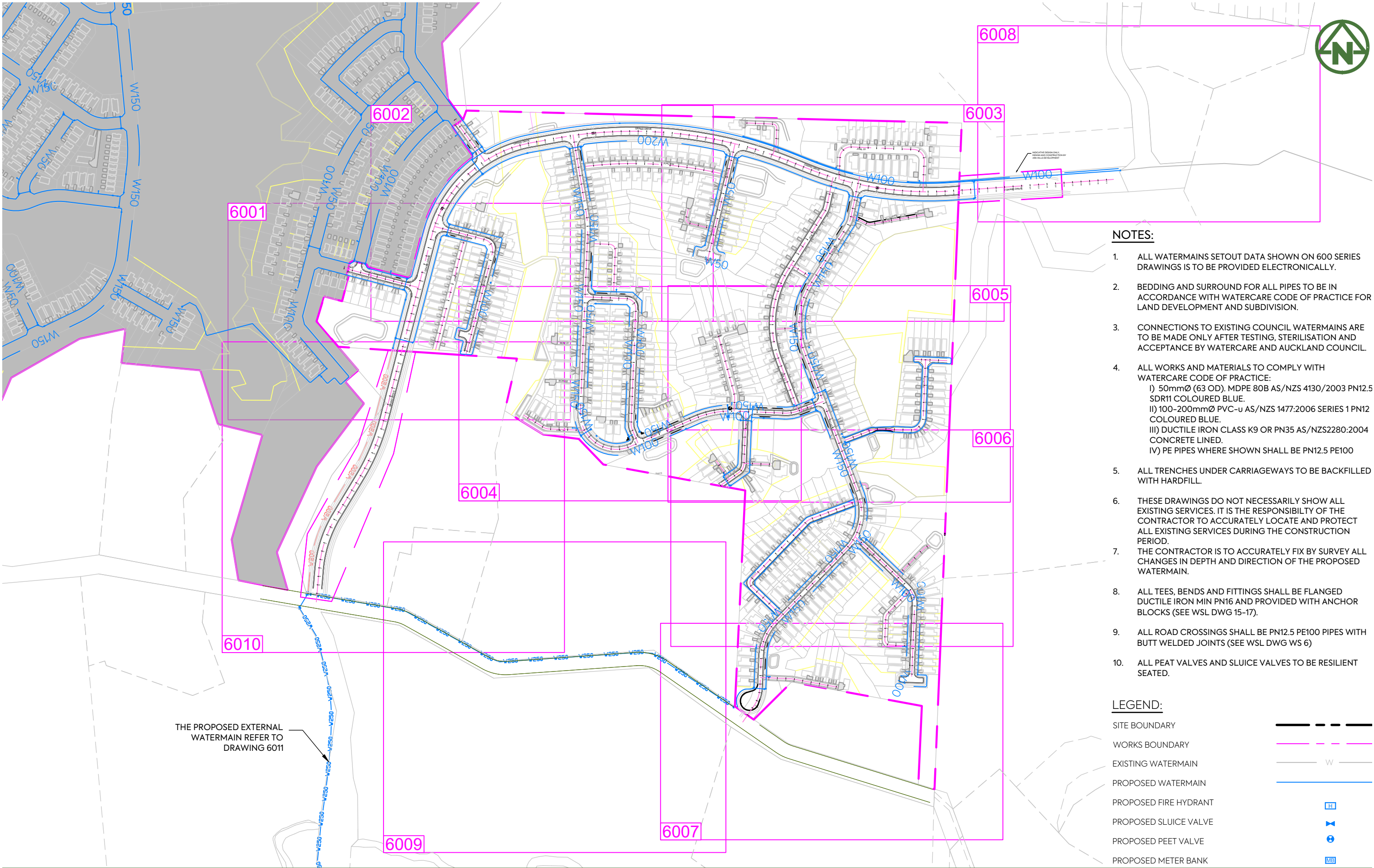




- NOTES:**
- 1. ALL WATERMAINS SETOUT DATA SHOWN ON 600 SERIES DRAWINGS IS TO BE PROVIDED ELECTRONICALLY.
 - 2. BEDDING AND SURROUND FOR ALL PIPES TO BE IN ACCORDANCE WITH WATERCARE CODE OF PRACTICE FOR LAND DEVELOPMENT AND SUBDIVISION.
 - 3. CONNECTIONS TO EXISTING COUNCIL WATERMAINS ARE TO BE MADE ONLY AFTER TESTING, STERILISATION AND ACCEPTANCE BY WATERCARE AND AUCKLAND COUNCIL.
 - 4. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE CODE OF PRACTICE:
 - I) 50mmØ (63 OD). MDPE 80B AS/NZS 4130/2003 PN12.5 SDR11 COLOURED BLUE.
 - II) 100-200mmØ PVC-u AS/NZS 1477:2006 SERIES 1 PN12 COLOURED BLUE.
 - III) DUCTILE IRON CLASS K9 OR PN35 AS/NZS2280:2004 CONCRETE LINED.
 - IV) PE PIPES WHERE SHOWN SHALL BE PN12.5 PE100
 - 5. ALL TRENCHES UNDER CARRIAGEWAYS TO BE BACKFILLED WITH HARDFILL.
 - 6. THESE DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE AND PROTECT ALL EXISTING SERVICES DURING THE CONSTRUCTION PERIOD.
 - 7. THE CONTRACTOR IS TO ACCURATELY FIX BY SURVEY ALL CHANGES IN DEPTH AND DIRECTION OF THE PROPOSED WATERMAIN.
 - 8. ALL TEES, BENDS AND FITTINGS SHALL BE FLANGED DUCTILE IRON MIN PN16 AND PROVIDED WITH ANCHOR BLOCKS (SEE WSL DWG 15-17).
 - 9. ALL ROAD CROSSINGS SHALL BE PN12.5 PE100 PIPES WITH BUTT WELDED JOINTS (SEE WSL DWG WS 6)
 - 10. ALL PEAT VALVES AND SLUICE VALVES TO BE RESILIENT SEATED.

- LEGEND:**
- SITE BOUNDARY
 - WORKS BOUNDARY
 - EXISTING WATERMAIN
 - PROPOSED WATERMAIN
 - PROPOSED FIRE HYDRANT
 - PROPOSED SLUICE VALVE
 - PROPOSED PEET VALVE
 - PROPOSED METER BANK

B

FOR CONSENT

A

FIRST ISSUE

DRN BY

CHK BY

APP BY

DATE

31/01/25

M

MCKENZIE & CO.

VINEWAY LIMITED

DELMORE

STAGE 1

53A, 53B & 55 RUSSELL RD

OREWA

WATERMAIN

OVERALL PLAN

PURPOSE OF ISSUE:

FOR RESOURCE CONSENT

SCALE:

1:4000m @ A3

DO NOT SCALE

DRAWING NO:

3725-1-6000

REV:

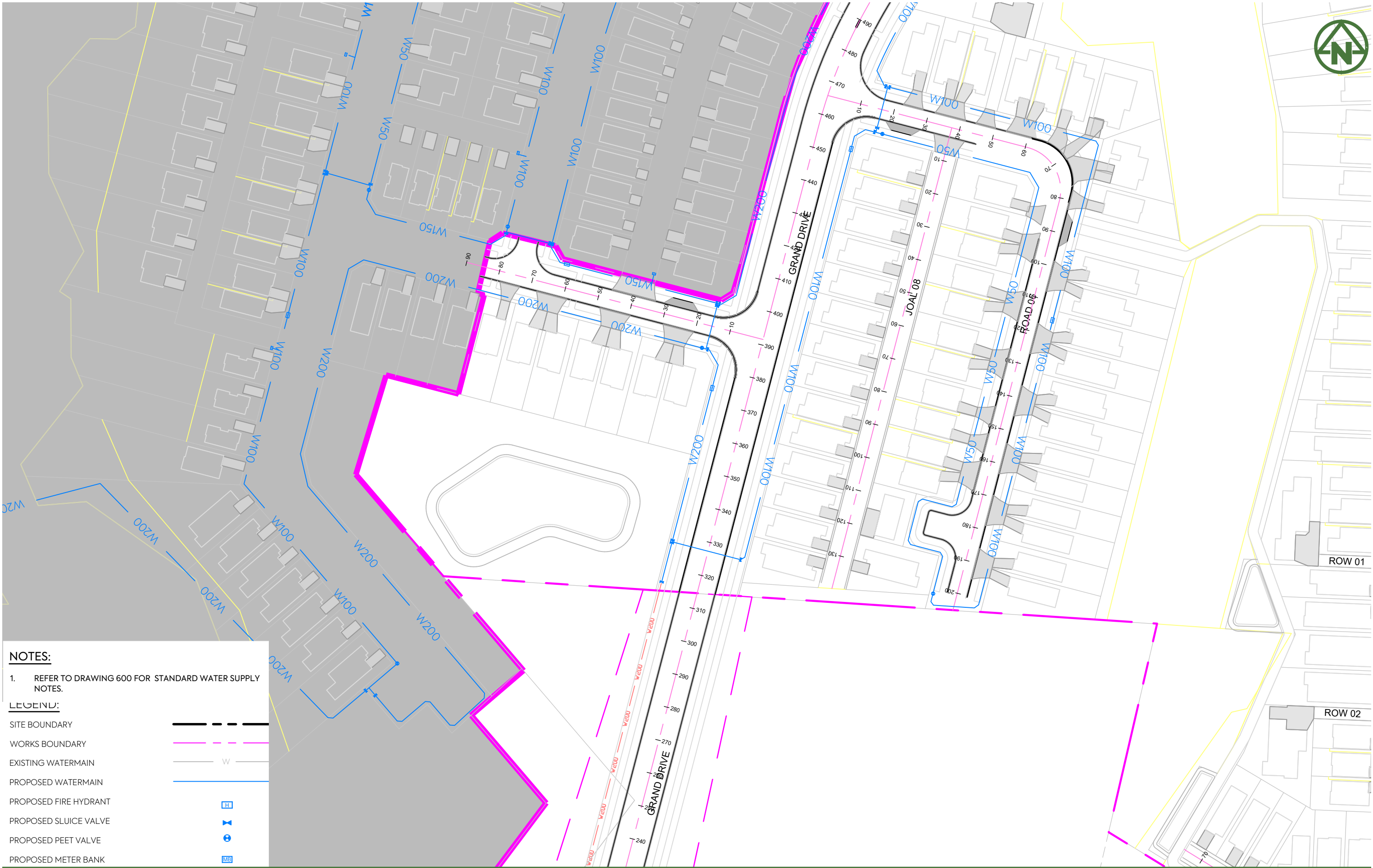
B

CLIENT:

PROJECT:

TITLE:

PLOT DATE 2025-01-31 14:39:14 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6000.DWG



NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY

WORKS BOUNDARY

EXISTING WATERMAIN

PROPOSED WATERMAIN

PROPOSED FIRE HYDRANT

PROPOSED SLUICE VALVE

PROPOSED PEET VALVE

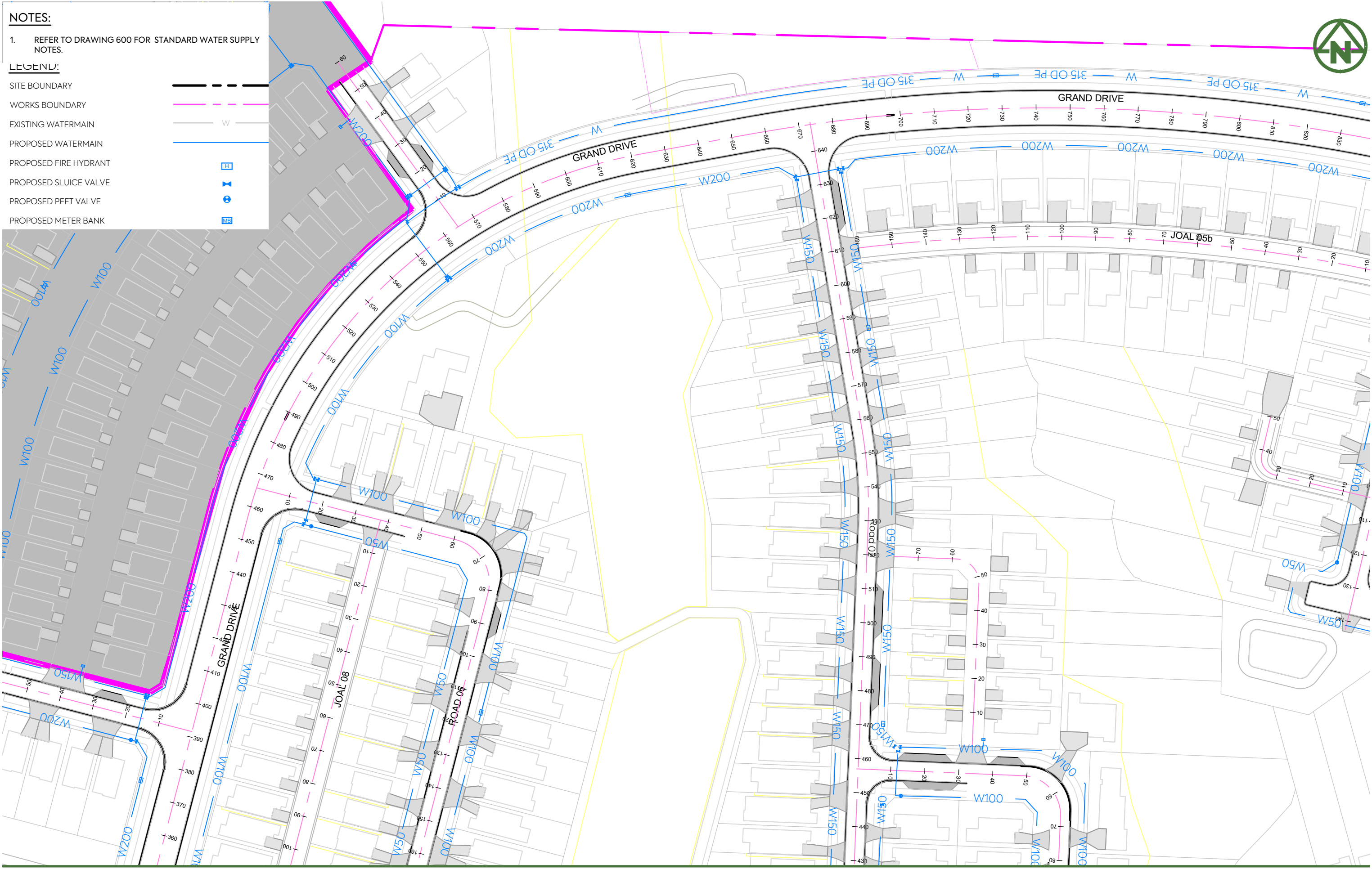
PROPOSED METER BANK

NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	---
WORKS BOUNDARY	---
EXISTING WATERMAIN	W
PROPOSED WATERMAIN	W
PROPOSED FIRE HYDRANT	HF
PROPOSED SLUICE VALVE	SV
PROPOSED PEET VALVE	PV
PROPOSED METER BANK	MB



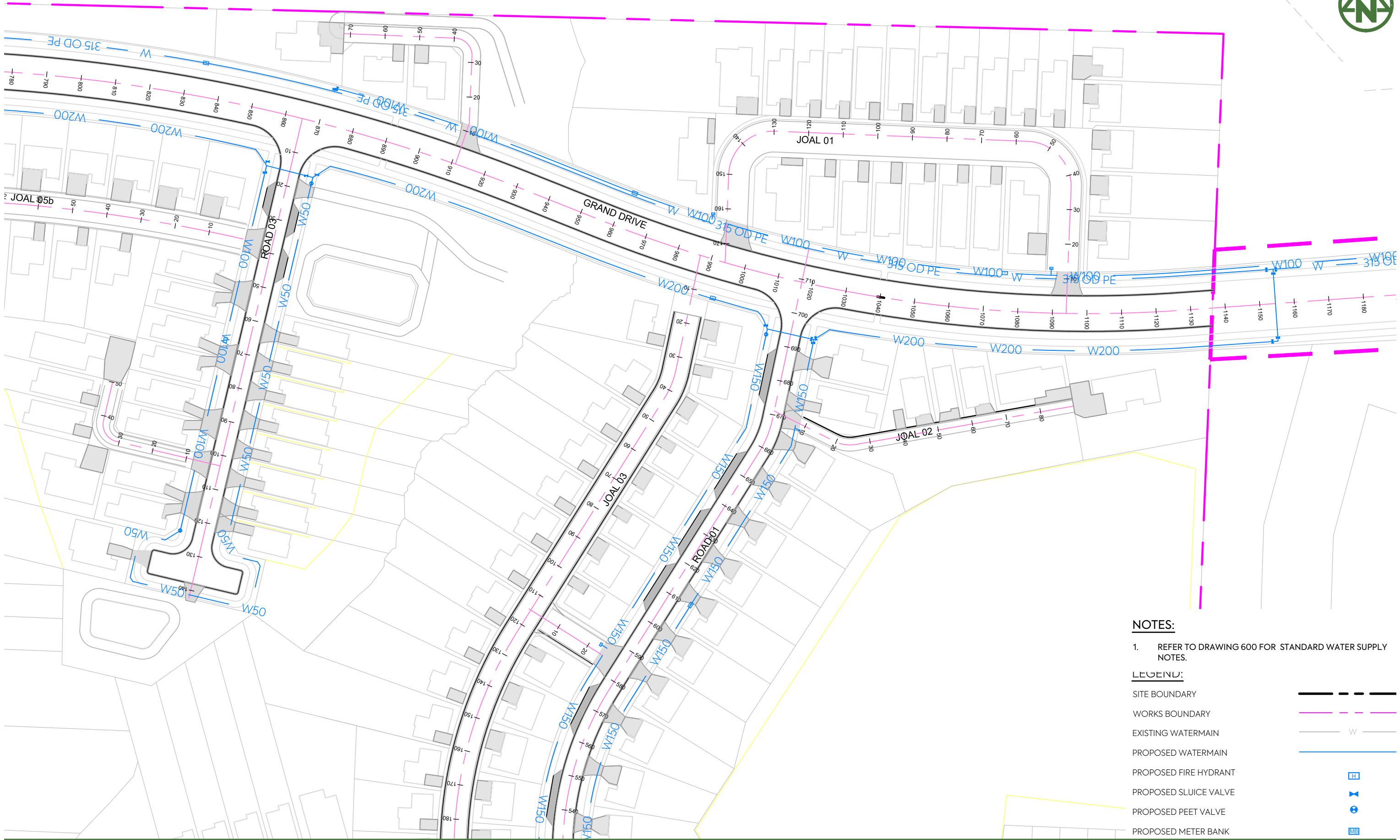
VINEWAY LIMITED

DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 2

PURPOSE OF ISSUE:	FOR RESOURCE CONSENT
SCALE:	1:1000m @ A3
DO NOT SCALE	
DRAWING NO:	3725-1-6002
REV:	B

B	FOR CONSENT	ZW	JK	31/01/25	
A	FIRST ISSUE				
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



NOTES:

- REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	---
WORKS BOUNDARY	- - -
EXISTING WATERMAIN	W
PROPOSED WATERMAIN	W
PROPOSED FIRE HYDRANT	H
PROPOSED SLUICE VALVE	V
PROPOSED PEET VALVE	P
PROPOSED METER BANK	MB

CLIENT:

PROJECT:

TITLE:

PURPOSE OF ISSUE:

FOR RESOURCE CONSENT

SCALE:
1:1000m @ A3

DO NOT SCALE

DRAWING NO: REV:

3725-1-6003 B



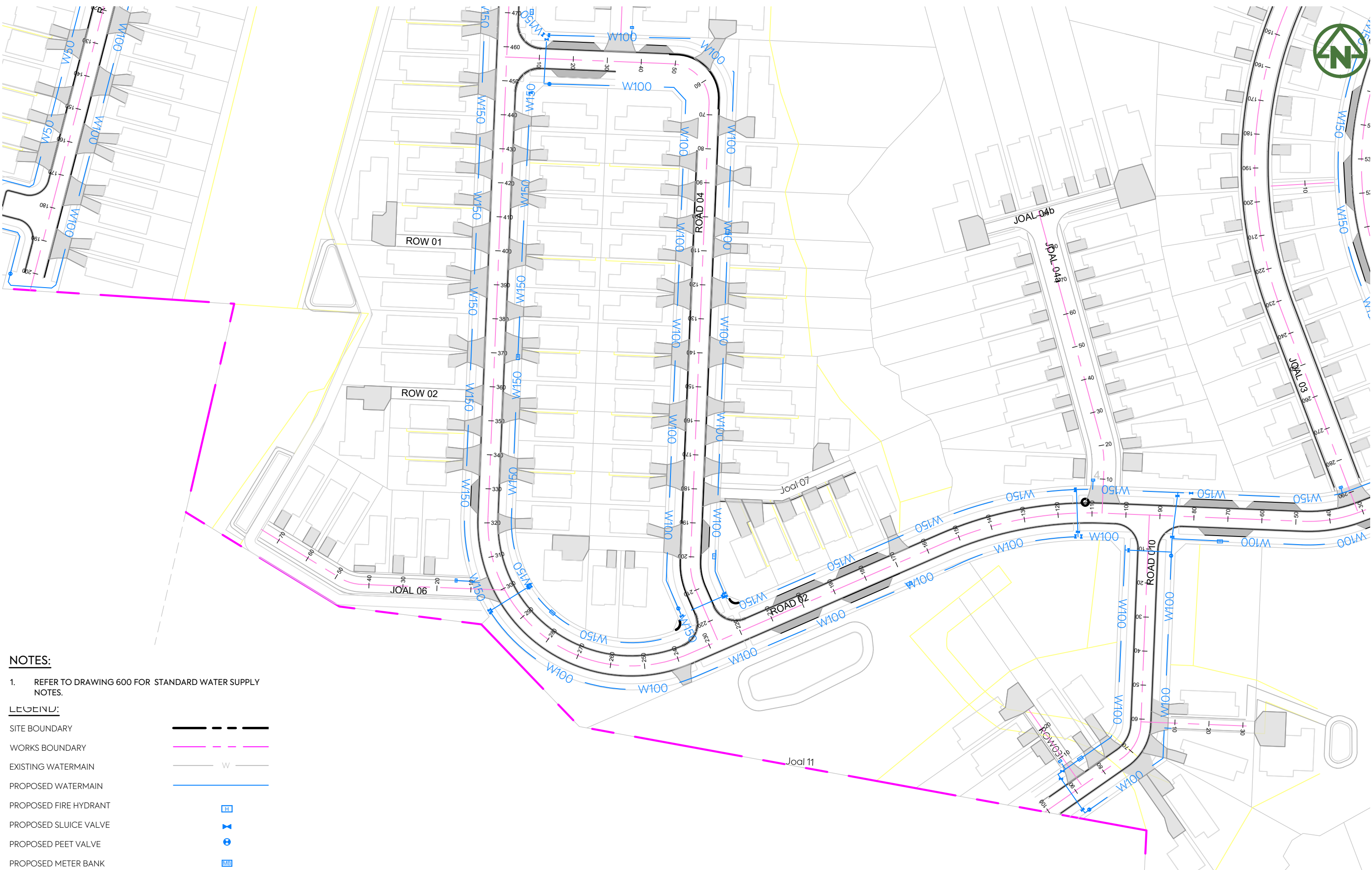
MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 3

B	FOR CONSENT	ZW	JK	31/01/25	
A	FIRST ISSUE				
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



NOTES:

- 1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

- SITE BOUNDARY
- WORKS BOUNDARY
- EXISTING WATERMAIN
- PROPOSED WATERMAIN
- PROPOSED FIRE HYDRANT
- PROPOSED SLUICE VALVE
- PROPOSED PEET VALVE
- PROPOSED METER BANK

VINEWAY LIMITED

DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 4

FOR RESOURCE CONSENT

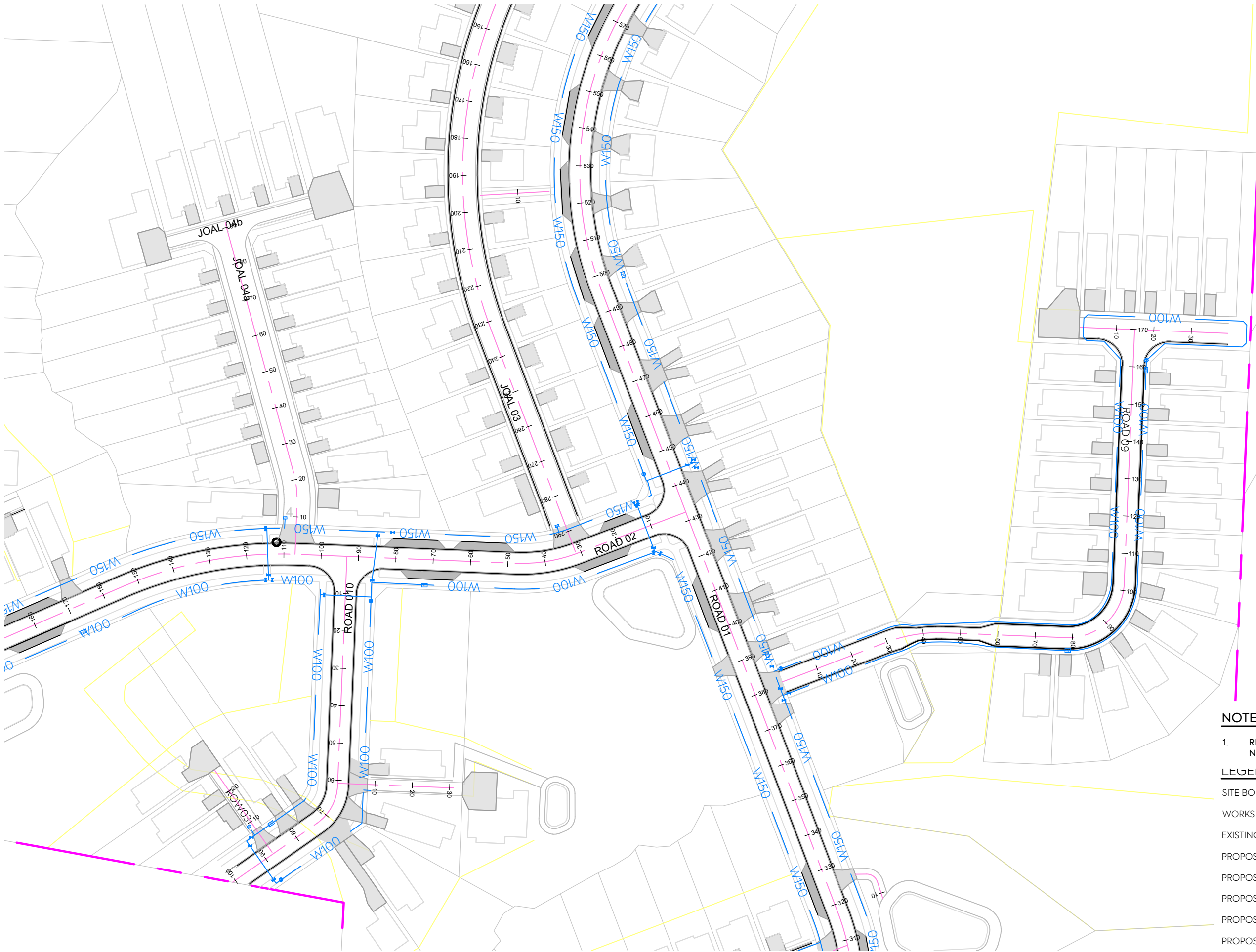
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DO NOT SCALE

DRAWING NO:
3725-1-6004

REV:
B

B	FOR CONSENT	ZW	JK	31/01/25	
A	FIRST ISSUE				
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



NOTES:

- REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	---
WORKS BOUNDARY	---
EXISTING WATERMAIN	W
PROPOSED WATERMAIN	---
PROPOSED FIRE HYDRANT	H
PROPOSED SLUICE VALVE	V
PROPOSED PEET VALVE	P
PROPOSED METER BANK	MB

CLIENT:

PROJECT:

TITLE:

PURPOSE OF ISSUE:

FOR RESOURCE CONSENT

SCALE:
1:1000m @ A3
DO NOT SCALE

DRAWING NO: REV:

3725-1-6005 B



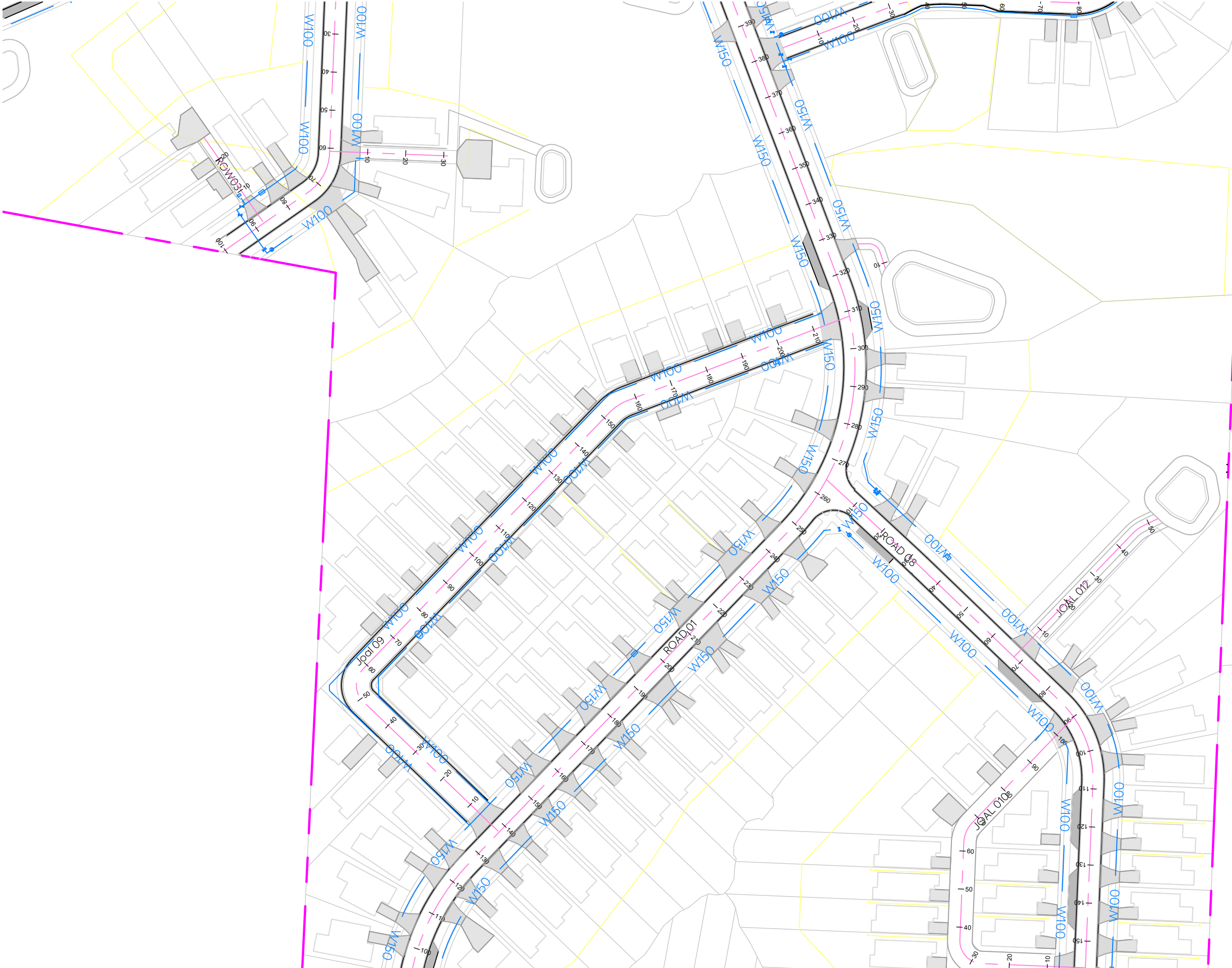
MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 5

B	FOR CONSENT	ZW	JK	31/01/25	
A	FIRST ISSUE				
REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE



1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY

WORKS BOUNDARY

EXISTING WATERMAIN

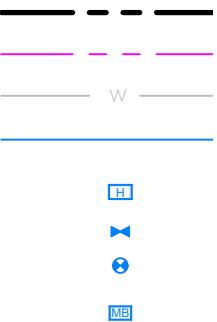
PROPOSED WATERMAIN

PROPOSED FIRE HYDRANT

PROPOSED SLUICE VALVE

PROPOSED PEET VALVE

PROPOSED METER BANK



CLIENT:

PROJECT:

TITLE:

PURPOSE OF ISSUE:

FOR RESOURCE CONSENT

SCALE:
1:1000m @ A3

DO NOT SCALE

DRAWING NO:
3725-1-6006

EV:

B

B FOR CONSENT

ZW JK

31/01/25

A FIRST ISSUE

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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DRN BY	CHK BY	APP BY	DATE
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PLOT DATE 2025-01-31 14:39:17 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE

C:\2DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6000.DWG

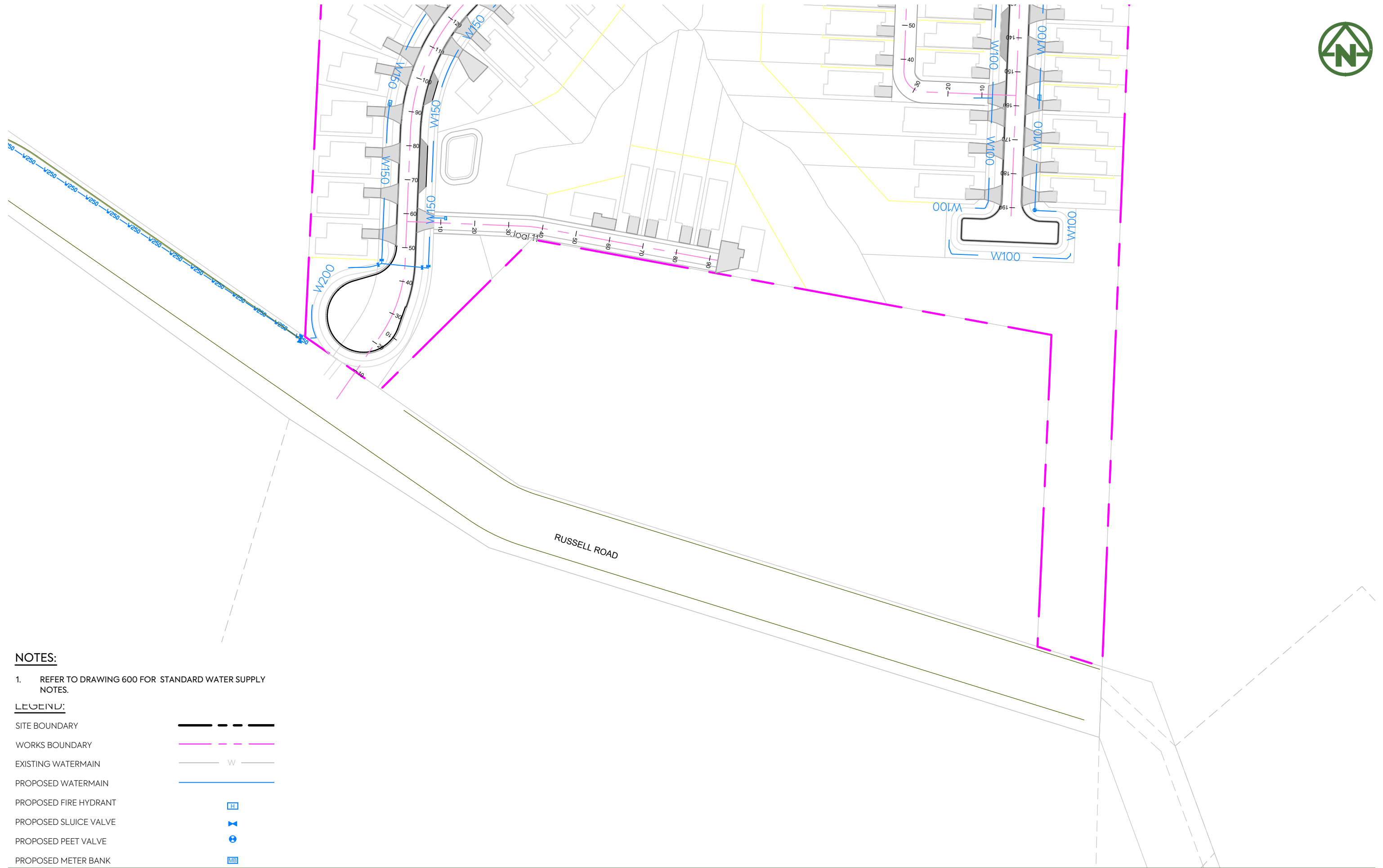


MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 1
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 6



1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

SITE BOUNDARY	
WORKS BOUNDARY	
EXISTING WATERMAIN	
PROPOSED WATERMAIN	
PROPOSED FIRE HYDRANT	
PROPOSED SLUICE VALVE	
PROPOSED PEET VALVE	
PROPOSED METER BANK	

PURPOSE OF ISSUE:

REV:

B

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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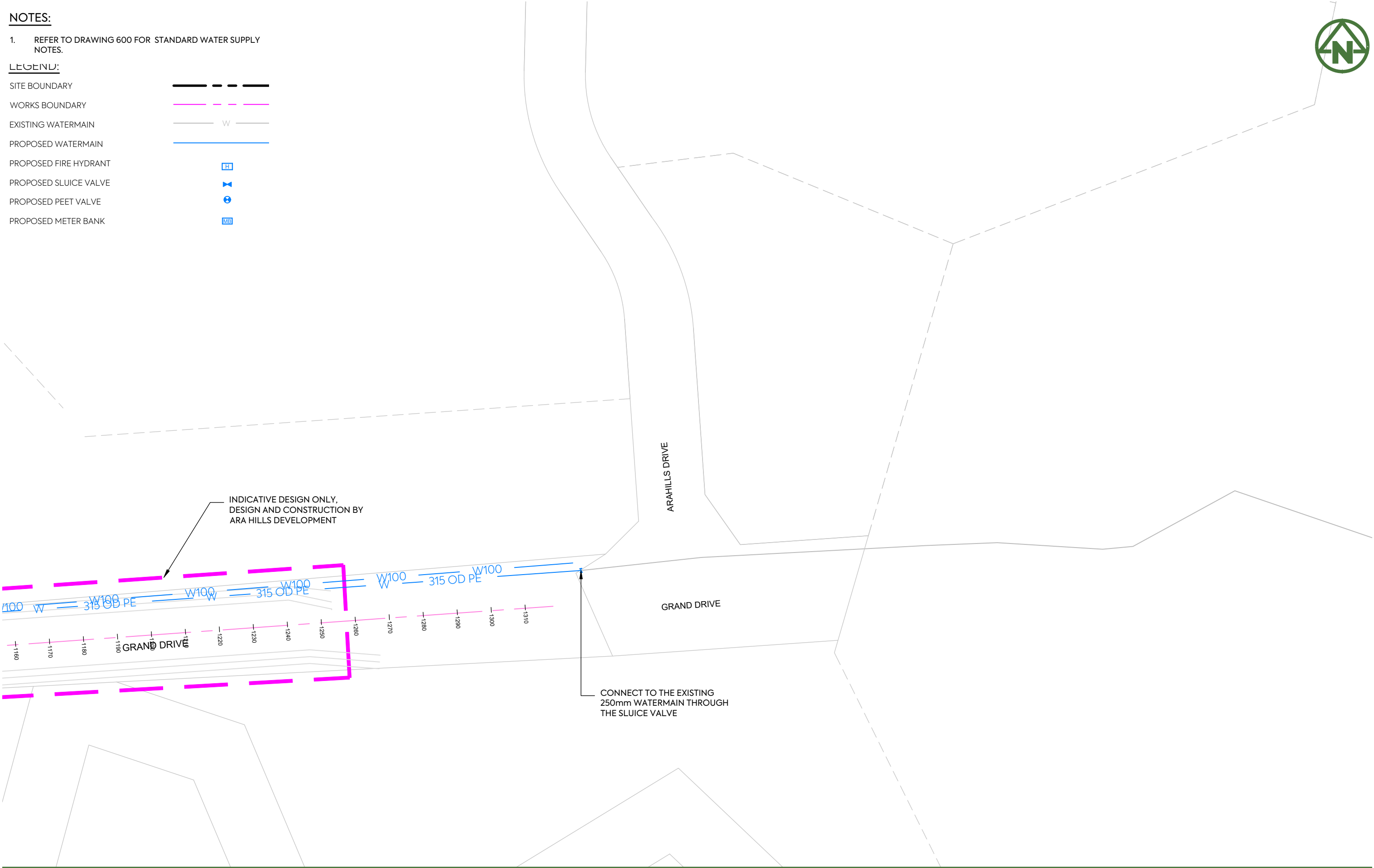
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NOTES:

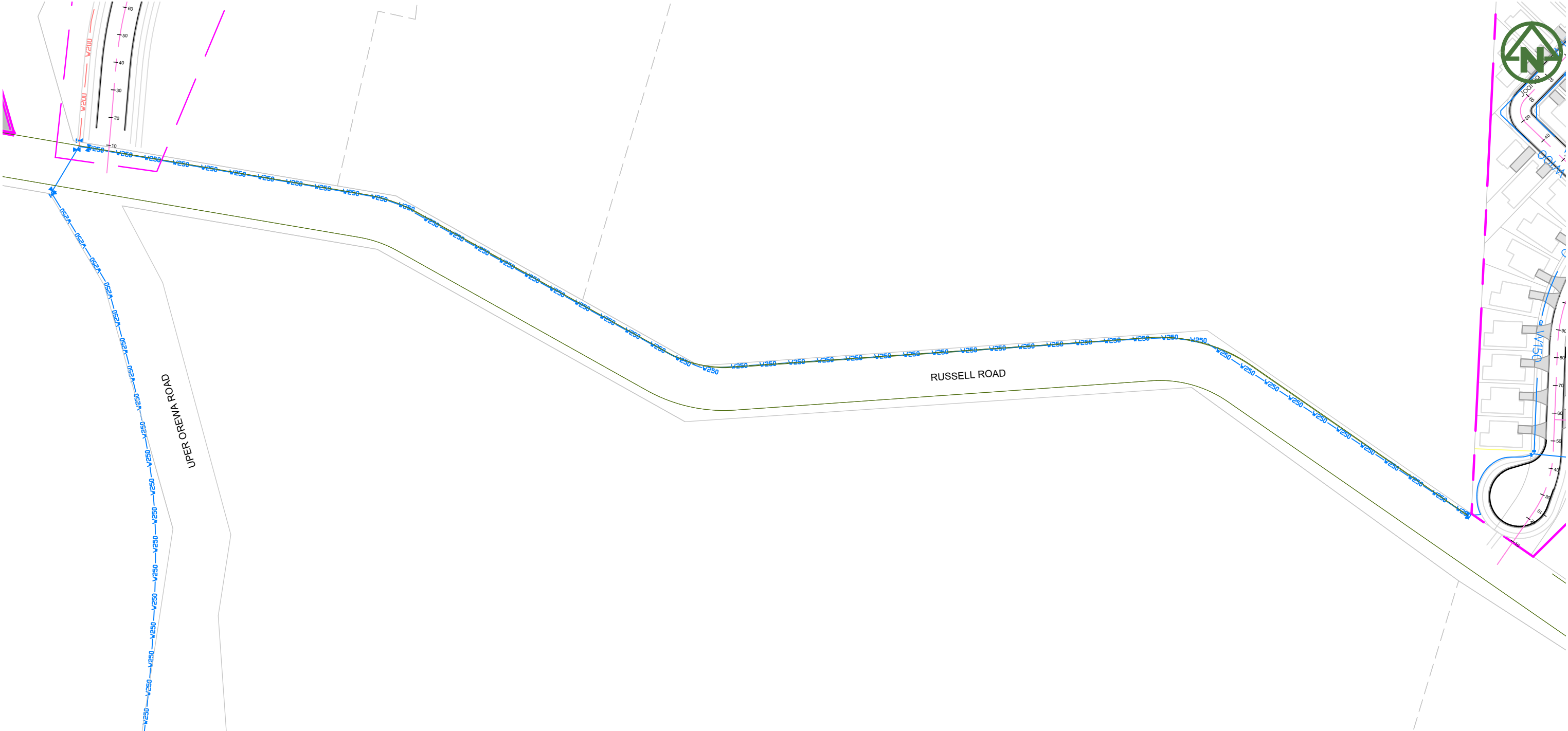
1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	
WORKS BOUNDARY	
EXISTING WATERMAIN	
PROPOSED WATERMAIN	
PROPOSED FIRE HYDRANT	
PROPOSED SLUICE VALVE	
PROPOSED PEET VALVE	
PROPOSED METER BANK	



CLIENT:				PROJECT:		TITLE:		PURPOSE OF ISSUE:	
VINEWAY LIMITED				DELMORE STAGE 1		WATERMAIN SHEET 8		FOR RESOURCE CONSENT	
53A, 53B & 55 RUSSELL RD OREWA								SCALE: 1:1000m @ A3	
								DO NOT SCALE	
								DRAWING NO: 3725-1-6008	
								REV: B	



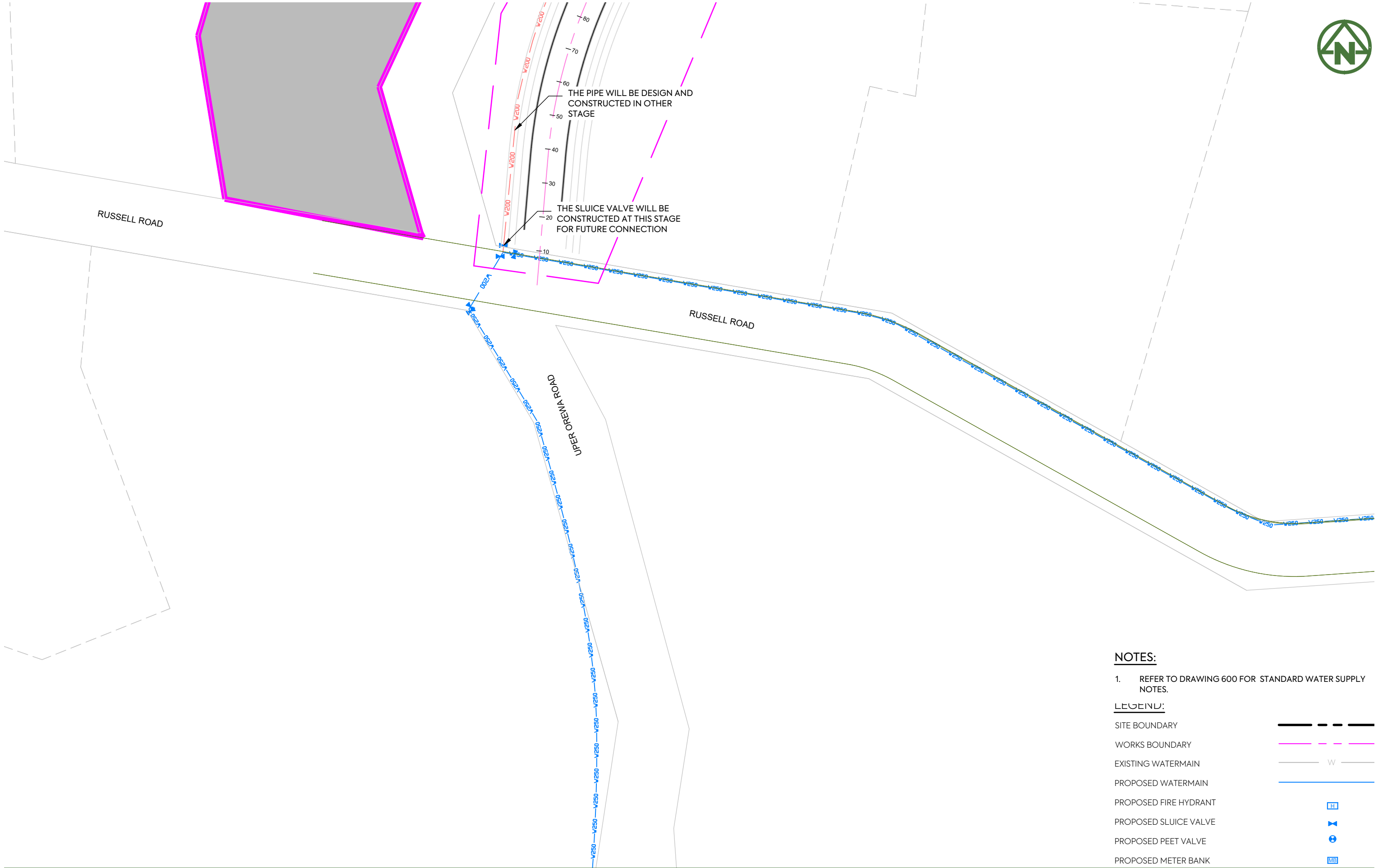
NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	---
WORKS BOUNDARY	---
EXISTING WATERMAIN	W
PROPOSED WATERMAIN	---
PROPOSED FIRE HYDRANT	H
PROPOSED SLUICE VALVE	V
PROPOSED PEET VALVE	P
PROPOSED METER BANK	MB

CLIENT:		PROJECT:		TITLE:		PURPOSE OF ISSUE:	
VINEWAY LIMITED		DELMORE STAGE 1		WATERMAIN SHEET 9		FOR RESOURCE CONSENT	
53A, 53B & 55 RUSSELL RD		OREWA				SCALE: 1:1000m @ A3	
						DO NOT SCALE	
						DRAWING NO: 3725-1-6009	
						REV: B	



NOTES:

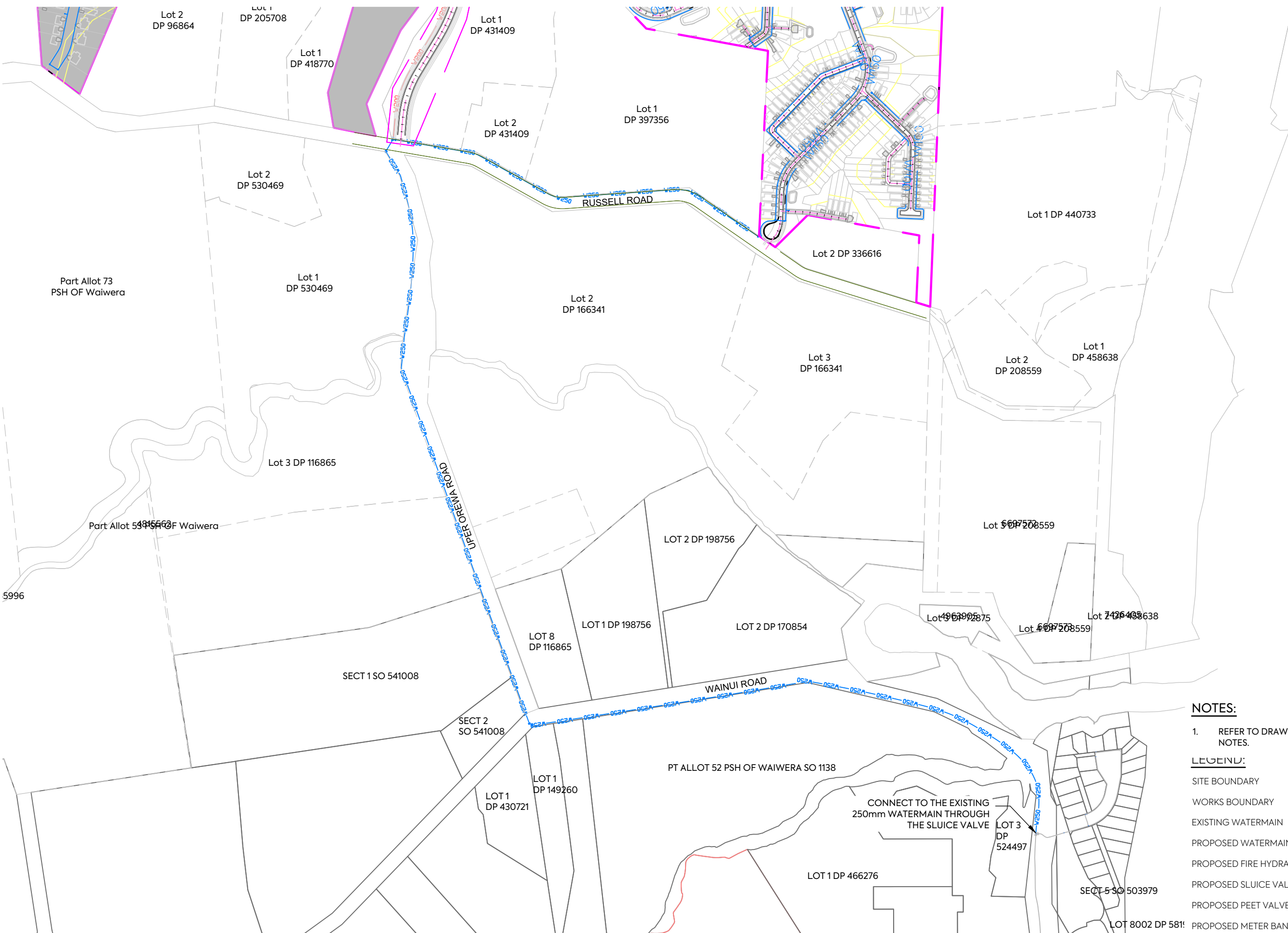
1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	
WORKS BOUNDARY	
EXISTING WATERMAIN	
PROPOSED WATERMAIN	
PROPOSED FIRE HYDRANT	
PROPOSED SLUICE VALVE	
PROPOSED PEET VALVE	
PROPOSED METER BANK	

CLIENT:				PROJECT:		TITLE:		PURPOSE OF ISSUE:	
VINEWAY LIMITED				DELMORE STAGE 1 53A, 53B & 55 RUSSELL RD OREWA		WATERMAIN SHEET 10		FOR RESOURCE CONSENT	
								SCALE: 1:1000m @ A3 DO NOT SCALE	
								DRAWING NO: 3725-1-6010	
								REV: B	

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
B	FOR CONSENT	ZW	JK		31/01/25
A	FIRST ISSUE				



B

C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6000.DWG

NOTES:

1. ALL WATERMAINS SETOUT DATA SHOWN ON 600 SERIES DRAWINGS IS TO BE PROVIDED ELECTRONICALLY.
2. BEDDING AND SURROUND FOR ALL PIPES TO BE IN ACCORDANCE WITH WATERCARE CODE OF PRACTICE FOR LAND DEVELOPMENT AND SUBDIVISION.
3. CONNECTIONS TO EXISTING COUNCIL WATERMAINS ARE TO BE MADE ONLY AFTER TESTING, STERILISATION AND ACCEPTANCE BY WATERCARE AND AUCKLAND COUNCIL.
4. ALL WORKS AND MATERIALS TO COMPLY WITH WATERCARE CODE OF PRACTICE:

I) 50mmØ (63 OD). MDPE 80B AS/NZS 4130/2003 PN12.5 SDR11 COLOURED BLUE.

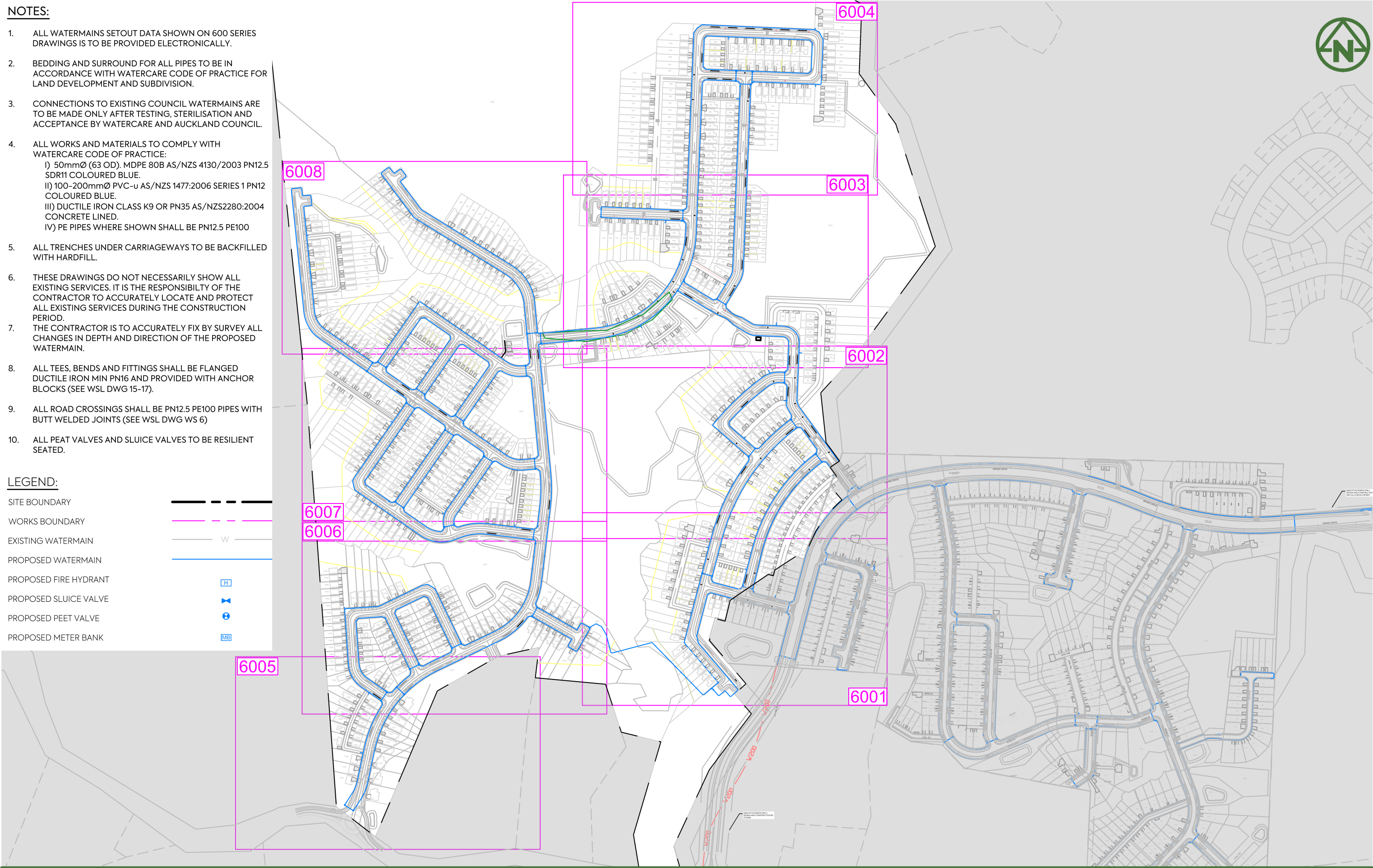
II) 100–200mmØ PVC–u AS/NZS 1477:2006 SERIES 1 PN12 COLOURED BLUE.

III) DUCTILE IRON CLASS K9 OR PN35 AS/NZS2280:2004 CONCRETE LINED.

IV) PE PIPES WHERE SHOWN SHALL BE PN12.5 PE100
5. ALL TRENCHES UNDER CARRIAGEWAYS TO BE BACKFILLED WITH HARDFILL.
6. THESE DRAWINGS DO NOT NECESSARILY SHOW ALL EXISTING SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ACCURATELY LOCATE AND PROTECT ALL EXISTING SERVICES DURING THE CONSTRUCTION PERIOD.
7. THE CONTRACTOR IS TO ACCURATELY FIX BY SURVEY ALL CHANGES IN DEPTH AND DIRECTION OF THE PROPOSED WATERMAIN.
8. ALL TEES, BENDS AND FITTINGS SHALL BE FLANGED DUCTILE IRON MIN PN16 AND PROVIDED WITH ANCHOR BLOCKS (SEE WSL DWG 15-17).
9. ALL ROAD CROSSINGS SHALL BE PN12.5 PE100 PIPES WITH BUTT WELDED JOINTS (SEE WSL DWG WS 6)
10. ALL PEAT VALVES AND SLUICE VALVES TO BE RESILIENT SEATED.

LEGEND:

SITE BOUNDARY	
WORKS BOUNDARY	
EXISTING WATERMAIN	W
PROPOSED WATERMAIN	
PROPOSED FIRE HYDRANT	H
PROPOSED SLUICE VALVE	
PROPOSED PEET VALVE	
PROPOSED METER BANK	MB



C	S92	RC	RC	JK	02/07/25
B	FOR CONSENT	ZW	JK		31/01/25
A	FIRST ISSUE				



MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
OVERALL PLAN

PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:4500m @ A3

DO NOT SCALE

DRAWING NO:
3725-2-6000

REV:

C

NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	
WORKS BOUNDARY	
EXISTING WATERMAIN	
PROPOSED WATERMAIN	
PROPOSED FIRE HYDRANT	
PROPOSED SLUICE VALVE	
PROPOSED PEET VALVE	
PROPOSED METER BANK	



CLIENT:

PROJECT:

TITLE:

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 1

PURPOSE OF ISSUE:

RESOURCE CONSENT

RC

RC

JK

02/07/25

ZW

JK

31/01/25

C

S92

B

FOR CONSENT

A

FIRST ISSUE

REV

DESCRIPTION

DRN BY

CHK BY

APP BY

DATE

VINEWAY LIMITED

SCALE:
1:1000m @ A3
DO NOT SCALE

DRAWING NO:
3725-2-6001

REV:

C



NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY

WORKS BOUNDARY

EXISTING WATERMAIN

PROPOSED WATERMAIN

PROPOSED FIRE HYDRANT

PROPOSED SLUICE VALVE

PROPOSED PEET VALVE

PROPOSED METER BANK

C	S92	RC	RC	JK	02/07/25
B	FOR CONSENT	ZW	JK		31/01/25
A	FIRST ISSUE				



MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

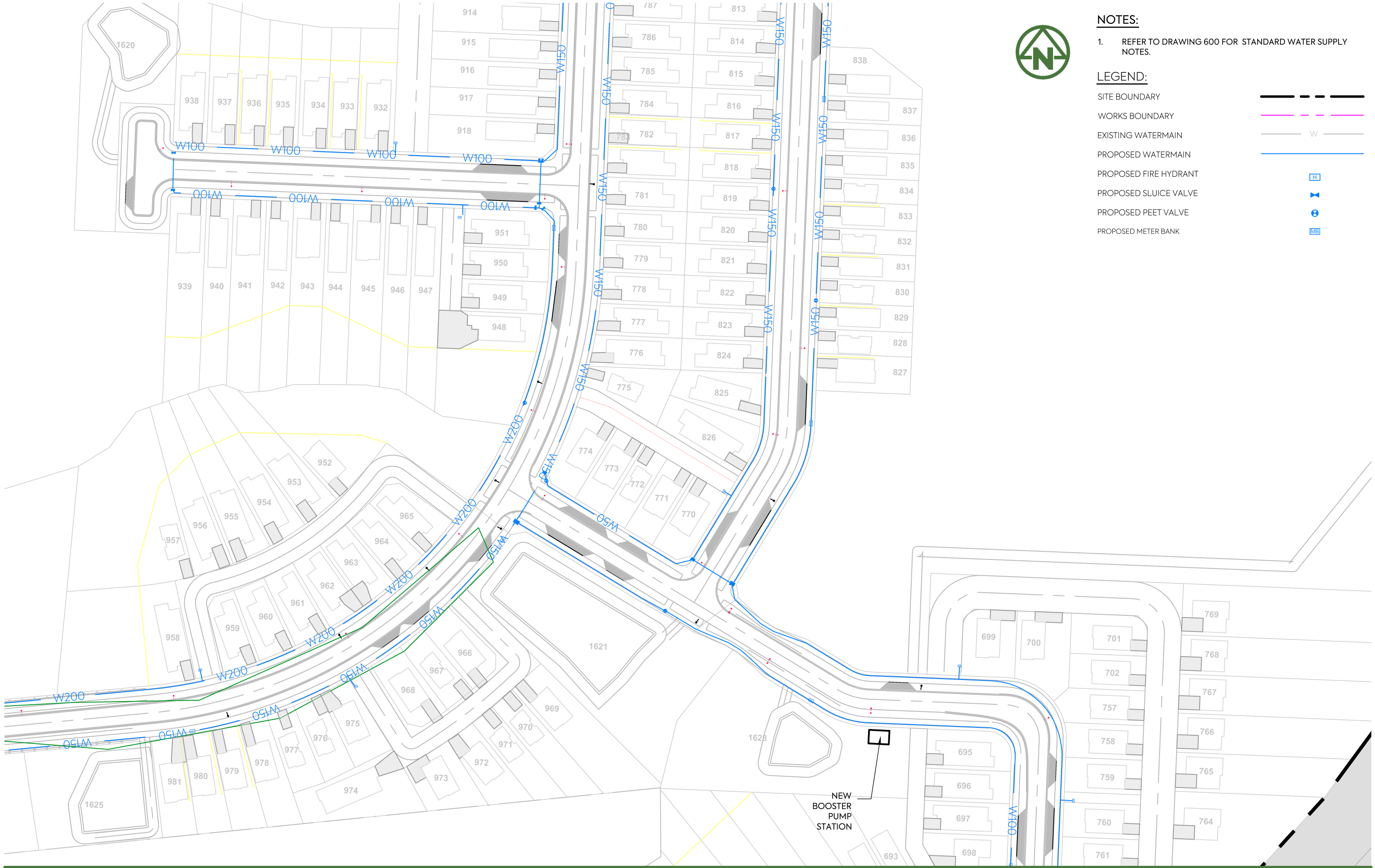
WATERMAIN
SHEET 2

PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:1000m @ A3
DO NOT SCALE

DRAWING NO:
3725-2-6002

REV:
C



- NOTES:**
- REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.
- LEGEND:**
- SITE BOUNDARY
 - WORKS BOUNDARY
 - EXISTING WATERMAIN
 - PROPOSED WATERMAIN
 - PROPOSED FIRE HYDRANT
 - PROPOSED SLUICE VALVE
 - PROPOSED PEET VALVE
 - PROPOSED METER BANK

C	S92	RC	RC	JK	02/07/25
B	FOR CONSENT	ZW	JK		31/01/25
A	FIRST ISSUE				

REV DESCRIPTION DRN BY CHK BY APP BY DATE

PLOT DATE 2025-07-02 21:49:28 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE



MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 3

PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:1000m @ A3

DO NOT SCALE

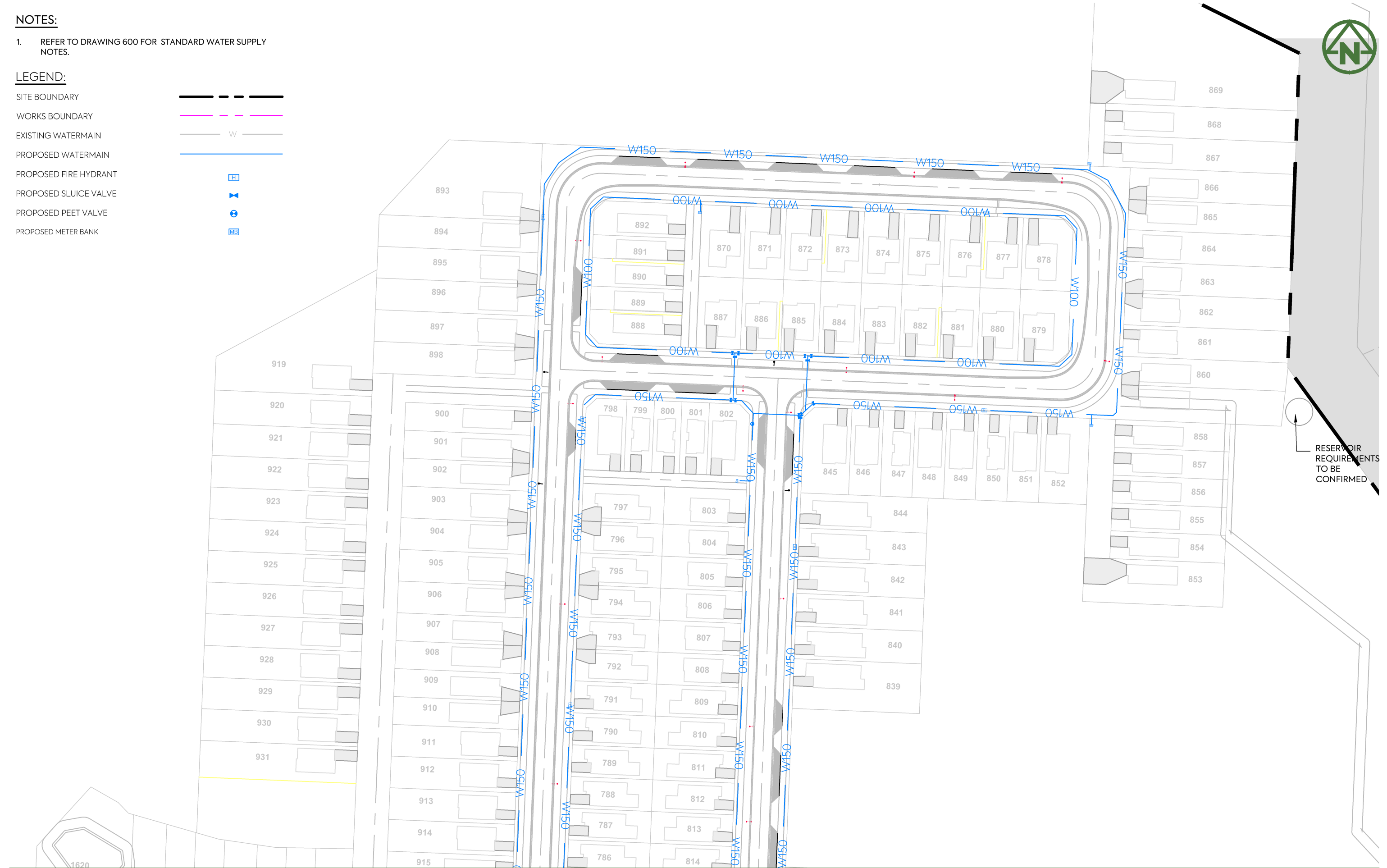
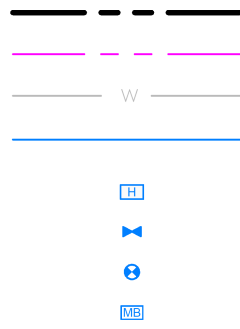
DRAWING NO: REV:

3725-2-6003 C

C:\12DS\DATA\MCKF501\3725-2 DELMORE STAGE 2_5201\06000. ENGINEERING DESIGN\6500. DRAWINGS\6000.DWG

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

SITE BOUNDARY	
WORKS BOUNDARY	
EXISTING WATERMAIN	
PROPOSED WATERMAIN	
PROPOSED FIRE HYDRANT	
PROPOSED SLUICE VALVE	
PROPOSED PEET VALVE	
PROPOSED METER BANK	



RESERVOIR
REQUIREMENTS
TO BE
CONFIRMED

PURPOSE OF ISSUE:

 $\sqrt{}$

3

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
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MCKENZIE & CO.

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 4



NOTES:
1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:
SITE BOUNDARY
WORKS BOUNDARY
EXISTING WATERMAIN
PROPOSED WATERMAIN
PROPOSED FIRE HYDRANT
PROPOSED SLUICE VALVE
PROPOSED PEET VALVE
PROPOSED METER BANK

NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

- SITE BOUNDARY
WORKS BOUNDARY
EXISTING WATERMAIN
PROPOSED WATERMAIN
PROPOSED FIRE HYDRANT
PROPOSED SLUICE VALVE
PROPOSED PEET VALVE
PROPOSED METER BANK



C	S92	RC	RC	JK	02/07/25
B	FOR CONSENT	ZW	JK		31/01/25
A	FIRST ISSUE				



MCKENZIE & CO.

VINEWAY LIMITED

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 6

PURPOSE OF ISSUE:
RESOURCE CONSENT

SCALE:
1:1000m @ A3
DO NOT SCALE

DRAWING NO: 3725-2-6006
REV: C



NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

- SITE BOUNDARY
WORKS BOUNDARY
EXISTING WATERMAIN
PROPOSED WATERMAIN
PROPOSED FIRE HYDRANT
PROPOSED SLUICE VALVE
PROPOSED PEET VALVE
PROPOSED METER BANK



CLIENT:

PROJECT:

TITLE:

PURPOSE OF ISSUE:

RESOURCE CONSENT

SCALE:
1:1000m @ A3

DO NOT SCALE

DRAWING NO:

3725-2-6007

REV:

C



MCKENZIE & CO.

VINEWAY LIMITED

DELMORE

STAGE 2

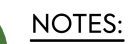
53A, 53B & 55 RUSSELL RD

OREWA

WATERMAIN

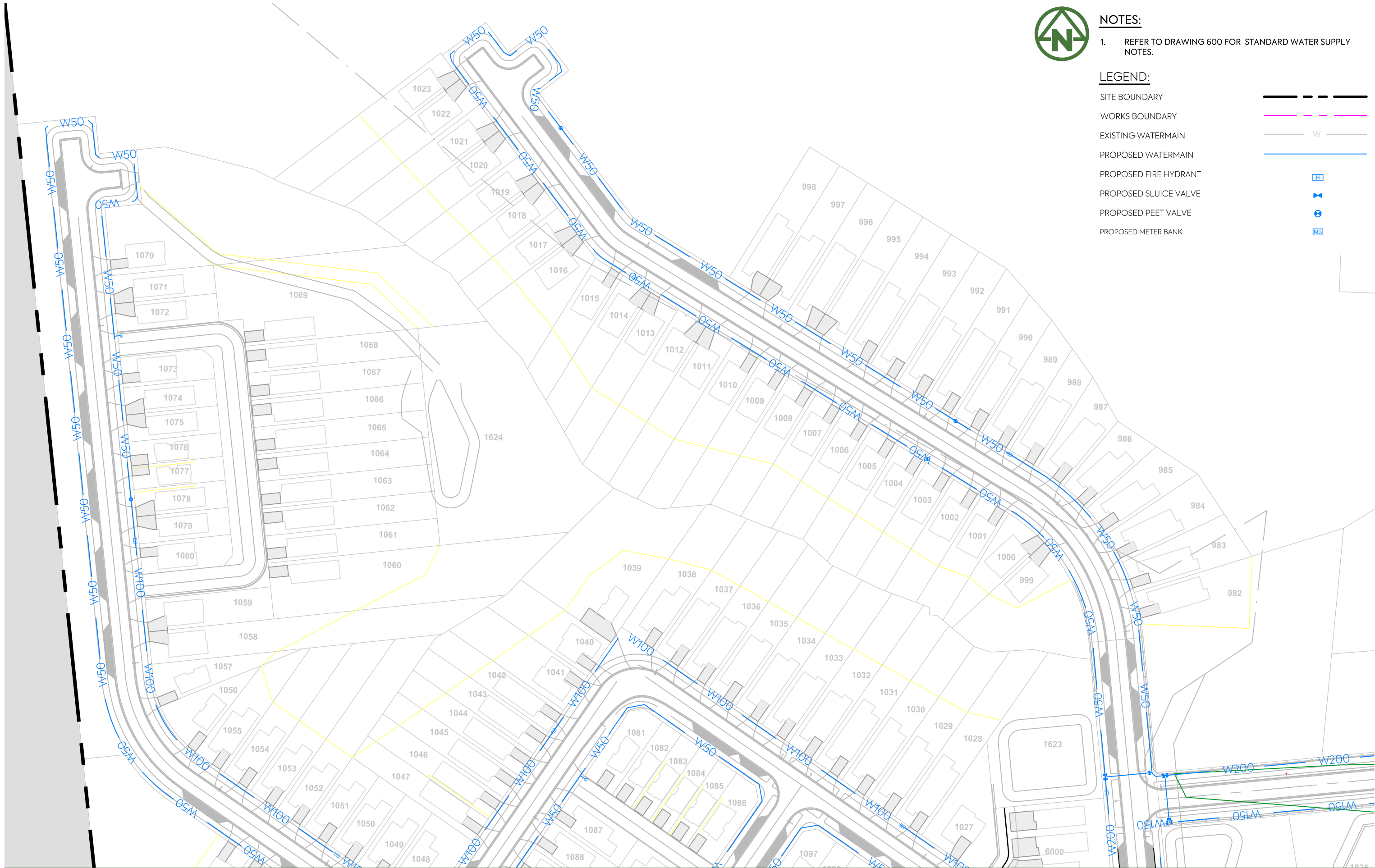
SHEET 7

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
C	S92	RC	RC	JK	02/07/25
B	FOR CONSENT	ZW	JK		31/01/25
A	FIRST ISSUE				



- LEGEND:

PROPOSED METER BANK



PURPOSE OF ISSUE:

WATERMAIN
SHEET 8

RESOURCE CONSENT

SCALE:
1:1000m @ A3

DO NOT SCALE

DRAWING NO: REV:

3725-2-6008 C

C

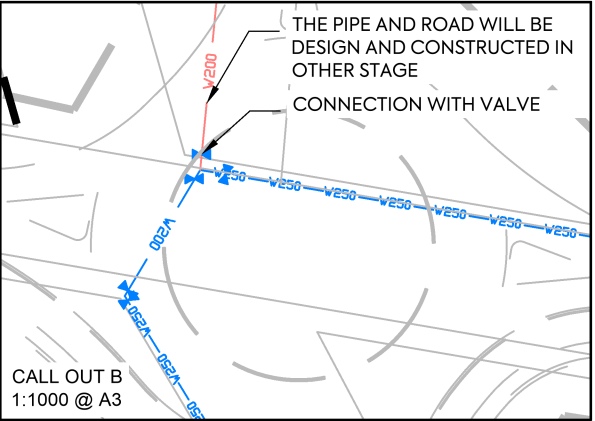
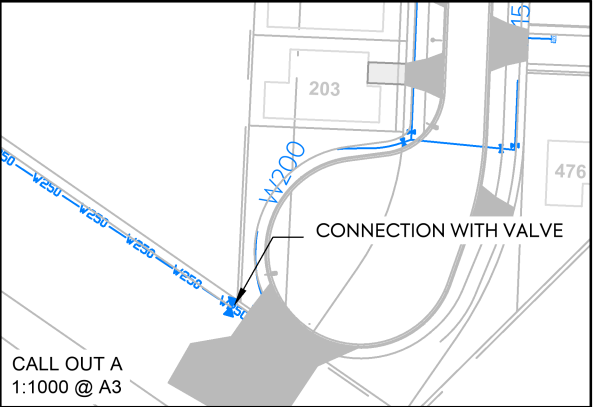
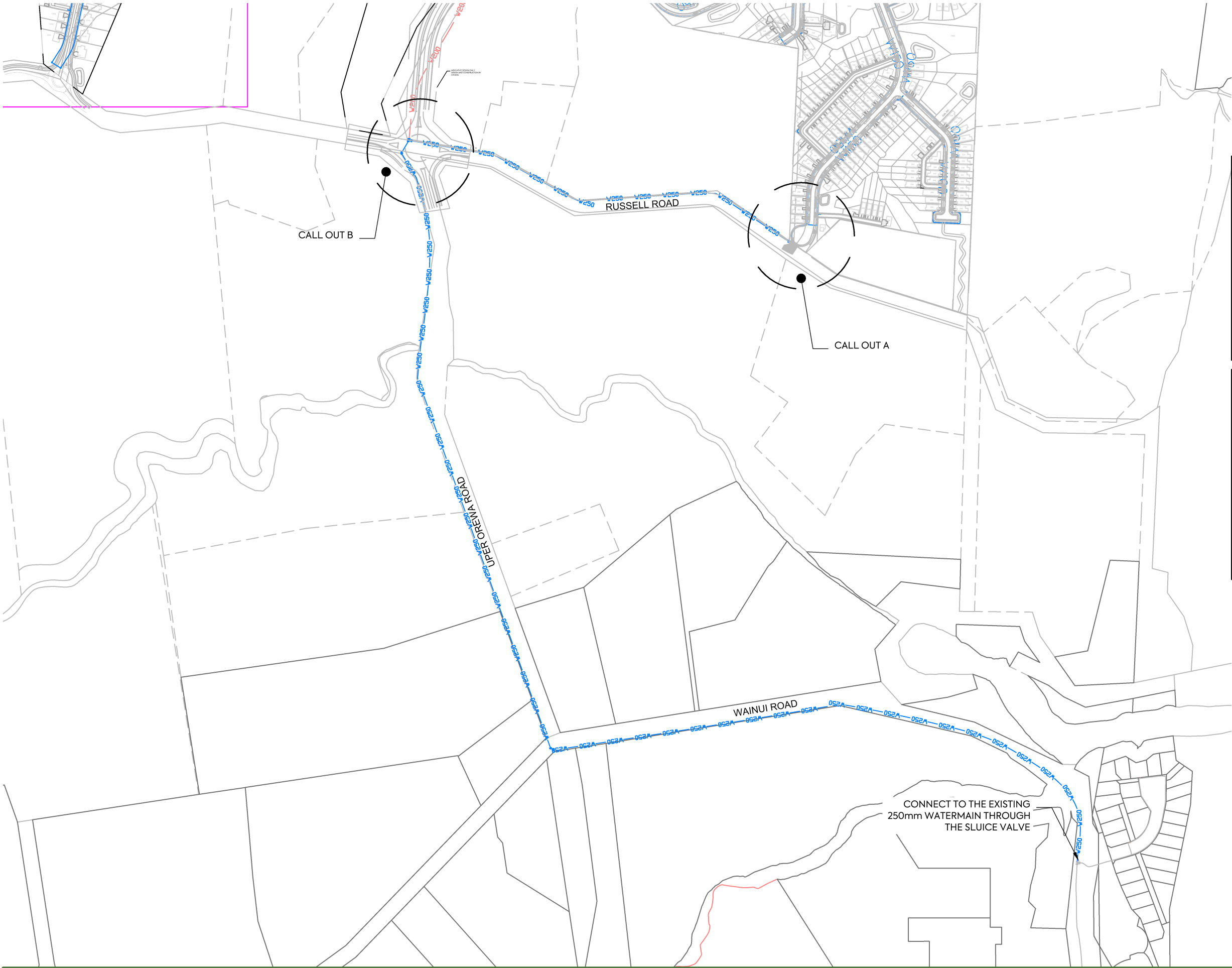


MCKENZIE & CO.

VINEWAY LIMITED

REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
PLOT DATE	2025-07-02 21:50:17	WWW.MCKENZIEANDCO.CO.NZ	THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSES.		

C:\12DS\DATA\MCKFS01\3725-2 DELMORE STAGE 2_5201\06000. ENGINEERING DESIGN\6500. DRAWINGS\6000.DWG



NOTES:

1. REFER TO DRAWING 600 FOR STANDARD WATER SUPPLY NOTES.

LEGEND:

SITE BOUNDARY	---
WORKS BOUNDARY	---
EXISTING WATERMAIN	W
PROPOSED WATERMAIN	---
PROPOSED FIRE HYDRANT	H
PROPOSED SLUICE VALVE	SV
PROPOSED PEET VALVE	PV
PROPOSED METER BANK	MB

REV

DESCRIPTION

DRN BY

CHK BY

APP BY

DATE

C

S92

RC

RC

JK

02/07/25

B

FOR CONSENT

ZW

JK

31/01/25

A

FIRST ISSUE

CLIENT:

PROJECT:

TITLE:

VINEWAY LIMITED

DELMORE
STAGE 2
53A, 53B & 55 RUSSELL RD
OREWA

WATERMAIN
SHEET 9

PURPOSE OF ISSUE:

RESOURCE CONSENT

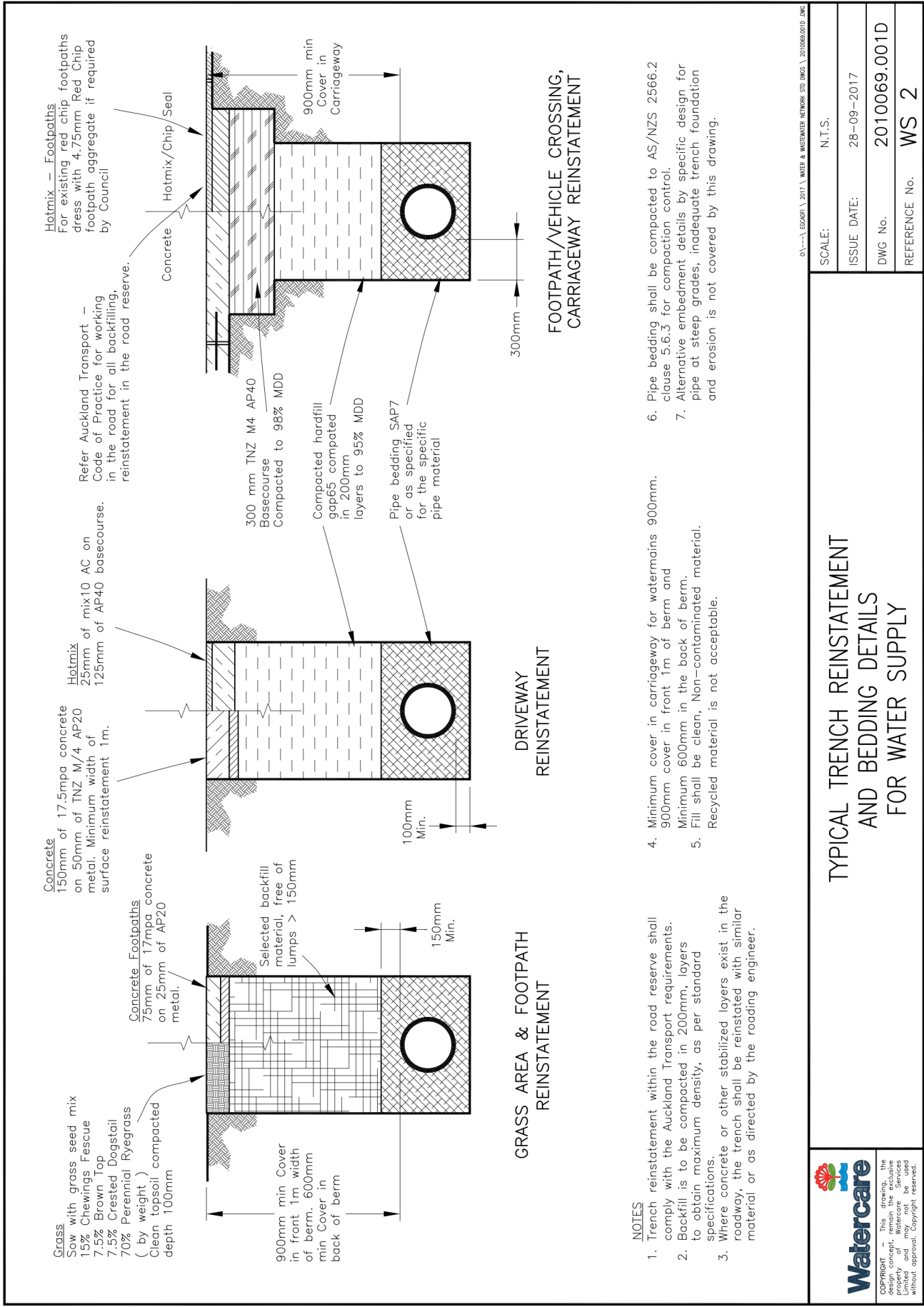
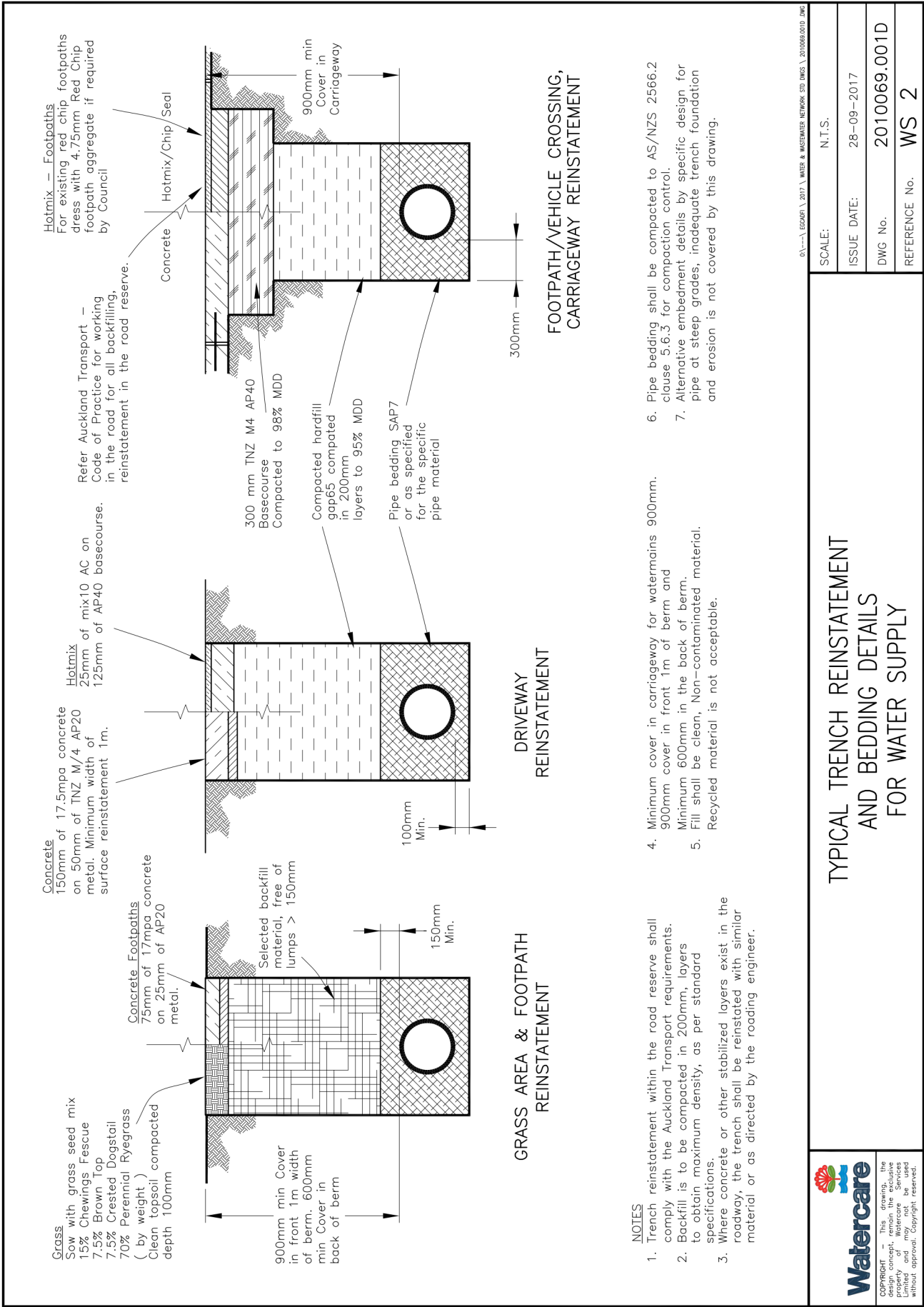
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DO NOT SCALE

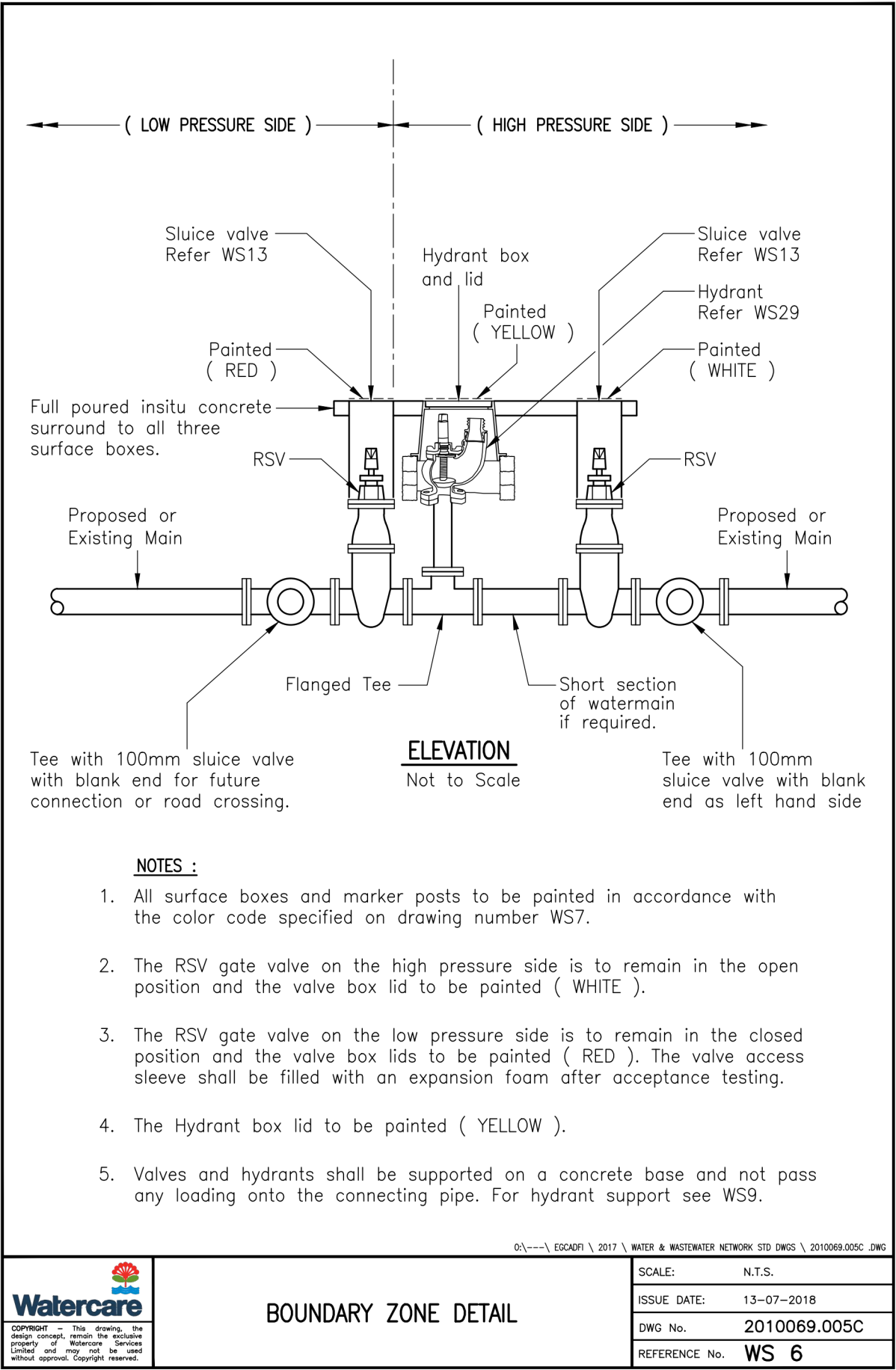
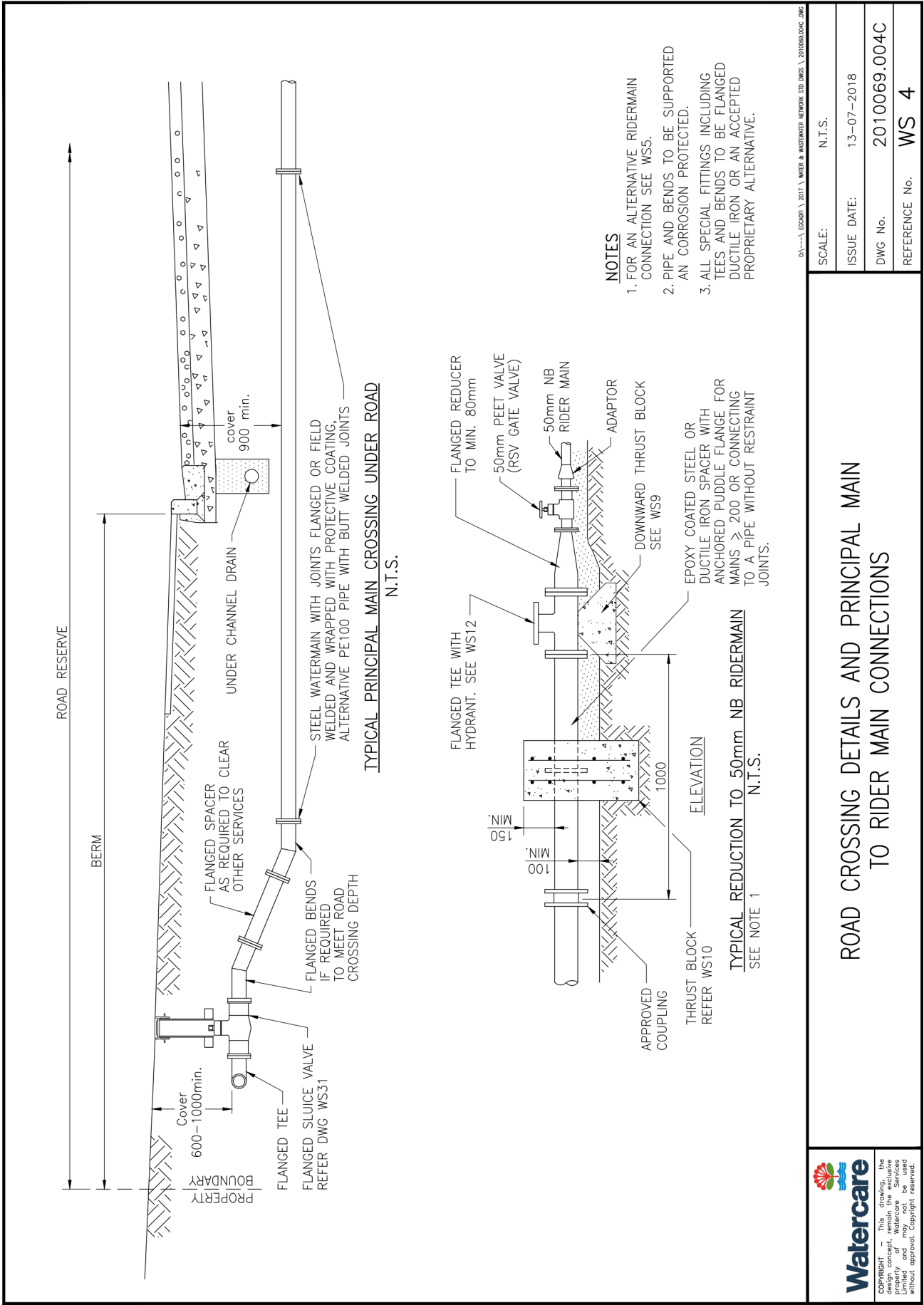
DRAWING NO:

REV:

3725-2-6009

C





REV	DESCRIPTION	DRN BY	CHK BY	APP BY	DATE
B	FOR CONSENT				31/01/25
A	FIRST ISSUE				



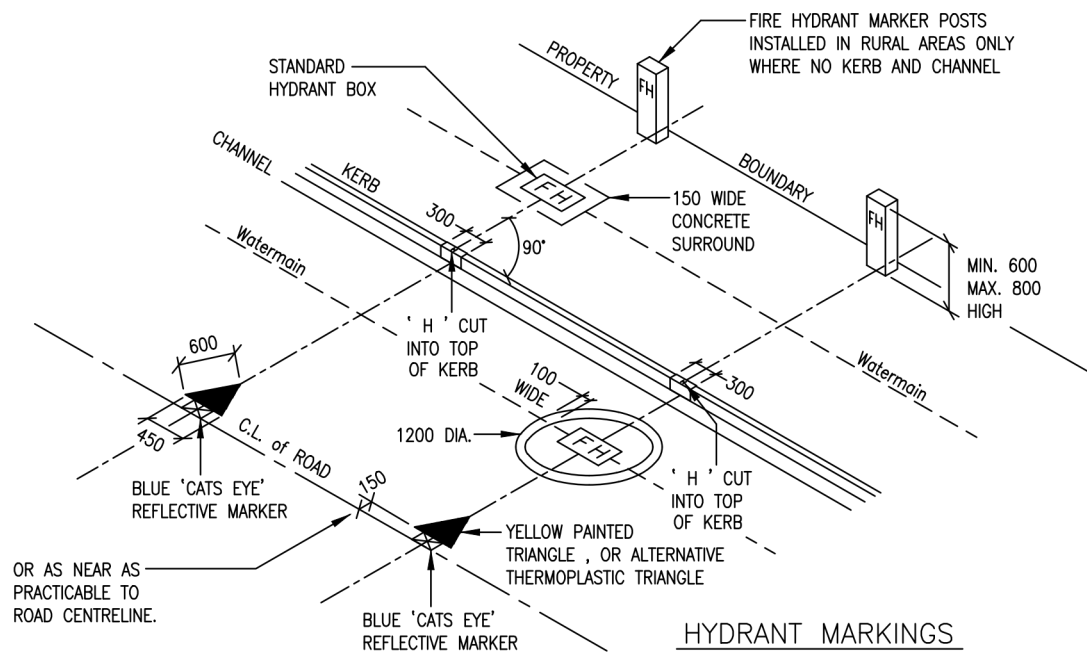
MCKENZIE & CO.

CLIENT:
VINEWAY LTD

PROJECT:
DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:
WATER SUPPLY
STANDARD DETAILS
SHEET 2

PURPOSE OF ISSUE:
RESOURCE CONSENT
SCALE:
N.T.S.
DO NOT SCALE
DRAWING NO:
3725-6901
REV:
B



NOTES

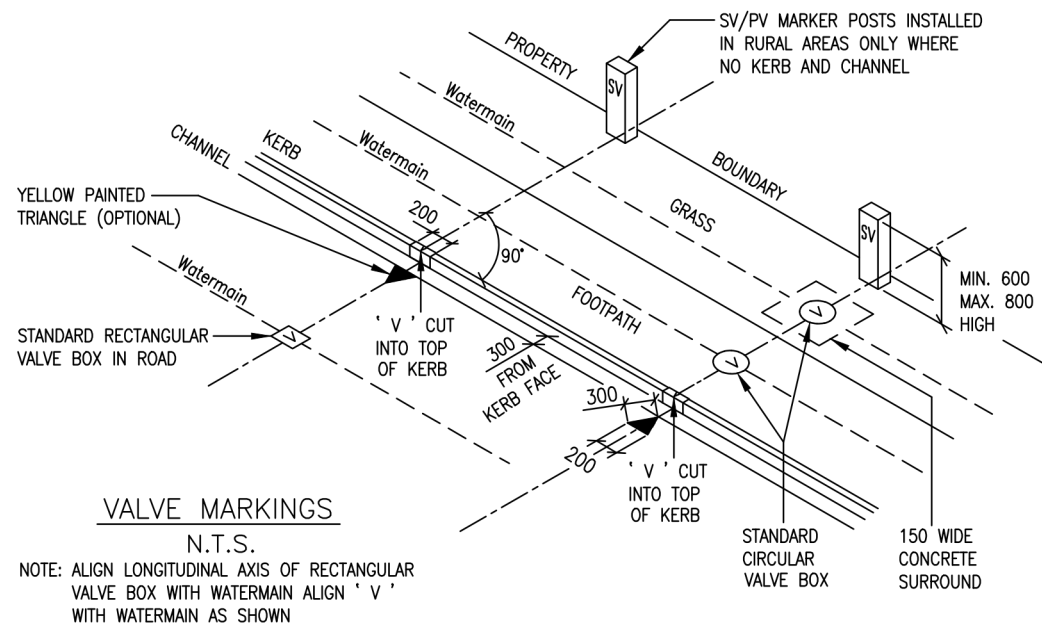
PAINT USED FOR ALL MARKINGS AND CI/DI LIDS SHALL BE TRANSIT "ROAD MARKING PAINT" AS FOLLOWS:-

HYDRANTS - YELLOW PROTECTIVE PAINTS LTD.- JAY CODE: 880-403 OR - RESENE M7-W ; (ALTERNATIVE OPTION THERMOPLASTIC TRIANGLE)

VALVES (PV, SV, AV's) - WHITE

SPECIAL CONTROL VALVES (SHUT) - RED

RESENE RED OXIDE - VINYL ETCH ADHESION PRIMER



VALVE AND HYDRANT MARKINGS

SCALE: N.T.S.

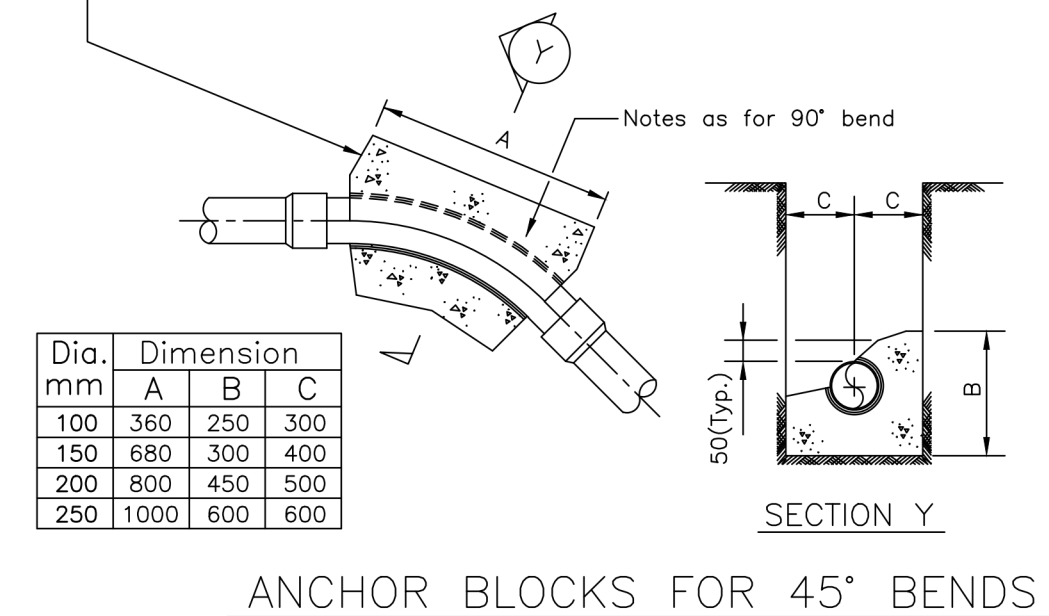
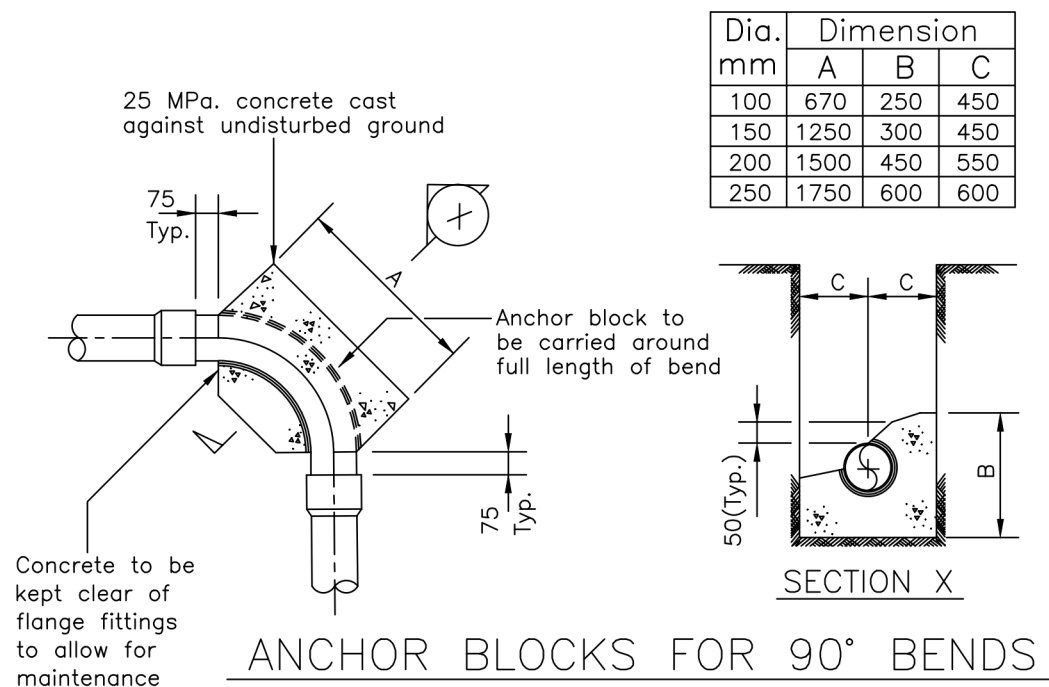
ISSUE DATE: 10-02-2017

DWG No. 2010069.006B

REFERENCE No. WS 7

Notes :

1. Thrust block dimensions are based on firm soil conditions.
2. The dimensions to be increased or decreased for variation in soil conditions.
3. Allowable bearing stress used - 100KPa.
4. As built locations to be obtained prior to backfill.
5. Protective membrane (Polythene) between concrete & pipe.
6. 75mm clearance between fittings/flanges and concrete casting.
7. All fittings to be wrapped with a suitable wrapping system.



ANCHOR BLOCK DETAILS FOR 90° & 45° BENDS

SCALE: N.T.S.

ISSUE DATE: 10-02-2017

DWG No. 2010069.013B

REFERENCE No. WS 8

CLIENT:

VINEWAY LTD

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:

WATER SUPPLY
STANDARD DETAILS

SHEET 3

PURPOSE OF ISSUE:

RESOURCE CONSENT

SCALE:
N.T.S.

DO NOT SCALE

DRAWING NO:

3725-6902

REV:

B

B FOR CONSENT
A FIRST ISSUE

31/01/25

REV DESCRIPTION DRN BY CHK BY APP BY DATE

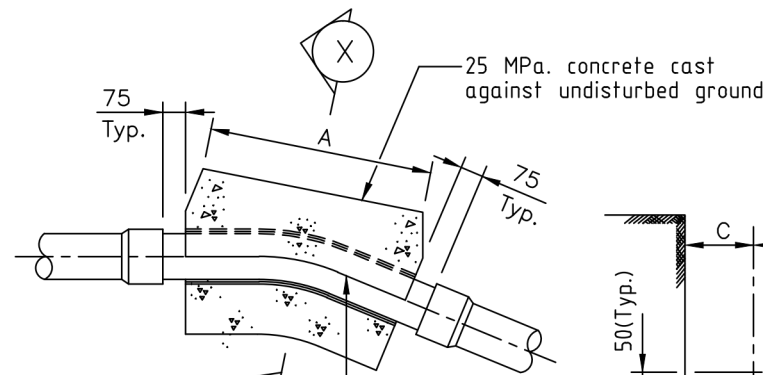
PLOT DATE 2025-01-31 15:23:42 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE

C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6900.DWG

MCKENZIE & CO.

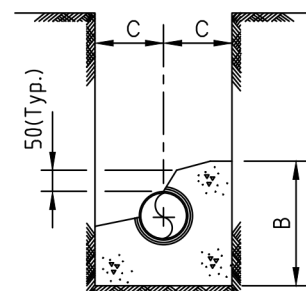
Notes :

1. Thrust block dimensions are based on firm soil conditions.
2. The dimensions to be increased or decreased for variation in soil conditions.
3. Allowable bearing stress used - 100KPa.
4. As built locations to be obtained prior to backfill.
5. Protective membrane (Polythene) between concrete & pipe.
6. 75mm clearance between fittings/flanges and concrete casting.
7. All fittings to be wrapped with a suitable wrapping system.



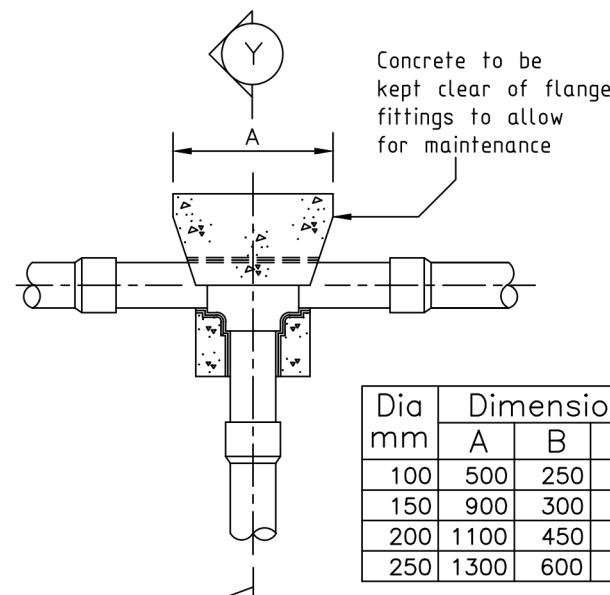
Dia mm	Dimension		
	A	B	C
100	300	250	300
150	400	300	400
200	500	450	500
250	600	600	600

Anchor block to be carried around full length of bend

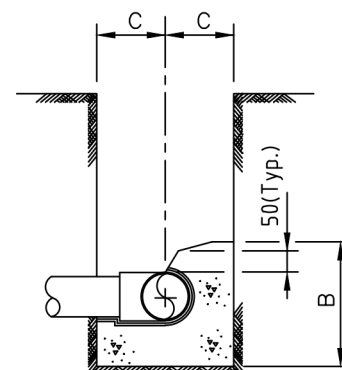


SECTION X

ANCHOR BLOCKS FOR 22 1/2° & 11 1/4° BENDS



Dia mm	Dimension		
	A	B	C
100	500	250	450
150	900	300	450
200	1100	450	550
250	1300	600	600



SECTION Y

ANCHOR BLOCKS TEE JUNCTION & END CAPS

0:\---\ EGCADFI \ 2017 \ WATER & WASTEWATER NETWORK STD DWGS \ 2010069.014B .DWG

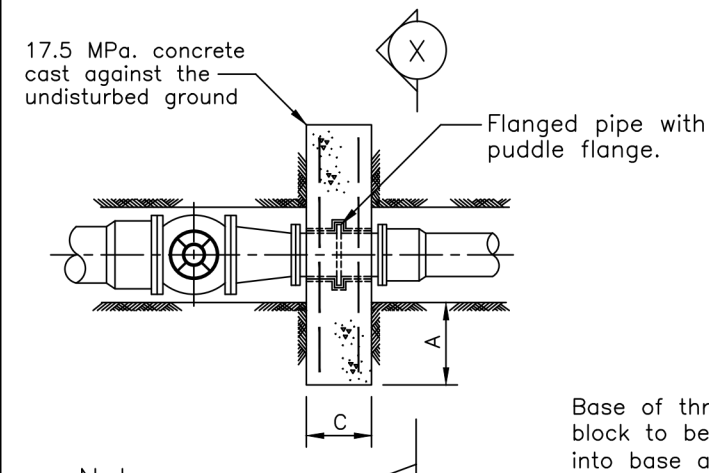


ANCHOR BLOCK DETAILS
FOR 22 1/2° & 11 1/4° BENDS
AND TEE JUNCTION

SCALE:	N.T.S.
ISSUE DATE:	10-02-2017
DWG No.	2010069.014B
REFERENCE No.	WS 9

CLIENT:

VINEWAY LTD



Notes :

1. Concrete thrust block dimensions are based on firm soil conditions.
2. The dimensions to be increased or decreased for variation in soil conditions.
3. Allowable bearing stress used - 100KPa.
4. As built locations to be obtained prior to backfill.
5. Protective membrane (Polythene) between concrete and pipe.
6. 75mm clearance between fittings/flanges and concrete casting.
7. All fittings to be wrapped with a suitable wrapping system.

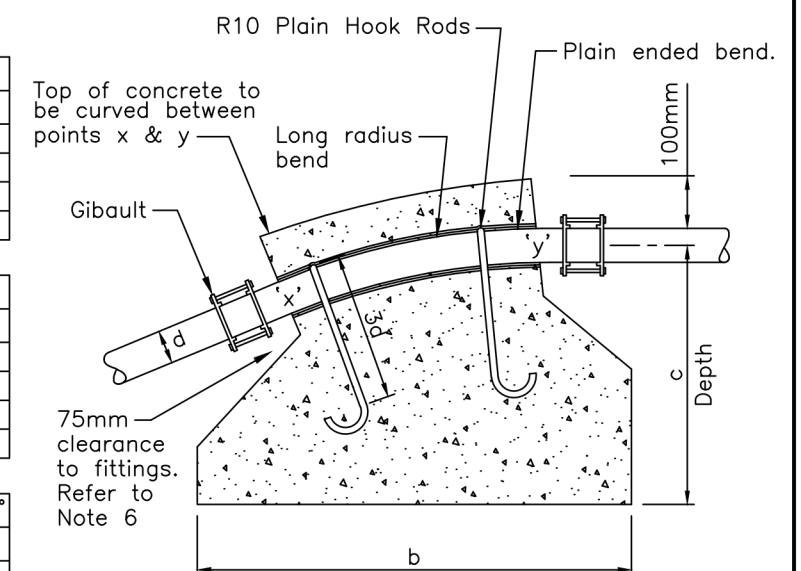
Reducer mm	Reducers		
	A	B	C
100-150	250	350	300
100-200	500	350	300
150-200	250	500	300
150-250	500	500	300
200-250	250	600	300
200-300	400	700	300

ANCHOR BLOCKS AT REDUCERS

Pipe Dia	Vertical Bends-45°		
	a	b	c
100mm	600	800	700
150mm	800	1000	800
200mm	1000	1200	800
250mm	1000	1600	1000

Pipe Dia	Vertical Bends-22.5°		
	a	b	c
100mm	500	500	500
150mm	500	800	800
200mm	700	1000	800
250mm	800	1200	900

Pipe Dia	Vertical Bends-11.25°		
	a	b	c
100mm	400	500	500
150mm	500	600	600
200mm	500	800	800
250mm	700	1000	800



a = Width of Anchor Block

VERTICAL SECTION

ANCHOR BLOCKS AT BENDS IN VERTICAL PLANE

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ANCHOR BLOCK DETAILS
REDUCERS AND VERTICAL BENDS

SCALE:	N.T.S.
ISSUE DATE:	10-02-2017
DWG No.	2010069.015B
REFERENCE No.	WS 10

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:

WATER SUPPLY
STANDARD DETAILS

PURPOSE OF ISSUE:

RESOURCE CONSENT

SCALE:
N.T.S.

DO NOT SCALE

DRAWING NO:

3725-6903

REV:

B

SHEET 4

MCKENZIE & CO.

B FOR CONSENT

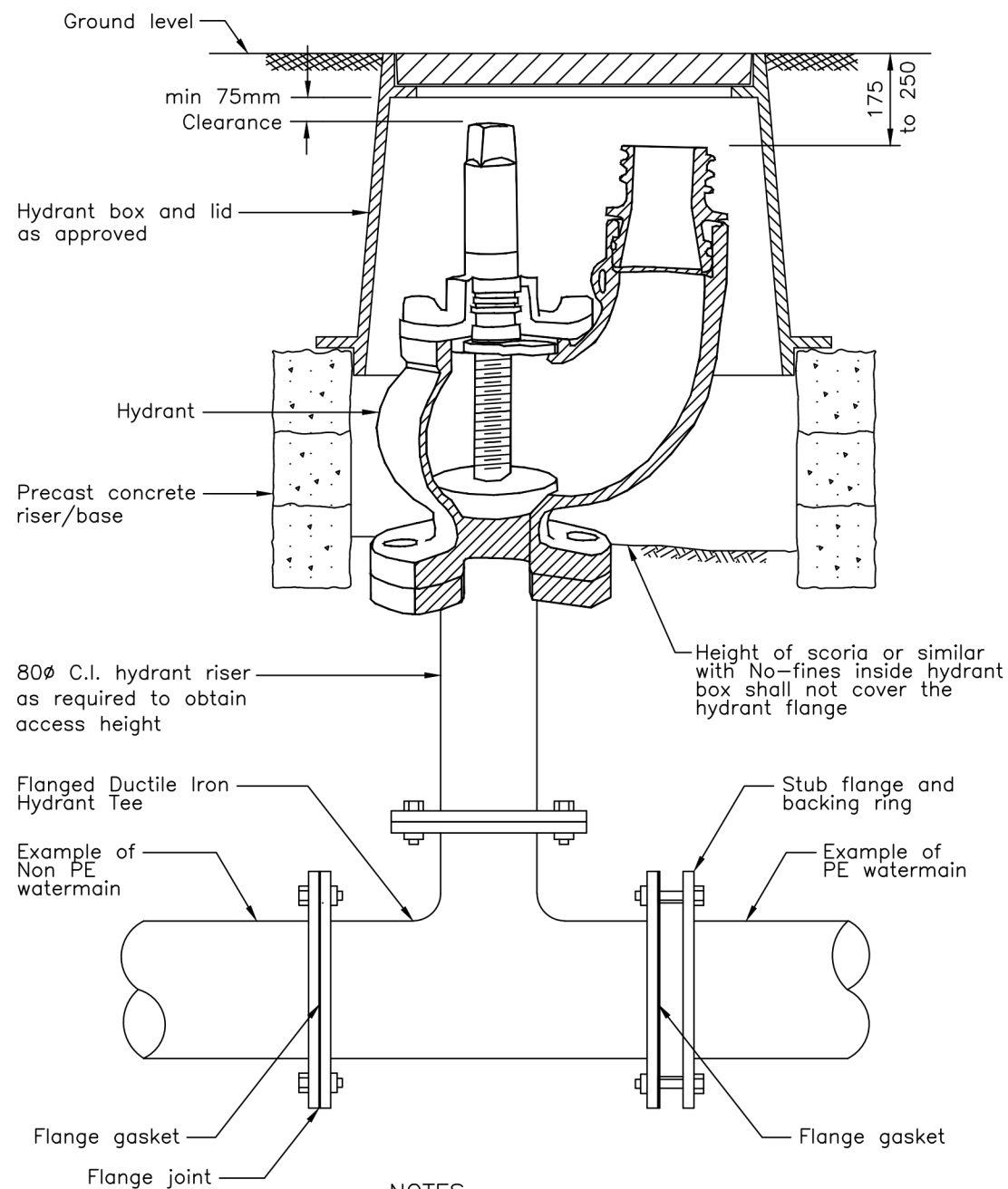
A FIRST ISSUE

31/01/25

DRN BY CHK BY APP BY DATE

PLOT DATE 2025-01-31 15:23:43 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE

C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6900.DWG



NOTES

1. The hydrant box shall be spaced to provide clear access to the valve spindle and outlet.
2. All flanges and fittings shall be wrapped with suitable corrosion protection wrapping to the manufacturers requirements. Refer WS11
3. Concrete support to be provided under hydrant Tee. Refer WS9. (The concrete overbear can be ignored)

0:\---\ EGCADFI \ 2017 \ WATER & WASTEWATER NETWORK STD DWGS \ 2010069.027A .DWG

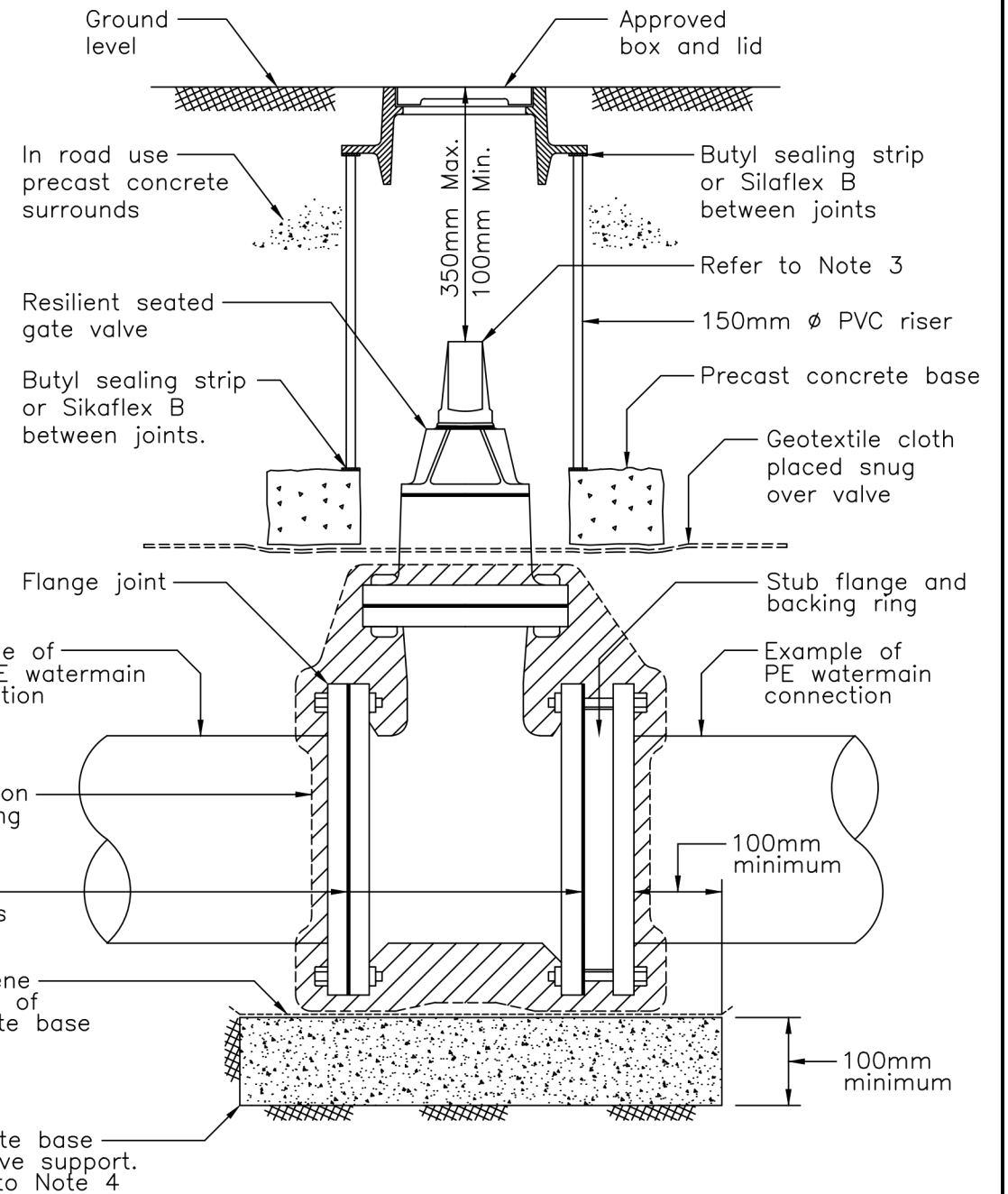


HYDRANT DETAIL

SCALE:	N.T.S.
ISSUE DATE:	06-03-2017
DWG No.	2010069.027A
REFERENCE No.	WS 12

CLIENT:

VINEWAY LTD



NOTES

1. The valve, including flanges shall be completely wrapped in approved corrosion protected wrapping system to the wrapping manufacturers requirements.
2. Refer WS11 for typical notes on flange bolting .
3. An extension spindle shall be incorporated as required to ensure the top of the spindle is no more than 350mm below the finished surface level.
4. For valves 150mm and greater the valve shall be supported on a in-situ cast concrete base of suitable dimension to prevent any loads transfered to the pipe.

0:\---\ EGCADFI \ 2017 \ WATER & WASTEWATER NETWORK STD DWGS \ 2010069.029B .DWG



FLANGED SLUICE VALVE DETAIL

SCALE:	N.T.S.
ISSUE DATE:	26-05-2017
DWG No.	2010069.029B
REFERENCE No.	WS 13

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:

WATER SUPPLY
STANDARD DETAILS

PURPOSE OF ISSUE:

RESOURCE CONSENT

SCALE:
N.T.S.
DO NOT SCALE

DRAWING NO:
3725-6904

REV:

B



MCKENZIE & CO.

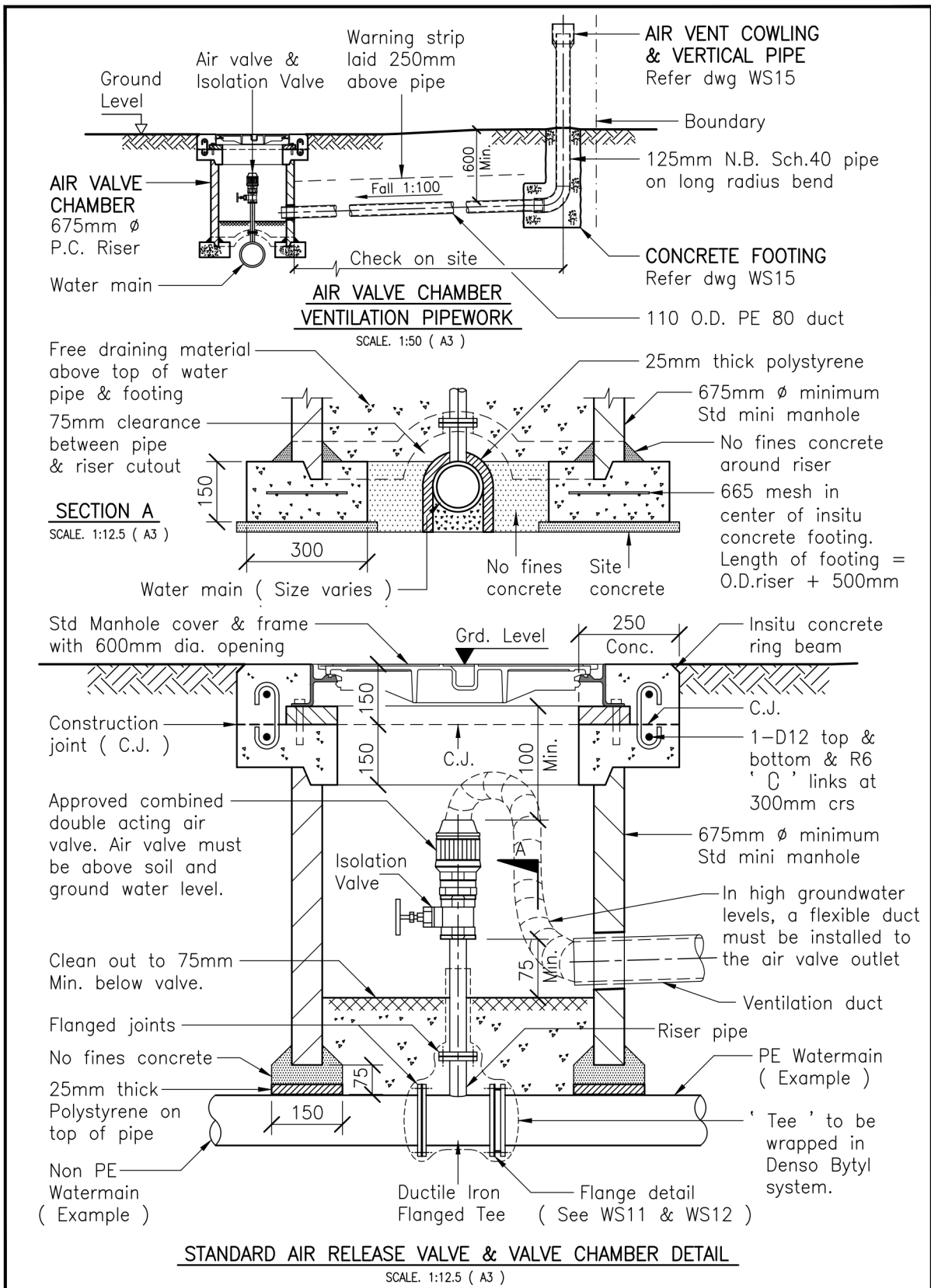
B FOR CONSENT
A FIRST ISSUE

31/01/25

REV DESCRIPTION DRN BY CHK BY APP BY DATE

PLOT DATE 2025-01-31 15:23:43 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE

C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6900.DWG



STANDARD AIR RELEASE VALVE & VALVE CHAMBER DETAIL

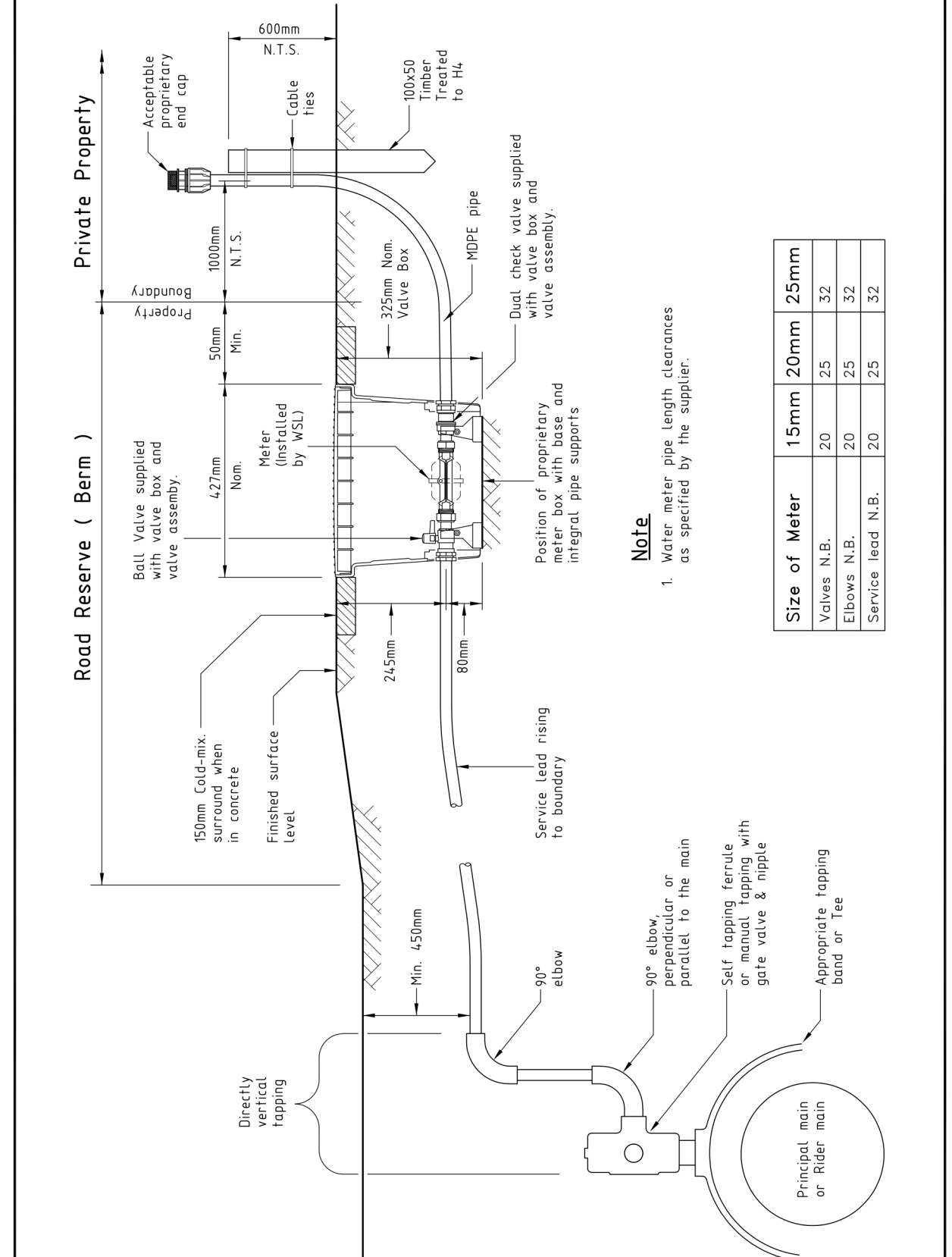
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AIR RELEASE VALVE AND CHAMBER DETAIL

SCALE:	N.T.S.
ISSUE DATE:	13-07-2018
DWG No.	2010069.031C
REFERENCE No.	WS 14



0:\---\EGCADFI\2020\STANDARD DRAWINGS\2010069.012F.DWG



DOMESTIC WATER METER CONNECTION 15mm, 20mm & 25mm DIAMETER

SCALE:	N.T.S.
ISSUE DATE:	10-08-2020
DWG No.	2010069.012F
REFERENCE No.	WS 18

Note

1. Water meter pipe length clearances as specified by the supplier.

Size of Meter	15mm	20mm	25mm
Valves N.B.	20	25	32
Elbows N.B.	20	25	32
Service lead N.B.	20	25	32

CLIENT:

VINEWAY LTD

PROJECT:

DELMORE
53A, 53B & 55 RUSSELL ROAD
OREWA

TITLE:

WATER SUPPLY
STANDARD DETAILS

PURPOSE OF ISSUE:

RESOURCE CONSENT

SCALE:
N.T.S.

DO NOT SCALE

DRAWING NO:

3725-6905

REV:

B

SHEET 6

B FOR CONSENT
A FIRST ISSUE

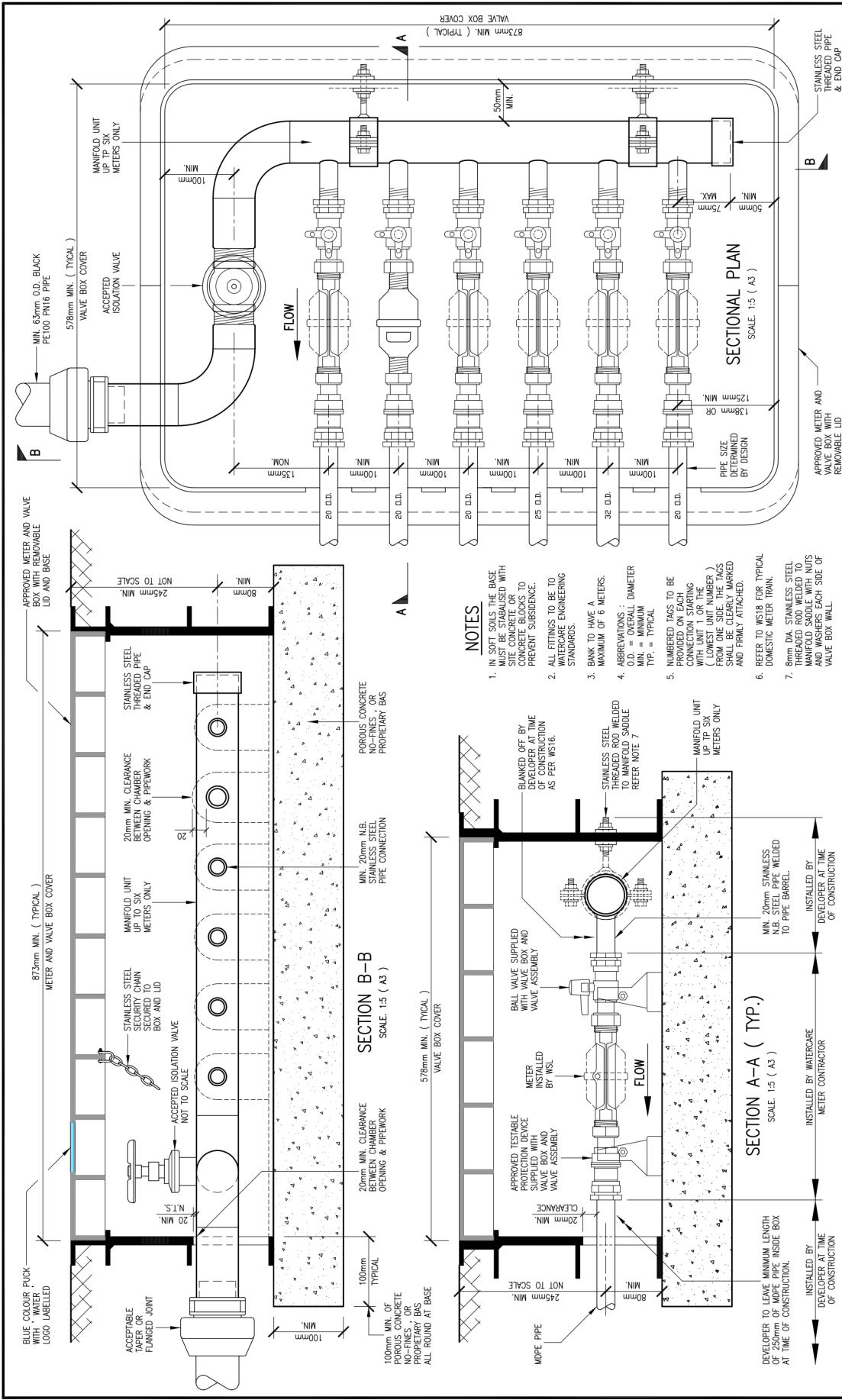
31/01/25

REV DESCRIPTION DRN BY CHK BY APP BY DATE

PLOT DATE 2025-01-31 15:23:44 WWW.MCKENZIEANDCO.CO.NZ THIS DRAWING IS SOLELY FOR USE BY THE CLIENT ON THIS PROJECT ONLY. NO LIABILITY IS ACCEPTED IN ITS USE BY ANY OTHER ENTITY OR FOR ANY OTHER PURPOSE

C:\12DS\DATA\MCKFS01\3725-1 DELMORE STAGE 1_5231\06000. ENGINEERING DESIGN\6500. DRAWINGS\6900.DWG

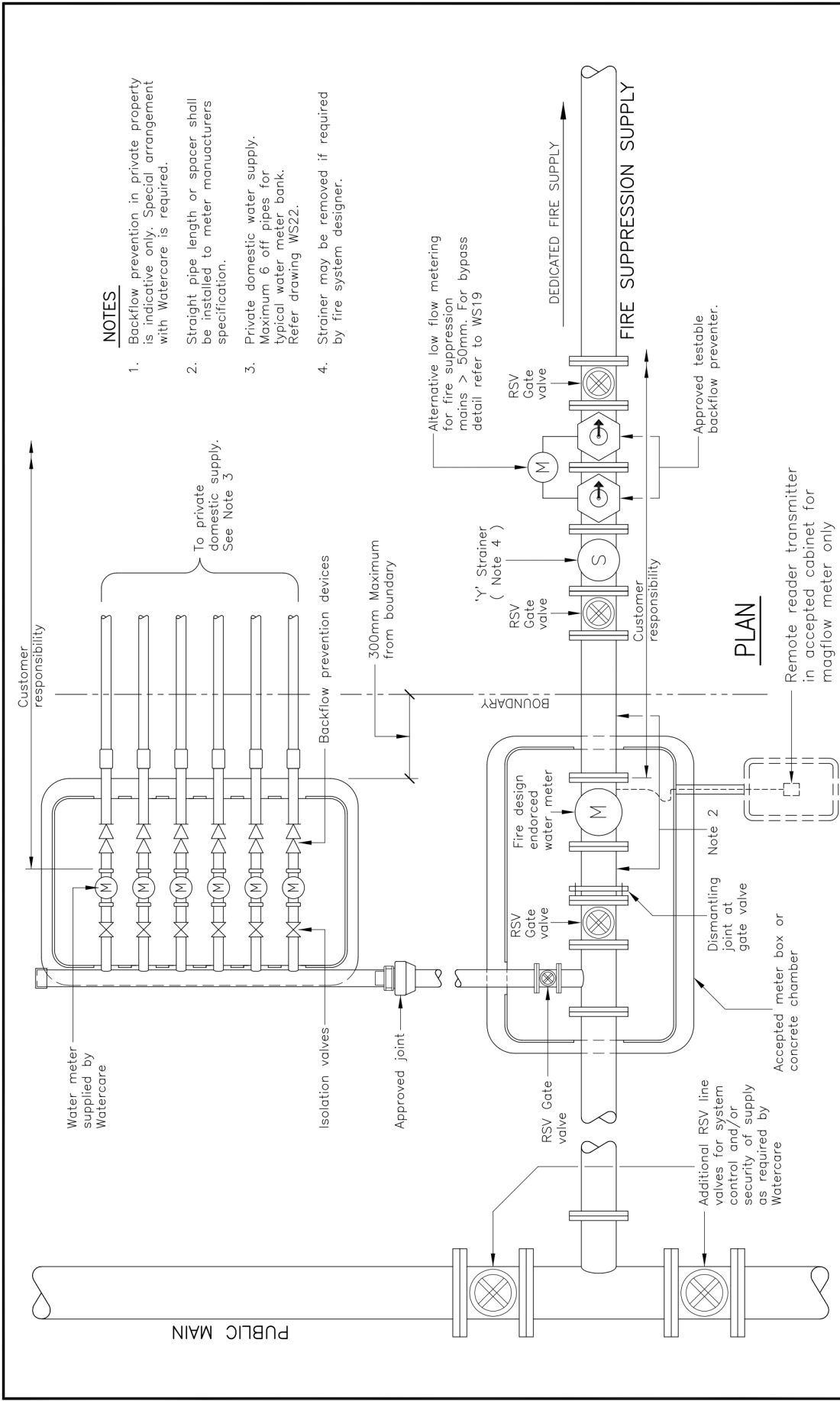
MCKENZIE & CO.



DRAFT

DOMESTIC MANIFOLD METER BANK
LESS THAN 50mmØ

SCALE:	1:5 & N.T.S. (A3)
ISSUE DATE:	10-08-2020
DWG No.	2010069.021D
REFERENCE No.	WS 22



FIRE SUPPRESSION SUPPLY AND
SEPARATE DOMESTIC METER BANK

SCALE:	N.T.S.
ISSUE DATE:	24-09-2020
DWG No.	2010069.044D
REFERENCE No.	WS 23