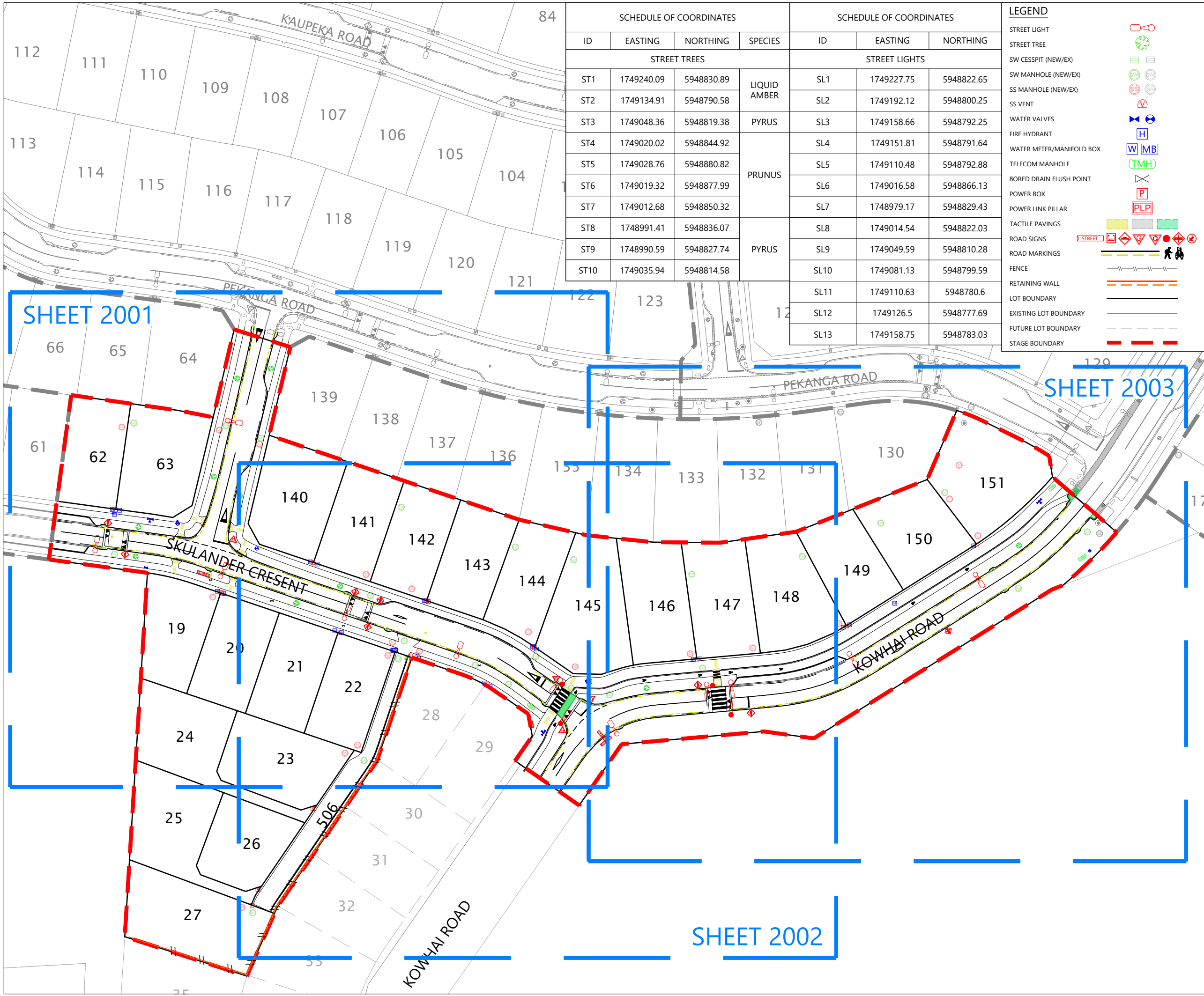




Plot Date: 3:13:00 pm, 17 October 2025, SAMANTHAM



SCHEDULE OF COORDINATES				SCHEDULE OF COORDINATES		
ID	EASTING	NORTHING	SPECIES	ID	EASTING	NORTHING
STREET TREES				STREET LIGHTS		
ST1	1749240.09	5948830.89	LIQUID AMBER	SL1	1749227.75	5948822.65
ST2	1749134.91	5948790.58		SL2	1749192.12	5948800.25
ST3	1749048.36	5948819.38	PYRUS	SL3	1749158.66	5948792.25
ST4	1749020.02	5948844.92	PRUNUS	SL4	1749151.81	5948791.64
ST5	1749028.76	5948880.82		SL5	1749110.48	5948792.88
ST6	1749019.32	5948877.99		SL6	1749016.58	5948866.13
ST7	1749012.68	5948850.32	PYRUS	SL7	1748979.17	5948829.43
ST8	1748991.41	5948836.07		SL8	1749014.54	5948822.03
ST9	1748990.59	5948827.74		SL9	1749049.59	5948810.28
ST10	1749035.94	5948814.58		SL10	1749081.13	5948799.59
				SL11	1749110.63	5948780.6
				SL12	1749126.5	5948777.69
				SL13	1749158.75	5948783.03

LEGEND	
STREET LIGHT	
STREET TREE	
SW CESSPIT (NEW/EX)	
SW MANHOLE (NEW/EX)	
SS MANHOLE (NEW/EX)	
SS VENT	
WATER VALVES	
FIRE HYDRANT	
WATER METER/MANIFOLD BOX	
TELECOM MANHOLE	
BORED DRAIN FLUSH POINT	
POWER BOX	
POWER LINK PILLAR	
TACTILE PAVINGS	
ROAD SIGNS	
ROAD MARKINGS	
FENCE	
RETAINING WALL	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

- NOTES**
- APPROVED EPA NUMBER: ENG60362263
 - COORDINATES ARE IN TERMS OF NZTM AND ORIGIN IS ALP 10 DP 537959 SOURCED FROM LINZ DATABASE.
~ 5948844.96mN 1749267.16mE
 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.

I certify that these As-built Plans are an accurate record of the works undertaken and that:

- The coordinates (X,Y) are in terms of NZTM on NZGD2000
- The Levels (Z) are in terms of Auckland Vertical Datum 1946 (MSL) LINZ datum

Signed:
Licensed Cadastral Surveyor

Date: 17/10/2025

Name: SAM MUIRHEAD

DISCLAIMER:
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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023 WOODS.CO.NZ
DESIGNED	WOODS	
DRAWN	HDD	
CHECKED	FS	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4**

ROADING ASBUILT
SHEET 1 OF 4

STATUS	AS-BUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-2000-AB	

File: C:\12DSYNERGYDATA\WP-PEN-APP-01\P22-437 - P6 STAGE 3 AND 4_21253\CAD\SURV\ABS\AP22-437-04-2000-AB.ROADING.DWG

NOTES

1.

APPROVED EPA NUMBER: ENG60362263
2.

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~ 5948844.96mN 1749267.16mE
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Date:

17/10/2025

Name:

SAM MUIRHEAD

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

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DESIGNED	WOODS	
DRAWN	HDD	
CHECKED	FS	
APPROVED	SM	
		WOODS.CO.NZ

N

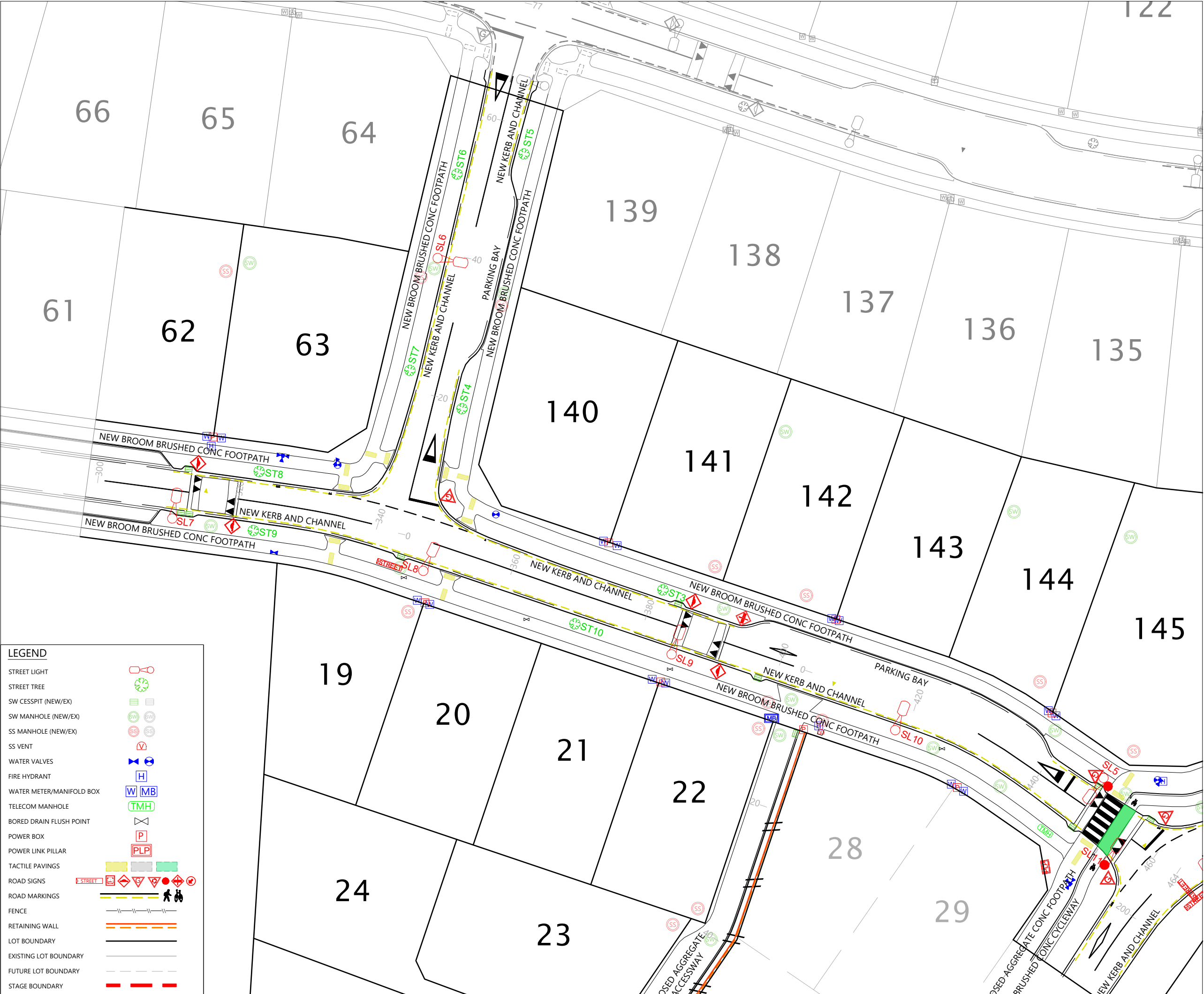
WFH

PROPERTIES

MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4

ROADING ASBUILT
SHEET 2 OF 4

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-2001-AB	



LEGEND

- STREET LIGHT


- STREET TREE


- SW CESSPIT (NEW/EX)


- SW MANHOLE (NEW/EX)


- SS MANHOLE (NEW/EX)


- SS VENT


- WATER VALVES


- FIRE HYDRANT


- WATER METER/MANIFOLD BOX


- TELECOM MANHOLE


- BORED DRAIN FLUSH POINT


- POWER BOX


- POWER LINK PILLAR


- TACTILE PAVINGS


- ROAD SIGNS


- ROAD MARKINGS


- FENCE


- RETAINING WALL


- LOT BOUNDARY


- EXISTING LOT BOUNDARY


- FUTURE LOT BOUNDARY


- STAGE BOUNDARY



NOTES

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Licensed Cadastral Surveyor

Date: 17/10/2025

Name: SAM MUIRHEAD

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HDD	
CHECKED	FS	
APPROVED	SM	
		WOODS.CO.NZ

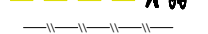


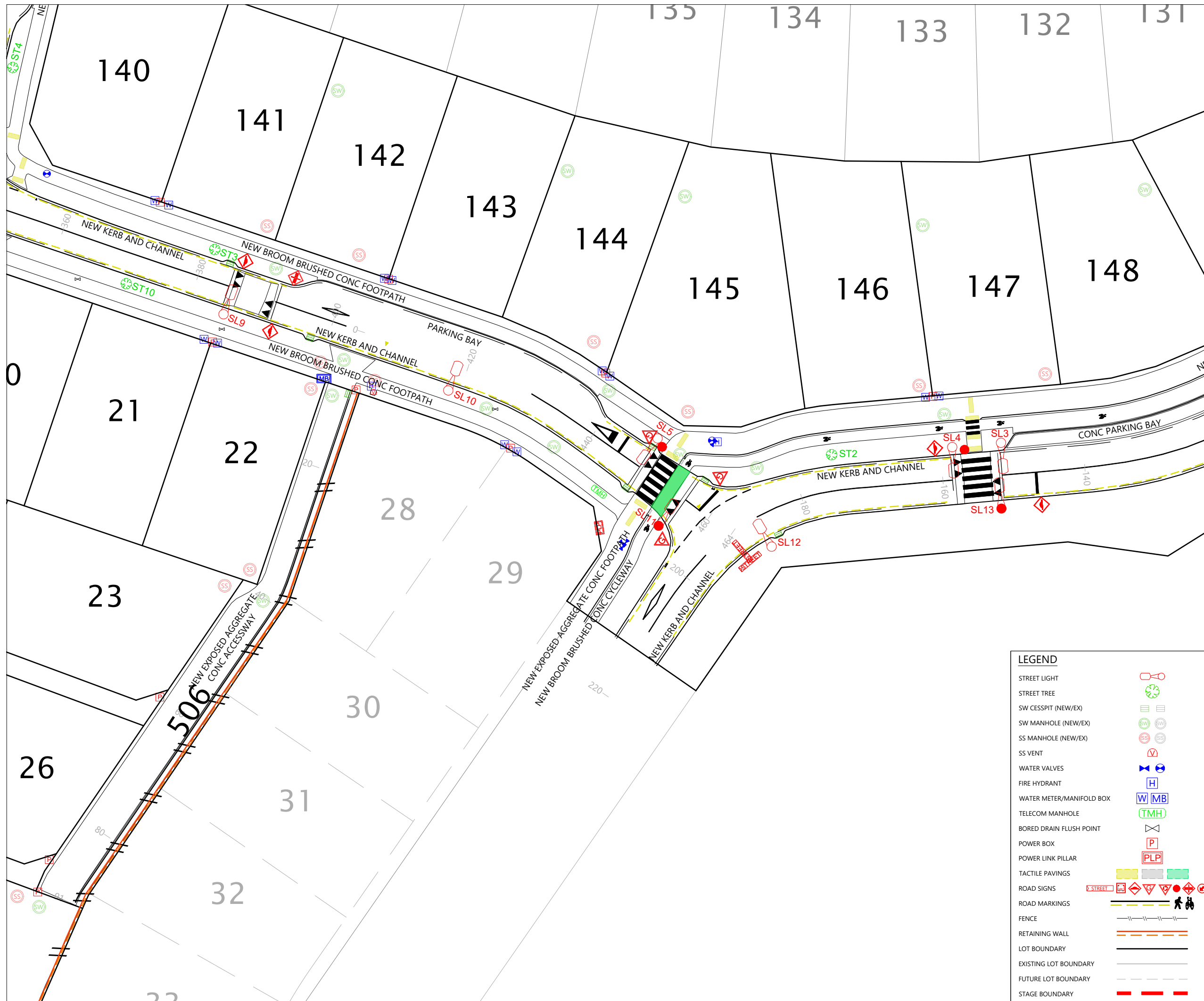
MILLWATER OREWA WEST PRECINCT 6 - STAGE 4

ROADING ASBUILT SHEET 3 OF 4

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-2002-AB	

LEGEND

STREET LIGHT	
STREET TREE	
SW CESSPIT (NEW/EX)	
SW MANHOLE (NEW/EX)	
SS MANHOLE (NEW/EX)	
SS VENT	
WATER VALVES	
FIRE HYDRANT	
WATER METER/MANIFOLD BOX	
TELECOM MANHOLE	
BORED DRAIN FLUSH POINT	
POWER BOX	
POWER LINK PILLAR	
TACTILE PAVINGS	
ROAD SIGNS	
ROAD MARKINGS	
FENCE	
RETAINING WALL	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	





Plot Date: 31:30:1 pm,17 October 2025, SAMANTHAM

NOTES

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Signed: _____
Licensed Cadastral Surveyor

Date: 17/10/2025

Name: SAM MUIRHEAD

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

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DESIGNED	WOODS	
DRAWN	HDD	
CHECKED	FS	
APPROVED	SM	

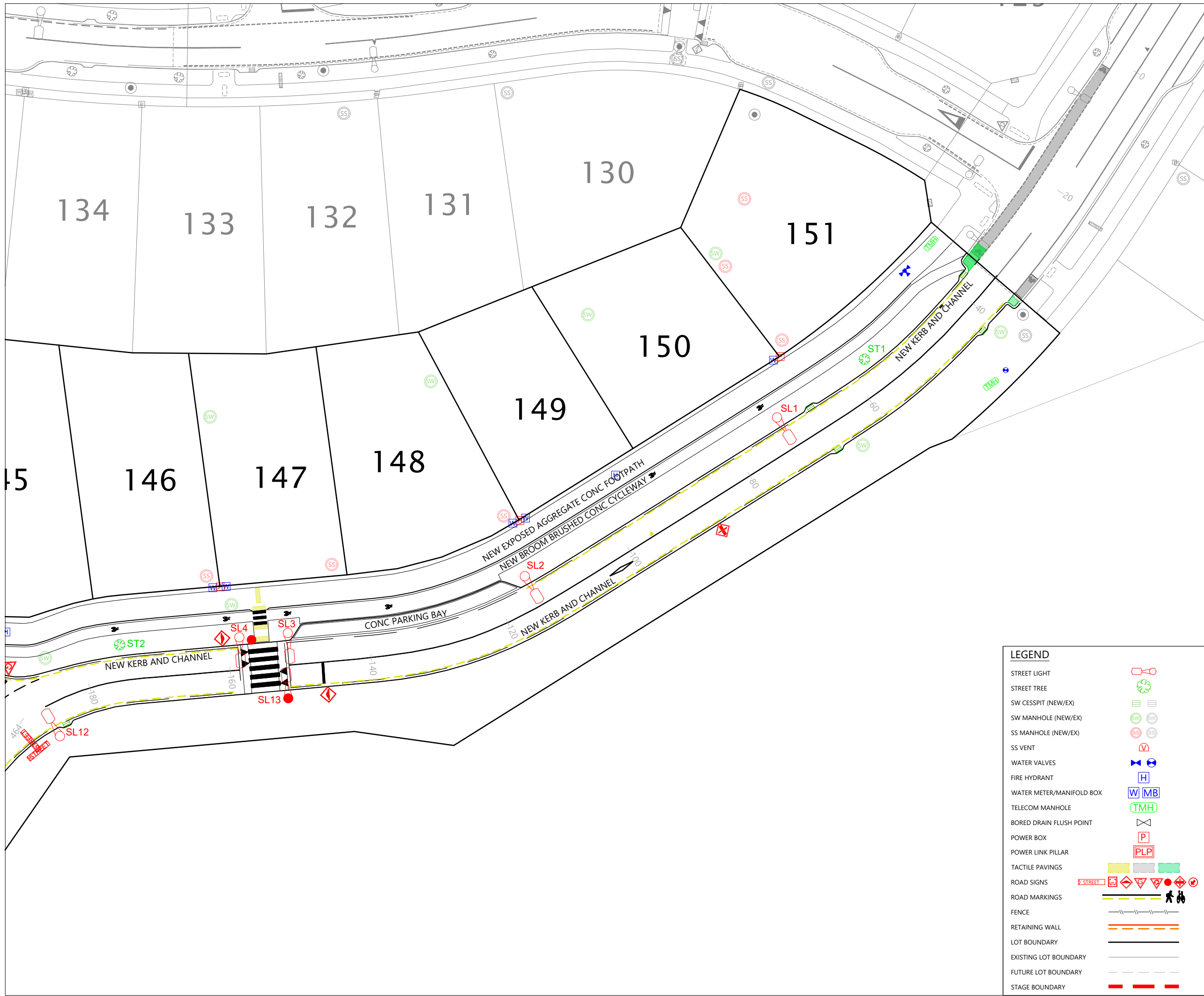


MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4

ROADING ASBUILT
SHEET 4 OF 4

STATUS	AS-BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-2003-AB	

File: C:\125\ENERGY\DATA\WPP-PEN-APP-01\P22-437 - P6 STAGE 3 AND 4_21253\CAD\SURV\ABS\APP22-437-04-2003-AB-ROADING.DWG



SCHEDULE OF COORDINATES		
STORMWATER LOT CONNECTIONS		
ID	EASTING	NORTHING
LOT 19	1749011.35	5948815.66
LOT 20	1749028.31	5948811.90
LOT 21	1749044.95	5948805.94
LOT 22	1749059.35	5948798.44
LOT 23	1749043.78	5948773.51
LOT 24	1749032.02	5948756.82
LOT 25	1749018.79	5948732.81
LOT 26	1749032.58	5948752.68
LOT 27	1749022.78	5948725.79

LOT 62	1748987.63	5948865.46
LOT 63	1749010.81	5948863.75
LOT 140	1749031.16	5948858.42
LOT 141	1749062.86	5948842.66
LOT 142	1749078.31	5948834.58
LOT 143	1749094.51	5948829.37
LOT 144	1749110.4	5948825.22
LOT 145	1749125.69	5948823.53
LOT 146	1749144.39	5948821.41
LOT 147	1749163.26	5948823.35
LOT 148	1749179.09	5948825.79
LOT 149	1749196.6	5948833.06
LOT 150	1749217.84	5948842.52
LOT 151	1749225.51	5948863.79

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 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed: 
Licensed Cadastral Surveyor

Date: 16/10/2025

Name: SAM MUIHREAD

- NOTES**
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~ 5948844.96mN 1749267.16mE
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 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
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 - ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC.
 - LOT CONNECTION LENGTHS ARE 2D LENGTHS CALCULATED FROM CONTRACTOR DATA WHERE THE LOT CONNECTION ENTERS THE MAIN LINE TO ITS TERMINATION COORDINATE WITHIN THE LOT.

LEGEND

NEW STORMWATER MANHOLE 

NEW STORMWATER CESSPIT 

NEW STORMWATER 

EXISTING STORMWATER 

LOT BOUNDARY 

EXISTING LOT BOUNDARY 

FUTURE LOT BOUNDARY 

STAGE BOUNDARY 

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

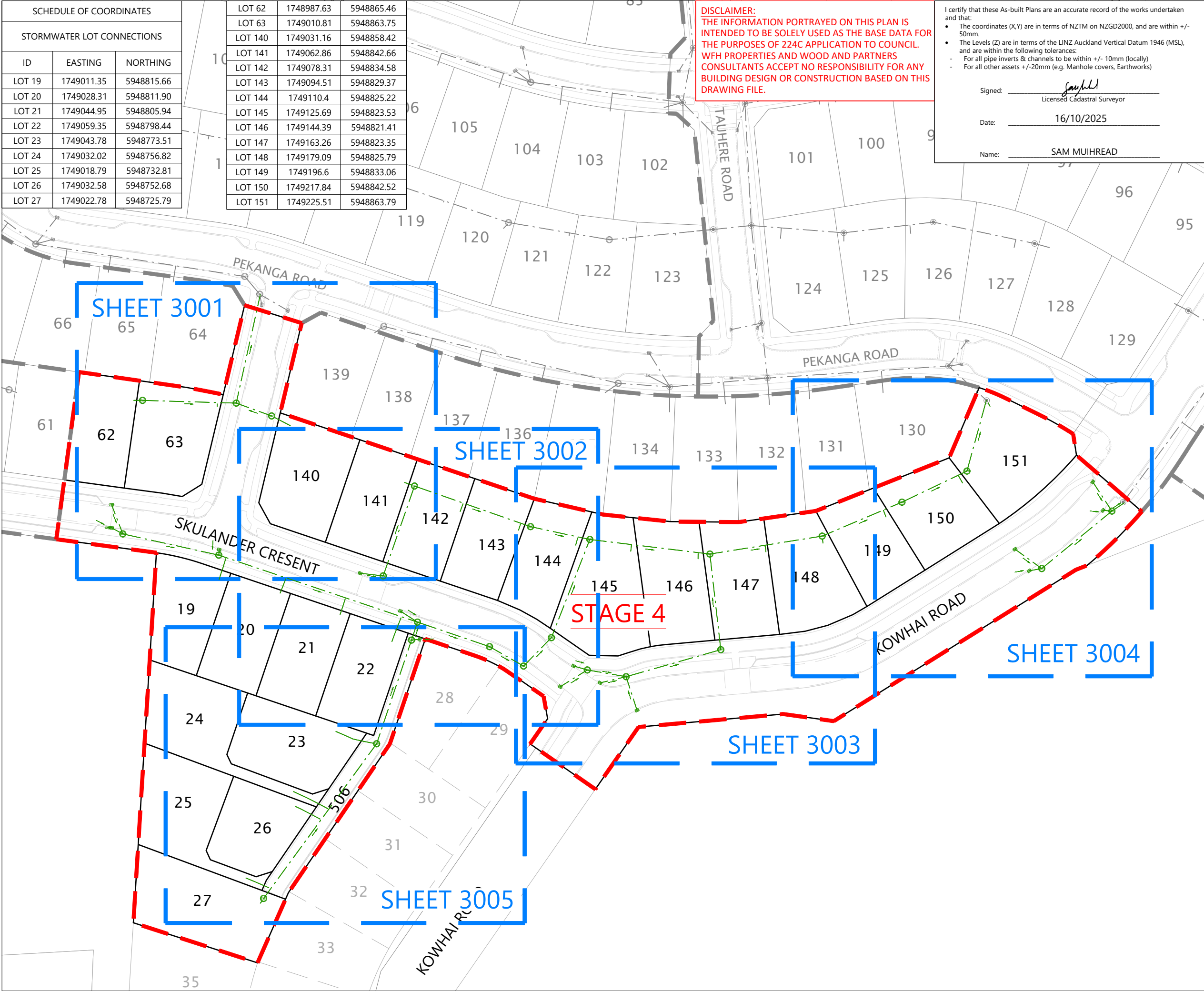
SURVEYED	HD	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	
		WOODS.CO.NZ

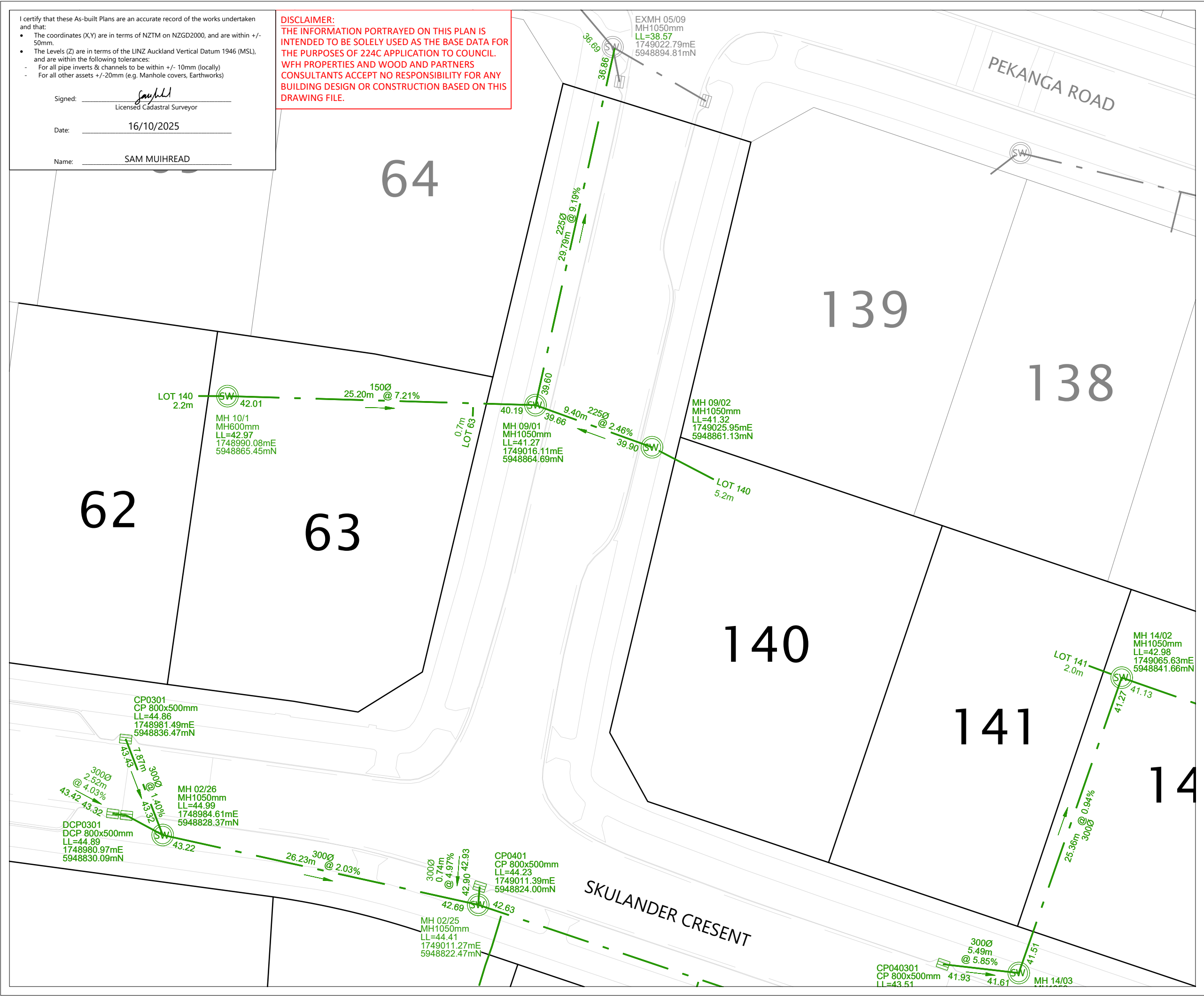


**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4**

**STORMWATER ASBUILT PLAN
SHEET 1 OF 6**

STATUS	ASBUILT	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-3000-AB	





NOTES

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LEGEND

NEW STORMWATER MANHOLE

NEW STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

LOT BOUNDARY

EXISTING LOT BOUNDARY

FUTURE LOT BOUNDARY

STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

SURVEYED	HD	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	
		WOODS.CO.NZ

N

WFH PROPERTIES

MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4

STORMWATER ASBUILT PLAN
SHEET 2 OF 6

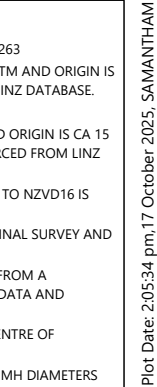
STATUS	ASBUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-3001-AB	

Signed: _____
Licensed Cadastral Surveyor

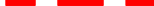
Date: _____
16/10/2025

Name: _____
SAM MUIHREAD

DRAWING FILE.



LEGEND

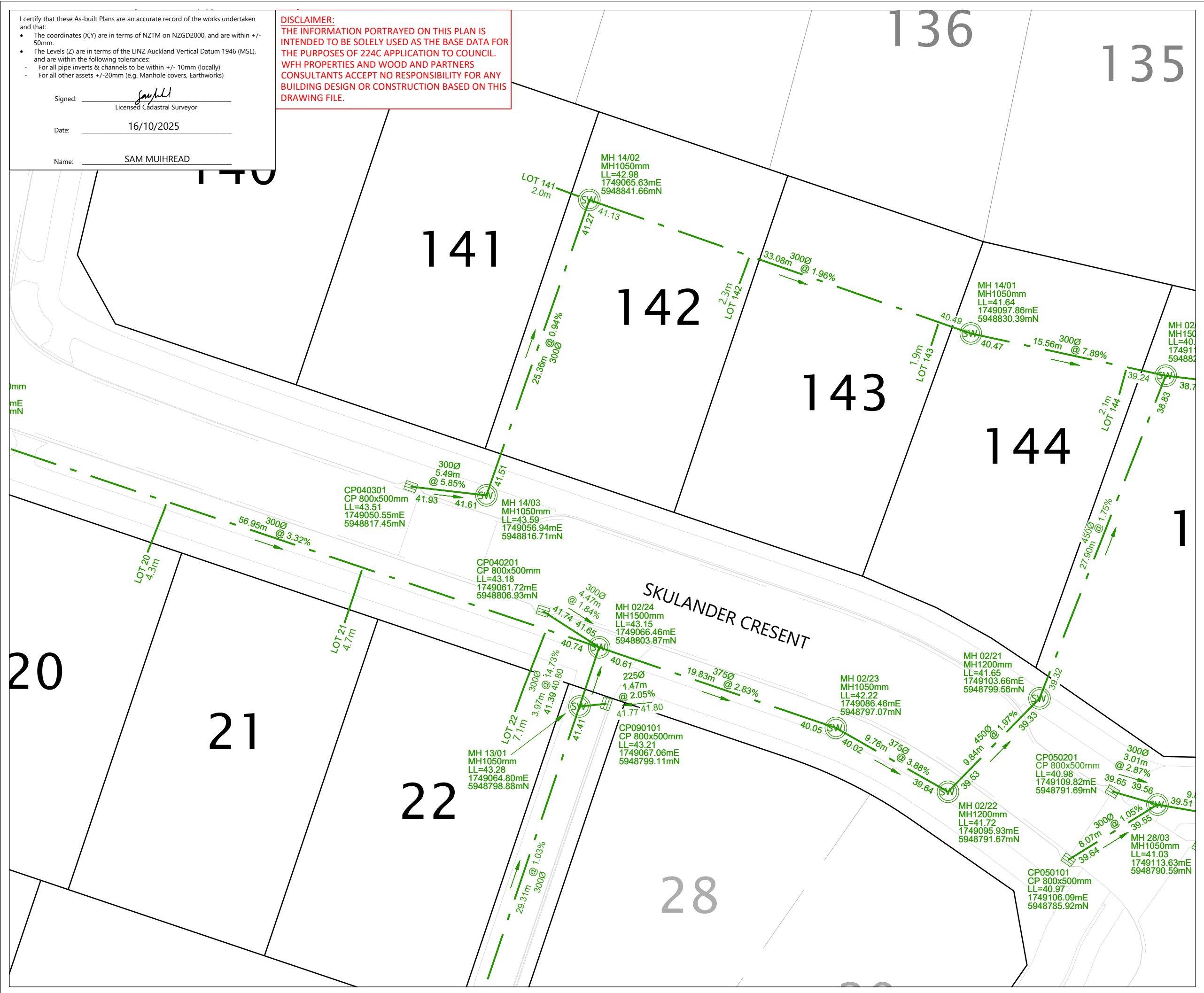
NEW STORMWATER MANHOLE	
NEW STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

SURVEYED	HD	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	

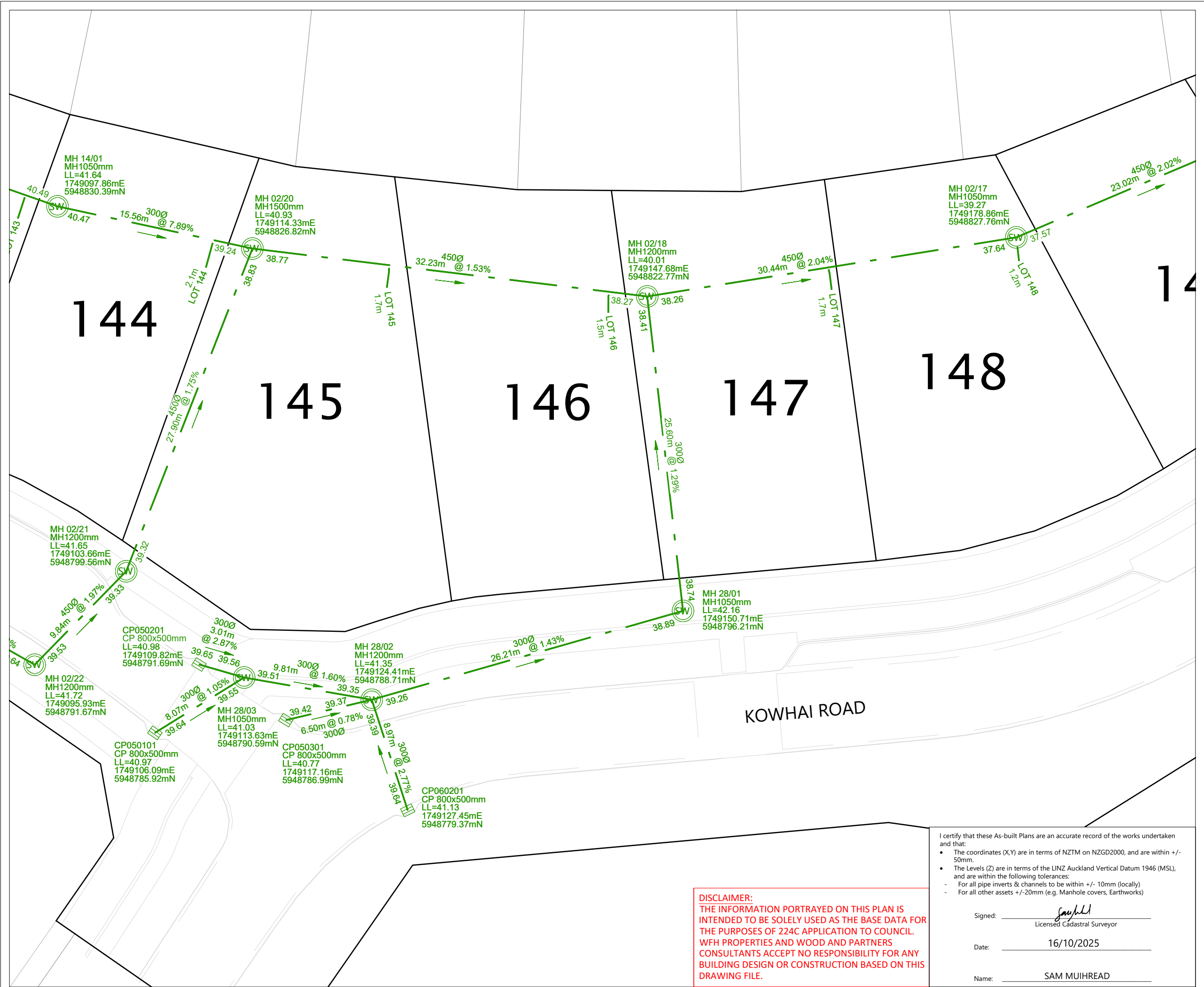
MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4

STORMWATER ASBUILT PLAN
SHEET 3 OF 6

STATUS	ASBUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-3002-AB	



File: C:\12DS\ENERGY\DATA\WP-PEN-APP-01\P22-437 - P6 STAGE 3 AND 4 21253\CAD\SURV\ABSA\P22-437-04-3000-AB STORMWATER.DWG
Plot Date: 2:05:34 pm, 17 October 2025, SAMANTHAM



- NOTES
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LEGEND

NEW STORMWATER MANHOLE

NEW STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

LOT BOUNDARY

EXISTING LOT BOUNDARY

FUTURE LOT BOUNDARY

STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

SURVEYED	HD	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	

MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4

STORMWATER ASBUILT PLAN
SHEET 4 OF 6

STATUS	ASBUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-3003-AB	

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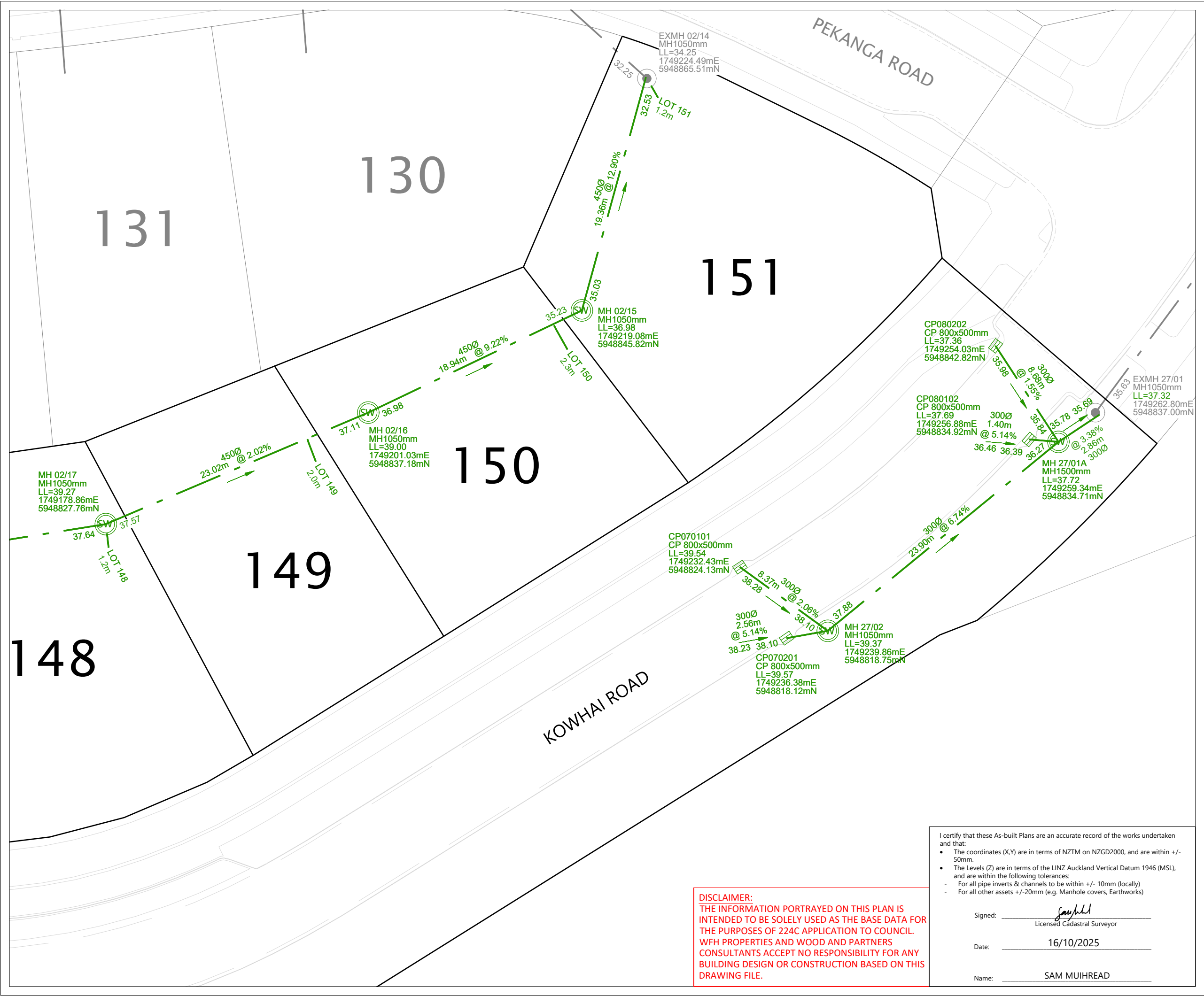
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 - For all other assets +/-20mm (e.g. Manhole covers, Earthworks)

Signed:
Licensed Cadastral Surveyor

Date: 16/10/2025

Name: SAM MUIHREAD



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LEGEND

NEW STORMWATER MANHOLE

NEW STORMWATER CESSPIT

NEW STORMWATER

EXISTING STORMWATER

LOT BOUNDARY

EXISTING LOT BOUNDARY

FUTURE LOT BOUNDARY

STAGE BOUNDARY

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	HD	16/10/25

SURVEYED	HD	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	
		WOODS.CO.NZ

MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4

STORMWATER ASBUILT PLAN
SHEET 5 OF 6

STATUS	ASBUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-3004-AB	

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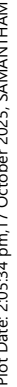
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 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: Licensed Cadastral Surveyor

Date: 16/10/2025

Name: SAM MUIHREAD



1. APPROVED EPA NUMBER: ENG60362263
2. COORDINATES ARE IN TERMS OF NZTM AND ORIGIN IS ALP 10 DP 537959 SOURCED FROM LINZ DATABASE.
~ 5948844.96mN 1749267.16mE
3. LEVELS ARE IN TERMS OF AVD46 AND ORIGIN IS CA 15 (GD CODE B3BQ), RL = 24.82m, SOURCED FROM LINZ DATABASE.
4. CONVERSION FACTOR FROM AVD46 TO NZVD16 IS -0.310m.
5. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.
6. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
7. MANHOLE COORDINATES ARE TO CENTRE OF CONCRETE MANHOLE CHAMBER.
8. ALL PIPES ARE RCRRJ AND PIPE AND MH DIAMETERS ARE INTERNAL AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED.
9. ALL MANHOLES ARE REINFORCED CONCRETE UNLESS OTHERWISE SPECIFIED.
10. ALL PRIVATE LOT CONNECTIONS ARE 100mmØ uPVC.
11. LOT CONNECTION LENGTHS ARE 2D LENGTHS CALCULATED FROM CONTRACTOR DATA WHERE THE LOT CONNECTION ENTERS THE MAIN LINE TO IT'S TERMINATION COORDINATE WITHIN THE LOT.

NEW STORMWATER MANHOLE	
NEW STORMWATER CESSPIT	
NEW STORMWATER	
EXISTING STORMWATER	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

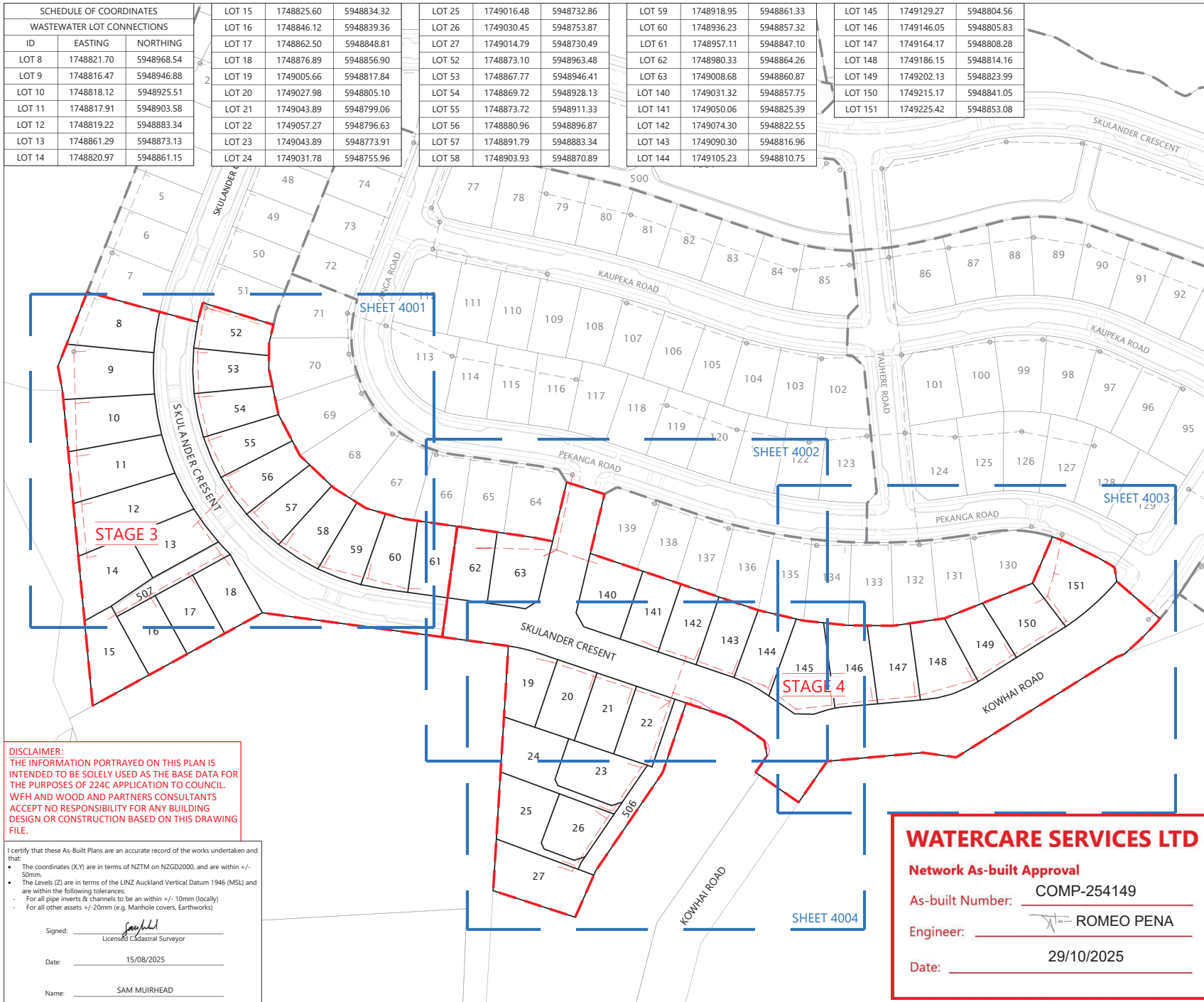
SURVEYED	HD	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	WOODS	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	

MILLWATER OREWA WEST PRECINCT 6 - STAGE 4

STATUS	ASBUILT	REV
SCALE	1:300 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-3005-AB	

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WFH PROPERTIES AND WOOD AND PARTNERS
CONSULTANTS ACCEPT NO RESPONSIBILITY FOR ANY
BUILDING DESIGN OR CONSTRUCTION BASED ON THIS
DRAWING FILE.

Name: SAM MUIHREAD



SCHEDULE OF COORDINATES		
WASTEWATER LOT CONNECTIONS		
ID	EASTING	NORTHING
LOT 8	1748821.70	5948968.54
LOT 9	1748816.47	5948946.88
LOT 10	1748818.12	5948925.51
LOT 11	1748817.91	5948903.58
LOT 12	1748819.22	5948883.34
LOT 13	1748861.29	5948873.13
LOT 14	1748820.97	5948861.15

LOT 15	1748825.60	5948834.32
LOT 16	1748846.12	5948839.36
LOT 17	1748862.50	5948848.81
LOT 18	1748876.89	5948856.90
LOT 19	1749005.66	5948817.84
LOT 20	1749027.98	5948805.10
LOT 21	1749043.89	5948799.06
LOT 22	1749057.27	5948796.63
LOT 23	1749043.89	5948773.91
LOT 24	1749031.78	5948755.96

LOT 25	1749016.48	5948732.86
LOT 26	1749030.45	5948753.87
LOT 27	1749014.79	5948730.49
LOT 52	1748873.10	5948963.48
LOT 53	1748867.77	5948946.41
LOT 54	1748869.72	5948928.13
LOT 55	1748873.72	5948911.33
LOT 56	1748880.96	5948896.87
LOT 57	1748891.79	5948883.34
LOT 58	1748903.93	5948870.89

LOT 59	1748918.95	5948861.33
LOT 60	1748936.23	5948857.32
LOT 61	1748957.11	5948847.10
LOT 62	1748980.33	5948864.26
LOT 63	1749008.68	5948860.87
LOT 140	1749031.32	5948857.75
LOT 141	1749050.06	5948825.39
LOT 142	1749074.30	5948822.55
LOT 143	1749090.30	5948816.96
LOT 144	1749105.23	5948810.75

LOT 145	1749129.27	5948804.56
LOT 146	1749146.05	5948805.83
LOT 147	1749164.17	5948808.28
LOT 148	1749186.15	5948814.16
LOT 149	1749202.13	5948823.99
LOT 150	1749215.17	5948841.05
LOT 151	1749225.42	5948853.08

LEGEND	
NEW SANITARY SEWER MANHOLE	⊕
NEW SANITARY SEWER	---
NEW RISING MAIN	---
NEW OUTLET CARBON FILTER VENT	⬇
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING SANITARY SEWER	---
EXISTING SANITARY SEWER REMOVED	---
LOT BOUNDARIES	---
FUTURE LOT BOUNDARIES	---
STAGE BOUNDARY	---
DROP-PROTECTION STRUCTURE (DPS)	⊕
UPDATED EXISTING LID LEVEL	UDLL

- NOTES**
- APPROVED EPA NUMBER: ENG60362263
 - ORIGIN OF COORDINATES ALP 10 DP 537959 SOURCED FROM LINZ DATABASE - 5948844.96mN 1749267.16mE
 - ORIGIN OF LEVELS IS CA 15 (GD CODE 83BQ), RL = 24.82m, SOURCED FROM LINZ DATABASE
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 - LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL
 - ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA
 - ALL PIPES ARE uPVC 50mm UNLESS OTHERWISE SPECIFIED
 - ALL PRIVATE LOT CONNECTIONS ARE 100mm uPVC 50mm
 - ALL PIPE AND MH DIAMETERS ARE INTERNAL AND SHOWN IN MILLIMETERS UNLESS OTHERWISE SPECIFIED
 - ALL MANHOLES ARE REINFORCED CONCRETE UNLESS OTHERWISE SPECIFIED
 - MANHOLE COORDINATES SHOWN ARE TO CENTRE OF CONCRETE MANHOLE CHAMBER

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	SM	15/08/25

SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	RV	8 NUGENT STREET
DRAWN	HD	GRAFTON
CHECKED	FS	AUCKLAND 1023
APPROVED	SM	WOODS.CO.NZ



MILLWATER OREWA WEST PRECINCT 6 - STAGE 3 AND 4

WASTEWATER ASBUILT PLAN
SHEET 1 OF 5

STATUS	AS BUILT	REV
SCALE	1:1500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-4000-AB	

DISCLAIMER:
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 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed: Licensed Cadastral Surveyor
Date: 15/08/2025
Name: SAM MUIRHEAD

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-254149

Engineer: ROMEO PENA

Date: 29/10/2025



STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-4001-AB	

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-254149

Engineer: ROMEO PENA

Date: 29/10/2025

MH 17-G
MH1050mm
UDLL=38.68
1749020.85mE
5948895.04mN

PEKANGA ROAD

64

139

138

137

136

135

61

62

63

140

141

142

143

144

145

SKULANDER CRESENT

19

20

21

22

24

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Signed: 
Licensed Cadastral Surveyor

Date: 15/08/2025

Name: SAM MUIRHEAD

LEGEND

NEW SANITARY SEWER MANHOLE	
NEW SANITARY SEWER	
NEW RISING MAIN	
NEW OUTLET CARBON FILTER VENT MANHOLE	
EXISTING SANITARY SEWER MANHOLE	
EXISTING SANITARY SEWER	
EXISTING SANITARY SEWER REMOVED	
LOT BOUNDARIES	
FUTURE LOT BOUNDARIES	
STAGE BOUNDARY	
DROP-PROTECTION STRUCTURE (DPS)	
UPDATED EXISTING LID LEVEL	

NOTES

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- MANHOLE COORDINATES SHOWN ARE TO CENTRE OF CONCRETE MANHOLE CHAMBER.

REVISION DETAILS	BY	DATE
1 ISSUED FOR INFORMATION	SM	15/08/25

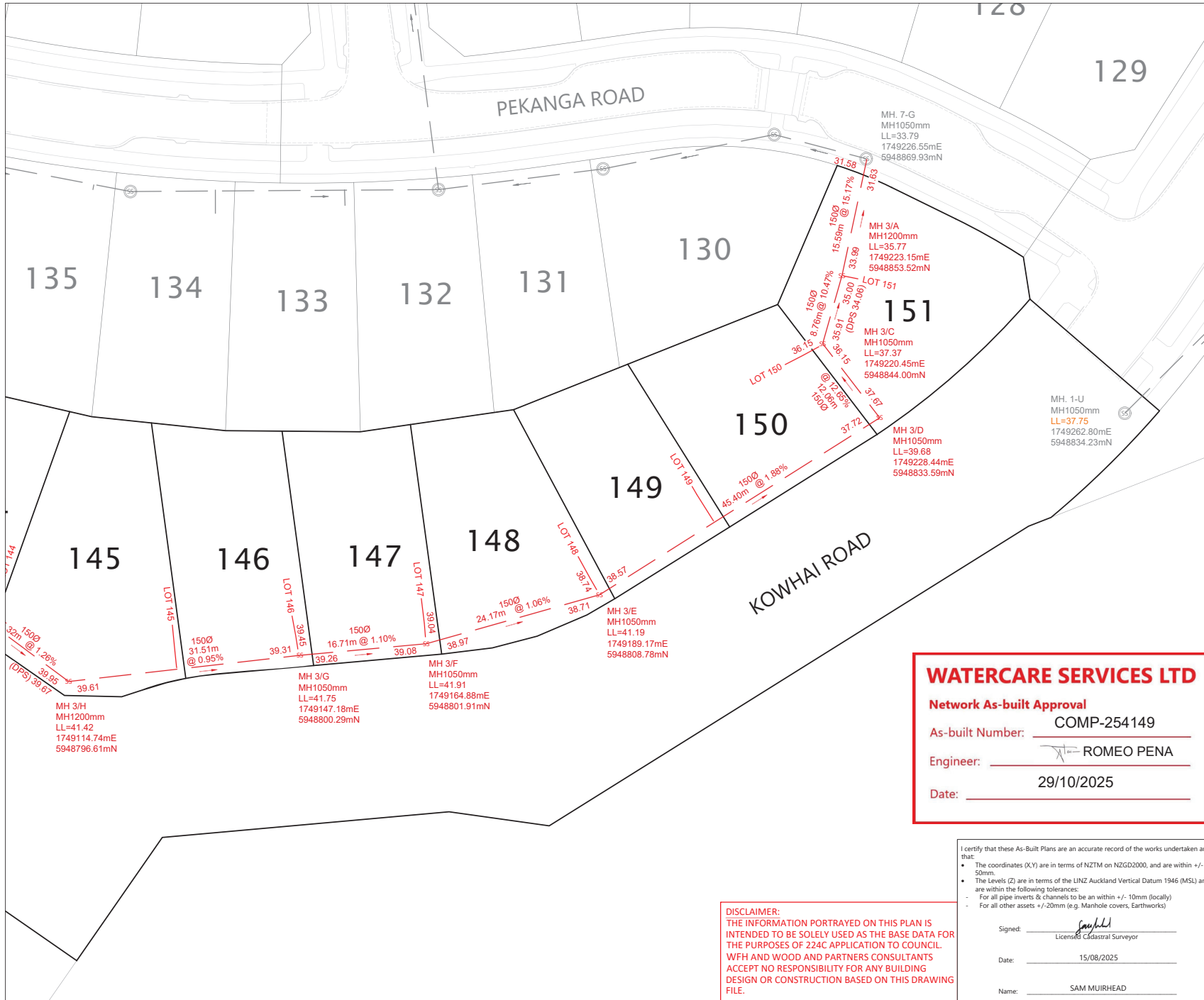
SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	RV	8 NUGENT STREET
DRAWN	HD	GRAFTON
CHECKED	FS	AUCKLAND 1023
APPROVED	SM	WOODS.CO.NZ



MILLWATER OREWA WEST PRECINCT 6 - STAGE 3 AND 4

WASTEWATER ASBUILT PLAN SHEET 3 OF 5

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-4002-AB	



LEGEND	
NEW SANITARY SEWER MANHOLE	⊕
NEW SANITARY SEWER	---
NEW RISING MAIN	---
NEW OUTLET CARBON FILTER VENT	⌵
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING SANITARY SEWER	---
EXISTING SANITARY SEWER REMOVED	---
LOT BOUNDARIES	---
FUTURE LOT BOUNDARIES	---
STAGE BOUNDARY	---
DROP-PROTECTION STRUCTURE (DPS)	(DPS)
UPDATED EXISTING LID LEVEL	UDLL

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	SM	15/08/25

SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	RV	8 NUGENT STREET
DRAWN	HD	GRAFTON
CHECKED	FS	AUCKLAND 1023
APPROVED	SM	WOODS.CO.NZ



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 3
AND 4**

**WASTEWATER ASBUILT PLAN
SHEET 4 OF 5**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-4003-AB	

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-254149**

Engineer: **ROMEO PENA**

Date: **29/10/2025**

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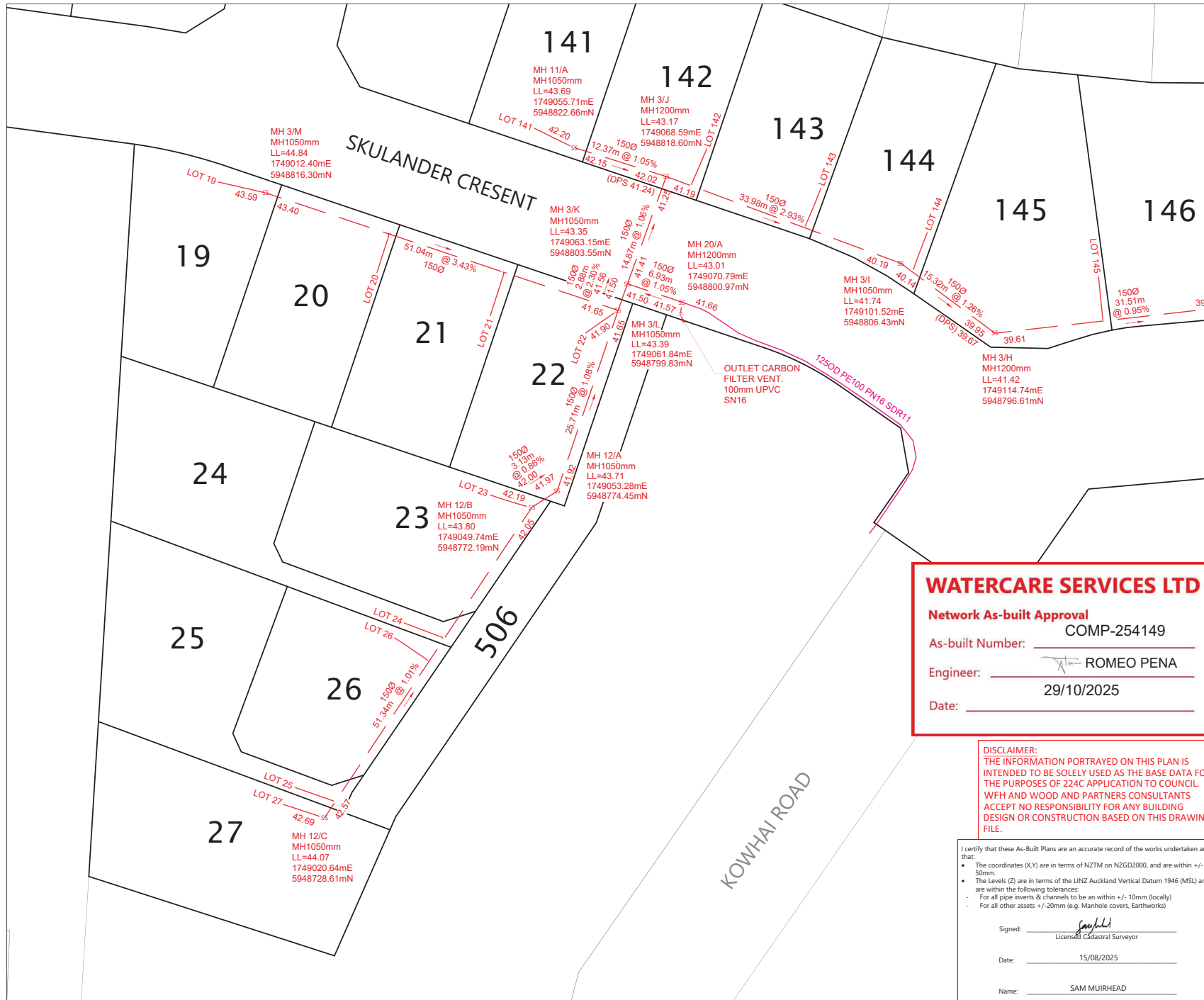
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Signed: Licensee Cadastral Surveyor

Date: 15/08/2025

Name: SAM MUIRHEAD

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LEGEND	
NEW SANITARY SEWER MANHOLE	⊕
NEW SANITARY SEWER	---
NEW RISING MAIN	---
NEW OUTLET CARBON FILTER VENT	⌵
EXISTING SANITARY SEWER MANHOLE	⊕
EXISTING SANITARY SEWER	---
EXISTING SANITARY SEWER REMOVED	---
LOT BOUNDARIES	---
FUTURE LOT BOUNDARIES	---
STAGE BOUNDARY	---
DROP-PROTECTION STRUCTURE (DPS)	(DPS)
UPDATED EXISTING LID LEVEL	UDLL

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WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-254149**

Engineer: **ROMEO PENA**

Date: **29/10/2025**

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Signed: *[Signature]*
License# Cadastral Surveyor

Date: 15/08/2025

Name: SAM MUIRHEAD

REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	SM	15/08/25

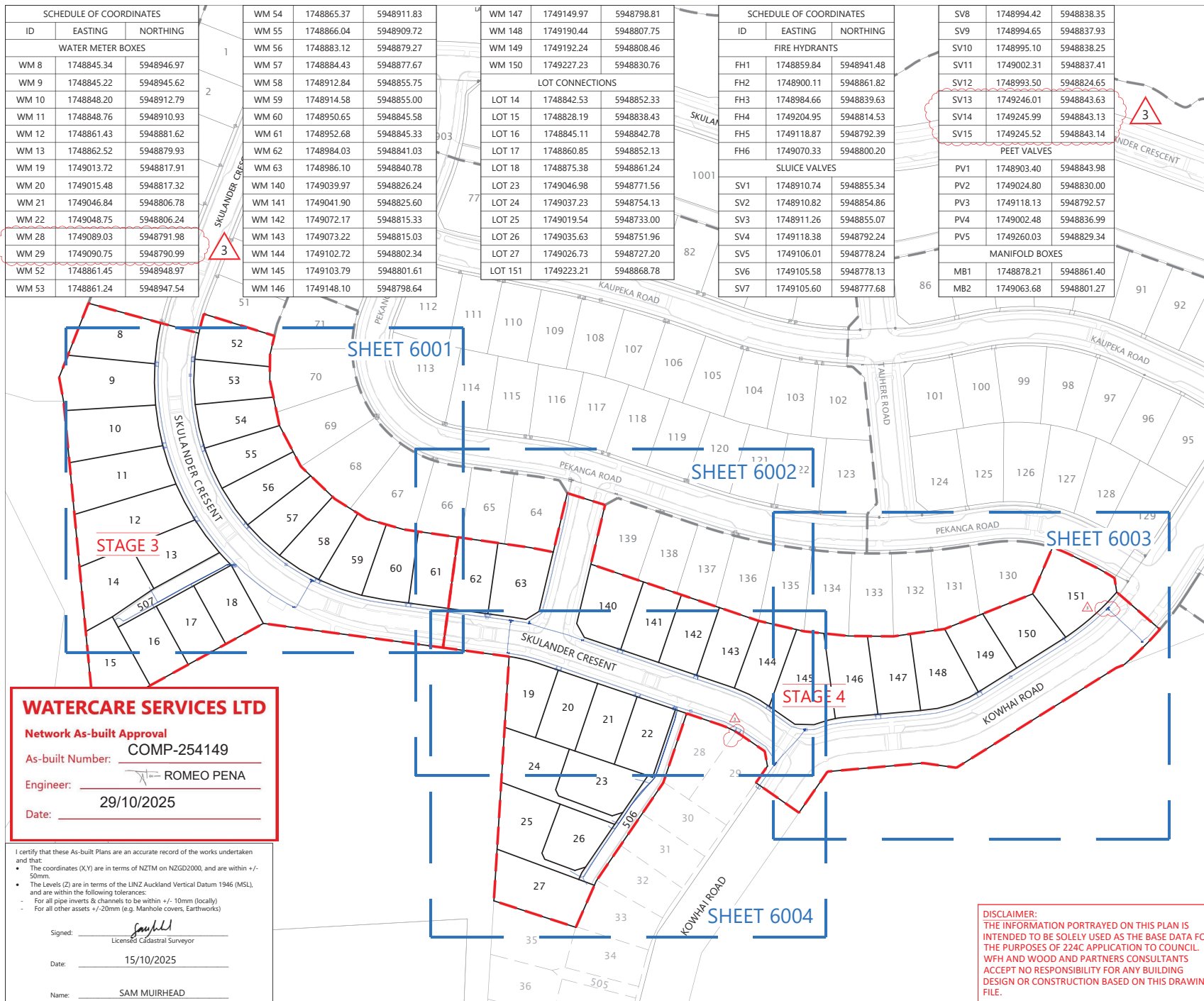
SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	RV	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	WOODS.CO.NZ



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 3
AND 4**

**WASTEWATER ASBUILT PLAN
SHEET 5 OF 5**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-4004-AB	



SCHEDULE OF COORDINATES		
ID	EASTING	NORTHING
WATER METER BOXES		
WM 8	1748845.34	5948946.97
WM 9	1748845.22	5948945.62
WM 10	1748848.20	5948912.79
WM 11	1748848.76	5948910.93
WM 12	1748861.43	5948881.62
WM 13	1748862.52	5948879.93
WM 19	1749013.72	5948817.91
WM 20	1749015.48	5948817.32
WM 21	1749046.84	5948806.78
WM 22	1749048.75	5948806.24
WM 28	1749089.03	5948791.98
WM 29	1749090.75	5948790.99
WM 52	1748861.45	5948948.97
WM 53	1748861.24	5948947.54

WM 54	1748865.37	5948911.83
WM 55	1748866.04	5948909.72
WM 56	1748883.12	5948879.27
WM 57	1748884.83	5948877.67
WM 58	1748912.84	5948855.75
WM 59	1748914.58	5948855.00
WM 60	1748950.65	5948845.58
WM 61	1748952.68	5948845.33
WM 62	1748984.03	5948841.03
WM 63	1748986.10	5948840.78
WM 140	1749039.97	5948826.24
WM 141	1749041.90	5948825.60
WM 142	1749072.17	5948815.33
WM 143	1749073.22	5948815.03
WM 144	1749102.72	5948802.34
WM 145	1749103.79	5948801.61
WM 146	1749148.10	5948798.64

WM 147	1749149.97	5948798.81
WM 148	1749190.44	5948807.75
WM 149	1749192.24	5948808.46
WM 150	1749227.23	5948830.76
LOT CONNECTIONS		
LOT 14	1748842.53	5948852.33
LOT 15	1748828.19	5948838.43
LOT 16	1748845.11	5948842.78
LOT 17	1748860.85	5948852.13
LOT 18	1748875.38	5948861.24
LOT 23	1749046.98	5948771.56
LOT 24	1749037.23	5948754.13
LOT 25	1749019.54	5948733.00
LOT 26	1749035.63	5948751.96
LOT 27	1749026.73	5948727.20
LOT 151	1749223.21	5948868.78

SCHEDULE OF COORDINATES		
ID	EASTING	NORTHING
FIRE HYDRANTS		
FH1	1748859.84	5948941.48
FH2	1748900.11	5948861.82
FH3	1748984.66	5948839.63
FH4	1749204.95	5948814.53
FH5	1749118.87	5948792.39
FH6	1749070.33	5948800.20
SLUICE VALVES		
SV1	1748910.74	5948855.34
SV2	1748910.82	5948854.86
SV3	1748911.26	5948855.07
SV4	1749118.38	5948792.24
SV5	1749106.01	5948778.24
SV6	1749105.58	5948778.13
SV7	1749105.60	5948777.68

SV8	1748994.42	5948838.35
SV9	1748994.65	5948837.93
SV10	1748995.10	5948838.25
SV11	1749002.31	5948837.41
SV12	1748993.50	5948824.65
SV13	1749246.01	5948843.63
SV14	1749245.99	5948843.13
SV15	1749245.52	5948843.14
PEET VALVES		
PV1	1748903.40	5948843.98
PV2	1749024.80	5948830.00
PV3	1749118.13	5948792.57
PV4	1749002.48	5948836.99
PV5	1749260.03	5948829.34
MANIFOLD BOXES		
MB1	1748878.21	5948861.40
MB2	1749063.68	5948801.27

- NOTES**
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 2. COORDINATES ARE IN TERMS OF NZTM AND ORIGIN IS ALP 10 DP 537959 SOURCED FROM LINZ DATABASE.
 3. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.
 4. ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
 5. PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
 6. ALL PRIVATE LOT CONNECTIONS ARE 25mm OD PE80 PN12.5 SDR11.

LEGEND	
NEW WATERMAIN	
EXISTING WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
WATER METER BOX	
WATER MANIFOLD BOX	
BLANK END CAP	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

REVISION DETAILS		BY	DATE
1	DRAFT FOR INFORMATION	HD	06/06/25
2	ISSUED FOR INFORMATION	SM	15/08/25
3	SVs AND WMs SURVEYED	SM	15/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023
DESIGNED	RV	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	WOODS.CO.NZ



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 3
AND 4**

**WATERMAIN ASBUILT
SHEET 1 OF 5**

STATUS	AS BUILT	REV
SCALE	1:1500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-6000-AB	

WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-254149**

Engineer: **ROMEO PENA**

Date: **29/10/2025**

I certify that these As-built Plans are an accurate record of the works undertaken and that:

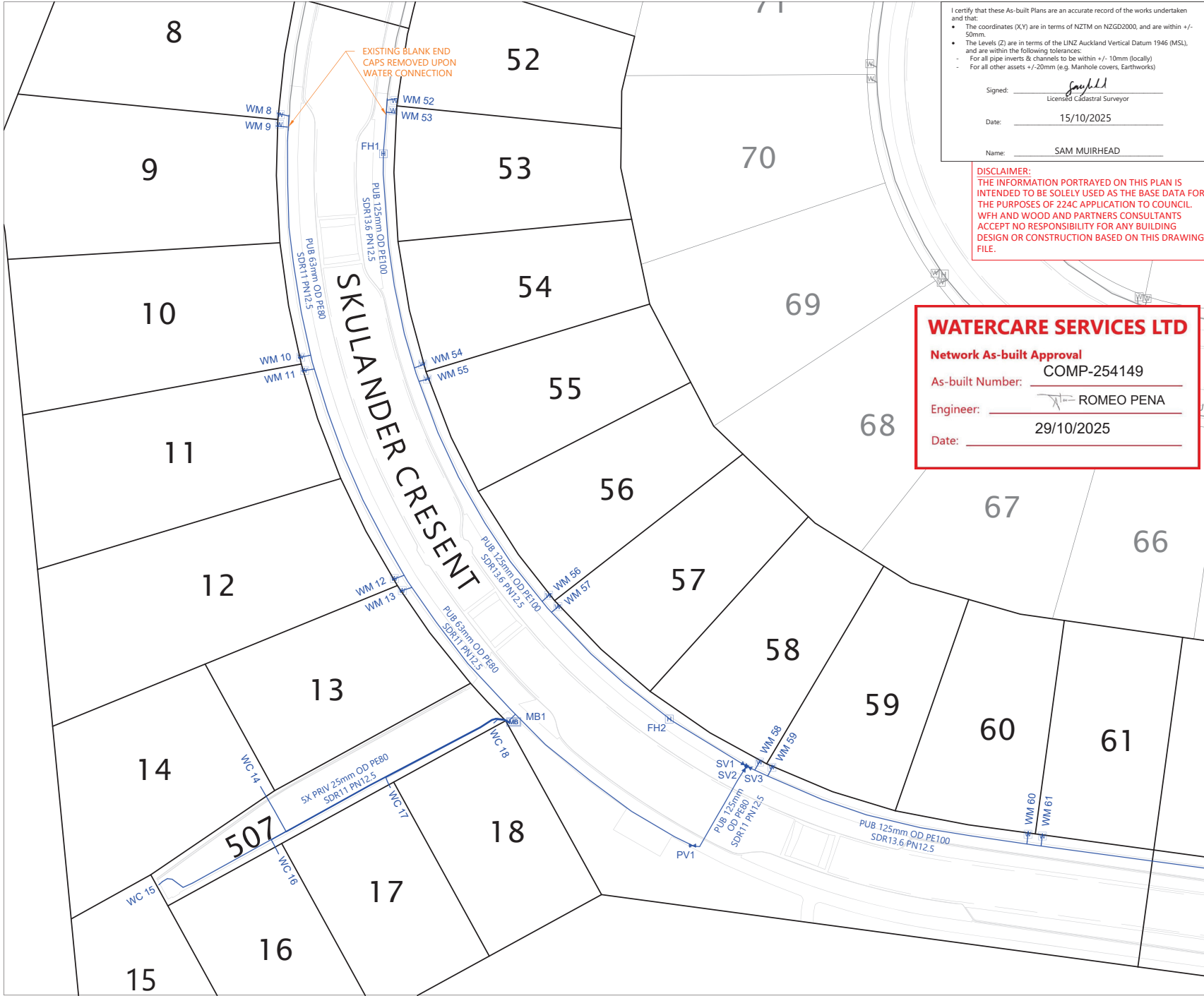
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- The Levels (Z) are in terms of the LINZ Auckland Vertical Datum 1946 (MSL), and are within the following tolerances:
 - For all pipe inverts & channels to be within +/- 10mm (locally)
 - For all other assets +/- 20mm (e.g. Manhole covers, Earthworks)

Signed:

Date: **15/10/2025**

Name: **SAM MUIRHEAD**

DISCLAIMER:
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Signed: 
Licensed Cadastral Surveyor

Date: 15/10/2025

Name: SAM MUIRHEAD

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WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: COMP-254149

Engineer:  ROMEO PENA

Date: 29/10/2025

NOTES

- APPROVED EPA NUMBER: ENG60362363
- COORDINATES ARE IN TERMS OF NZTM AND ORIGIN IS ALP 10 DP 537959 SOURCED FROM LINZ DATABASE.
 - 5948844.96mN 1749267.16mE
- LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.
- ASBUILT DATA HAS BEEN SOURCED FROM A COMBINATION OF WOODS SURVEY DATA AND CONTRACTOR RECEIVED DATA.
- PIPE SIZES SHOWN ARE EXTERNAL DIAMETER.
- ALL PRIVATE LOT CONNECTIONS ARE 25mm OD PE80 PN12.5 SDR11.

LEGEND

NEW WATERMAIN	
EXISTING WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
WATER METER BOX	
WATER MANIFOLD BOX	
BLANK END CAP	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

REVISION DETAILS	BY	DATE
1 DRAFT FOR INFORMATION	HD	06/06/25
2 ISSUED FOR INFORMATION	SM	15/08/25
3 SVs and WMs SURVEYED	SM	15/10/25

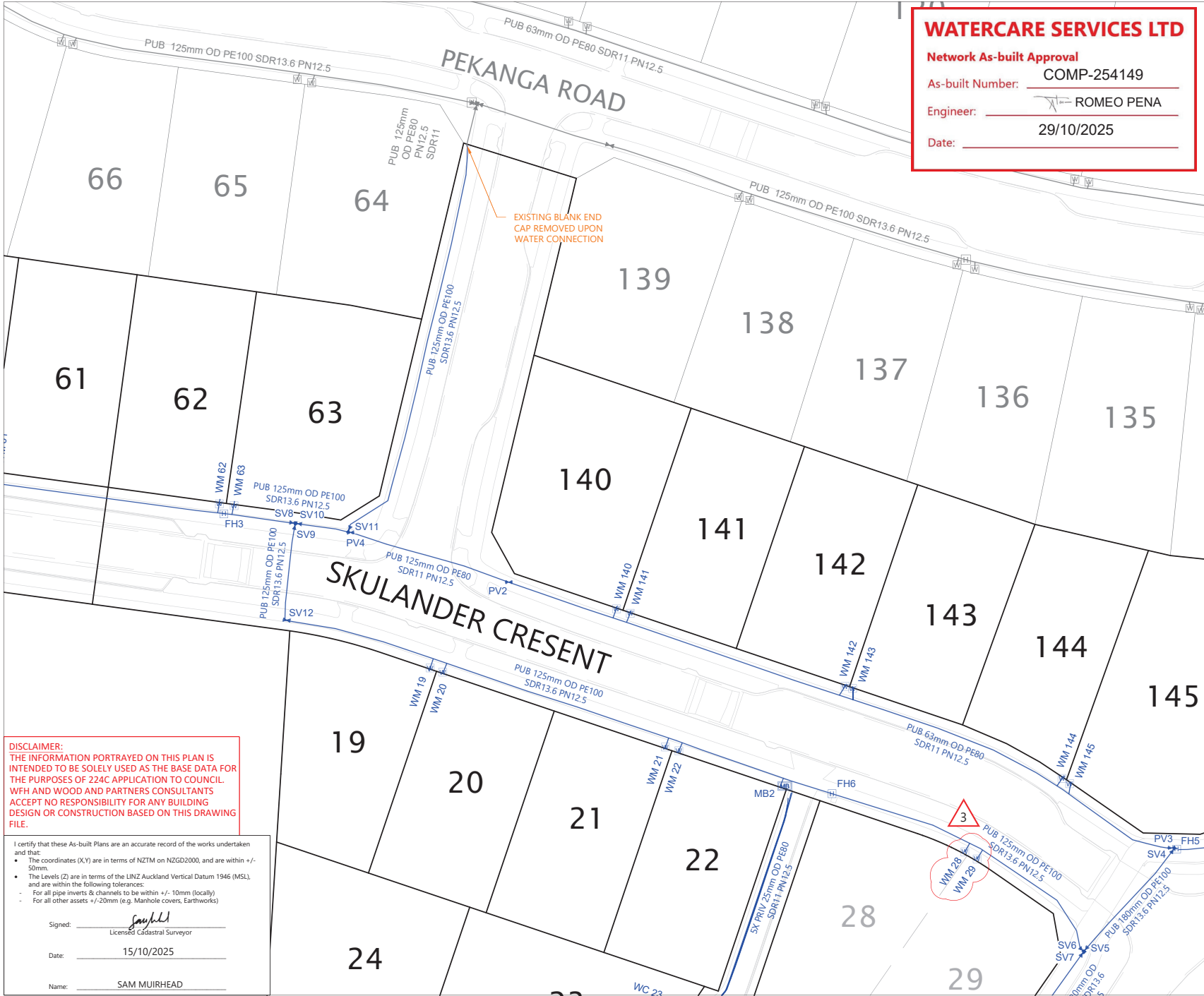
SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	RV	8 NUGENT STREET
DRAWN	HD	GRAFTON
CHECKED	FS	AUCKLAND 1023
APPROVED	SM	WOODS.CO.NZ



MILLWATER OREWA WEST PRECINCT 6 - STAGE 3 AND 4

WATERMAIN ASBUILT SHEET 2 OF 5

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-6001-AB	



WATERCARE SERVICES LTD
Network As-built Approval
As-built Number: COMP-254149
Engineer: ROMEO PENA
Date: 29/10/2025



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LEGEND

NEW WATERMAIN	
EXISTING WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
WATER METER BOX	
WATER MANIFOLD BOX	
BLANK END CAP	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

REVISION DETAILS		BY	DATE
1	DRAFT FOR INFORMATION	HD	06/06/25
2	ISSUED FOR INFORMATION	SM	15/08/25
3	SVs AND WMs SURVEYED	SM	15/10/25

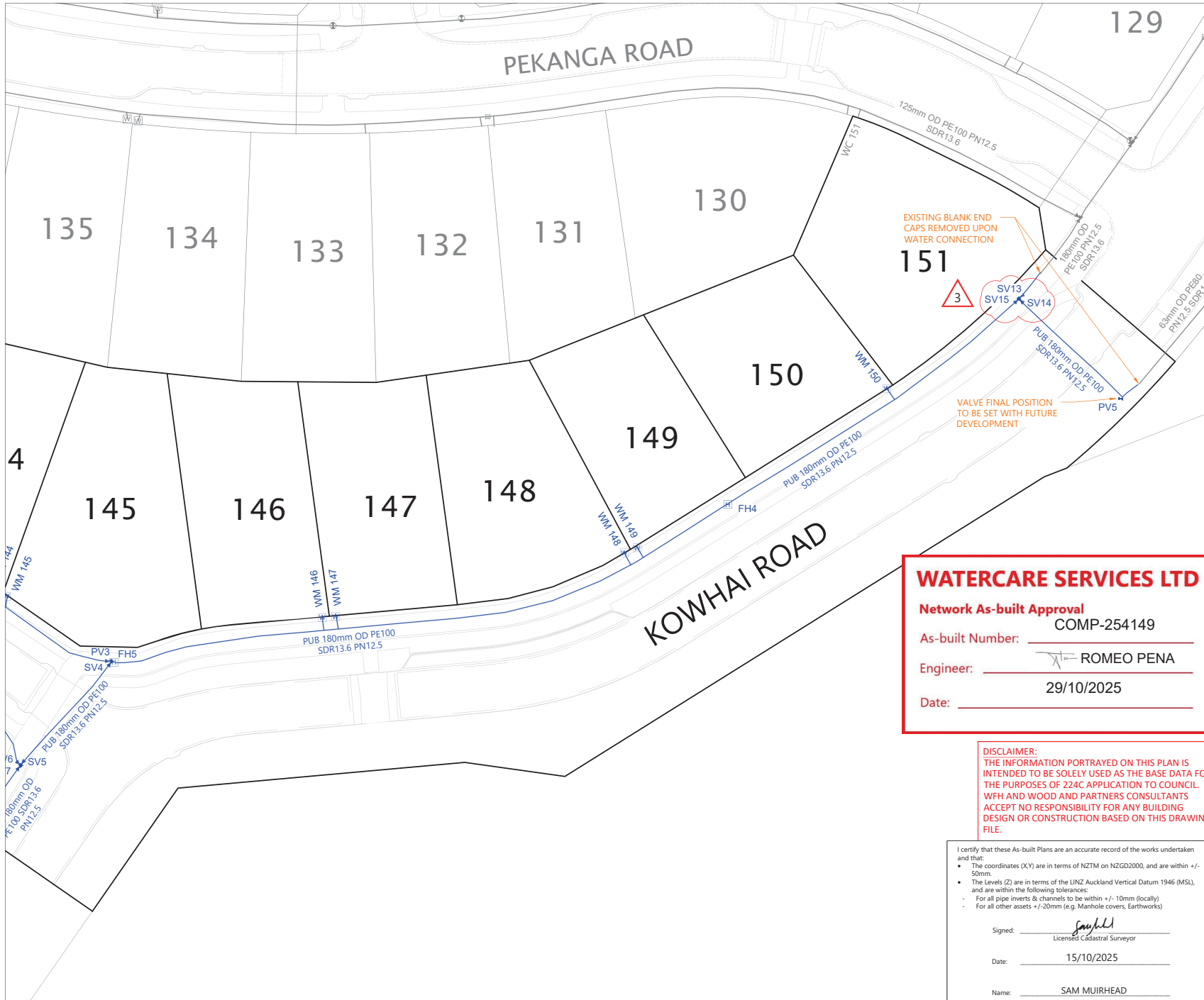
SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023 WOODS.CO.NZ
DESIGNED	RV	
DRAWN	HD	
CHECKED	FS	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 3
AND 4**

**WATERMAIN ASBUILT
SHEET 3 OF 5**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-6002-AB	



NOTES

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6. ALL PRIVATE LOT CONNECTIONS ARE 25mm OD PE80 PN12.5 SDR11.

LEGEND

NEW WATERMAIN	
EXISTING WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
WATER METER BOX	
WATER MANIFOLD BOX	
BLANK END CAP	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

REVISION DETAILS		BY	DATE
1	DRAFT FOR INFORMATION	HD	06/06/25
2	ISSUED FOR INFORMATION	SM	15/08/25
3	SVs AND WMs SURVEYED	SM	15/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	RV	8 NUGENT STREET
DRAWN	HD	GRAFTON
CHECKED	FS	AUCKLAND 1023
APPROVED	SM	WOODS.CO.NZ

WATERCARE SERVICES LTD

Network As-built Approval

COMP-254149

As-built Number: _____

Engineer: ROMEO PENA

29/10/2025

Date: _____

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Signed: _____
Licensed Cadastral Surveyor

Date: 15/10/2025

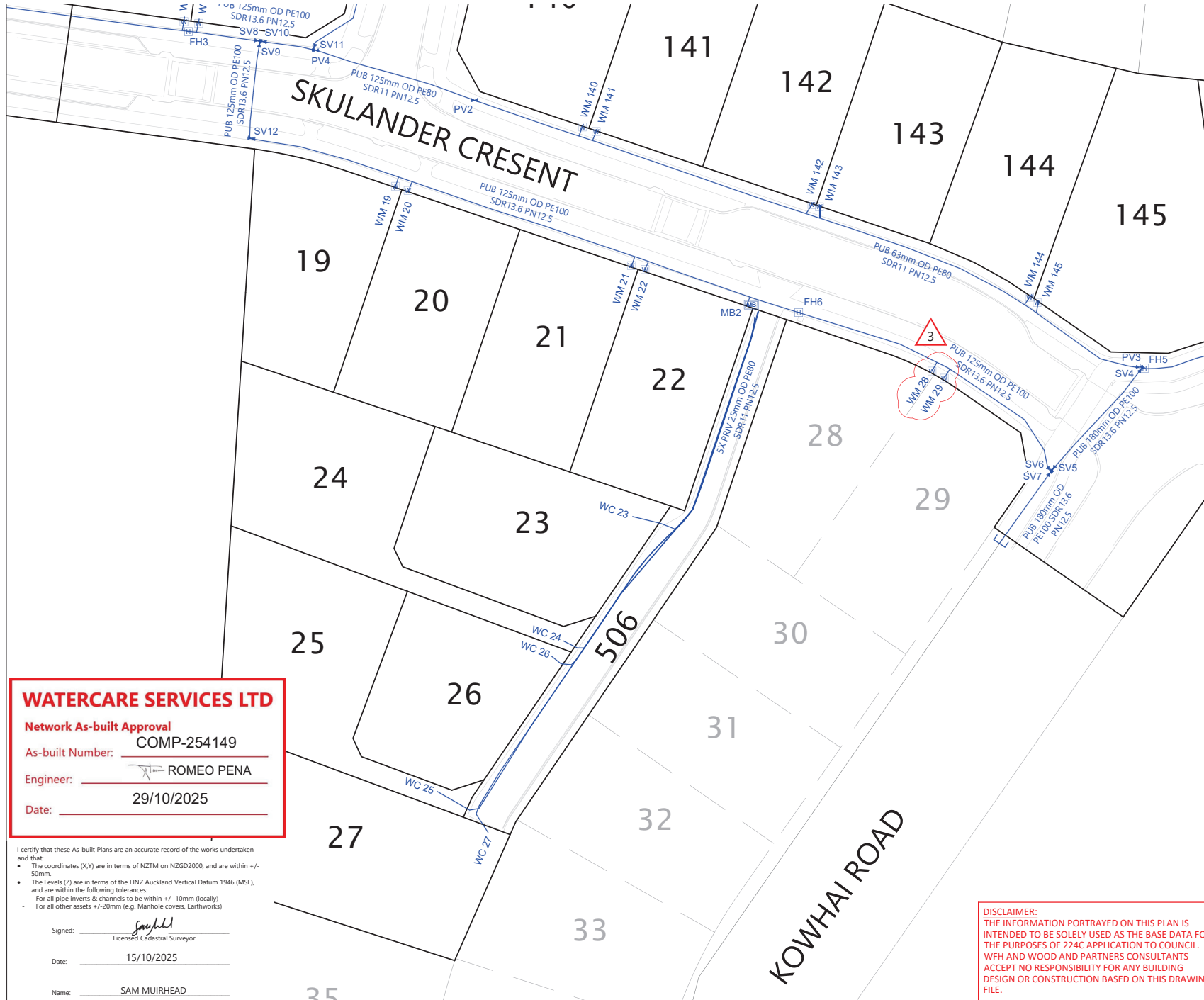
Name: SAM MUIRHEAD



MILLWATER OREWA WEST PRECINCT 6 - STAGE 3 AND 4

WATERMAIN ASBUILT SHEET 4 OF 5

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-6003-AB	



WATERCARE SERVICES LTD

Network As-built Approval

As-built Number: **COMP-254149**

Engineer: **ROMEO PENA**

Date: **29/10/2025**

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Licensed Cadastral Surveyor

Date: **15/10/2025**

Name: **SAM MUIRHEAD**

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LEGEND

NEW WATERMAIN	
EXISTING WATERMAIN	
SLUICE VALVE	
PEET VALVE	
FIRE HYDRANT	
WATER METER BOX	
WATER MANIFOLD BOX	
BLANK END CAP	
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

REVISION DETAILS	BY	DATE
1 DRAFT FOR INFORMATION	HD	06/06/25
2 ISSUED FOR INFORMATION	SM	15/08/25
3 SVs AND WMs SURVEYED	SM	15/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1
DESIGNED	RV	8 NUGENT STREET
DRAWN	HD	GRAFTON
CHECKED	FS	AUCKLAND 1023
APPROVED	SM	WOODS.CO.NZ



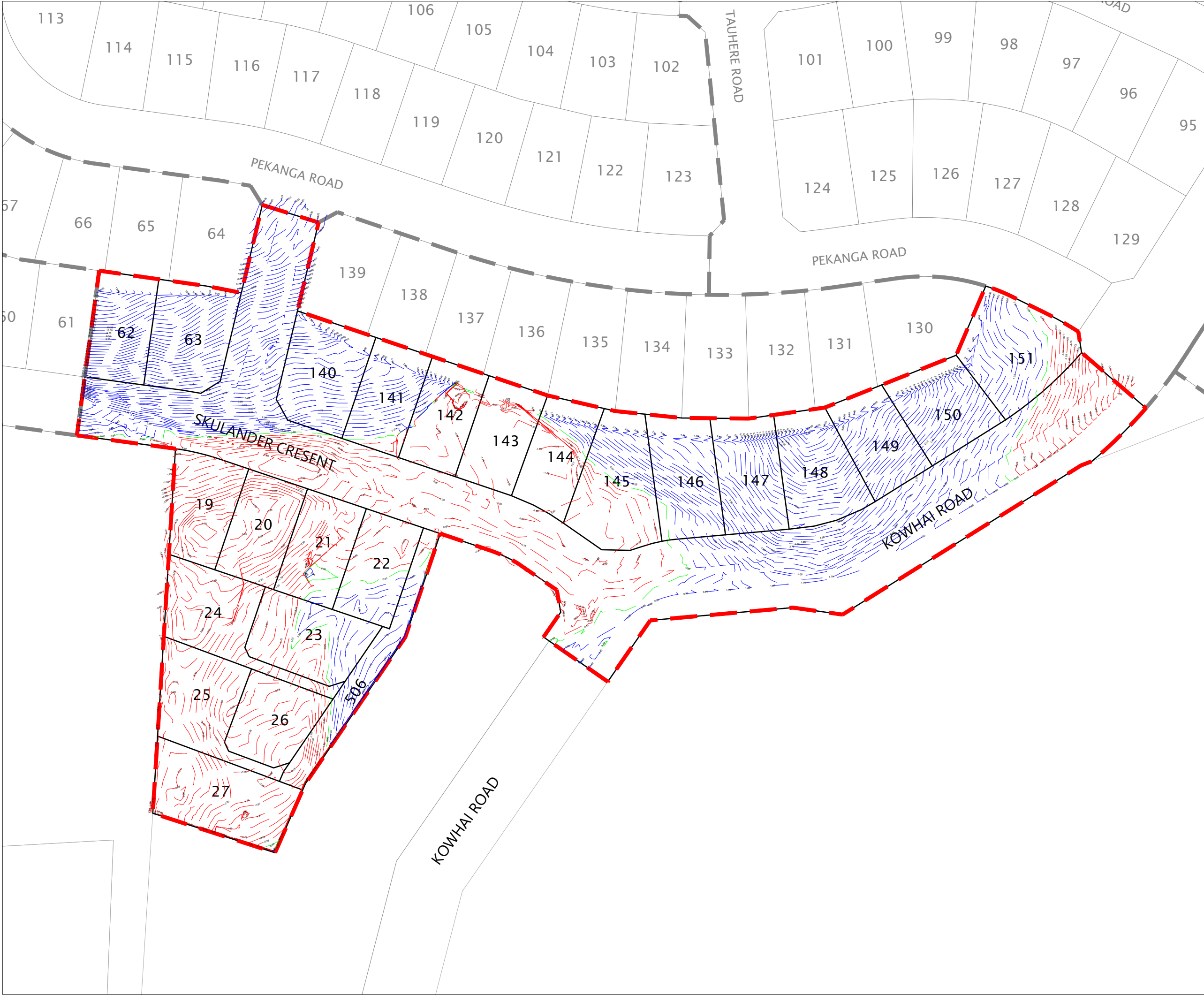
**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 3
AND 4**

**WATERMAIN ASBUILT
SHEET 5 OF 5**

STATUS	AS BUILT	REV
SCALE	1:500 @ A3	3
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-00-6004-AB	



Plot Date: 2:15:45 pm, 17 October 2025, SAMANTHAM



- NOTES**
1. COORDINATES ARE IN TERMS OF NZTM.
 2. LOT BOUNDARIES ARE SUBJECT TO FINAL SURVEY AND LINZ APPROVAL.
 3. CONTOURS ARE AT 0.25m INTERVALS.
 4. PLANS SHOULD BE READ IN CONJUNCTION WITH GCR.

LEGEND

ZERO CONTOUR	0.0
CUT CONTOUR	-1.0
FILL CONTOUR	1.0
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	16/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023 WOODS.CO.NZ
DESIGNED	TT COFFEY	
DRAWN	EC	
CHECKED	TT COFFEY	
APPROVED	SM	

**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4**

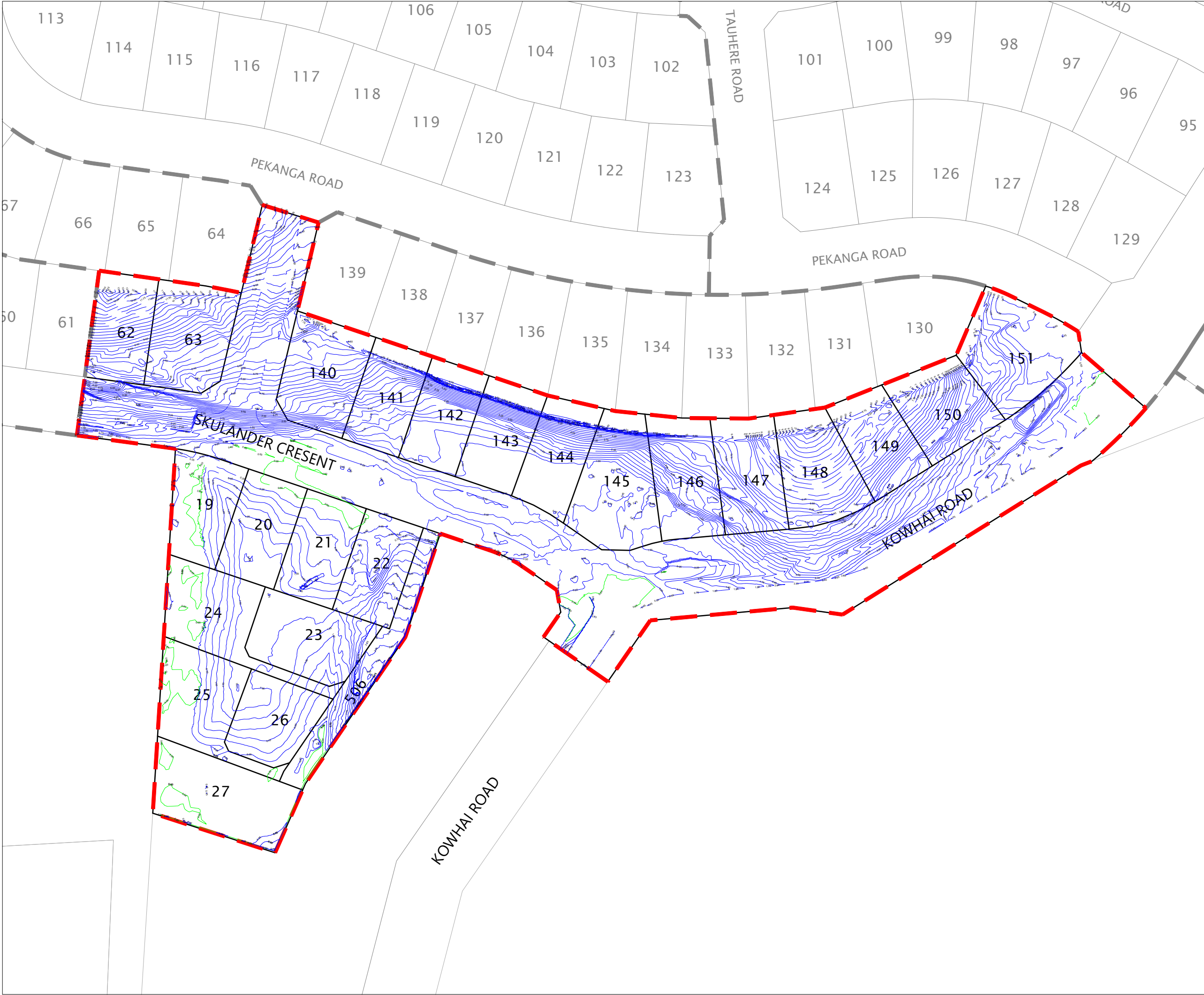
CUT AND FILL ASBUILT
ORIGINAL TOPOGRAPHIC SURFACE
TO FINAL SURFACE

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-1100-AB	

File: C:\125\ENERGY\DATA\WP-PEN-APP-01\P22-437 - P6 STAGE 3 AND 4_21253\CAD\SURV\ABS\WP22-437-04-1100-AB CUT FILL.DWG



Plot Date: 2:15:46 pm, 17 October 2025, SAMANTHAM



- NOTES**
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LEGEND	
ZERO CONTOUR	0.0
CUT CONTOUR	-1.0
FILL CONTOUR	1.0
LOT BOUNDARY	
EXISTING LOT BOUNDARY	
FUTURE LOT BOUNDARY	
STAGE BOUNDARY	

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REVISION DETAILS		BY	DATE
1	ISSUED FOR INFORMATION	EC	16/10/25

SURVEYED	WOODS	BUILDING B, LEVEL 1 8 NUGENT STREET GRAFTON AUCKLAND 1023 WOODS.CO.NZ
DESIGNED	TT COFFEY	
DRAWN	EC	
CHECKED	TT COFFEY	
APPROVED	SM	



**MILLWATER OREWA WEST
PRECINCT 6 - STAGE 4**

CUT AND FILL ASBUILT
LOWEST SURFACE TO
FINAL SURFACE

STATUS	ISSUED FOR INFORMATION	REV
SCALE	1:1000 @ A3	1
COUNCIL	AUCKLAND COUNCIL	
DWG NO	P22-437-04-1101-AB	

File: C:\125\ENERGY\DATA\WP-PEN-APP-01\P22-437 - P6 STAGE 3 AND 4_21253\CAD\SURV\ABS\WP22-437-04-1100-AB CUT FILL.DWG