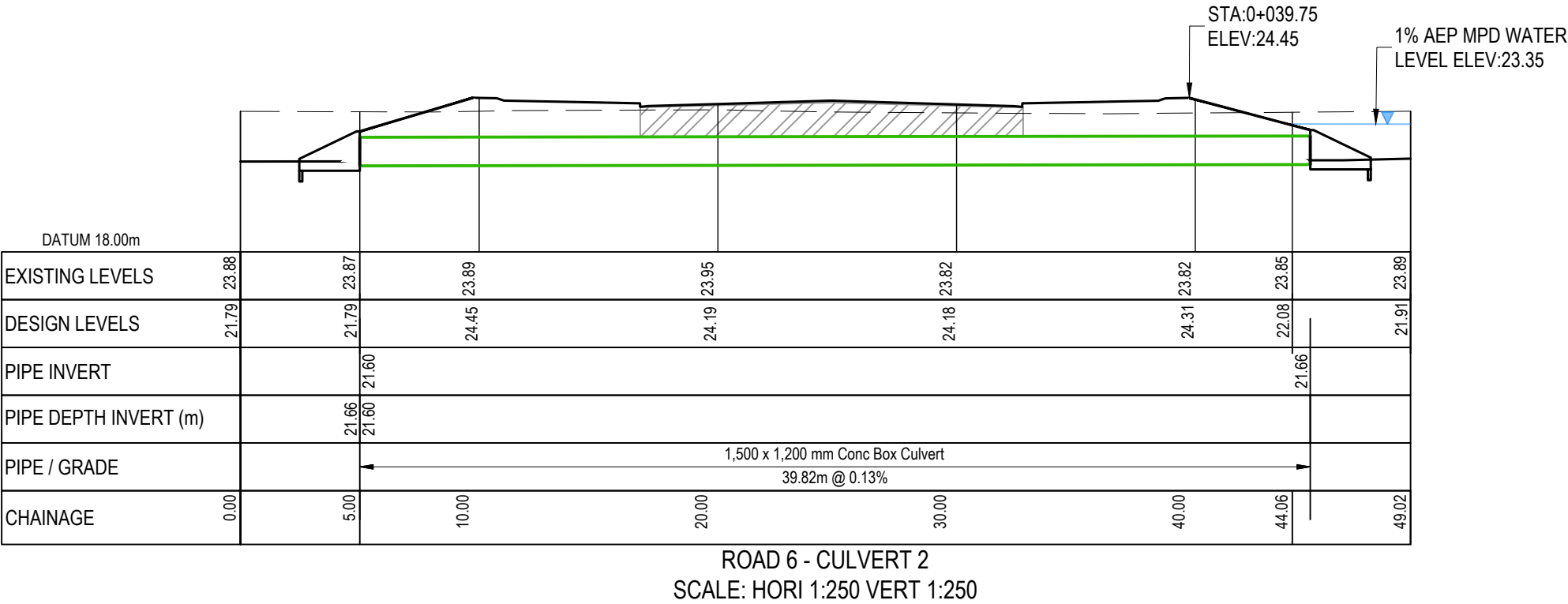
Project
**SUNFIELD DEVELOPMENT
ARDMORE, AUCKLAND
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title	PROPOSED ROAD 6 CULVERT 2 SHEET 1
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Project no.	215010		
Scale	1:250 @ A3		
Cad file	215010-M-C440.DWG		
Drawing no.	M-C4413-1	Rev	A

RESOURCE CONSENT

DATE: 27/25 FILE PATH: F:\Maven\PROJECTS\215010 - SUNFIELD\DWG3-PRODUCTION\MASTER PLANNING\215010-M-C440.DWG



RESOURCE CONSENT

- NOTES
1. ALL WORKS TO BE IN ACCORDANCE WITH AUCKLAND COUNCIL STANDARDS.
 2. COORDINATES IN TERMS OF NZ GEODETIC DATUM MT EDEN 2000. LEVELS IN TERMS OF THE AUCKLAND VERTICAL DATUM 1946.
 3. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ALL SERVICES THAT MAY BE AFFECTED BY THEIR OPERATIONS.
 4. PIPE BEDDING: 0 - 10% GRANULAR BEDDING, 10 - 20% WEAK CONCRETE BEDDING, GREATER THAN 20% WEAK CONCRETE BEDDING (7MPA PLUS ANTI SCOUR BLOCKS AT 6M CRS).
 5. APPROVED HARDFILL IS TO BE USED IN BACKFILLING OF ALL ROAD CROSSINGS AND VEHICLE CROSSINGS TO COUNCIL STANDARDS.
 6. HEAVY DUTY MANHOLE LIDS AND FRAMES TO BE USED IN TRAFFICKED AREAS.
 7. ALL MANHOLES ARE TO BE 1050MMØ PRECAST CONCRETE UNLESS SHOWN OTHERWISE.
 8. ALL LINES TO BE ABANDONED SHALL BE SEALED AT EACH END. TIMING OF ALL SEALING TO BE COORDINATED WITH COUNCIL STAFF.

LEGEND:

- EX GROUND SURFACE
- PR FINISHED GROUND SURFACE
- SW PIPE CROSSING
- SW CULVERT CROSSING
- HARDFILL BACKFILL

A	RESOURCE CONSENT	OQ	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
MASTER PLANNING
FOR SUNFIELD
DEVELOPMENTS LIMITED**

Title
**PROPOSED
ROAD 6 CULVERT 2
SHEET 2**

Project no.	215010
Scale	1:250 @ A3
Cad file	215010-M-C440.DWG
Drawing no.	M-C4413-2
Rev	A